

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
CHAPTER 17: LIME TERRACING, ROOF TOP WATER PROOFING FOR GARDEN & SWIMMING POOL						
Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
17.1	Supply and application of non-toxic two components acrylic polymer modified cementitious coating (minimum 1.5 mm thickness) for water proofing of roof/ roof garden/ swimming pool which consists of powder and liquid acrylic emulsion; under a protective cover of plaster/ cement concrete/ tiles etc. as per standard specification and accepted by the Engineer-in-charge. (Rate is excluding the cost of protective cover)	sqm	841.00	837.00	828.00	828.00
17.2	Preparation and making gravel pack for roof top gardening with supply of 25 mm down graded pea gravels including sieving, washing, compacting etc. complete as per standard specification and accepted by the Engineer-in-charge. Ground floor	cum	5101.00	5081.00	4641.00	4641.00
17.2.1	Extra rate for gravel pack work in additional floor:					
17.2.1.1	Add for each additional floor up to 5th floor	cum	131.00	129.00	119.00	119.00
17.2.1.2	Add for each additional floor for 6th floor to 9th floor	cum	179.00	175.00	162.00	162.00
17.2.1.3	Add for each additional floor for 10th floor and above	cum	226.00	222.00	206.00	206.00
17.3	Supply and application of 19mm thick (9.5 mm X 2 layer) water proof, damp proof, dry and breathable plaster on roof slab/ underground water reservoir/ overhead water reservoir/ basement/retaining wall with water proof, damp proof, dry and breathable Izonil cement (STN-EN -1015-11 , compressive strength 34 MPa ,max depth of water penetration into hardened plaster is < 1 mm) or equivalent compound in a proportion of 1:2.4 (Izonil cement or equivalent compound 1: sand 2.4) after cement grouting on existing concrete surface including finishing the corner and edges, washing sand, cleaning the surface scaffolding and curing at least 3 days etc. all completed in all respects as per direction of Engineering-in-charge. Above mentioned plaster includes glass fiber mesh of 10 mm X 10 mm grid and weight 110 gm/sqm placed in between two layers.	sqm	1276.00	1273.00	1253.00	1253.00







Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
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17.4	Average 100 mm thick finished lime terracing with 20 mm down graded first class brick chips (khoa), surki from 1st class bricks and minimum lime content 500 kg per 2.83 cubic meter (stone lime brought at site, not being powdered in open air and to be slaked in presence of engineer-in-charge and to be measured in volume three days after slaking for using in the mix) in the proportion 7:2:2 (brick chips : surki : lime) including preparation of the mix on the ground by making a suitable platform under proper polythene cover. Cutting the mix twice daily with limewater (1:10) at least for 7 days until the mix attain desirable consistency. Laying the mix in proper slope, beating the same with standard 'koppa' for minimum 7 days to gain maximum consolidation, making ghoondy and neat finishing with lime Surki mortar (1:2) and curing for 21 days providing polythene cover after each day work and cleaning etc. complete in all respect accepted by the Engineer-in-charge. 1st Floor	cum	18830.00	18705.00	17936.00	17912.00
17.4.1	Extra rate for lime terracing work in additional floor:					
17.4.1.1	Add for each additional floor up to 5th floor	cum	131.00	129.00	119.00	119.00
17.4.1.2	Add for each additional floor for 6th floor to 9th floor	cum	179.00	175.00	162.00	162.00
17.4.1.3	Add for each additional floor for 10th floor and above	cum	226.00	222.00	206.00	206.00
17.5.1	25 mm thick ferrocement treatment work for water proofing on roof having minimum cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type-1, and best quality coarse sand ((F.M.≥ 2.2)) including, the supply of all materials, cutting, binding of one layer of 20 BWG galvanized wire mesh having minimum yield strength fy = 450 MPa & having 2 mesh per 25 mm in both ways, clear cover 12 mm at the middle of the ferrocement lining, with washing of sand, chipping, cleaning the surface, watering, grouting, casting, laying on proper level of roof top or floor in panels (1.25 m x 1.25 m). Compaction including leveling, curing at least for 21 days including cost of water, electricity, in all respect as per drawing, design and accepted by the Engineer-in-charge.	sqm	1573.00	1571.00	1527.00	1518.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
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17.5.2	25 mm thick ferrocement treatment work for heat and water proofing on roof having minimum cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type-1, and best quality coarse sand ((F.M.≥ 2.2)) including, the supply of all materials, cutting, binding of one layer of 20 BWG galvanized wire mesh having minimum yield strength fy = 450 MPa & having 2 mesh per 25mm in both ways, clear cover 12mm at the middle of the ferrocement lining, applying 62 mm thick EPS sheet having density 15 kg per cum, with washing of sand, chipping, cleaning the surface, watering, grouting, casting, laying on proper level of roof top or floor in panels (1.25 m x 1.25 m). Compaction including leveling, curing at least for 21 days including cost of water, electricity, in all respect as per drawing, design and accepted by the Engineer-in-charge.	sqm	1979.00	1977.00	1928.00	1920.00
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
CHAPTER 18 : FALSE CEILING, WALL PANELING						
Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
18.1.1	Supplying, fitting and fixing plain particle board ceiling (complying unit wt 499 to 550 kg/m³ bending strength 0.35 N/mm², max swelling 8%, moisture content not more than 10%), of 12 mm thick with best quality and well seasoned Garjan wood frame of section 75 mm x 38 mm at 600 mm x 600 mm in grid suspended from ceiling or roof or beam by 12 SWG double ply G.I. wire fixed to the ceiling by rowel plug, screws, hooks, nails etc, maintaining straight lines and desired finished level at bottom face including vertical strut as required, cutting holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, also including cost and carriage of all materials, accessories, labour for installation, electricity charge, scaffolding, screws, nails, painting 2 coats over a coat of priming with best quality and approved colour synthetic enamel paint etc. all complete, as per drawing design and accepted by the Engineer-in-charge. (All sizes of wood are finished)	sqm	3366.00	3286.00	3328.00	3328.00
18.1.2	Supplying, fitting and fixing plain particle board as in item 18.1.1. for ceiling of 12 mm for auditorium and other type of tall structures beyond 4 m up to 8 m, which do not cover the above item [Item No. 18.1.1]. Description of item is the same as in item No. 18.1.1 above.	sqm	3630.00	3550.00	3592.00	3592.00
18.1.3	Supplying, fitting and fixing of 12 mm thick melamine board ceiling laminated by mechanical hot press milk white PVC membrane, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	1998.00	1991.00	1941.00	1941.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
18.2.1	Supplying, fitting and fixing gypsum board ceiling of 9 mm thick board laminated by mechanical hot press with milk white PVC membrane, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	2714.00	2694.00	2648.00	2648.00
18.2.2	Supplying, fitting and fixing veneered board ceiling of 12 mm thick board laminated by mechanical hot press with a milk white PVC membrane, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	3137.00	3117.00	3071.00	3071.00
18.2.3	Supplying, fitting and fixing of 9 mm thick perforated gypsum board false ceiling , framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	2754.00	2734.00	2688.00	2688.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
18.2.4	Supplying, fitting and fixing of best quality 6 mm thick PVC board false ceiling of size 600 mm x 600 mm of approved design , minimumn PVC content of 35%, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	2833.00	2813.00	2767.00	2767.00
18.2.5	Supplying, fitting and fixing of 0.6 mm thick best quality solid aluminium metal board false ceiling of size 600 mm x 600 mm , powder coated of approved design, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	3705.00	3685.00	3639.00	3639.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
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18.2.6	Supplying, fitting and fixing of 0.6 mm thick best quality perforated aluminium metal board false ceiling of size 600 mm x 600 mm , powder coated of approved design, inner side is covered by black tissue/ fabric to protect the hole from air circulation, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	3401.00	3381.00	3335.00	3335.00
18.2.7	Supplying, fitting & fixing of designed seamless false ceiling with 6 mm thick fiber cement board , framing by furring channel/ G. I. angle suspended in 600 mm x 600 mm grid from ceiling using G.I fitting angle, locking clips etc. including plastic paint of desired colour, cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	3681.00	3663.00	3615.00	3615.00
18.3.1	Supplying, fitting and fixing 12 mm thick burma teak (BT) veneered board in walling with best quality and well seasoned garjan wood frame of section 75 mm x 38 mm at 600 x 600 mm in grid, fitted and fixed to wall by plugs, nails, screws etc. including treatment of inner surface with termite and damp proofing agent maintaining leveled and finished exposed faces including. making holes in wall and mending good the damages, if any during execution of the work, also including cost and carriage of all materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. including french polishing by 3 coats over a coat of priming etc. all complete as per design, approved sample and accepted by the Engineer-in-charge.	sqm	3747.00	3681.00	3681.00	3681.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
18.3.2	Supplying, fitting and fixing 12 mm thick particle board in walling with best quality and well seasoned Garjan wood frame of section 75 mm x 38 mm at 600 mm x 600 mm in grid, fitted and fixed to wall by plugs, nails, screws etc. including treatment of inner surface with termite and damp proofing agent maintaining leveled and finished exposed faces including. making holes in wall and mending good the damages, if any during execution of the work, also including cost and carriage of all materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. including french polishing by 3 coats over a coat of priming etc. all complete as per design, approved sample and accepted by the Engineer-in-charge.	sqm	3081.00	3015.00	3030.00	3030.00
18.3.3	Supplying, fitting and fixing best quality wall paper along with 12 mm thick PVC solid board in walling with furring chanel frame of section 75 mm x 38 mm at 600 mm x 600 mm in grid, fitted and fixed to wall by plugs, nails, screws etc. including treatment of inner surface with termite and damp proofing agent maintaining leveled and finished exposed faces including making holes in wall and mending good the damages, if any during execution of the work, also including cost and carriage of wall paper and other materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. all complete as per design, approved and accepted by the Engineer-in-charge.	sqm	4441.00	4425.00	4370.00	4370.00
18.3.4	Supplying, fitting and fixing best quality wall paper on finished plaster surface including cost and carriage of wall paper and other materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. all complete as per design, approved and accepted by the Engineer-in-charge.	sqm	1179.00	1174.00	1168.00	1168.00
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat

CHAPTER 19 : COLLAPSIBLE GATE, M.S. GATE, ROLLING SHUTTER ETC.

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
19.1.1	Manufacturing, supplying, fitting and fixing collapsible gate of any design and shape made of 25 mm x 25 mm x 3 mm S.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 25 mm x 3 mm S.S flat bar scissors 525 mm/ 600 mm long provided in 3 rows including cutting the different S.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) nos. 50 mm x 50 mm x 6 mm S.S. tee rail made by welding 2 nos. 50 mm x 6 mm S.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/roof slab, floors and side wall with required nos. 150 mm to 225 mm long 38 mm x 6 mm S.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holethe field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Eng	sqm	20847.00	20819.00	20639.00	20639.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
19.1.2	Manufacturing, supplying, fitting and fixing collapsible gate of any design and shape made of 20 mm x 20 mm x 3 mm S.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 20 mm x 3 mm S.S flat bar scissors 525 mm/ 600 mm long provided in 3 rows including cutting the different S.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) nos. 50 mm x 50 mm x 6 mm S.S. tee rail made by welding 2 nos. 50 mm x 6 mm S.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/roof slab, floors and side wall with required Nos. 150 mm to 225 mm long 38 mm x 6 mm S.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holethe field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the En	sqm	17495.00	17467.00	17287.00	17287.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
19.1.3	<p>Manufacturing, supplying, fitting and fixing collapsible gate of any design and shape made of 25 mm x 25 mm x 3 mm M.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 25 mm x 3 mm M.S flat bar scissors 525 mm/ 600 mm long provided in 3 rows including cutting the different M.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) Nos. 50 mm x 50 mm x 6 mm M.S. tee rail made by welding 2 nos. 50 mm x 6 mm M.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/roof slab, floors and side wall with required nos. 150 mm to 225 mm long 38 mm x 6 mm M.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holethe field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Engineer-in-charge. The Engineer-in-charge may require revision of the plans prior to giving approval for construction. The contractor shall also submit details proposed f</p>	sqm	6949.00	6918.00	6728.00	6728.00





Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
19.1.4	<p>Manufacturing, supplying, fitting and fixing collapsible gate of any design and shape made of 20 mm x 20 mm x 3 mm M.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 20 mm x 3 mm M.S flat bar scissors 525 mm/ 600 mm long provided in 3 rows including cutting the different M.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) nos. 50 mm x 50 mm x 6 mm M.S. tee rail made by welding 2 nos. 50 mm x 6 mm M.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/roof slab, floors and side wall with required Nos. 150 mm to 225 mm long 38 mm x 6 mm M.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holethe field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Engineer-in-charge. The Engineer-in-charge may require revision of the plans prior to giving approval for construction. The contractor shall also submit details proposed</p>	sqm	5894.00	5866.00	5691.00	5691.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
19.2.1	Supplying, fitting, fixing, and installation of ordinary type M.S. gate (double leaf) of any design and shape with 38 x 38 x 6 mm M.S. Angle outer frame having 16 mm dia M.S. rod placed vertically @ 75 mm c/c. at bottom part and top part (200 mm long arrows) and also placed horizontally at bottom for interconnection of 16 mm dia M.S. rod placed vertically as per design, the top part covered with 18 BWG M.S. sheet and fixed with 4 nos. 38 mm x 6 mm F.I. bars placed diagonally and 4 Nos. 38 mm x 6 mm F.I. bars placed horizontally and vertically all passing through the center, providing locking arrangements on 3 mm thick M.S. plate one for main gate and one for minimum 600 mm x 1025 mm pocket gate with 38 mm x 38 mm x 6 mm M.S. angle and 16 mm dia M.S. rod placed vertically @ 75 mm c/c, providing 38 mm x 38 mm x 6 mm M.S. angle clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes at the field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Engineer-in-charge. The Engineer-in-charge may require revision of the plans prior to giving approval for construction. The contractor shall also submit details proposed furniture, fi	sqm	7814.00	7783.00	7580.00	7580.00
19.2.2	Manufacturing, supplying and fitting-fixing security door with 25 mm dia M.S. rod and outer frame with 50 mm x 50 mm x 6 mm M.S. angle including locking arrangement as per approved design and drawing providing 38 mm x 38 mm x 6 mm M.S. angle clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including riveting, welding as and where necessary, painting two coats with approved quality of synthetic enamel paint over a coat of priming of anti corrosive paint etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint).	sqm	14066.00	13994.00	13602.00	13602.00

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19.3	Supplying, fitting, fixing, and installation of ordinary type M.S. security gate of any design and shape with 50 mm x 50 mm x 6 mm M.S. angle outer frame and 02 (two) 50 mm x 50 mm x 6 mm angle placed diagonally having 22 mm dia M.S. rod placed vertically @ 115 mm c/c. and also 38 mm x 6 mm F.I placed horizontally, the bottom part covered with 3 mm thick M.S. sheet providing locking arrangements on 3 mm thick M.S. plate providing heavy type clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including fabrication, riveting, welding as and where necessary, etc. all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	6889.00	6861.00	6671.00	6671.00
19.4	Supplying, fitting, fixing and installation of ordinary type M.S. gate (double leaf) of any design and shape with 38 mm x 38 mm x 6 mm M.S. angle box (made by welding 2 nos. 38 mm x 38 mm x 6 mm angle) outer frame having 25 mm x 50 mm x 25 mm x 5 mm M.S. channel (made by welding 2 nos. of channel) placed part diagonally after cutting and shaping as per requirement, part horizontally @ 75 mm c/c, the two part of each leaf being separated by a vertical member of 38 mm x 38 mm x 6 mm M.S. box and welded the each ends of diagonal and horizontal members properly with the box frame as per architectural drawing providing full locking arrangement on 3 mm thick M.S. plates providing 38 mm x 38 mm x 6 mm M.S. angle clamps, fitting fixing with the outer frame of the gate, the clamp being embedded in R.C.C. pillars with cement concrete (1:2:4) including. cutting holes and mending good the damages, finishing, curing and where necessary painting two coats with approved quality of synthetic enamel paint over a coat of primithe field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Engineer-in-charge. The Engineer-in-charge may require revision of the plans prior to giving approval for construct	sqm	10177.00	10150.00	9967.00	9967.00

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19.5	Manufacturing, supplying, fitting and fixing G.I. pipe gate of any design and shape having 38 mm dia G.I. pipe outer frame and 19 mm dia. G.I. pipe vertical member placed @ 75 mm c/c by welding at top and bottom of G.I. pipe frame, cutting the pipes in proper shape and size including making semicircular band at the corners of the outer frame without damaging the pipe, covering 50% of the gate area with 18 BWG M.S. sheet, providing also two extra horizontal 38 mm dia G.I. pipes welded with vertical post, providing 6 nos. huskle domney with R.C.C. or R.C.C core pillar with cement concrete (1:2:4) in masonry including cutting holes, mending good the damages, making provision for minimum 0.61 m x 1.4 m pocket gate having its outer frame and inner vertical members made with 19 mm dia G.I. pipe including necessary locking arrangements. Painting the gate with 2 (two) coats of synthetic enamel paint over a coat of anti-corrosive priming, welding as and where necessary including necessary locking arrangement and provithe field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Engineer	sqm	11079.00	11053.00	10900.00	10900.00

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			Dhaka	Chattogram	Paksey	Lalmonirhat
19.6	Supplying, fitting and fixing of rolling shutter of any design and shape made of 24 SWG G.P. sheet unit minimum 69 mm width having 10 mm and 12 mm dia circular folding at ends, rolled in machine, locked together properly to form rolling shutter, top of the shutter to be fitted with circular spring box made of 22 BWG sheet, containing best quality spring made in China, nutted with 38 mm G.I. pipe at one end and the other end nutted to shutter including fitting the G.I. pipe again with 375 mm x 300 mm x 6 mm pankha at ends with side guide channel (side channel consist of 50 mm x 100 mm x 6 mm M.S. plate with 2 mm x 19 mm x 3 mm F.I. bar, middle channel consist of 2 mm x 150 mm x 6 mm M.S. plate with 2 mm x 19 mm x 6 mm fixed to wall or column with clamps embedded in R.C.C. part by cement concrete (1:2:4) including cutting holes (minimum 3 mm x 25 mm x 6 mm) mending the damages, finishing, curing, bottom end of shutter fitted to folded G.P. sheet (min 125 mm width in two layers), which is again fitted to 25 mm x the field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Engineer-in-charge. The Engineer-in-charge may require revision of the plans prior to giving approval for construction. The contractor shall also submit det	sqm	7365.00	7329.00	7213.00	7213.00
19.7	Manufacturing, supplying, fitting, fixing of ordinary type M.S. folding gate with 12mm x 12mm MS square solid bar and 25 mm x 25mm x 6 mm MS angle box frame and two nos outer side fixed box post made with 40 mm x 40 mm x 6 mm angle at both ends attached to column/wall side including locking arrangement providing 38 mm x 38 mm x 6 mm M.S. angle clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including riveting, welding as and where necessary, painting two coats with approved quality of synthetic enamel paint over a coat of priming of anti-corrosive paint etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint)	sqm	6807.00	6774.00	6581.00	6581.00
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
CHAPTER 20 : STAIR & VERANDAH RAILING AND STAIR NOSING						
Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
20.1	Manufacturing, supplying, fitting and fixing of stair railing of any standard height of any design and shape with square box (2 nos.in each tread) made by thorough welding of 2 nos. 19 mm x 19 mm x 3 mm M.S. angle to provide hand-rail, engraving each box 150 mm in the concrete by 50 mm x 50 mm x 6 mm anchor plate at base, welding 38 mm x 6 mm F.I. bar inclined plain with the top of the box to fit in the grooved wooden rail by necessary screws including cutting grooves in concrete, mending good the damages with cement concrete (1:2:4), applying first class polish to hand rail, 2 (two) coats of synthetic enamel paint of approved quality over a prime coat etc. finished in all respect for all floors and accepted by the Engineer-in-charge.(Exposed area of railing will be considered for measurement, rate is excluding the cost of hand rail and cost of painting).	sqm	4579.00	4546.00	4383.00	4383.00
20.2	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with square box (2 nos. box in each tread) made by thorough welding of 2 nos. 25 mm x 25 mm x 5 mm M.S. angle , engraving each box 150 mm in the concrete by 50 mm x 50 mm x 6 mm anchor plate at base, welding 50 mm x 50 mm x 6 mm F.I. bar in inclined plain with the top of the box fitted in the grooved wooden rail and 2 Nos. 225 mm x 25 mm finished section of wooden strip fitted and fixed at mid height of railing at both side of M.S. angle box in inclined plain parallel to the hand rail etc. fitted and fixed by necessary screws, nails including cutting grooves in concrete, mending good the damages with cement concrete (1:2:4) applying 1st class french polish to wooden hand rail and inclined wooden strip and painting to F.I bar and square box with 2 (two) coats of synthetic enamel paint of approved quality and colour over a prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-the fie	sqm	7745.00	7636.00	7719.00	7719.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
20.3	Supplying, fitting and fixing 12 mm dia G.I pipe stair railing of any standard height of any design and shape with 50 mm x 50 mm x 6 mm M.S. plate at the base of 12 mm dia G.I. Pipe and fitted and fixed by welding. Placing the pipes vertically @ 250 mm c/c (1 nos. in each steps) 150 mm embedded into the R.C.C tread of stair case after cutting grooves and mending good the damages with C.C. and providing 38 mm x 6 mm F.I. bar on the top of G.I. pipe to provide wooden hand rail of any design including polishing, painting etc. all complete and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of paint, wood for railing)					
20.3.1	With the provision of hand rail of size: 150 mm x 62 mm (finished)	sqm	2883.00	2863.00	2755.00	2755.00
20.3.2	With the provision of hand rail of size: 112 mm x 62 mm (finished)	sqm	3898.00	3864.00	3691.00	3691.00
20.4	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 62 mm dia pipe for hand-rail, 2 mm thick 40 mm dia 5 nos vertical pipes in each flight, 2 mm thick 20 mm dia 5 nos horizontal pipes as per drawing, design including carrying, polishing fabricating, welding and fixing with tread by 25 mm long royal bolt etc. all complete and accepted by the Engineer-in-charge.	sqm	6465.00	6447.00	6355.00	6355.00
20.5.1	Supplying, fitting and fixing of 12 mm dia G.I pipe stair railing of any standard height and design and shape with 50 mm x 50 mm x 6 mm M.S. plate at the base of 12 mm dia G.I. Pipe and fitting & fixing by welding. Placing the pipes vertically @ 125 mm c/c (2 nos. in each steps) 150 mm embedded into the R.C.C tread of stair case after cutting grooves and mending good the damages with C.C. and providing 38 mm x 6 mm F.I. bar on the top of G.I. pipe to provide 37 mm G.I. pipe hand rail of any design including polishing, painting etc. all complete and accepted by the Engineer-in-charge.(Exposed area of railing will be considered for measurement, rate is excluding the cost of paint, wood for railing)	sqm	4682.00	4666.00	4586.00	4586.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
20.5.2	Supplying, fitting and fixing 12 mm dia G.I pipe stair railing of any standard height of any design and shape with 50 x 50 x 6 mm M.S. plate at the base of 12 mm dia G.I. Pipe and fitting & fixing by welding. Placing the pipes vertically @ 125 mm c/c (2 nos. in each steps) 150 mm embedded into the R.C.C tread of stair case after cutting grooves and mending good the damages with C.C. and providing 38 mm x 6 mm F.I. bar on the top of G.I. pipe to provide 50 mm G.I. pipe hand rail of any design including polishing, painting etc. all complete and accepted by the Engineer-in-charge.(Exposed area of railing will be considered for measurement, rate is excluding the cost of paint, wood for railing)	sqm	5518.00	5493.00	5369.00	5369.00
20.6	Supplying, fitting and fixing verandah railing with 2 mm thick 50 mm dia SS hand rail, 2 mm thick 20 mm dia 5 nos SS horizontal pipes, 2 mm thick 50 mm x 25 mm SS box vertical post @ 450 mm c/c. Among the vertical box post 5 nos box posts will be fitted with floor bed by 65 mm x 55 mm x 6 mm SS plate, remaining no SS box post will be fitted and fixed with 50 mm x 25 mm x 2 mm SS horizontal box at bottom (50 mm above from floor bottom) including all fittings, fixtures, polishing, carrying etc. all complete as per approved design and drawing and accepted by the Engineer-in-charge.	sqm	12387.00	12386.00	12380.00	12380.00
20.7	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair with 62 mm dia 2 mm thick SS pipe for hand rail, 5 nos 62 mm x 50 mm x 2 mm vertical pipe in each flight fitted and fixed with 65 mm x 55 mm x 6 mm SS base plate including welding, bending, fabricating, polishing all complete as per drawing, desing and specification etc all complete in all respect and accepted by Engineer-in-charge.	sqm	10967.00	10948.00	10854.00	10854.00
20.8	Supplying, fitting and fixing 10 mm thick tempered glass railing in verandah with 62 mm dia 2 mm thick SS pipe for hand rail, 5 nos 62 mm x 50 mm x 2 mm vertical box fitted with concrete slab by 65 mm x 55 mm x 6 mm SS plate @ 600 mm c/c including all fittings, fixtures as per drawing, desing and specification etc all complete in all respect and accepted by Engineer-in-charge.	sqm	13204.00	13187.00	13102.00	13102.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
20.9	Providing nosing to the nose of tread of stair including supplying 3 nos. of 75 mm long 12 mm x 3 mm F.I./SS bar clamps with bifurcated ends in each treads including fitting and fixing with the angle by welding and fitting and fixing the angle by cutting grooves in R.C.C, fixing and finishing and the same with C.C. (1:2:4) etc. cost of electricity and other charges all complete and accepted by the Engineer-in-charge.					
20.9.1	Providing 38 mm x 38 mm x 6 mm M.S. angle to the nosing of steps of staircase	meter	517.00	514.00	501.00	501.00
20.9.2	Providing nosing 32 mm x 32 mm x 6 mm M.S. angle to the nosing of steps of stair case.	meter	459.00	456.00	443.00	443.00
20.9.3	Providing 25 mm x 25 mm x 6 mm size M.S. angle to the nosing of stair case.	meter	403.00	400.00	387.00	387.00
20.9.4	Providing 38 mm x 38 mm x 6 mm brass angle to the nosing of steps of stair case	meter	1556.00	1553.00	1540.00	1540.00
20.9.5	Providing 38 mm x 38 mm x 6 mm S.S. angle to the nosing of steps of staircase	meter	1513.00	1510.00	1497.00	1497.00
20.9.6	Providing 32 mm x 32 mm x 6 mm S.S. angle to the nosing of steps of stair case..	meter	1217.00	1215.00	1202.00	1202.00
20.9.7	Providing 25 mm x 25 mm x 6 mm size S.S. angle to the nosing of stair case.	meter	1154.00	1151.00	1138.00	1138.00
20.10	Supplying, fitting & fixing of column guard made of 50 mm x 50 mm x 6 mm M.S. angle around column & 50 mm x 6 mm F.I. bar for Tie at the top including fitting and fixing with the angle by welding, fitting and fixing the angle by cutting grooves in R.C.C, fixing and finishing the same with C.C. (1:2:4) etc. cost of electricity and other charges all complete and accepted by the Engineer in-charge.	meter	693.00	691.00	674.00	674.00
20.11	Supplying, fitting & fixing of column guard made of 75 mm x 75 mm x 3 mm S.S. angle at corner of column including supplying 3 Nos. of 75 mm long 12 mm x 3 mm SS bar clamp with bifurcated ends, fitting and fixing with the angle by welding, fitting and fixing the angle by cutting grooves in R.C.C, fixing and finishing the same with C.C. (1:2:4) etc. cost of electricity and other charges all complete and accepted by the Engineer-in-charge.	meter	1886.00	1884.00	1867.00	1867.00
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
CHAPTER 21 : GRILL FENCING AND BARBED WIRE FENCING						
Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
21.1	Supplying, fitting and fixing steel grill fencing of any design and shape in boundary wall with 31 mm x 6 mm F.I. bar @ 150 mm c/c placed vertically after cutting as per required measurement. Welding the said F.I. bar with 2 nos. horizontal 30 mm x 6 mm F.I. bar placed one at top and another at bottom including embedding/fixing the horizontal F.I. bar in position with cutting grooves in wall up to 150 mm depth and mending good the damages with C.C. (1:2:4), finishing with two coats of painting with synthetic enamel paint over a coat of anti-corrosive paint etc. complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting)	sqm	2933.00	2916.00	2810.00	2810.00
21.2	Supplying, fitting and fixing steel grill fencing of any design and shape made with 19 mm x 6 mm box tube (box made with 2 nos. 19 mm x 19 mm x 6 mm angle by continuous welding) placed vertically @ 150 mm c/c and welding the said vertical boxes with two Nos. horizontal 25 x 25 x 6 mm angle box (made with 2 Nos. 25 x 25 x 6 mm angle by welding), placing one at bottom and another at top and again fitting & fixing by welding the said horizontal tube box (with vertical 38 mm x 38 mm x 6 mm angle box post made with 2 nos. 38 mm x 38 mm x 6 mm angle by welding) provided @ 1800 mm c/c including embedding the tube box post in brick R.C.C. pillar or core wall up to 375 mm depth after cutting grooves in wall/pillar including mending good the damages with C.C. (1:2:4) and finishing, curing, 2 coats of approved synthetic enamel paint over a coat of anti-corrosive paint etc. all complete as per design, drawing and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting)	sqm	6195.00	6162.00	5960.00	5960.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
21.3	Manufacturing, supplying, fitting and fixing M.S. grill fencing as per design with outer frames having 38 mm x 38 mm x 6 mm M.S. angle and inner members having 6 mm dia M.S. rod placed @ 110 mm c/c diagonally on both direction, welding each criss-cross end of rod with corners of outer frame including cutting rods and size angles to required shapes and size and setting the entire fence with the previously installed box tube (box tube made with 2 nos. angle) post including thorough and full welding the frame with the angle box posts, painting 2 coats of synthetic enamel paint over a coat of anti-corrosive priming etc. all complete as per drawing and accepted by the Engineer-in-charge.(Rate is excluding the cost of angle box tube post and its installation and excluding the cost of paint)	sqm	3279.00	3260.00	3144.00	3144.00
21.4	Manufacturing, supplying, fitting and fixing M.S. box tube (made with 2 nos angle) post (bottom end bifurcated) made by thorough welding of two Nos. 38 x 38 x 6 mm M.S. angle and vertically placing the post into C.C. or R.C.C. foundation including cutting angle to required shape and size including covering the top of the post with 6 mm thick M.S. plate etc. all complete as per drawing and accepted by the Engineer-in-charge.(Rate is excluding the cost of C.C./R.C.C. foundation and paint)	meter	1215.00	1210.00	1180.00	1180.00
21.5	Providing barbed wire fencing with R.C.C (1:2:4) pillars @ 2.43 m c/c. and of section 100 mm x 100 mm at top and 150 mm x 150 mm at bottom of 2.13 m total height (1.37 m above G.L. and 0.76 m below G.L.) including 150 mm thick, 450 mm square spread footings (pillars reinforced with 4 Nos. 10 mm dia main rod and 6 mm dia stirrups @ 150 mm c/c, footing reinforced with 5 Nos. 10 mm dia rod both ways) supplying, fitting and fixing 8 lines of barbed wire horizontally (fixed with the post through 6 mm dia rods embedded in to the post) and 2 lines diagonally from post to post with 12 BWG 2 ply barbed wire, with 4 points barbs @ at least 112 mm c/c including 6 mm thick (1:4) cement plaster up to 1500 mm length of the pillars etc. complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of concrete and reinforcement which is to be paid as per corresponding items in the schedule)	sqm	171.00	170.00	167.00	167.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
21.6	Providing barbed wire fencing with average 100 mm dia best quality local ballah post of 1.98 m total height (1.37 m above G.L. and min. 0.60 m embedded in the ground) placed at 1800 mm c/c with 9 nos. horizontal lines and 2 nos. diagonal lines of 12 BWG 2 ply barbed wire with 4 points barbs @ at least 112 mm c/c in each way of 1.8 m including embedding the post tightly in ground and providing a cement concrete base of 200 mm x 200 mm x 300 mm around ballah at E.G.L, stretching the wires and fixing with the post with the help of minimum 62 mm long G.I. nails including supply of all materials etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of ballah and its driving/fixing and concrete which is to be paid as per corresponding items in the schedule)	sqm	295.00	294.00	289.00	289.00
21.7	Supplying, fitting and fixing 12 BWG barbed wire (2 ply, 4 points) in fencing work @ 150 mm c/c in both horizontally and vertically, supported by 38 mm x 38 mm x 6 mm M.S. L-shape angle post (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) 600 mm vertical and 450 mm inclined or as per requirement @ 2.4 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supplying all necessary materials complete in all respect and accepted by the Engineer-in-charge. (Rate is excluding the cost of R.C.C or brick work or C.C. which is to be paid as per corresponding items in the schedule)	sqm	1025.00	1016.00	992.00	992.00
21.8	Supplying, fitting and fixing 12 BWG barbed wire (2 ply, 4 points) in fencing work @ 150 mm c/c both horizontally and vertically, supported by 38 mm x 38 mm x 6 mm M.S. Y-shape angle post (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) 600 mm vertical and 450 mm inclined or as per requirement @ 2.4 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supplying all necessary materials complete in all respect and accepted by the Engineer-in-charge. (Rate is excluding the cost of R.C.C or brick work or C.C. which is to be paid as per corresponding items in the schedule)	sqm	1099.00	1089.00	1066.00	1066.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
21.9	Supplying, fitting and fixing 12 BWG barbed wire fencing in a circular shape of 600 mm dia and 76 mm pitch fitted with MS rod casing (made by 8 nos. 10 mm dia plain bar in a circular pattern and placed at equal interval), 38 x 38 x 6 mm M.S. angle post (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) and 600 mm vertical and 450 mm inclined placed @ 3.0 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supply of all necessary materials complete in all respect and accepted by the Engineer-in-charge. (Rate is excluding the cost of R.C.C or brick work or C.C. which is to be paid as per corresponding items in the schedule)	meter	3052.00	3046.00	2998.00	2998.00
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
CHAPTER 22 : MISCELLANEOUS ITEMS						
Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
22.1	Supplying, fitting and fixing of wooden wedge (12 mm base x 12 mm height) instead of putty for fixing glass panes with wooden frame by nails or by any other approved method including the cost of necessary wood, painting/polishing, nails etc. and excluding the cost of wooden frame, and painting and 5 mm thick glass panes all complete and accepted by the Engineer-in-charge.	meter	79.00	78.00	75.00	75.00
22.2	Supplying, fitting and fixing of 20 mm dia foreign made aluminium pipe curtain rail for door and window including cutting and fitting fixing as per required measurement and supplying necessary screws, electric drill and rowel plug including charge of electricity etc. complete and accepted by the Engineer-in-charge.	meter	722.00	720.00	712.00	712.00
22.3	Supplying, fitting and fixing 10mm thick clear tempered glass door including all accessories, 1 set floor mounted auto door closure, special quality 2 nos clamping devices, 1 set locking device, top hinge and handle etc. complete in all respect as per drawing and direction of the Engineer-in-charge.	sqm	16445.00	16442.00	16399.00	16399.00
22.4	Supplying, fitting and fixing 10 mm thick clear glass partition with 44 mm, 44 mm, 1.5 mm aluminium box, protector bit (single), protector bit (double) including all accessories etc. all complete and as per drawing and direction of the Engineer-in-charge.	sqm	3266.00	3253.00	3200.00	3200.00
22.5	Supplying, fitting and fixing of C.T wood strip (62 mm x 25 mm x 20 mm) for fixing of aluminium curtain rails as per design and drawing, fitting and fixing coat of priming etc. all complete and accepted by the Engineer-in-charge.(Rate is excluding the cost of polishing and painting etc.)	meter	965.00	947.00	923.00	923.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
22.6	Supplying, fitting and fixing vertical venetian blinds made with glass fiber fabrics (foreign made) with supply of all materials (foreign made) such as head rail (aluminium), end cap-set, rod tilt, sigger (stopper), runner, spacer (link), handling cord, ball chain, link chain, cord-weight weight-plate plastic washer, glass fiber fabrics, and head cap-set etc. all complete and accepted by the Engineer-in-charge.	sqm	2030.00	2030.00	2030.00	2030.00
22.7	Supplying, fitting and fixing horizontal venetian blinds of 25 mm width made with aluminium foils/ strips (foreign made) with supply of all materials (foreign made) such as head rail, bottom rail, rod tilt, head cap, bottom cap, gear box, stick, support and cap, cord drum and support, bracket, cord lock, cord equalizer, top holder, ladder, cord, handling cord and aluminium foils etc. all complete and accepted by the Engineer-in-charge.	sqm	1587.00	1588.00	1588.00	1588.00
22.8	Supplying, fitting and fixing of horizontal zebra blind made with polyester fabrics, synthetic net with 3 inch vinyl/upvc coated strips (foreign made) with supply of all materials (foreign made) such as head rail, bottom rail, rod tilt, head cap, bottom cap, gear box, stick, support and cap, cord drum and support, bracket, cord lock, cord equalizer, top holder, ladder, cord, handling cord and aluminium foils etc. all complete and accepted by the Engineer in-charge.	sqm	3456.00	3457.00	3457.00	3457.00
22.9	Supplying, fitting and fixing of blackout/ translucent roller blind of PVC/ vinyl laminated fiberglass fabrics (foreign made) with supply of all materials (foreign made) such as head rail (aluminium), end cap-set, rod tilt, sigger (stopper), runner, spacer (link), handling cord, ball chain, link chain, cord-weight weight-plate plastic washer, glass fiber fabrics, and head cap-set etc. all complete and accepted by the Engineer-in-charge.	sqm	2910.00	2908.00	2902.00	2902.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
22.10	Supplying, fitting & fixing of steel iron rack made of 50 mm x 50 mm x 6.35 mm vertical and horizontal angle post, welding 63.5 mm x 6.35 mm F.I. bar placed horizontally as bracing for the posts, 38 mm x 6.35 mm cross F.I. bars welded with vertical post, 12.7 mm thick M.S plate welded as cup shape at the bottom of post, supplying and fitting rivets, charge for welding, drilling, carrying, cutting, straightening in required sizes etc in all respect as per drawing, design and accepted by the Engineer-in-charge.	sqm	12288.00	12100.00	11814.00	11814.00
22.11	Supplying fitting & fixing of uPVC plastic door or window frame having specific gravity 1.35 - 1.45, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in brick wall/ R.C.C wall with 6 Nos. GI clamp, 4 nos inner joint GI clamp, 2 nos. outer GI joint clamp, 16 nos. rivet making necessary grooves and mending good the damages, finishing, curing, carriage etc complete in all respect accepted by the Engineer-in-charge.	meter	347.00	346.00	336.00	336.00
22.12	Supplying, fitting, fixing of uPVC hollow or solid plastic door shutter having specific gravity of 1.35 - 1.45, thickness 1.7 mm-2.2 mm, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards of different sizes, fitted fixed with uPVC plastic door frame weighing 5.82 kg/m ² with at least 3 Nos. SS hinges by min 64 Nos. Ø 3.17 mm and 3.97 mm 12.7 mm long rivets, 12 nos. 25.4 mm SS screws, Ø 9.38 mm, 150 mm long SS tower bolts 2 nos., 146 mm SS handle by rivet 2 Nos., G.I inner joint, 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, 25 mm dia 1 no ss haspbolt, special type round lock, carrying the same to the site and local carriage etc. complete in all respect and accepted by the Engineer-in-charge.					
22.12.1	760 mm x 1980 mm uPVC plastic shutter (hollow).	each	4386.00	4369.00	4285.00	4285.00
22.12.2	760 mm x 2130 mm uPVC plastic shutter (solid).	each	4511.00	4493.00	4409.00	4409.00
22.12.3	910 mm x 2130 mm uPVC plastic shutter (hollow).	each	4723.00	4705.00	4621.00	4621.00
22.12.4	990 mm x 2130 mm uPVC plastic shutter (solid).	each	4914.00	4897.00	4813.00	4813.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division in Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
22.13	Supplying, fitting & fixing of uPVC plastic or glass partition in plastic frame fabricated by 70 mm x 50 mm x 2 mm T and 50 mm x 40 mm x 2 mm / 50 mm x 30 mm x 2 mm L-sections, providing partition with 156 mm x 25 mm uPVC hollow section having wall thickness of 2.5 mm / partition with 5 mm thick glass. physical, chemical, thermal, fire resistivity properties etc of the materials as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards, fitted and fixed in brick wall or R.C.C wall with 6 nos. GI clamps, 4 nos. inner joint GI clamps, 2 nos. outer GI joint clamps, 16 nos. rivets, making necessary grooves and mending good the damages, finishing, curing, carriage etc complete in all respect and accepted by the Engineer-in-charge.					
22.13.1	With partition of uPVC hollow section	sqm	3046.00	3042.00	2979.00	2979.00
22.13.2	With 5 mm glass	sqm	2522.00	2515.00	2456.00	2456.00
22.14	Supplying, fitting & fixing of uPVC Profile for door, window and fixed partition frames applications having specific gravity of 1.36-1.43, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards including all accessories, fittings with 6 nos. steel clamps complete in all respect as per drawing and accepted by the Engineer-in-charge.	meter	618.00	633.00	617.00	617.00
22.15	Supplying, fitting & fixing of swing door shutter made of low density free foam (LDFF) sheet having standard size 1200 mm x 3200 mm. Physical properties: density: 0.55-0.68 g/cm ³ , weighing 1.3 kg/sft, providing new sash (100 mm), sliding glass bead, rubber, screws, 75 mm hinges 4 Nos., 100 mm tower bolt 2 Nos., 150 mm handle 2 nos. etc. including all accessories complete in all respect as per drawing and accepted by the Engineer-in-charge.					
22.15.1	1950 mm x 750 mm size 8 mm thick uPVC swing door shutter	each	12080.00	12237.00	11939.00	11939.00
22.15.2	2100 mm x 750 mm size 8 mm thick uPVC swing door shutter	each	12390.00	12560.00	12262.00	12262.00
22.15.3	2100 mm x 900 mm size 8 mm thick uPVC swing door shutter	each	12701.00	12883.00	12586.00	12586.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
22.16	Supplying, fitting & fixing of plastic wall paneling with 3 mm sheet, weighing 0.188 kg/sft, fitting and mending good the damages, carriage to the site including glass bead, partition frame, rubber, 5 mm clear glass fitted and fixed with screws, steel clamp etc all complete and accepted by the Engineer-in-charge.	sqm	1539.00	1532.00	1477.00	1477.00
22.17	Supplying, fitting & fixing of uPVC profile fixed partition with 5 mm clear glass, weighing 1.032 kg/sft, fitting and mending good the damages, carriage etc. complete in all respect and accepted by the Engineer-in-charge.	sqm	4121.00	4160.00	4063.00	4063.00
22.18.	Supplying, fitting & fixing of uPVC profile sliding window having gross weight of 14.00 kg/sqm (including 5 mm glass) fitting and mending good the damages, carries etc complete in all respect accepted by the Engineer-in-charge.					
22.18.1	uPVC sliding window with 5 mm glass (1200 mm x 1200 mm size)	sqm	6457.00	6481.00	6398.00	6398.00
22.18.2	uPVC sliding window without glass (1200 mm x 1200 mm size)	sqm	5504.00	5528.00	5444.00	5444.00
22.19	Supplying, fitting & fixing of plastic wood paneling in false ceiling with 6 mm sheet, weighing 3.85 kg/sqm, fitting and mending good the damages, carries etc complete in all respect and accepted by the Engineer-in-charge	sqm	1618.00	1610.00	1552.00	1552.00
22.20	Supplying, fitting and fixing of approved quality 190 mm x 190 mm size glass bricks in round stair wall including all accessories & charges, complete in all respect and accepted by the Engineer-in-charge.	sqm	16712.00	16710.00	16572.00	16572.00
22.21	Supplying, fitting & fixing 50 mm thick rock or glass wool padding of approved quality and accepted by the Engineer-in-charge.	sqm	4352.00	4328.00	4292.00	4292.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
22.22	Manufacturing supplying, fitting and fixing of single leaf louver door shutter made with 16 gauge thick 50 mm x 50 mm SS hollow box as outer frame, 16 gauge thick 50 mm x 38 mm SS hollow box as pannel frame and 18 gauge thick 50 mm x 12 mm SS hollow box as louver with 150 mm long 12 mm dia SS handle, 300 mm long 20 mm dia ss hasp bolt, 100 mm hinges etc, comple in all respect and accepted by the Engineering-in charge.	sqm	25673.00	25648.00	25424.00	25424.00
22.23.1	Supplying, laying, fitting & fixing best quality 225 mm dia (internal) machine made R.C.C. pipe over 100 mm thick cement concrete (1:3:6) at base and sides including single brick flat soling and gasket with cement mortar (1:4) joints, cutting and filling trenches up to required depth including excavation of soil etc. all complete in all respect as per type plan and accepted by the Engineer-in-charge (average depth of trench is 1050 mm). (Cement: CEM-II/A-M)	meter	1572.00	1567.00	1546.00	1546.00
22.23.2	Supplying, laying, fitting & fixing best quality 300 mm dia (internal) machine made R.C.C. pipe over 100 mm thick cement concrete (1:3:6) at base and sides including single brick flat soling and gasket with cement mortar (1:4) joints, cutting and filling trenches up to required depth including excavation of soil etc. all complete in all respect as per type plan and accepted by the Engineer-in-charge (average depth of trench is 1050 mm).(Cement: CEM-II/A-M)	meter	2466.00	2459.00	2433.00	2433.00
22.23.3	Supplying, laying and fitting-fixing 900 mm dia RCC pipe of approved quality and accepted by the Engineer-in-charge. [Rate is excluding cost for excavation, back-fill, materials for back-fill and bedding]	meter	12470.00	12440.00	12292.00	12292.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
22.24	Supplying, making, fitting & fixing of R.C.C. door/window frame of 155 mm x 65 mm which is made by using M.S. rod (fy = 400 MPa) fabrication work with 24 BWG G.I. wire, steel formworks with minimum cement concrete relates mix ratio (1:2:4) having minimum fcr = 27 MPa & satisfying a specified compressive strength, fc= 22 MPa at 28 days and cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ ASTM-C 150 type-1, best quality 50% quantity of local sand (F.M.≥ 1.2) and 50% quantity of coarse sand ((F.M.≥ 2.2)), 6 mm down well graded stone chips, screening, making, placing in position, making shutter/formworks water-tight properly, jute hassian, polythene sheet, placing of 100 mm long welded iron hinges with 6 mm dia M.S. rod clamp in position and mixing with mixer machine, casting in forms, compacting properly and curing at least for 21 days, removing shuttering and demoulding etc. all complete including the cost of water, electricity and other charges as per design, drawing and accepted by the Engineer-inthe field office, including foundations, access roads, shades, la	meter	154.00	152.00	141.00	141.00
22.25	Supply & installation of fire rated door complete & accepted by the Engineer-in-charge with the following specification:	sqm	49329.00	49329.00	49329.00	49329.00
	Standard(s) for safety : UL Certified, NFPA 80 standard					
	ANSI / UL 10C: Positive pressure of fire tests of door assemblies.					
	ANSI / UL 10B: Fire tests of door assemblies.					
	UL Subject 63: Outline of investigation for fire frames.					
	Shutter materials: Mild steel.					
	Fire resistivity (Door & frame): Two hours.					
	Fire resistivity (accessories): Three hours (panic bar, pul handle, ceramic fibre tape for sealing smoke, hinge, bolt and screw, mortice lock, door closer					
	Door frame: 2 vertical fire resisting jamb and 1 fire resisting horizontal jamb made with single rabbet hollow steel chanel frame made of 2.3 mm imported cold rolled mild steel sheet. Four SS hinges (size: 112 mm x 100 mm x 3.4mm) are used on each leaf screwd with frame					

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
	Door leaf: Door leaf faces consists of 1.6 mm thick imported cold rolled MS sheet attached together using interlocking mechanism and tack welding which is filled with imported 100kg/m ³ rock wool cake. Stiffeners should be used inside to strengthen structure.					
	Vision Panel: Made of UL certified 5 mm glass. It has clear vision area of 150 mm x 100 mm. Its frame is mae of 1.6 mm imported cold rolled MS sheet and SS pop rivet used for fixing. Ceramic fibre tape is used for sealing smoke.					
	Internal insulation: Rock wool.					
	Surface treatment: All MS sheets are chemically treated coated with zinc phosphate before assembly in highly equipped chemical treatment plant. All chemicals are imported.					
	Paint Finish: Epoxy powder coated paint finish and curing in temperature controlled gas oven.					
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
CHAPTER 23 : FERROCEMENT WORKS						
Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
23.1	Supplying, fitting & fixing of pre-cast ferroceement roof panel which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2 for flange having minimum compressive strength 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C150 type-1, best quality coarse sand of equivalent (F.M.≥ 2.2) , 2 layers of 18 BWG galvanized/epoxy coated wire mesh having minimum yield strength $f_y = 450$ MPa & having 2 meshes per 25 mm and reinforced cement concrete works for rib with minimum cement content relates to mix ratio 1:1.5:3 having minimum $f_{cr} = 33.5$ MPa and satisfying a specified compressive strength $f_c = 25$ MPa, best quality coarse sand of equivalent (F.M.≥ 2.2) and 12 mm down well graded stone chips conforming to ASTM C-33, supplying, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2016, including straightening and cleaning rust, if any, bending and binding in position with supply of 24 nos GI wires, remove the shuttering, lifting the panel to floor/roof level, keeping on proper position, filling the interstices with cement concrete (1:1.5:3), satisfying a specified compressive strength $f_c = 25$ MPa, stitching overlapped wire meshes with 18 BWG GI wire, filling with mortar (1:2), casting of 25 mm thick as screeding (1:1.5:3) using 6 mm down stone chips and M.S. rod ($f_y=400$ MPa) with fabrication over F.C. panel including the cost of reinforcement & wire mesh, curing at least for 7 days including the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge.					
23.1.1	For ground floor, span up to 3810 mm for floor/roof slab.	sqm	3081.00	3066.00	2997.00	2990.00
23.1.2	Extra cost shall be incorporated in the estimate for each additional floor					
23.1.2.1	Add for each additional span length of 150 mm long direction (3810 mm < span ≤ 4800 mm)	sqm	9.00	9.00	9.00	9.00
23.1.2.2	Add for each additional floor up to 5th floor	sqm	35.00	35.00	35.00	35.00
23.1.2.3	Add for each additional floor from 6th floor	sqm	40.00	40.00	40.00	40.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
23.2	Supplying, fitting & fixing of 20 mm thick ferrocement folded plate roof which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2, having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type- 1, best quality coarse sand of equivalent (F.M.≥ 2.2) , 1 layer of 20 BWG galvanized/epoxy coated wire mesh having minimum yield strength $f_y=450$ MPa & having 2 meshes per 25 mm, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2016, including straightening and cleaning the rust, if any, bending and binding in position with supply of 24 BWG GI wires, removing the shutter, lifting, keeping on proper position, curing at least for 7 days including the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge.					
23.2.1	For ground floor, span up to 3810 mm	sqm	2503.00	2490.00	2446.00	2445.00
23.2.1.1	Add for each additional span length of 150 mm long direction (3810 mm < span ≤ 4800 mm)	sqm	9.00	9.00	9.00	9.00
23.2.2.1	Add for each additional floor up to 5th floor	sqm	35.00	35.00	35.00	35.00
23.2.2.2	Add for each additional floor from 6th floor	sqm	40.00	40.00	40.00	40.00
23.3	Supplying, fitting & fixing of 20 mm thick ferrocement corrugated sheet roof which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2, having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type-1, best quality coarse sand of equivalent (F.M.≥ 2.2) , 1 layer of 20 BWG galvanized/epoxy coated wire mesh having minimum yield strength $f_y=450$ MPa & having 2 meshes per 25 mm and supplying, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2016 including straightening and cleaning rust, if any, bending and binding in position with supply of 24 nos GI wires, removing the shutter, lifting on ground floor roof, keeping on proper position, curing at least for 28 days including the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge.					

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
23.3.1	For ground floor, span up to 3810 mm for floor/roof slab.	sqm	2037.00	2034.00	2006.00	2004.00
23.3.2	Extra cost shall be incorporated in the estimate for each additional floor					
23.3.2.1	Add for each additional floor up to 5th floor	sqm	35.00	35.00	35.00	35.00
23.3.2.2	Add for each additional floor from 6th floor	sqm	40.00	40.00	40.00	40.00
23.4	Supplying, fitting & fixing of pre-cast Ferrocement L Panel which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2 for flange having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type-1, best quality coarse sand of equivalent (F.M.≥ 2.2) , 2 layers of 20 BWG galvanized/epoxy coated wire mesh having minimum yield strength fy=450 MPa & having 2 meshes per 25 mm and reinforced cement concrete works for rib with minimum cement content relates to mix ratio 1:1.5:3 having minimum fcr = 33.5 MPa and satisfying a specified compressive strength fc = 25 MPa, best quality coarse sand of equivalent (F.M.≥ 2.2) and 12 mm down well graded stone chips conforming to ASTM C-33, supplying, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2016 including straightening and cleaning rust, if any, bending and binding in position, curing at least the field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Engineer-in-charge. The Engineer-in-charge may require revision of the plans prior to giving approval for construction. The c					
23.4.1	For ground floor, span up to 3810 mm for floor/roof slab.	sqm	1782.00	1779.00	1747.00	1743.00
23.4.2	Extra cost shall be incorporated in the estimate for each additional floor					
23.4.2.1	Add for each additional floor up to 5th floor	sqm	35.00	35.00	35.00	35.00
23.4.2.2	Add for each additional floor from 6th floor	sqm	40.00	40.00	40.00	40.00







Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
23.5	Supplying, making and fitting fixing of ferrocement door/window frame 155 mm x 65 mm which is made by using M.S. rod (fy = 400 MPa) fabrication work minimum cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ ASTM-C 150 type-1, coarse sand ((F.M.≥ 2.2)), cutting, bending, binding of one layer 20 BWG galvanized / epoxy coated wire mesh having minimum yield strength fy=450 MPa & 12 mm c/c gap in both directions with 24 BWG. G.I. wire, jute hassain, polythene sheet, placing of 100 mm long welded iron hinges including 6 mm dia M.S. rod clamp fittings, fixing in position, casting with neat cement finishing demoulding and lean cement sand (1:8) cement, sand (F.M. 1:2) and curing at least for 28 days etc. all complete including the cost of water, electricity, testing and other charge as per design, drawing and accepted by the Engineer-in-charge. (Considering x- section of the frame is 153 mm x 64 mm).	meter	755.00	752.00	729.00	728.00
23.6	25mm thick cast-in-situ ferrocement wall with minimum cement content relates to mix ratio 1:2, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type-1, and best quality coarse sand ((F.M.≥ 2.2)) M.S. rod fabrication in accordance with BDS ISO 6935-2:2016 straightening and cleaning rust if any, bending and binding in position with supply of 8 mm dia M.S. rod 250 mm c/c vertically, 6 mm dia 250 mm c/c horizontally, 24 nos G.I. wire splices laps etc. 2 layers of 20 BWG galvanized wire mesh having minimum yield strength fy=450 MPa & 2 mesh per 25 mm, casting and finishing the both surfaces with cement sand (F.M.-1.2) mortar (1:3) and curing at least for 21 days, including the cost of water, electricity and other charges in all complete as per drawing, design and accepted by the Engineer-in-charge.	sqm	2193.00	2181.00	2131.00	2130.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
23.7	Supplying, fitting & fixing of 25 mm thick pre-cast ferrocement wall panel with minimum cement content relates to mix ratio 1:2, cement conforming to BDS EN-197-1-CEM-1, 52.5N (52.5MPa)/ ASTM C 150 type-1 and best quality coarse sand ((F.M.≥ 2.2)) and 2 layers of 20 BWG galvanized wire mesh having minimum yield strength fy=450 MPa & 2 mesh per 25 mm, including cutting, binding, bending, with 24 B.W.G. G.I. wire, casting and finishing the both surfaces with cement sand (F.M.-1.2) Mortar (1:3) and curing at least for 21 days before lifting, fitting & fixing the Ferrocement plate in proper position with making rib, supply of 8 mm dia M.S. rod 250 mm c/c vertically, 6 mm dia 250 mm c/c horizontally fabrication in accordance with BDS, ISO 6935-2.2016 straighting and cleaning rust if any, bending and binding in position with supply of G.I. wire etc. the cost of water, electricity and other charges, complete in all respect and accepted by the Engineer-in-charge					
23.7.1	Ground Floor	sqm	1938.00	1938.00	1901.00	1900.00
23.7.2	Add for each additional floor up to 5th floor	sqm	18.00	18.00	18.00	18.00
23.7.3	Add for each additional floor for 6th floor to 9th floor	sqm	28.00	28.00	28.00	28.00
23.7.4	Add for each additional floor for 10th floor and above	sqm	32.00	32.00	32.00	32.00
23.8	90 mm thick partition wall with ferrocement sandwich panel wall (cast in situ) using mortar having compressive strength not less than 15.0 N/mm ² and fitting-fixing of EPS sheet size (3000 mm x 1200 mm x 63 mm), 8 mm M.S. bar and its fabrication in both side with 20 BWG galvanized wire mesh having minimum yield strength fy=450 MPa & 2 mesh per 25 mm, in compliance with ASTM C129 fairly uniform thickness and water absorption not more than 7% including necessary scaffolding, cleaning and curing at least for 7 days including cost of water, electricity and other charges etc. in all complete accepted by the Engineer-in-charge.					
23.8.1	Ground Floor	sqm	2570.00	2562.00	2515.00	2514.00
23.8.2	Add for each additional floor up to 5th floor	sqm	13.00	13.00	13.00	13.00
23.8.3	Add for each additional floor for 6th floor to 9th floor	sqm	18.00	18.00	18.00	18.00
23.8.4	Add for each additional floor for 10th floor and above	sqm	21.00	21.00	21.00	21.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
23.9	40 mm ferro-cement slab on soil-cement stabilized sub-grade in ground floor etc. with minimum cement content relates to mix ratio 1:2 having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-1, best quality coarse ((F.M.≥ 2.2)) sand, 2 layer of 20 BWG galvanized/epoxy coated wire mesh having minimum yield strength fy=450 MPa & having 2 mesh per 25 mm with minimum clear cover 12 mm both top & bottom, true to desired level, placing, compacting, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge.	sqm	1473.00	1470.00	1449.00	1448.00
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
CHAPTER 24: ROAD AND PAVEMENT WORKS						
Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.1	Earth work in road embankment up to a lift of 1.5 m in all kinds of soil including cutting and throwing earth in layers not exceeding 150 mm in thickness, breaking clods up to 40 mm size in each layer, ramming, leveling and dressing as per required side slope and alignment with earth borrowed from the road side govt. acquired land for any leads and maintaining the embankment true to level and side slopes as per profiles for one year from the date of completion including making dug, bailing, profiling etc. complete and accepted by the Engineer-in-charge.					
24.1.1	For initial lift of 1.5 m	cum	202.00	198.00	184.00	184.00
24.1.2	For additional lift of 1 m beyond 1.5 m up to 2.5 m	cum	230.00	226.00	210.00	210.00
24.1.3	For additional lift of 1 m beyond 2.5 m up to 3.5 m	cum	259.00	254.00	236.00	236.00
24.1.4	For additional lift of 1 m beyond 3.5 m up to 4.5 m	cum	287.00	283.00	262.00	262.00
24.1.5	For additional lift of 1 m beyond 4.5 m up to 5.5 m	cum	316.00	310.00	287.00	287.00
24.1.6	For additional lift of 1 m beyond 5.5 m up to 6.5 m	cum	345.00	339.00	314.00	314.00
24.2	Earthwork in box cutting in all types of soil. Removing soil to a safe distance, maintaining proper alignment, camber and grade including leveling, dressing and compacting the sub grade as per drawing and accepted by the Engineer-in-charge.					
24.2.1	Depth up to 300 mm	sqm	66.00	65.00	60.00	60.00
24.2.2	Depth up to 450 mm	sqm	99.00	97.00	90.00	90.00
24.3	Creating turf on the side slopes and top of embankment with good quality turf not less than 225 mm square chunk, watering till the grass grown including all leads and lifts etc. complete and accepted by the Engineer-in-charge.	sqm	23.00	22.00	21.00	21.00
24.4	Single layer brick flat soling in road work with first class or picked jhama bricks as per alignment, camber and grade including filling joints with sand (F.M. 0.80) etc. complete including cost of all materials and accepted by the Engineer-in-charge.	sqm	671.00	668.00	639.00	639.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.5	Brick on edges pavement in herring bone bond (HBB) with first class or picked jhama bricks as per alignment, camber and grade over 12 mm thick sand cushion (F.M. 0.80) including filling the joints with the same sand including cost of all materials and accepted by the Engineer-in-charge.	sqm	1090.00	1087.00	1039.00	1039.00
24.6	Double brick flat soling in roadwork with first class or picked jhama bricks as per alignment, camber and grade including filling the joints with fine sand (F.M. 0.80) and also providing 12 mm thick sand cushion in between the two layers of brick flat soling with the same quality of sand including cost of all materials and accepted by the Engineer-in-charge.	sqm	1351.00	1345.00	1286.00	1286.00
24.7	Brick on end edging (75 mm across the road) with first class or picked jhama bricks and filling the gaps with fine sand (F.M. 0.80) including cutting trenches, true to level and grade, removing earth, refilling and ramming the sides properly including cost of all materials and accepted by the Engineer-in-charge.	meter	170.00	169.00	162.00	162.00
24.8	Breaking picked jhama, first class bricks or bats including cost of bricks and bats and stacking in measurable sizes at site accepted by the Engineer-in-charge.					
24.8.1	For 62 mm to 40 mm size	cum	5623.00	5607.00	5362.00	5362.00
24.8.2	For 40 mm to 25 mm size	cum	5861.00	5841.00	5579.00	5579.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.9.1	Labour charge for compacted water bound macadam base course (including the cost of sand) with graded material of crushed well burnt, picked jhama or first class bricks and bats having compacted thickness made as per specifications including local handling and spreading uniformly to proper grade, camber and super elevation, hand packing, watering, dry rolling followed by wet rolling in layers of specified thickness with 8 to 10 ton capacity power driven road roller to attain minimum soaked CBR 80% or design CBR at minimum degree of compaction of 98% MDD (Modified Proctor), including supplying and blinding with sand (F.M. 0.80) @ 0.012 m ³ per sqm or as required etc. all complete as per direction of the Engineer-in-charge. After adequate dry rolling, spreading of sand on the surface, sprinkling of water and rolling is to be continued until all the voids are filled. thickness of each layer should not be more than 100 mm loose and payment will be made on compacted thickness. [The rate excludes the cost of brick at the field	cum	661.00	659.00	649.00	649.00
24.9.2	Providing compacted water bound macadam base course with graded material of crushed well burnt, picked jhama or first class bricks and bats (50 mm downgraded brick chips having LAA value not exceeding 40%) including supplying of 12 mm downgraded chips made of same quality bricks, having compacted thickness made as per specifications including local handling and spreading uniformly to proper grade, camber and super elevation, hand packing watering, dry rolling followed by wet rolling in layers of specified thickness with 8 to 10 ton capacity power driven road roller to attain minimum soaked CBR of 80% or design CBR at minimum degree of compaction of 98% of MDD (Modified Proctor), including supplying and blinding with sand (F.M. 0.80) @ 0.012 m ³ per sqm or as required etc. all complete as per direction of the Engineer-in-charge. After adequate dry rolling, spreading of sand on the surface, sprinkling of water and rolling is to be continued until all the voids are filled. thickness of each layer should not the field office, including foundations, access roads, shades, layout of e	cum	7249.00	7239.00	6971.00	6971.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.10	Providing compacted sub-base course with well graded material of crushed well burnt picked jhama / 1st class brick bats and sand (FM 0.8) with mixing proportion 2 : 1 having compacted thickness made as per specification including local handling, spreading uniformly to proper grade camber and super elevation, packing, rolling properly with 8 to 10 ton capacity power driven road roller and watering properly for compaction of 100% MDD (standard) blinding with sand including cost of fuel, lubricants, spares, maintenance, driver etc. all complete and accepted by the Engineer-in-charge.	cum	6404.00	6371.00	6059.00	6059.00
24.11	50 mm thick compacted pre-mixed bituminous carpeting with 20 mm down graded stone-chips (having LAA value <= 30%, water absorption not greater than 2%, flakiness index not greater than 35) of gradation as specified @ 0.68 cum of stonechips mixed with 46 kg of heated bitumen of 60/70 penetration grade heated straight run bitumen satisfying the requirements of ASTM/AASHTO. Bitumen content % by wt. of total is 4.5% to 5.50% or as determined by job mix design. The bitumen and stone-chips shall be separately heated to a temperature of 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly over 10 sqm of surface in proper camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate steel drum roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the Engineer-in-charge. (In order to achieve the specified grading a blending of nominal maximum size of 20 mm, 12 mm crushed stone chips and stone dust is suggested and proportion will have to be determined by the laboratory analysis).	sqm	1184.00	1183.00	1156.00	1140.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.12	38 mm thick compacted pre-mixed bituminous carpeting with 20 mm down graded stone-chips (having LAA value <= 30%, water absorption not greater than 2%, flakiness index not greater than 35) of gradation as specified @ 0.63 cum of stonechips mixed with 37 kg heated bitumen of 60/70 penetration grade heated straight run bitumen satisfying the requirements of ASTM/AASHTO. Bitumen content % by wt. of total is 4.5% to 5.50% or as determined by job mix design. The bitumen and stone-chips shall be separately heated to a temperature of 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire.	sqm	955.00	954.00	934.00	921.00
	The bitumen and stone-chips mixture shall be laid uniformly over 10 sqm of surface in proper camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate steel drum roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the Engineer-in-charge. (In order to achieve the specified grading a blending of nominal maximum size of 20 mm, 12 mm crushed stone chips and stone dust is suggested and proportion will have to be determined by the laboratory analysis).					

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.13	<p>25 mm thick compacted pre-mixed bituminous carpeting with 12 mm down graded stone-chips (having LAA value $\leq 30\%$, water absorption not greater than 2%, flakiness index not greater than 35) of gradation as specified @ 0.34 cum of stone chips mixed with 23 kg heated bitumen of 60/70 penetration grade heated straight run bitumen satisfying the requirements of ASTM/AASHTO. Bitumen content % by wt. of total is 4.5% to 5.50% or as determined by job mix design. The bitumen and stone-chips shall be separately heated to a temperature of 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire.</p> <p>The bitumen and stone-chips mixture shall be laid uniformly over 10 sqm of surface in proper camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate steel drum roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage,</p> <p>labourers, tools and equipment etc. all complete as per direction of the Engineer-in-charge. (In order to achieve the specified grading a blending of nominal maximum size of 20 mm, 12 mm crushed stone chips and stone dust is suggested and proportion will have to be determined by the laboratory analysis).</p>	sqm	608.00	606.00	597.00	590.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.14	<p>38 mm thick compacted pre-mixed dense bituminous carpeting with 20 mm down graded stone-chips (having LAA value \leq 30%, water absorption not greater than 2%, flakiness index not greater than 35) of gradation as specified @ 0.56 cum of stone chips mixed with 45 kg heated bitumen of 60/70 penetration grade heated straight run bitumen satisfying the requirements of ASTM/AASHTO. Bitumen content % by wt. of total is 4.5% to 5.50% or as determined by job mix design. The bitumen and stone-chips shall be separately heated to a temperature of 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly over 10 sqm of surface in proper camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate steel drum roller (3-5 to the field office</p> <p>multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the Engineer-in-charge. (In order to achieve the specified grading a blending of nominal maximum size of 20 mm, 12 mm crushed stone chips and stone dust is suggested and proportion will have to be determined by the laboratory analysis).</p>	sqm	1046.00	1043.00	1026.00	1014.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.15	<p>25 mm thick compacted pre-mixed dense bituminous carpeting with 12 mm down graded stone-chips (having LAA value \leq 30%, water absorption not greater than 2%, flakiness index not greater than 35) of gradation as specified, @ 0.35 cum of stonechips mixed with 29.8 kg heated bitumen of 60/70 penetration grade heated straight run bitumen satisfying the requirements of ASTM/AASHTO. Bitumen content % by wt. of total is 4.5% to 5.50% or as determined by job mix design. The bitumen and stone-chips shall be separately heated to a temperature of 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly over 10 sqm of surface in proper camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate steel drum roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supply of all materials, their carriage, labourers, tools and equipments etc. all complete as per direction of the Engineer-in-charge. (In order to achieve the specified grading, a blending of nominal maximum size of 20mm, 12mm crushed stone chips and stone dust is suggested and proportion will have to be determined by the laboratory analysis).</p>	sqm	670.00	666.00	661.00	655.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.16	Providing and laying pre-mixed dense bituminous carpeting with hot mix plant using coarse aggregate, fine aggregate, filler and bituminous binder as per design Job Mix Formula conforming Marshall Method as per specification, LAA value of aggregate should be <=30%, water absorption not >2%, flakiness index not >35 mixed with 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. including screening, cleaning of chips and preparing a uniform and quality mix in hot mix plant and ensuring a homogenous mix, in which all particles of the mineral aggregates are coated uniformly, carrying the hot premixed materials by means of dump/tipper truck, spreading the mixed materials at specified laying temperature with a hydrostatic paver finisher with sensor control to the required grade, level and alignment over the prepared surface, tamping and finishing the mix at specified compacted thickness, maintaining specified camber, grade, super-elevation and cross section, through rolling with appropriate steel drum roller & pneumatic multiple tire roller (8-10 tons) to full compaction, for break down, inter - mediate and finished rolling to achieve the desired density of at least 98% of that of Laboratory Marshall specimen, hand packing and pinning to give an even surface, including cost of all materials, their carriages, hire charges of hot mix plant and all other machines, equipments for construction and quality control as per specification, fuels, lubricants and wages of operational staff etc. all complete as per the direction of the Engineer-in-charge. (Carpeting work by using asphalt plant is mandatory for all divisional headquarter & capital city)	cum	26718.00	26694.00	26371.00	26075.00
24.17	Providing tack coat @ 7.50 kg of bitumen (60/70 penetration grade) per 10 sqm including heating bitumen up to 175°C to 185°C etc. all complete (cost of bitumen included) and accepted by the Engineer-in-charge.	sqm	122.00	121.00	121.00	121.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.18.1	Providing seal coat with 4 cft of Sylhet sand (FM 2.2) mixed with @ 7.32 kg of bitumen (60/70 penetration grade) per 10 sqm of road surface including supplying and spreading of dry sand (F.M. 0.80) @ 0.09 cum per 10 sqm, including heating bitumen upto 176°C to 190°C, and spreading, rolling at a temperature not below 90°C celsius with appropriate steel drum roller (3 -5 ton) and pneumatic multiple tire roller (8-10 tons) to the desired compaction etc. all complete (cost of bitumen included) and accepted by the Engineer-in-charge.	sqm	165.00	164.00	164.00	164.00
24.18.2	Premixed bituminous seal coat with 0.12 cum of pea gravels mixed with 80 kg of bitumen (60/70 penetration grade) per cum of pea gravels and laid over 10 sqm road surface, spreading with proper camber, grade, surface blinding with dry sand (F.M.≥ 1.2) @ 0.09 cum per 10 sqm, rolling at a temperature not below 90°C with appropriate steel drum roller (3-5 ton) and pneumatic multiple tire roller (8-10 tons) to the desired compaction etc. all complete and accepted by the Engineer-in-charge.	sqm	223.00	221.00	218.00	218.00
24.19.1	Providing prime coat @ 1.2 liter/sqm with cutback bitumen to be prepared by cutting back 60/70 penetration grade bitumen in the ratio of 100 parts by volume of bitumen to 40-60 parts by volume of kerosene depending on the porosity of surface and will be decided by field trials, carefully cleaning of the surface of base material to be primed and spraying cutback bitumen at a temperature from 100 degree celcius to 120 degree celcius by appropriate hand device etc.all complete as per direction of the Engineer-in-charge.	sqm	146.00	144.00	147.00	147.00
24.19.2	Providing prime coat @1.2 liter/sqm with cutback bitumen to be prepared by cutting back 60/70 penetration grade bitumen in the ratio of 100 parts by volume of bitumen to 40-60 parts by volume of kerosene depending on the porosity of surface and will be decided by field trials, carefully cleaning of the surface of base material to be primed and spraying cutback bitumen at a temperature from 100°C to 120°C by mechanical distributor etc. all complete as per direction of the Engineer-in-charge.	sqm	147.00	146.00	148.00	148.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
24.20	Providing painting at the top of the road surface as road marking in two coats with approved best quality and colour of synthetic paint from authorized local agent of the manufacturer in a sealed container having high water resistance, high bondability & flexibility, using specific brand thinner applied by brass/ roller or others over a coat of priming, providing elapsing time for drying including surface cleaning from dust, oil or dirt, smoothening, finishing necessary tools etc. all complete & approved and accepted by the Engineer-in-charge.	sqm	373.00	370.00	351.00	351.00
24.21	Providing expansion joints across the R.C.C. road pavement with 20 mm gap between the adjacent panels. Supplying dowel bars of size 12 mm dia and 600 mm long M.S rod placed @ 750 mm c/c. 300 mm of the bar being fixed within one slab keeping remaining portion the bar free within the adjacent slab being inserted in 20 mm dia and 300 mm long P.V.C. pipe embedded in the slab, inside of pipe fully greased, filling the gap between the slabs (with admixture) of hot bitumen and coarse sand ((F.M.≥ 2.2)) in proportion of 2:1, finishing the top with bitumen, spreading coarse sand over the joint, all complete as per plan, drawing and accepted by the Engineer-in-charge.	meter	561.00	553.00	520.00	520.00
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
CHAPTER 25 : ARBORICULTURE WORKS						
Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
25.1	Labour charge for scraping lawn surface up to 38 mm depth by spade, picking up all sorts of brick bats, rubbish by suitable tools, removing the same by head load or by any other means and stacking the same to a safe distance beyond 300 m including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	sqm	12.00	12.00	11.00	11.00
25.2	Preparation of ground to make ready for plantation by spading the ground to a depth of 150 mm to 230 mm beyond 38 mm deep scrapped ground by spade, breaking earth clods to powder by hammers, picking up all sorts of rubbish, unwanted grasses by suitable tools, carrying and spreading the surplus earth into low lying area including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	sqm	24.00	23.00	21.00	21.00
25.3	Leveling and dressing of lawn area to proper slope and grade by spading the same up to 150 mm including supplying tools and plants etc. all complete and accepted by the Engineer-in-charge.	sqm	8.00	8.00	7.00	7.00
25.4	Supply of best and approved quality alluvial loamy silty soil including loading, unloading at both ends, properly stacking at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	cum	913.00	910.00	900.00	900.00
25.5	Supply well decomposed cow dung carried by trucks or any other means including loading, unloading at both ends, stacking the same at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge	cum	1703.00	1702.00	1649.00	1649.00
25.6	Labour charge for spreading the alluvial loamy silty soil from the stacks at site on the lawn surface, leveling, dressing the same including supply all necessary tools and plants etc. all complete and accepted by the Engineer-in-charge.	cum	194.00	190.00	176.00	176.00
25.7	Extra rate for lifting alluvial loamy silty soil/ decomposed cow dung work in additional floor:					

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
25.7.1	Add for each additional floor up to 5th floor	cum	155.00	152.00	141.00	141.00
25.7.2	Add for each additional floor from 6th floor to 9th floor	cum	191.00	187.00	173.00	173.00
25.7.3	Add for each additional floor for 10th floor & above	cum	238.00	234.00	217.00	217.00
25.8	Supply of lawn grass of approved quality by truck or by any other means, sorting the grass to proper size, washing the grass, dibbling the grass 6 mm to 50 mm apart, irrigation of lawn area till the grass grown at least for two months after plantation, weeding the undesirable grass, mowing the lawn grass by lawn mower up to two months after plantation, applying urea fertilizer on the lawn surface @ 1 kg per 9.29 sqm including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	sqm	67.00	66.00	62.00	62.00
25.9	Labour charge for mixing well decomposed cow dung with alluvial loamy silty soil and excavated earth, removing the excess earth to safe distance including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	cum	175.00	172.00	159.00	159.00
25.10	Supplying and providing, fitting & fixing bamboo jafry fencing by best quality muli bamboo split 20 mm in width, having 75 mm x 75 mm mesh placed horizontally and diagonally doing 25 mm framing a square shape in both ways and both sides tightened with G.I wire fitted with Borrak bamboo post of 100 mm dia and placed firmly in position at 1800 mm apart including supply of tools and plants, digging hole and filling back etc. all complete and accepted by the Engineer-in-charge.	sqm	550.00	550.00	535.00	535.00
25.11	Supplying and providing, fitting & fixing muli bamboo tree guard of 1200 mm length and 500 mm dia fixing with best quality muli bamboo split 20 mm in size having 75 mm x 75 mm a square holes with 20 mm wide bamboo splits strengthen with 4 Nos. 20 mm wide bamboo split in both sides tightened with G.I wire fitted with 3 Nos. 63 mm dia borrak bamboo post of 1800 mm long of which 600 mm will be driven into earth by digging hole followed by fill back including supply of tools and plants all complete as per direction of the Engineer-in-charge.	each	782.00	782.00	770.00	770.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
25.12	Earth work in excavation to make a pit of 600 x 600 x 450 mm (depth) for plantation, applying cow dung mixing with loamy silty soil and excavated earth, planting the plants, tightened with 1800 mm long borrak bamboo post with jute rope including supply of tools and plants all complete and accepted by the Engineer-in-charge.	each	170.00	169.00	164.00	164.00
25.13	Spading for preparation of flower beds in pits up to 600 mm depth, re-molding, picking up and placing and removing the spaded earth to a safe distance, mixing @ 1 cft well decomposed cow dung with 20% loamy silty soil and 6 cft excavated soil and fill back the pit including supply of tools and plants, all complete and accepted by the Engineer-in-charge.	sqm	567.00	562.00	534.00	534.00
25.14	Preparation of hedge beds by excavation of earth up to 300 mm depth, filling up the bed by a mixture of cow dung, loamy silty soil, cutted earth @ 1 cft cow dung manure per 6 cft of cutted earth and 20% loamy silty soil including supply of tools and plant etc. all complete and accepted by the Engineer-in-charge.	sqm	280.00	278.00	264.00	264.00
25.15	Carrying of rubbish , taking up all sorts of bricks, brick-bats and rubbish gravel chips, loading and unloading at both ends including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	cum	178.00	175.00	162.00	162.00
25.16	Supply and carrying of 12.20 m long 100 mm dia borrak bamboo at site, loading and unloading at both end, stacking the same at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	each	537.00	537.00	534.00	534.00
25.17	Supply and carrying of 7.62 m long 50 mm to 62.5 mm dia mulu bamboo at site, loading and unloading at both end, stacking the same at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.	each	284.00	283.00	281.00	281.00

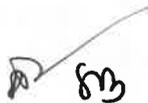
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
25.18	Supply and carrying of 4.5 h.p., 550 mm blade 4 stroke, finger trip 3 position height adjuster 200 mm x 38 mm star tread wheels grass cutting (Power Lawn Mower Machine): YARDMAN No. 060A	each	54335.00	54335.00	54335.00	54335.00
25.19	Supply and carrying of 6.5 h.p., 550 mm blade 4 stroke, finger trip 3 position height adjuster 200 mm x 38 mm star tread wheels grass cutting (Power Lawn Mower Machine): YARDMAN No. 060A	each	72447.00	72447.00	72447.00	72447.00
25.20	Supply and carrying of 22 h.p. 1150 mm cutting blade power riding lawn yardman mower machine made in USA. Model No.13 BT 793G678 or equivalent.	each	591082.00	591044.00	590890.00	590890.00
25.21	Supply and carrying of 450 mm blade Hand Lawn Moar, Model No.1403-106(USA)	each	15093.00	15093.00	15093.00	15093.00
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
CHAPTER 26 : SANITARY & WATER SUPPLY WORKS						
Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.1	Supplying, fitting and fixing of European type glazed porcelain commode "S" type 465 mm x 340 mm x 415 mm in size, approximately 14 kg by weight, plastic seat cover and preparing the base with cement concrete and with wire mesh or rods, if necessary, in all floors including making holes wherever required and mending good the damages, fitting, fixing, finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge.					
26.1.1	White	each	4642.00	4624.00	4565.00	4565.00
26.1.2	Coloured	each	4765.00	4746.00	4688.00	4688.00
26.1.3	Special colour	each	5219.00	5200.00	5142.00	5142.00
26.2	Supplying, fitting and fixing of European type glazed porcelain low-down , capacity 10 liter, 490 mm x 190 mm x 350 mm in size, approximately 14 kg of weight, on walls by screws and F.I. bar clamps, rowel plugs, making holes wherever required and mending good the damages and fitting, fixing & finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge.					
26.2.1.	White	each	2679.00	2666.00	2633.00	2633.00
26.2.2	Coloured	each	2801.00	2789.00	2755.00	2755.00
26.2.3	Special colour	each	3231.00	3219.00	3185.00	3185.00
26.3	Supplying, fitting and fixing of European type glazed porcelain combi closet, including plastic seat cover, cistern system , preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge.					
26.3.1	670 mm x 365 mm x 755 mm, 31.0 kg					
26.3.1.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	8630.00	8599.00	8522.00	8522.00
26.3.1.2	Coloured (Marble Shaded)	each	12556.00	12526.00	12449.00	12449.00
26.3.1.3	Special coloured (Deep Blue/ Ruby/ Rain Forest/ Green)	each	13170.00	13139.00	13062.00	13062.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.3.2	700 mm x 370 mm x 795 mm, 32.5kg					
26.3.2.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	10716.00	10685.00	10608.00	10608.00
26.3.2.2	Coloured (Marble Shaded)	each	14397.00	14366.00	14289.00	14289.00
26.3.2.3	Special coloured (Deep Blue/ Ruby/ Rain Forest/ Green)	each	15624.00	15593.00	15516.00	15516.00
26.3.3	700 mm x 360 mm x 785 mm, 38 kg					
26.3.3.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	13170.00	13139.00	13062.00	13062.00
26.3.3.2	Coloured (Marble Shaded)	each	19305.00	19274.00	19197.00	19197.00
26.3.3.3	Special coloured (Deep Blue/ Ruby/ Rain Forest/ Green)	each	19918.00	19888.00	19811.00	19811.00
26.3.4	Supplying, fitting and fixing of European type glazed porcelain combi closet of white or ivory color and size of approx. 340 mm x 730 mm x 785 mm, 36.75 kg of weight including plastic seat cover with soft closing, cistern system, water consumption 6 litter, siphon jet flushing system, mending good the damages and fitting, fixing, finishing etc. complete with all necessary fittings and connection approved and accepted by the Engineer- in- charge.	each	15256.00	15225.00	15148.00	15148.00
26.4	Supplying, fitting and fixing of European type glazed combi closet , 725 mm x 360 mm x 840 mm size, 42.7 kg of weight, including plastic seat cover, cistern system, preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge					
26.4.1	725 mm x 360 mm x 840 mm size, 42.7 kg					
26.4.1.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	18691.00	18661.00	18584.00	18584.00
26.4.1.2	Coloured (Marble Shaded)	each	23600.00	23569.00	23492.00	23492.00
26.4.1.3	Special coloured (Deep Blue/ Ruby/ Rain Forest/ Green)	each	25072.00	25041.00	24964.00	24964.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.4.2	Supplying, fitting and fixing of European type glazed combi closet , of white color , 370 mm x 760 mm x 800 mm size, 44.69 kg of weight, including plastic seat cover with soft closing ,cistern system, water consumption 6 litter, siphon wash down dual flashing system which reduce water consumption, hygienic glaze in toilet bowl ,glaze in inner waste line, round bowl, outlet range 305 mm , preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer Engineer- in- charge.	each	18691.00	18661.00	18584.00	18584.00
26.5	Supplying, fitting and fixing of Bangladesh pattern, long pan with foot-rest , made of vitreous China clay and preparing the base of pan with cement mortar (1:4) and with wire mesh or rods, if necessary in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge.					
26.5.1	530 mm x 430 mm x 210 mm size & 12.5 kg of weight					
26.5.1.1	White	each	2716.00	2697.00	2639.00	2639.00
26.5.1.2	Coloured	each	2777.00	2759.00	2700.00	2700.00
26.5.1.3	Special coloured	each	2838.00	2820.00	2761.00	2761.00
26.5.2	530 mm x 450 mm x 290 mm size & 14.5 kg of weight					
26.5.2.1	White	each	2838.00	2820.00	2761.00	2761.00
26.5.2.2	Coloured	each	2900.00	2881.00	2823.00	2823.00
26.5.2.3	Special coloured	each	3452.00	3433.00	3375.00	3375.00
26.6	Supplying, fitting and fixing of Bangladesh pattern long pan, made of vitreous China light color 525 mm x 295 mm x 285 mm size, 5.7kg of weight and preparing the base of pan with cement concrete and with wire mesh or rods if necessary in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge.	each	1673.00	1654.00	1596.00	1596.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.7	Supplying, fitting and fixing plastic low-down including all fittings and accessories	each	2216.00	2202.00	2160.00	2160.00
26.8	Supplying of 280 mm x 140 mm x 30 mm size glazed porcelain foot rest, 1.5 kg of weight including fitting, fixing in position with cement mortar (1:4) if necessary in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing etc. complete with all necessary fittings and connection approved and accepted by the Engineer- in-charge.	each	388.00	385.00	381.00	381.00
26.9	Supplying, fitting and fixing of white glazed vitreous W/H wash basin excluding pedestal fitting, fixing the same in position with heavy type C.I. Brackets. 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), basin waste with chain plug including making holes in walls and floors and fitting with wall, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.					
26.9.1	600 mm x 465 mm x 225 mm in size ,14kg of					
26.9.1.1	White	each	3106.00	3096.00	3060.00	3060.00
26.9.1.2	Coloured	each	3229.00	3219.00	3183.00	3183.00
26.9.1.3	Special coloured	each	3106.00	3096.00	3060.00	3060.00
29.9.2	595 mm x 430 mm x190 mm, 10kg of weight					
26.9.2.1	White	each	2492.00	2483.00	2446.00	2446.00
26.9.2.2	Coloured	each	2677.00	2667.00	2630.00	2630.00
26.9.2.3	Special coloured	each	2861.00	2851.00	2815.00	2815.00
26.9.3	510 mm x 450 mm x 203 mm, 9.5kg of weight					
26.9.3.1	White	each	2308.00	2299.00	2262.00	2262.00
26.9.3.2	Coloured	each	2492.00	2483.00	2446.00	2446.00
26.9.3.3	Special coloured	each	2799.00	2789.00	2753.00	2753.00
26.9.4	450 mm x 405 mm x180 mm, 7kg of weight					
26.9.4.1	White	each	2002.00	1992.00	1956.00	1956.00
26.9.4.2	Coloured	each	2161.00	2151.00	2115.00	2115.00
26.9.4.3	Special coloured	each	2186.00	2176.00	2140.00	2140.00
26.9.5	465 mm x 340 mm x180 mm, 6kg of weight					
26.9.5.1	White	each	2088.00	2078.00	2042.00	2042.00
26.9.5.2	Coloured	each	2247.00	2237.00	2201.00	2201.00
26.9.5.3	Special coloured	each	2370.00	2360.00	2324.00	2324.00
26.9.6	535 mm x 465 mm x 210 mm, 10.5kg of weight					
26.9.6.1	White	each	2615.00	2605.00	2569.00	2569.00
26.9.6.2	Coloured	each	2677.00	2667.00	2630.00	2630.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.9.6.3	Special coloured	each	2732.00	2722.00	2686.00	2686.00
26.9.7	White or Ivory Color, 560 mm x 410 mm x 205 mm in size, 7.90kg of weight	each	5376.00	5366.00	5330.00	5330.00
29.9.8	Cabinet Basin 500 mm x 450 mm x180 mm, 9 kg of weight					
26.9.8.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	4664.00	4655.00	4618.00	4618.00
26.9.8.2	Coloured (Marble Shade)	each	5536.00	5526.00	5489.00	5489.00
26.9.8.3	Special coloured (Deep Blue/ Ruby/ Rain Forest/ Green)	each	6511.00	6501.00	6465.00	6465.00
26.9.9	Corner Basin 440 mm x 360 mm x 195 mm, 7.0kg of weight					
26.9.9.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	2861.00	2851.00	2815.00	2815.00
26.9.9.2	Coloured (Marble Shade)	each	2983.00	2973.00	2937.00	2937.00
26.9.9.3	Special coloured (Deep Blue/ Ruby/ Rain Forest/ Green)	each	3106.00	3096.00	3060.00	3060.00
26.10	Supplying of glazed vitreous W/H wash basin including pedastal of size 660 mm x 545 mm x 850 mm, 29kg of weight including fitting, fixing the same in position with heavy type C.I. brackets, 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), 12mm plastic lead (connection) pipe with brass coupling, basin waste with chain plug including making holes in walls and floors and fitting with wooden blocks, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer- in- charge.					
26.10.1	660 x 545 x 850 mm in size , 29 kg of weight					
26.10.1.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	5990.00	5980.00	5943.00	5943.00
26.10.1.	Coloured (Marble Shaded)	each	7217.00	7207.00	7170.00	7170.00
26.10.1.	Special coloured (Deep Colour)	each	7585.00	7575.00	7539.00	7539.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.10.2	Supplying of glazed vitreous W/H wash basin including pedastal of approx. size 600 mm x 500 mm x 855 mm, 26.92 kg of weight including fitting, fixing the same in position with heavy type C.I. brackets, 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length) used hygienic glaze, 12mm plastic lead (connection) pipe with brass coupling, basin waste with chain plug including making holes in walls and floors and fitting with wooden blocks, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.	each	7585.00	7575.00	7539.00	7539.00
26.11	Supplying of white glazed vitreous W/H wash basin including pedastal and fitting, fixing the same in position with heavy type C.I. brackets, 32 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), 32 mm dia C.P. basin waste with chain plug, bracket including making holes in walls and floors and fitting with wooden blocks, screws and mending good the damages with cement mortar (1:4), etc. all complete approved and accepted by the Engineer-in-charge.					
26.11.1	665 mm x 490 mm x 840 mm in size, 29.5 kg of weight					
26.11.1.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	7241.00	7231.00	7195.00	7195.00
26.11.1.	Coloured (Marble Shade)	each	8947.00	8937.00	8901.00	8901.00
26.11.1.3	Special coloured (Deep Blue/ Ruby/ Rain Forest/ Green)	each	10161.00	10152.00	10115.00	10115.00
26.12	Supplying, fitting and fixing basin pedestal , with rowel plug and screws etc. all complete approved and accepted by the Engineer-in-charge.					
26.12.1	670 mm x 186 mm x 170 mm size					
26.12.1.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	2022.00	2016.00	2001.00	2001.00
26.12.1.	Coloured (Marble Shaded)	each	2513.00	2507.00	2491.00	2491.00
26.12.1.3	Special coloured (Deep Blue/ Ruby/ Rain Forest/ Green)	each	2820.00	2814.00	2798.00	2798.00
26.12.2	670 mm x 186 mm x 170 mm size					
26.12.2.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	2587.00	2580.00	2565.00	2565.00
26.12.2.	Coloured (Marble Shaded)	each	3261.00	3255.00	3240.00	3240.00
26.12.2.3	Special coloured (Deep Blue/ Ruby/ Rain Forest/ Green)	each	3752.00	3746.00	3731.00	3731.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.12.3	670 mm x186 mm x 170 mm size					
26.12.3.1	Light Colored (Ivory/ Alpine White/ Grey/ Pink/ Blue/ Aqua Verde)	each	2783.00	2777.00	2761.00	2761.00
26.12.3.2	Coloured (Marble Shaded)	each	3507.00	3501.00	3485.00	3485.00
26.12.3.3	Special coloured (Deep Blue/ Ruby/ Rain Forest/ Green)	each	4010.00	4004.00	3988.00	3988.00
26.13	Supplying, fitting and fixing of glazed vitreous standing bowl urinal , fitting, fixing the same in position after making holes in walls and floors, providing 32 mm dia plastic waste pipe with brass coupling up to grading below, 12 mm dia plastic connection pipe with brass coupling, 12 mm dia brass stop cock including mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in-charge.					
26.13.1	445 mm x 355 mm x 330 mm size, 11.5kg of					
26.13.1.1	Light Colored	each	2605.00	2595.00	2559.00	2559.00
26.13.1.2	Coloured	each	3047.00	3037.00	3001.00	3001.00
26.13.1.3	Special coloured (Deep Colour)	each	3341.00	3331.00	3295.00	3295.00
26.13.2	445 mm x 355 mm x 330 mm, 10kg of weight (partition Type)					
26.13.2.1	Light Colored	each	3255.00	3245.00	3209.00	3209.00
26.13.2.2	Coloured (Marble Shaded)	each	3869.00	3859.00	3823.00	3823.00
26.13.2.3	Special coloured (Deep Colour)	each	4274.00	4264.00	4228.00	4228.00
26.14	Supplying, fitting and fixing of glazed vitreous china flat or squatting urinal 510 mm x 380 mm x 85 mm in size, approx. 9.5 kg of weight with flushing inlet fitted in cement mortar (1:4) with painted cast iron body; one gallon capacity, automatic flushing cistern in each group etc. including 12 mm brass controlling valve, 32 mm dia PVC flush pipe with brass coupling, 12 mm dia plastic lead (connection) pipe including mending good the damages with 1:4 cement mortar etc. all complete approved and accepted by the Engineer- in- charge.					
26.14.1	White	each	3095.00	3082.00	3036.00	3036.00
26.14.2	Coloured	each	3217.00	3205.00	3159.00	3159.00
26.14.3	Special coloured	each	3340.00	3328.00	3282.00	3282.00









Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.15	Supplying, fitting and fixing of porcelain sink , 635 mm x 480 mm x195 mm size, 19.5 kg of weight 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, 40 mm dia PVC waste pipe with brass coupling (750 mm length) including making holes in walls and floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.					
26.15.1	White	each	3239.00	3231.00	3208.00	3208.00
26.15.2	Colored	each	3570.00	3563.00	3539.00	3539.00
26.16	Supplying, fitting and fixing of single bowl stainless steel sink with sink tray (size 450 mm x 1050 mm) with heavy type CI steel brackets, 12 mm dia C.P. bib-cock, 40 mm dia C.P. chain plug, 40 mm dia C.P. waste, 40 mm dia PVC waste pipe with brass coupling (750 mm length) including making hole in walls and floors and mending good the damages, finishing with 1:4 cement mortar etc. all complete approved and accepted by the Engineer-in-charge. (Malaysia / Singapore / Thailand made or equivalent).	each	5018.00	5011.00	4987.00	4987.00
26.17	Supplying, fitting and fixing of double bowl stainless steel sink with sink tray with heavy type CI or steel brackets, 12 mm dia C.P. chain plug, 40 mm dia C.P. waste, 40 mm dia PVC waste pipe with brass coupling (750 mm length) including making hole in walls and floors and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge. (Malaysia / Singapore / Thailand made or equivalent).	each	7606.00	7597.00	7567.00	7567.00
26.18	Supplying, fitting and fixing of 450 mm x 600 mm size and 5 mm thick unframed super quality mirror with hard boards at the back with all necessary fitting including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge. (Made in Japan or equivalent).	each	963.00	958.00	948.00	948.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.19	Supplying, fitting and fixing of 450 mm x 350 mm size and 5 mm thick unframed super quality mirror with hard boards at the back with all necessary fitting including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge (Made in Japan or equivalent).	each	779.00	774.00	758.00	758.00
26.20	Supplying, fitting and fixing of super quality 600 mm x 125 mm coloured glass (plate) shelf having 5 mm thickness with fancy C.P. brackets, screws and frames including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	1523.00	1518.00	1501.00	1501.00
26.21	Supplying, fitting and fixing of super quality 600 x 125 mm white glass (plate) shelf having 5 mm thickness with fancy C.P. brackets, screws and frames including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	1093.00	1088.00	1072.00	1072.00
26.22	Supplying, fitting and fixing of super quality C.P. towel rail of 600 mm long and 20 mm in dia with C.P. holder including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	852.00	848.00	836.00	836.00
26.23	Supplying, fitting and fixing of medium quality C.P. towel rail of 600 mm long and 20 mm in dia with C.P. holder including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	725.00	720.00	710.00	710.00
26.24	Supplying, fitting and fixing of standard porcelain toilet paper holder of 150 mm x 150 mm x 126 mm size including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.					
26.24.1	Light Colored	each	748.00	746.00	742.00	742.00
26.24.2	Colored	each	809.00	808.00	804.00	804.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.25	Supplying, fitting and fixing of special toilet paper holder with cover of size (150 mm x 150 mm x 126 mm) including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.					
26.25.1	white (porcelain)	each	870.00	869.00	865.00	865.00
26.25.2	colored (porcelain)	each	932.00	930.00	926.00	926.00
26.25.3	Standard size stainless steel bracket and holder rod with cover.	each	630.00	628.00	622.00	622.00
26.25.4	Standard size, C.P iron bracket with plastic holder rod.	each	440.00	437.00	432.00	432.00
26.26	Supplying, fitting and fixing of standard size soap tray including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.					
26.26.1	C.P. soap tray	each	262.00	261.00	257.00	257.00
26.26.2	Porcelain soap tray (white)	each	385.00	383.00	380.00	380.00
26.26.3	Porcelain soap tray (coloured)	each	446.00	445.00	441.00	441.00
26.26.4	Stainless steel soap tray	each	323.00	322.00	319.00	319.00
26.27	Supplying, fitting and fixing of Automatic liquid soap dispenser to hold and dispense up to min 600 ml of liquid and lotion soaps, synthetic detergents and antibacterial soaps. Dispenser shall be powered by batteries and shall operate automatically from IR sensor that shall activate soap dispensing when hands are placed in sensor zone. Sensor detection range shall be adjustable by owner. Dispenser shall pump a drop volume of 0.8 ml to 1.0 ml of soap during each activation. A tamper resistant soap level-viewing window shall be provided. Unit shall have a swing open body secured with side-mounted lock that is opened with special key provided, all complete and accepted by the Engineer- in- charge.					
26.27.1.	Surface mounted automatic liquid soap dispenser	each	7646.00	7629.00	7577.00	7577.00
26.27.2	Wall-mounted automatic liquid soap dispenser	each	8382.00	8365.00	8313.00	8313.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.27.3	Supplying, fitting and fixing of Liquid soap dispenser (push-up type) to dispense 16 oz (.47 liters) of soap, detergent or lotion. Unit shall be fabricated of tamper resistant, chrome plated plastic, a translucent white polyethylene soap container, and a corrosion resistant dispensing valve which can provide no more than 5 lbs (22.2 Newtons) pressure and unit can be reloaded by unscrewing base from bracket collar, inverting unit, and unscrewing soap container in which soap will continue to feed properly until empty with a continuously visible soap level etc. all complete approved and accepted by the Engineer- in-charge.	each	1449.00	1433.00	1380.00	1380.00
26.28	Supplying, fitting and fixing of Stainless steel floor grating of following type					
26.28.1	Supplying, fitting and fixing of 125 mm dia stainless steel floor grating in traps or in drains including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	364.00	360.00	354.00	354.00
26.28.2	Supplying, fitting and fixing of 150 mm X 150 mm stainless steel floor grating in traps or in drains including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	1091.00	1087.00	1079.00	1079.00
26.28.3	Supplying, fitting and fixing of 75 mm X 75 mm stainless steel floor grating in traps or in drains including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	428.00	425.00	416.00	416.00
26.28.4	Supplying, fitting and fixing of 62 mm dia stainless steel floor grating in traps or in drains including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	216.00	214.00	210.00	210.00
26.29	Supplying, fitting and fixing of plastic grating with hinged cover size 150 x 150 mm in traps or in drains including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	287.00	284.00	275.00	275.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
	RAIN WATER DOWN, SOIL WASTE AND VENTILATION PIPES					
26.30	Supplying, fitting and fixing of 125 mm dia convex cast iron grating on rain water down pipe (roof top) mending good the damages with cement mortar (1:4) etc., all complete approved and accepted by the Engineer- in- charge.	each	520.00	518.00	514.00	514.00
26.31	Supplying, fitting and fixing of 100 mm inside diameter & wall thickness 2.7 mm - 3.4 mm best quality uPVC rain water down pipe fitting, fixed in position with head and shoes, bends, min.20 mm width F.I. Bar clamp and nails, and including all accessories such as round grating/domed roof grating, bands, sockets approved and accepted by the Engineer- in- charge.	meter	993.00	988.00	970.00	970.00
26.32	Supplying, laying, fitting and fixing of best quality HDPE soil, waste and ventilation pipe having PE-100 (Hydrostatic Strength for PE-100 is 5.0 MPa & 12.4 MPa at 80°C & 20°C respectively according to ISO 4427:2007(E)), PN-6 (nominal pressure for PN 6 is 0.6 MPa according to ISO 4427:2007(E)) & SDR 26 for soil, waste and ventilation pressure pipe having density 0.940 – 0.970 gm/cm ³ and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM/BS/ISO/IS standards ,fitted and fixed in position with necessary joints and fittings with all accesories complete approved and accepted by the Engineer- in- charge.					
26.32.1	For underground including earth cutting & preperation of bed					
26.32.1.1	HDPE pipe of 110 mm outside dia with wall thickness 4.2 mm - 4.8 mm	meter	1530.00	1527.00	1503.00	1503.00
26.32.1.2	HDPE pipe of 160 mm outside dia with wall thickness 6.2 mm - 7.0 mm	meter	2400.00	2394.00	2366.00	2366.00
26.32.1.3	HDPE pipe of 200 mm outside dia with wall thickness 7.7 mm - 8.6 mm	meter	3977.00	3971.00	3940.00	3940.00
26.32.1.4	HDPE pipe of 250 mm outside dia with wall thickness 9.6 mm -10.7 mm	meter	6089.00	6071.00	5997.00	5997.00
26.32.1.5	HDPE pipe of 280 mm outside dia with wall thickness 10.7 mm -11.9 mm	meter	7916.00	7898.00	7824.00	7824.00
26.32.1.6	HDPE pipe of 315 mm outside dia with wall thickness 12.1 mm -13.5 mm	meter	9695.00	9677.00	9604.00	9604.00
26.32.1.7	HDPE pipe of 400 mm outside dia with wall thickness 15.3 mm -17.0 mm	meter	15425.00	15407.00	15325.00	15325.00

Item No	Description of Item	Unit	Rate in Railway Division-2023			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.32.1.8	HDPE pipe of 630 mm outside dia with wall thickness 24.2 mm - 26.7 mm	meter	35800.00	35777.00	35671.00	35671.00
26.32.1.9	HDPE pipe of 710 mm outside dia with wall thickness 27.2 mm - 30.1 mm	meter	46051.00	46028.00	45921.00	45921.00
26.32.1.10	HDPE pipe of 900 mm outside dia with wall thickness 34.4 mm - 38.3 mm	meter	68585.00	68562.00	68455.00	68455.00
26.32.2	For In house system					
26.32.2.1	HDPE pipe 110 mm outside dia with wall thickness 4.2 mm - 4.8 mm	meter	2013.00	2009.00	1995.00	1995.00
26.32.2.2	HDPE pipe 160 mm outside dia with wall thickness 6.2 mm - 7.0 mm	meter	3276.00	3270.00	3251.00	3251.00
26.32.2.3	HDPE pipe 200 mm outside dia with wall thickness 7.7 mm - 8.6 mm	meter	5230.00	5224.00	5205.00	5205.00
26.32.2.4	HDPE pipe 250 mm outside dia with wall thickness 9.6 mm - 10.7 mm	meter	8191.00	8185.00	8166.00	8166.00
26.33	Supplying 50 mm inside dia best quality uPVC soil, waste and ventilation pipe having specific gravity 1.35 - 1.45, wall thickness 2.5 mm - 3.0 mm and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, of uPVC Pipe with all accessories such as Round grating /domed roof grating bands sockets etc. approved and accepted by the Engineer- in- charge.	meter	564.00	559.00	541.00	541.00
26.34	Supplying 100 mm inside dia best quality uPVC waste and ventilation pipe having specific gravity 1.35-1.45, wall thickness 3.4- 4.0 mm, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets bends, with all accessories such as round grating/domed roof grating bands, sockets etc. approved and accepted by the Engineer- in- charge.	meter	881.00	877.00	864.00	864.00
26.35	Supplying 150 mm inside dia best quality uPVC soil, waste and ventilation pipe having specific gravity 1.35 - 1.45, wall thickness 4.5 mm - 5.2 mm and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, with all accessories such as Round grating/domed roof grating bands, sockets etc. approved and accepted by the Engineer- in- charge.	meter	1599.00	1593.00	1574.00	1574.00
26.36	Supplying, fitting and fixing of G.I. pipe with all special fittings, such as bends, elbows sockets, reducing sockets, Tee, unions, jam-nuts etc. including cutting trenches where necessary and filling the same with earth duly rammed and fixing in walls with holder bats and making hole in floors, walls and consequent mending good the damages etc. all complete in all respects approved and accepted by the Engineer- in- charge.					

Item No.	Description of Item	Unit	Rate in Railway Division-2023			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.36.1	12.5 mm dia G.I. pipe with wall thickness 2.65 mm, outside diameter min 17.8 mm, weight 1.31 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	441.00	439.00	432.00	432.00
26.36.2	20 mm dia G.I. pipe with wall thickness 2.65 mm, outside diameter min 25.3 mm, weight 1.7 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	549.00	547.00	540.00	540.00
26.36.3	25 mm dia G.I. pipe with wall thickness 3.35 mm, outside diameter min 31.7 mm, weight 2.59 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	700.00	698.00	692.00	692.00
26.36.4	32 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 38.5 mm, weight 3.33 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	884.00	881.00	873.00	873.00
26.36.5	40 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 46.5 mm, weight 3.83 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	1146.00	1142.00	1130.00	1130.00
26.36.6	50 mm dia G.I. pipe with wall thickness 3.65 mm, outside diameter min 57.3 mm, weight 5.38 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	1504.00	1498.00	1479.00	1479.00
26.36.7	62-65 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 71.5 mm, weight 6.15 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	2396.00	2386.00	2356.00	2356.00
26.36.8	75 -80 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 86.5 mm, weight 7.22 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	2607.00	2597.00	2565.00	2565.00
26.36.9	100 mm dia G.I. pipe with wall thickness 3.65 mm, outside diameter min 107.3 mm, weight 10.42 kg/m, can withstand min 50 kg/cm ² hydraulic pressure.	meter	3721.00	3709.00	3671.00	3671.00
26.37	Supplying different inside dia best quality uPVC pressure pipe for water supply having specific gravity 1.35 - 1.45, and other physical chemical, thermal, fire resistivity properties etc. as per BSI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in position with sockets, bends, with all accessories such as Round grating/domed roof grating, bends, sockets etc approved and accepted by the Engineer-in-charge.					
26.37.1	12 mm dia wall thickness 1.7 mm - 2.8 mm	meter	168.00	166.00	159.00	159.00
26.37.2	19 mm dia wall thickness 1.9 mm - 2.9 mm	meter	216.00	214.00	207.00	207.00
26.37.3	25 mm dia wall thickness 2.2 mm - 3.4 mm	meter	279.00	276.00	266.00	266.00
26.37.4	32 mm dia wall thickness 2.7 mm - 3.6 mm	meter	285.00	283.00	277.00	277.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.37.5	37 mm dia wall thickness 2.5 mm - 3.1 mm	meter	299.00	297.00	291.00	291.00
26.37.6	60 mm dia wall thickness 3.0 mm - 3.9 mm	meter	571.00	568.00	559.00	559.00
26.37.7	75 mm dia wall thickness 2.9 mm - 3.5 mm	meter	638.00	636.00	626.00	626.00
26.37.8	88 mm dia wall thickness 3.5 mm - 4.1 mm	meter	734.00	732.00	721.00	721.00
26.37.9	114 mm dia wall thickness 4.5 mm - 5.2 mm	meter	899.00	897.00	886.00	886.00
26.38	Supplying different inside dia best quality CPVC pressure pipe for water supply having specific gravity 1.35 - 1.45, and other physical, chemical, thermal, fire resistivity properties etc. as per BSI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, with all accessories such as round grating/domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge (length: 6000 mm each).					
26.38.1	12 mm dia wall thickness 2.8 mm - 3.3 mm	meter	266.00	264.00	257.00	257.00
26.38.2	19 mm dia wall thickness 2.9 mm - 3.4 mm	meter	387.00	385.00	378.00	378.00
26.38.3	25 mm dia wall thickness 3.4 mm - 4.0 mm	meter	454.00	451.00	441.00	441.00
26.38.4	32 mm dia wall thickness 3.6 mm - 4.2 mm	meter	625.00	623.00	617.00	617.00
26.38.5	37 mm dia wall thickness 3.7 mm - 4.3 mm	meter	868.00	866.00	860.00	860.00
26.38.6	50 mm dia wall thickness 3.9 mm - 4.5 mm	meter	1485.00	1482.00	1473.00	1473.00
26.39	Supplying, fitting and fixing of PP-R Pipe meeting the performance & long-tem strength requirements as per DIN 8077 /78 or ASTM F 2983 including nipple, elbow, reducers, Tee, end cap, plug, socket etc as per manufacturer instruction. all complete accepted by the Engineer- in- charge.					
26.39.1	12 mm dia, minimum wall thickness 2.8 mm, sustaining minimum water pressure PN 16, standard dimension ratio (SDR) 7.4	meter	323.00	320.00	307.00	307.00
26.39.2	19 mm dia, minimum wall thickness 3.5 mm, sustaining minimum water pressure PN 16, standard dimension ratio (SDR) 7.4	meter	363.00	357.00	343.00	343.00
26.39.3	25 mm dia, minimum wall thickness 4.4 mm, sustaining minimum water pressure PN 16, standard dimension ratio (SDR) 7.4	meter	424.00	418.00	405.00	405.00
26.39.4	32 mm dia, minimum wall thickness 5.5 mm, sustaining minimum water pressure PN 16, standard dimension ratio (SDR) 7.4	meter	538.00	524.00	510.00	510.00
26.39.5	38 mm dia, minimum wall thickness 6.9 mm, sustaining minimum water pressure PN 16, standard dimension ratio (SDR) 7.4	meter	660.00	623.00	609.00	609.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.39.6	50 mm dia, minimum wall thickness 8.6 mm, sustaining minimum water pressure PN 16, standard dimension ratio (SDR) 7.4	meter	889.00	863.00	850.00	850.00
26.40	Supplying, fitting and fixing of PP-R Union meeting the performance & long-term strength requirements of ASTM F 2389 in accordance with the manufacturer's specifications all complete accepted by the Engineer- in- charge.					
26.40.1	12 mm PP-R Union	each	318.00	258.00	251.00	251.00
26.40.2	19 mm PP-R Union	each	363.00	281.00	273.00	273.00
26.40.3	25 mm PP-R Union	each	408.00	358.00	348.00	348.00
26.40.4	32 mm PP-R Union	each	643.00	515.00	504.00	504.00
26.40.5	37 mm PP-R Union	each	1040.00	735.00	717.00	717.00
26.40.6	50 mm PP-R Union	each	1189.00	836.00	820.00	820.00
26.41	Supplying, fitting and fixing of PP-R Gate-Valve meeting the performance & long-term strength requirements of ASTM F 2389 in accordance with the manufacturer's specifications all complete accepted by the Engineer- in- charge.					
26.41.1	12 mm PP-R Gate-Valve	each	418.00	494.00	486.00	486.00
26.41.2	19 mm PP-R Gate-Valve	each	547.00	640.00	632.00	632.00
26.41.3	25 mm PP-R Gate-Valve	each	596.00	731.00	723.00	723.00
26.41.4	32 mm PP-R Gate-Valve	each	964.00	832.00	824.00	824.00
26.41.5	37 mm PP-R Gate-Valve	each	1026.00	936.00	928.00	928.00
26.41.6	50 mm PP-R Gate-Valve	each	1271.00	1374.00	1366.00	1366.00
26.42	Supplying, fitting and laying up to depth of invert 100 mm inside dia best quality uPVC pressure soil pipe having specific gravity 1.3 -1.45, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in position with sockets, bends, with all accessories such as Round grating/domed roof grating etc. complete approved and accepted by the Engineer- in- charge.					
26.42.1	uPVC soil pipe of 100 mm dia and wall thickness 2.7 mm - 3.4 mm,	meter	775.00	772.00	758.00	758.00
26.42.2	uPVC soil pipe of 150 mm dia and wall thickness 4.5 mm - 6.6 mm	meter	1339.00	1336.00	1320.00	1320.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.43	Supplying, fitting and laying of Pipes up to depth of invert dia R.C.C pipe having 1.83 meter in length made of stone chips with 40 mm cement joint including all fittings and specials like plain bend, Tees, reducing sockets, junctions, door bends cowls, anti-siphon, gasket and cement joints, making holes in walls and mending good the damages etc. all complete approved and accepted by the Engineer- in- charge.					
26.43.1	R.C.C pipe of 150 mm dia with thickness 40mm	meter	1105.00	1101.00	1084.00	1084.00
26.43.2	R.C.C pipe of 225 mm dia with thickness 40mm	meter	1749.00	1743.00	1714.00	1714.00
26.43.3	R.C.C pipe of 300 mm dia with thickness 50mm	meter	2867.00	2858.00	2817.00	2817.00
26.43.4	R.C.C pipe of 375 mm dia with thickness 50mm	meter	3635.00	3623.00	3576.00	3576.00
26.44	Supplying of 100 mm dia with wall thickness 2.7 mm - 3.4 mm uPVC pipe for waste including fitting, fixing etc. all complete approved and accepted by the Engineer- in- charge.		733.00	730.00	721.00	721.00
26.45	Supplying and laying uPVC pipe for for underground including fitting, fixing etc. all complete approved and accepted by the Engineer- in- charge.					
26.45.1	150 mm dia with wall thickness 4.5 mm - 6.6 mm uPVC pipe	meter	1433.00	1430.00	1412.00	1412.00
26.45.2	200 mm dia with wall thickness 5.3 mm - 7.8 mm uPVC pipe	meter	2135.00	2133.00	2109.00	2109.00
26.45.3	250 mm dia with wall thickness 6.6 mm - 7.6 mm uPVC pipe	meter	3101.00	3098.00	3077.00	3077.00
26.45.4	280 mm dia with wall thickness 6.9 mm - 8.6 mm uPVC pipe	meter	3466.00	3463.00	3437.00	3437.00
26.45.5	315 mm dia with wall thickness 7.8 mm - 9.0 mm uPVC pipe	meter	4356.00	4352.00	4327.00	4327.00
26.46	Supplying, fitting and fixing of G.I. Union with sealant etc. complete in all respects approved and accepted by the Engineer- in- charge.					
26.46.1	12 mm dia G.I. Union	each	177.00	174.00	168.00	168.00
26.46.2	20 mm dia G.I. Union	each	228.00	225.00	217.00	217.00
26.46.3	25 mm dia G.I. Union	each	274.00	271.00	262.00	262.00
26.46.4	32 mm dia G.I. Union	each	352.00	349.00	337.00	337.00
26.46.5	40 mm dia G.I. Union	each	491.00	485.00	468.00	468.00
26.46.6	50 mm dia G.I. Union	each	526.00	521.00	505.00	505.00
26.46.7	62 mm dia G.I. Union	each	865.00	860.00	841.00	841.00
26.46.8	75 mm dia G.I. Union	each	1157.00	1151.00	1128.00	1128.00
26.46.9	100 mm dia G.I. Union	each	1570.00	1563.00	1537.00	1537.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.47	Supplying, fitting and fixing of best quality G.I. gate valve with sealant etc. complete approved and accepted by the Engineer- in- charge.					
26.47.1	12 mm brass gate valve	each	459.00	456.00	450.00	450.00
26.47.2	20 mm brass gate valve	each	633.00	630.00	622.00	622.00
26.47.3	25 mm brass gate valve	each	746.00	743.00	734.00	734.00
26.47.4	32 mm brass gate valve	each	1046.00	1042.00	1031.00	1031.00
26.47.5	40 mm brass gate valve	each	1221.00	1216.00	1198.00	1198.00
26.47.6	50 mm brass gate valve	each	1875.00	1871.00	1854.00	1854.00
26.47.7	62 mm brass gate valve	each	3785.00	3780.00	3761.00	3761.00
26.47.8	75 mm brass gate valve	each	5139.00	5132.00	5110.00	5110.00
26.47.9	100 mm brass gate valve	each	8085.00	8078.00	8053.00	8053.00
26.48	Supplying, fitting and fixing of best quality G.I. globe valve , threaded joint with sealant etc. complete approved and accepted by the Engineer- in- charge.					
26.48.1	12 mm dia brass globe valve	each	508.00	506.00	499.00	499.00
26.48.2	20 mm dia brass globe valve	each	590.00	587.00	579.00	579.00
26.48.3	25 mm dia brass globe valve	each	851.00	848.00	839.00	839.00
26.48.4	32 mm dia brass globe valve	each	1169.00	1165.00	1153.00	1153.00
26.48.5	40 mm dia brass globe valve	each	1399.00	1393.00	1376.00	1376.00
26.48.6	50 mm dia brass globe valve	each	2133.00	2128.00	2112.00	2112.00
26.48.7	62 mm dia brass globe valve	each	4460.00	4455.00	4436.00	4436.00
26.48.8	75 mm dia brass globe valve	each	5667.00	5660.00	5638.00	5638.00
26.48.9	100 mm dia brass globe valve	each	8944.00	8937.00	8912.00	8912.00
26.49	Supplying, fitting and fixing of best quality G.I. check valve , threaded joint with sealant etc. complete approved and accepted by the Engineer- in- charge.					
26.49.1	12 mm brass check valve	each	465.00	463.00	456.00	456.00
26.49.2	20 mm brass check valve	each	559.00	556.00	549.00	549.00
26.49.3	25 mm brass check valve	each	759.00	756.00	746.00	746.00
26.49.4	32 mm brass check valve	each	1009.00	1005.00	994.00	994.00
26.49.5	40 mm brass check valve	each	1270.00	1265.00	1247.00	1247.00
26.49.6	50 mm brass check valve	each	1857.00	1852.00	1836.00	1836.00
26.49.7	62 mm brass check valve	each	3184.00	3179.00	3160.00	3160.00
26.49.8	75 mm brass check valve	each	4329.00	4322.00	4300.00	4300.00
26.49.9	100 mm brass check valve	each	7104.00	7096.00	7071.00	7071.00
26.50	Supplying, fitting and fixing of best quality G.I. float valve , threaded joint Pit valve etc. complete approved and accepted by the Engineer- in- charge.					

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.50.1	12 mm brass float valve	each	423.00	420.00	414.00	414.00
26.50.2	20 mm brass float valve	each	560.00	558.00	550.00	550.00
26.50.3	25 mm brass float valve	each	626.00	623.00	614.00	614.00
26.50.4	32 mm brass float valve	each	1024.00	1020.00	1009.00	1009.00
26.50.5	40 mm brass float valve	each	1316.00	1311.00	1293.00	1293.00
26.51	Supplying different inside dia best quality uPVC clean out / trap having specific gravity 1.35 -1.45 and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards, fitting and fixing in position etc. complete approved and accepted by the Engineer- in- charge.					
26.51.1	50 mm dia uPVC Y or T - Y Cleanout	each	354.00	351.00	343.00	343.00
26.51.2	100 mm dia uPVC 'P' or 'S' trap	each	693.00	690.00	677.00	677.00
26.51.3	100 mm dia uPVC Y or T - Y Cleanout	each	671.00	667.00	653.00	653.00
26.51.4	50 mm dia uPVC Y or T - Y Cleanout	each	440.00	437.00	429.00	429.00
26.52	Supplying, fitting and fixing of best quality faucets etc. complete approved and accepted by the Engineer- in- charge.					
26.52.1	12 mm CP bib cock	each	681.00	678.00	670.00	670.00
26.52.2	12 mm special quality CP bib cock	each	1110.00	1108.00	1100.00	1100.00
26.52.3	12 mm plastic bib cock with internal brass thread	each	276.00	275.00	271.00	271.00
26.53	Supplying, fitting and fixing of best quality CP pillar cock etc. complete approved and accepted by the Engineer- in- charge.					
26.53.1	12 mm CP medium quality pillar cock	each	1172.00	1169.00	1161.00	1161.00
26.53.2	12 mm CP special heavy duty pillar cock	each	1294.00	1292.00	1284.00	1284.00
26.54	Supplying, fitting and fixing of best quality CP self closing pillar cock (Sensor Type) with necessary hardware etc. complete approved and accepted by the Engineer- in- charge.					
26.54.1	Standard CP self closing pillar cock (without mixture)	each	5715.00	5711.00	5698.00	5698.00
26.54.2	Exclusive CP self closing pillar cock (without mixture)	each	16758.00	16754.00	16742.00	16742.00
26.54.3	Standard CP self closing pillar cock (with mixture)	each	8169.00	8165.00	8152.00	8152.00
26.54.4	Exclusive CP self closing pillar cock (with mixture)	each	22893.00	22889.00	22877.00	22877.00
26.55	Supplying, fitting and fixing of CP Self closing pillar cock (push type) with all necessary hardware and consumables approved and accepted by the Engineer- in- charge.	each	1444.00	1441.00	1428.00	1428.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.56	Supplying, fitting and fixing of best quality concealed fixed sink cock etc. complete approved and accepted by the Engineer-in-charge.					
26.56.1	12 mm CP concealed fixed cock	each	1202.00	1200.00	1192.00	1192.00
26.56.2	12 mm CP concealed moving cock	each	1571.00	1568.00	1558.00	1558.00
26.57	Supplying, fitting and fixing of CP basin mixture with all necessary hardware and consumables approved and accepted by the Engineer.of following type					
26.57.1	CP basin mixture	each	2701.00	2695.00	2675.00	2675.00
26.57.2	CP single handle basin mixture	each	3813.00	3807.00	3786.00	3786.00
26.58	Supplying, fitting and fixing of CP shower mixture including shower head only with all necessary hardware and consumables approved and accepted by the Engineer- in- charge.	each	4767.00	4758.00	4727.00	4727.00
26.59	Supplying, fitting and fixing of CP shower mixture including shower head and faucet with all necessary hardware and consumables approved and accepted by the Engineer- in- charge.	each	5810.00	5801.00	5770.00	5770.00
26.60	Supplying, fitting and fixing of CP bath tub mixture with shower head only including all necessary hardware and consumables approved and accepted by the Engineer- in- charge.	each	5258.00	5249.00	5218.00	5218.00
26.61	Supplying, fitting and fixing of stop cock with all necessary hardware and consumables approved and accepted by the Engineer- in- charge.					
26.61.1	12 mm brass stop cock for surface mount (general quality)	each	453.00	452.00	448.00	448.00
26.61.2	12 mm CP stop cock for surface mount (medium quality)	each	441.00	440.00	435.00	435.00
26.61.3	12 mm CP stop cock for surface mount (special type)	each	1066.00	1065.00	1061.00	1061.00
26.61.4	Stop cock concealed (medium)	each	1300.00	1298.00	1294.00	1294.00
26.61.5	Stop cock concealed (heavy)	each	1361.00	1360.00	1356.00	1356.00
26.63	Supplying, fitting and fixing of angle stop cock etc. complete approved and accepted by the Engineer-in- charge.					
26.63.1	12 mm CP surface mounted angle stop cock (Heavy Type)	each	809.00	808.00	804.00	804.00
26.63.2	12 mm CP medium quality surface & Standard angle stop cock	each	932.00	930.00	926.00	926.00
26.63.3	12 mm surface special heavy type angle stop cock	each	956.00	955.00	951.00	951.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.63.4	12 mm CP concealed mount angle stop cock	each	932.00	930.00	926.00	926.00
26.63.5	Medium concealed angle stop cock	each	993.00	992.00	988.00	988.00
26.63.6	Special concealed heavy type angle stop cock	each	1238.00	1237.00	1233.00	1233.00
26.64	Groove cutting in brick work and R.C.C work, including cost for concealing of G.I. pipe work (12 mm and 20 mm dia) in brick wall by cutting groove in wall, lintel, beam etc. by any means carefully without damaging the structure and filling the grooves with C.C (4:2:1) after laying of pipe including cost of scaffolding, finishing, curing etc. all complete approved and accepted by the Engineer- in- charge.					
26.64.1	Groove size 40 mm x 40 mm (For laying 12 mm to 20 mm dia pipes)	meter	102.00	100.00	94.00	94.00
26.64.2	Groove size 75 mm x 75 mm (For 25 mm to 40 mm dia pipes)	meter	154.00	151.00	141.00	141.00
26.65	Supplying and fitting-fixing cleansing shower for ablution including holder etc. all complete approved and accepted by the Engineer- in- charge.					
26.65.1	Fixed type 100 mm CP shower rose	each	786.00	783.00	775.00	775.00
26.65.2	Moving type 100 mm CP shower rose	each	1607.00	1599.00	1574.00	1574.00
26.66	Supplying and fitting-fixing hand / push shower for ablution including holder etc. all complete approved and accepted by the Engineer- in- charge.					
26.66.1	Moving type hand shower	each	1448.00	1445.00	1435.00	1435.00
26.66.2	Moving type push shower	each	957.00	954.00	944.00	944.00
26.67	Supplying, fitting and fixing of food graded plastic overhead water reservoir tank including all necessary fittings, hardware and consumables etc. all complete approved and accepted by the Engineer- in- charge.					
26.67.1	1000 liter capacity	each	12284.00	12235.00	12039.00	12039.00
26.67.2	1500 liter capacity	each	16932.00	16879.00	16671.00	16671.00
26.67.3	2000 liter capacity	each	22254.00	22186.00	21916.00	21916.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.68	Supply and installation of food-graded plastic internal mini water tank for the use in kitchen, bathroom and toilet for emergency storage and supply of water manufactured from liner low density polyethylene (ILDPE) roto-grade (ultra violet) stabilized which complies FDA (Federal Department of Agriculture, USA) regulations 21 CFR 1277. 152, having food grade quality where no recycled material is used carrying, lifting, fitting, fixing in position including supply of necessary hardware, consumables, fittings etc. all complete approved and accepted by the Engineer- in-charge.					
26.68.1	150 liter capacity	each	4278.00	4260.00	4186.00	4186.00
26.68.2	300 liter capacity	each	5980.00	5959.00	5873.00	5873.00
26.68.3	500 liter capacity	each	7718.00	7670.00	7480.00	7480.00
26.69	Supply and installation of foreign made food graded stainless steel water tank including supply of hardware, consumables, fittings etc. all complete approved and accepted by the Engineer-in- Charge.					
26.69.1	500 liter capacity	each	13562.00	13510.00	13347.00	13347.00
26.69.2	1000 liter capacity	each	23439.00	23369.00	23148.00	23148.00
26.69.3	2000 liter capacity	each	38394.00	38308.00	38026.00	38026.00
26.69.4	4000 liter capacity	each	74867.00	74763.00	74407.00	74407.00
26.69.5	6000 liter capacity	each	81186.00	81070.00	80665.00	80665.00
26.70	Supply and installation of 400 gallon capacity ferro-cement water tank including necessary hardware, fittings and consumables etc. all complete approved and accepted by the Engineer-	each	9509.00	9497.00	9448.00	9448.00
26.71	Supplying, fitting and fixing of 12 mm dia, 450 mm long plastic flexible lead (connection) pipe approved and accepted by the Engineer- in-	each	73.00	73.00	72.00	72.00
26.72	Supplying, fitting and fixing of 12 mm dia, 600 mm long plastic flexible lead (connection) pipe approved and accepted by the Engineer- in-	each	124.00	124.00	120.00	120.00
26.73	Supplying, fitting and fixing of 12 mm dia 450 mm long metal cover connection pipe approved and accepted by the Engineer- in- charge.	each	188.00	187.00	184.00	184.00
26.74	Supplying, fitting and fixing of 12 mm dia 600 mm long metal cover connection pipe approved and accepted by the Engineer- in- charge.	each	222.00	222.00	218.00	218.00
26.75	Supply, fitting & fixing of 600 mm dia C.I. man hole cover etc. all complete approved by the Engineer- in- charge.	each	1880.00	1879.00	1871.00	1871.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.76	Supply, installation, testing and commissioning of auto control booster pump system to maintain a pressure 0.8~2.2 bar in the water pipe line in the top floor(s). The booster pump system consists of the following components - (i) Single phase pump motor - 01 no. HP 0.5~1.0, IP : 65, RPM : 2900 (ii) Easy press switch : a device which control the pressure etc. all complete approved by the Engineer- in- charge.					
26.76.1	Made in or assembled in Bangladesh	each	11105.00	11068.00	10982.00	10982.00
26.76.2	Made in Italy/ Spain/ India etc.	each	22516.00	22479.00	22393.00	22393.00
26.77	Supply, fitting and fixing of Water pressure reducing valve to reduce static and flowing pressures in water distribution systems and it shall be a diaphragm/balanced piston type with integral stainless steel strainer and a built-in bypass to relieve pressure build-up downstream of the assembly. The valve shall be spring loaded to open and shall be diaphragm actuated to close under pressure conditions. The valve shall be suitable for supply pressure up to 400 psi and water temperatures from 33° to 180°F. The valve's internal parts such as the cartridge assembly, strainer, diaphragm, and spring shall be accessible for inspection, repair or replacement without disconnecting the device from the pipeline. In addition, the valve shall have a clean-out feature to allow for removal of the strainer and seat disc without disturbing the pressure setting etc. all complete accepted by the Engineer- in- charge.					
26.77.1	12 mm dia water pressure reducing valve	each	2485.00	2482.00	2475.00	2475.00
26.77.2	19 mm dia water pressure reducing valve	each	3291.00	3289.00	3281.00	3281.00
26.77.3	25 mm dia water pressure reducing valve	each	4109.00	4107.00	4099.00	4099.00
26.77.4	32 mm dia water pressure reducing valve	each	6155.00	6152.00	6144.00	6144.00
26.77.5	38 mm dia water pressure reducing valve	each	7598.00	7596.00	7588.00	7588.00
26.77.6	50 mm dia water pressure reducing valve	each	11208.00	11205.00	11197.00	11197.00
26.77.7	62 mm dia water pressure reducing valve	each	19389.00	19386.00	19378.00	19378.00
26.77.8	75 mm dia water pressure reducing valve	each	27810.00	27808.00	27800.00	27800.00
26.78	Manufacturing, supplying, fitting & fixing of adjustable hanger made of 38 mm x 38 mm x 6 mm m.s. angle with 600 mm long 12 mm dia nut-bolt for having pvc pipe from ceiling as per direction of the Engineer-in-charge.	meter	901.00	898.00	867.00	867.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.79	Supplying, fitting and installation of automatic hand drier of high speed, energy efficient, rapid drying, automatic sensor, adjustable speed and sound control, adjustable heat control, electric hand dryer; surface mounted or semi-recessed which can eliminate over 99% of airborne bacteria and particles as small as 0.3 microns with the removable Super Filter System and it shall be powered by 220v AC supply/ batteries and shall operate automatically from IR sensor that shall activate it when hands are placed in sensor zone etc. all complete accepted by the Engineer- in-charge.	each	6490.00	6476.00	6437.00	6437.00
INSPECTION PIT & SOAK WELL						
26.80	Construction of masonry inspection pit with 250 mm thick brick work in cement mortar (1:4) including necessary earth work, side filling and one layer brick flat soling, 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc. all complete up to a depth of 700 mm approved and accepted by the Engineer- in- charge.					
26.80.1	Clear 450 mm x 450 mm and depth 450 mm to 600 mm, average 525 mm for single 150 mm dia R.C.C. pipes and 400 mm PVC pipe.	each	5267.00	5244.00	5024.00	5024.00
26.80.2	Clear 525 mm x 525 mm and depth 675 mm to 825 mm, average 750 mm for single 225 mm dia R.C.C. pipes and 400 mm PVC pipe.	each	7862.00	7828.00	7500.00	7500.00
26.80.3	Clear 600 x 600 mm and depth 750 mm to 900 mm, average 825 mm for single 300 mm dia R.C.C. pipes and 400 mm PVC pipe.	each	10955.00	10909.00	10454.00	10454.00
26.80.4	Master-pit of Size: Clear 600 mm x 500 mm and average 750 mm depth for Septic tank.	each	5647.00	5623.00	5400.00	5400.00
26.81	Construction and placement M.H. cover with locking/unlocking arrangement including necessary earth work, side filling, shuttering, curing, cement plaster (1:4) with neat finishing on edges and top etc. all complete approved and accepted by the Engineer- in- charge.					
26.81.1	900 mm x 900 mm x 75 mm R.C.C. pit cover	each	1950.00	1945.00	1894.00	1893.00
26.81.2	1025 mm x 1025 mm x 75 mm R.C.C. pit cover	each	2249.00	2243.00	2184.00	2184.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.81.3	1100 mm x 1100 mm x 75 mm R.C.C. pit cover	each	2573.00	2567.00	2500.00	2500.00
26.82	Construction and placing of R.C.C inspection pit cover (slab) with supplying and provisions for placing, fitting, fixing 450 mm dia C.I. man-hole cover with locking/un-locking arrangement including concrete (1:2:4) with approx. 1% re-enforcement, necessary earth cutting, or cleaning, side filling, curing etc. with minimum 12 mm cement plaster (1:4) and neat cement finishing on edges and top all complete and accepted by the Engineer- in-charge.					
26.82.1	950 mm x 950 mm x 75 mm R.C.C. pit cover with 450 mm dia C.I. manhole cover.	each	2820.00	2815.00	2767.00	2767.00
26.82.2	1025 mm x 1025 mm x 75 mm R.C.C. pit cover with 450 mm dia C.I. manhole cover.	each	3055.00	3050.00	2998.00	2997.00
26.82.3	1100 mm x 1100 mm x 75 mm R.C.C. pit cover with 450 mm dia C.I. manhole cover.	each	3380.00	3374.00	3315.00	3314.00
26.83	Construction of masonry inspection pits up to a depth of 700 mm with 250 mm thick brick work in cement mortar (1:4) including 100 mm thick R.C.C. top slab (1:2:4) with 1% reinforcement, man-hole cover with locking arrangement including necessary earth work, side filling and one brick flat soling. 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc. all complete approved and accepted by the Engineer- in-charge.					
26.83.1	Clear 450 mm x 450 mm and depth 450 mm to 600 mm, average 525 mm for single 150 mm dia R.C.C. pipes and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover.	each	8087.00	8059.00	7791.00	7791.00
26.83.2	Clear 525 mm x 525 mm and depth 675 mm to 825 mm, average 750 mm for single 225 mm dia R.C.C. pipes and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover.	each	10917.00	10878.00	10498.00	10497.00
26.83.3	Clear 600 mm x 600 mm and depth 750 mm to 900 mm, average 825 mm for single 300 mm dia R.C.C. pipes and 375 mm and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover.	each	14335.00	14283.00	13769.00	13768.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.84	Construction of septic tank of different sizes with walls of brick work in cement mortar (1:6) having a lining of minimum 125 mm R.C.C cast against the walls as per approved type plan over a brick flat soling and 150 mm thick reinforced cement concrete flooring (1:2:4) with 125 mm thick walls in partition and 12 mm thick cement plaster (1:4) with N.C.F. to insides of walls on floor and all around outside walls by 450 mm height at top including supplying, fitting and fixing of two R.C.C. Tees and providing 450 mm dia water sealed heavy type C.I. manhole cover with locking/unlocking arrangement and 100 mm thick R.C.C (1:2:4) top slab, including centering, shuttering, fabricating, casting and curing etc. complete up to required depth including necessary earth work in excavation and shoring, bailing out water and side filling including the cost of all materials, operations and incidental charges. etc. all complete as per type plan approved and accepted by the Engineer-in-charge (Rate is including cost of reinforcement the field office, including foundations, access					
26.84.1	For 200 users	each	338953.00	337895.00	327590.00	327578.00
26.84.2	For 100 users	each	267330.00	266520.00	258221.00	258213.00
26.84.3	For 50 users	each	174876.00	174324.00	169017.00	169012.00
26.84.4	For 30 users	each	123163.00	122781.00	119021.00	119017.00
26.84.5	For 20 users	each	115995.00	115639.00	112125.00	112121.00
26.84.6	For 10 users	each	65735.00	65530.00	63639.00	63637.00
26.85	Construction of soak well of different sizes (medium and large sizes) with 250 mm thick solid brick work and 250 mm honey comb brick work with cement mortar (1:6) as per design over R.C.C. (1:2:4) well curb with 1% reinforcement up to the depth as per drawing with 450 mm dia water sealed heavy type. C.I. manhole cover with locking arrangement, filling the well up to the required depth with graded khoa and sand including supplying and fabricating M.S. rod, casting, curing including necessary earth work in excavation, side filling and bailing out water including cost of all materials etc. all complete as per drawing, design approved and accepted by the (Rate is including cost of reinforcement and its fabrication, binding and placing) Engineer- in- charge.					
26.85.1	200 users	each	128943.00	128678.00	123947.00	123943.00
26.85.2	100 users	each	114203.00	113964.00	109778.00	109774.00
26.85.3	50 users	each	96358.00	96144.00	92624.00	92620.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
26.86	Construction of soak well of different sizes (small sizes) with 250 mm thick solid brick work and 250 mm honey comb brick work with cement mortar (1:6) as per design over R.C.C. (1:2:4) well curb with 1% reinforcement up to the depth as per drawing with 450 mm dia water sealed heavy type. C.I. manhole cover with locking arrangement, filling the well up to the required depth with graded khoa and sand including supplying and fabricating M.S. Rod, casting, curing including necessary earth work in excavation, side filling and bailing out water including cost of all materials etc. all complete as per drawing, design approved and accepted by the Engineer- in- charge.					
26.86.1	20 to 30 users	each	81827.00	81637.00	78656.00	78653.00
26.86.2	10 users	each	56096.00	55954.00	53926.00	53924.00
26.87	Supplying, fitting, fixing of foreign made best quality Reverse Osmosis Water Purifier (Kent / Unilever / Vapor water purifier or equivalent brand) for purification of water by reverse osmosis system to have potable water conforming WHO standard and Bangladesh concentration parameters including installation charge, carriage, sundries etc. complete approved and accepted by the Engineer- in- charge.					
26.87.1	Water purification volume: 50 gallon /day water reserve capacity	each	12944.00	12925.00	12849.00	12849.00
26.87.2	Water purification volume: 75 gallon per day	each	15799.00	15773.00	15671.00	15671.00
26.87.3	Water purification volume: 75 gallon per day (touch type)	each	23308.00	23283.00	23181.00	23181.00
26.87.4	Water purification volume: 100 gallon per day (with hot, cold & warm option)	each	65787.00	65723.00	65467.00	65467.00
26.87.5	Water purification volume: 200 gallon per day	each	47105.00	47041.00	46786.00	46786.00
26.87.6	Water purification volume: 400 gallon per day	each	70768.00	70704.00	70449.00	70449.00
26.88	Supply, installation and commissioning of 50 liter capacity best quality 'Water dispenser' with container of approved brand/origin.	each	4672.00	4667.00	4644.00	4644.00
26.89	Punching or cutting hole of any diameter for sanitary works.	each	528.00	513.00	482.00	482.00
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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
CHAPTER 27: DEEP TUBE-WELL						
Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
27	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	7853.00	7853.00	7853.00	7853.00
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	196.00	196.00	196.00	196.00
27.2.2	Above 50 m to 100 m = 50 m	meter	226.00	226.00	226.00	226.00
27.2.3	Above 100 m to 152 m = 52 m	meter	260.00	260.00	260.00	260.00
27.2.4	Above 152 m to 200 m = 48 m	meter	299.00	299.00	299.00	299.00
27.2.5	Above 200 m to 250 m = 50 m	meter	343.00	343.00	343.00	343.00
27.2.6	Beyond 250 m	meter	395.00	395.00	395.00	395.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
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	3460.00	3455.00	3436.00	3436.00
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	1017.00	1013.00	997.00	997.00
27.3.3	38/40 mm dia water grade uPVC pipe having wall thickness 2.5 mm -3.00 mm	meter	220.00	219.00	215.00	215.00
27.3.4	38/40 mm dia water grade uPVC strainer having wall thickness 2.5 mm -3.00 mm	meter	291.00	289.00	282.00	282.00
27.3.5	38/40 mm dia uPVC socket adapter	each	132.00	131.00	129.00	129.00
27.3.6	Best quality 38 mm dia uPVC cap	each	107.00	107.00	104.00	104.00
27.3.7	Supplying, fitting & fixing observation well inside the housing pipe of the deep tube well:100'-0" depth	each	24847.00	24786.00	24541.00	24541.00
27.3.8	Supplying; fitting & fixing tube-well log describing technical information of the tube-well	each	5006.00	5006.00	5006.00	5006.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
27.3.9	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	70.00	71.00	70.00	70.00
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	LS	8835.00	8835.00	8835.00	8835.00
27.4.1.2	For 2 Nos. test tube-wells	LS	13253.00	13253.00	13253.00	13253.00
27.4.1.3	For 3 Nos. test tube-wells	LS	17670.00	17670.00	17670.00	17670.00
27.4.2	Wells beyond 200 meter depth					
27.4.2.1	For 1 No. test tube-well	meter	51.00	51.00	51.00	51.00
27.4.2.2	For 2 Nos. test tube-wells	meter	76.00	76.00	76.00	76.00
27.4.2.3	For 3 Nos. test tube-wells	meter	102.00	102.00	102.00	102.00
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 tube well at the field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Engineer-in-charge. The Engineer-in-charge may require revision of the plans prior to giving approval for construction					

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
	<p>other reputed laboratory, approved by the authority, submitting the report and design details all complete and accepted by the Engineer-in-charge and maintaining the mobilized tools and plants at site till satisfactory test results are found (if not, next test bore may be executed with the approval of concern S.E. / Design Office)</p> <p>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)</p> <p>Sieve analysis: min 9 Nos. Sample x one test x One bore = 9 Nos. test (Samples are of 1 kg dry wt. each)"</p> <p>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.</p>					
27.5.1	Furnishing design considering 1 No. test bore	LS	56321.00	56321.00	56321.00	56321.00
27.5.2	Furnishing design considering 2 Nos. test bores	LS	98135.00	98135.00	98135.00	98135.00
27.5.3	Furnishing design considering 3 Nos. test bores	LS	147202.00	147202.00	147202.00	147202.00
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	454.00	454.00	454.00	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.					

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
27.7.1	For Tube-wells up to 100 meter depth	per set	47977.00	47977.00	47977.00	47977.00
27.7.2	For Tube-wells up to 200 meter depth	per set	51404.00	51404.00	51404.00	51404.00
27.7.3	For Tube-wells beyond 200 meter depth	per set	54831.00	54831.00	54831.00	54831.00
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	5484.00	5468.00	4987.00	4987.00
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	11635.00	11638.00	11380.00	11369.00
	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	957.00	957.00	957.00	957.00
27.10.2	From 50 m to 100 m = 50 m	meter	1101.00	1101.00	1101.00	1101.00
27.10.3	From 100 m to 152 m = 52 m	meter	1266.00	1266.00	1266.00	1266.00
27.10.4	From 152 m to 200 m = 48 m	meter	1456.00	1456.00	1456.00	1456.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
27.10.5	From 200 m to 250 m = 50 m	meter	1674.00	1674.00	1674.00	1674.00
27.10.6	Beyond 250 m	meter	1925.00	1925.00	1925.00	1925.00
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	177.00	176.00	172.00	172.00
27.11.2.1	50 mm dia water grade (Class C) uPVC blind pipe/sand trap of wall thickness 2.5 mm to 3.00 mm	meter	224.00	223.00	220.00	220.00
27.11.2.2	50 mm dia water grade (Class D) uPVC blind pipe/sand trap of wall thickness 3.1 mm to 3.7 mm	meter	263.00	263.00	259.00	259.00
27.11.3.1	50 mm dia strainer of any slot as per design made with grade(Class C) uPVC pipe of wall thickness 2.5 mm to 3 mm	meter	314.00	312.00	302.00	302.00
27.11.3.2	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	353.00	351.00	341.00	341.00
27.11.3.3	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	421.00	418.00	409.00	409.00
27.11.4	Best quality 50 mm x 125 mm dia uPVC Reducer	meter	1096.00	1095.00	1091.00	1091.00
27.11.5.1	125mm dia water grade (Class C) uPVC housing pipe of wall thickness 5.5 to 6.4mm	meter	1050.00	1049.00	1045.00	1045.00
27.11.5.2	125mm dia water grade (Class D) uPVC housing pipe of wall thickness 7.3 to 8.4mm	meter	1283.00	1282.00	1279.00	1279.00
27.11.5.3	125mm dia water grade (Class E) uPVC housing pipe of wall thickness 9.0 to 10.4mm	meter	1517.00	1516.00	1512.00	1512.00
27.11.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design	each	596.00	593.00	584.00	584.00
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	105.00	103.00	99.00	99.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
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	31289.00	31289.00	31289.00	31289.00
27.13.2	Wells beyond 200 m depth	each	39633.00	39633.00	39633.00	39633.00
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	873.00	871.00	859.00	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	1643.00	1643.00	1643.00	3286.00
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	45.00	44.00	41.00	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	5325.00	5313.00	5264.00	5264.00
	INSTALLATION OF 75 mm x 150 mm DIA SHROUDED					
	PRODUCTION WELL WITH PVC PIPE					

Item No.	Description of Item	Unit	Unit Rate of Railway Division in Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
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	1043.00	1043.00	1043.00	1043.00
27.18.2	From 50 m to 100 m = 50 m	meter	1199.00	1199.00	1199.00	1199.00
27.18.3	From 100 m to 152 m = 52 m	meter	1379.00	1379.00	1379.00	1379.00
27.18.4	From 152 m to 200 m = 48 m	meter	1586.00	1586.00	1586.00	1586.00
27.18.5	From 200 m to 250 m = 50 m	meter	1824.00	1824.00	1824.00	1824.00
27.18.6	Beyond 250 m	meter	2098.00	2098.00	2098.00	2098.00
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	238.00	237.00	233.00	233.00
27.19.2.1	75 mm dia water grade(Class C) uPVC blind pipe/sand trap of wall thickness 3.5 mm to 4.1 mm	meter	399.00	398.00	394.00	394.00
27.19.2.2	75 mm dia water grade(Class D) uPVC blind pipe/sand trap of wall thickness 4.6 mm to 5.3 mm	meter	523.00	522.00	518.00	518.00
27.19.2.3	75 mm dia water grade(Class E) uPVC blind pipe/sand trap of wall thickness 5.7 mm to 6.6 mm	meter	658.00	657.00	653.00	653.00
27.19.3.1	75 mm dia strainer of any slot as per design made with water grade (Class C) uPVC pipe of wall thickness 3.5 to 4.1 mm	meter	480.00	477.00	468.00	468.00
27.19.3.2	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	604.00	601.00	591.00	591.00
27.19.3.3	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	739.00	736.00	726.00	726.00
27.19.4	Best quality 75 mm x 150 mm dia uPVC Reducer	each	1571.00	1570.00	1566.00	1566.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
27.19.5.1	150 mm dia water grade(Class C) uPVC housing pipe having wall thickness 6.6 mm to 7.6 mm	meter	1515.00	1514.00	1510.00	1510.00
27.19.5.2	150 mm dia water grade(Class D) uPVC housing pipe having wall thickness 8.8 mm to 10.2 mm	meter	2114.00	2113.00	2109.00	2109.00
27.19.5.3	150 mm dia water grade(Class E) uPVC housing pipe having wall thickness 10.8 mm to 12.5 mm	meter	2576.00	2575.00	2571.00	2571.00
27.19.6	Supplying of centralizer made with 12 mm dia M.S. rod of approved design	meter	596.00	593.00	584.00	584.00
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	112.00	110.00	106.00	106.00
27.21	Complete development of the well by suitable air compressor and pump of suitable capacity by alternate surging and pumping untill 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	41474.00	41474.00	41474.00	41474.00
27.21.2	Wells beyond 200 m depth	each	49768.00	49768.00	49768.00	49768.00
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	1070.00	1068.00	1055.00	1055.00
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	1995.00	1995.00	1995.00	1995.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
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	54.00	53.00	50.00	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	7147.00	7129.00	7055.00	7055.00
	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	1092.00	1092.00	1092.00	1092.00
27.26.2	From 50 m to 100 m = 50 m	meter	1256.00	1256.00	1256.00	1256.00
27.26.3	From 100 m to 152 m = 52 m	meter	1444.00	1444.00	1444.00	1444.00
27.26.4	From 152 m to 200 m = 48 m	meter	1661.00	1661.00	1661.00	1661.00
27.26.5	From 200 m to 250 m = 50 m	meter	1910.00	1910.00	1910.00	1910.00
27.26.6	Beyond 250 m	meter	2197.00	2197.00	2197.00	2197.00
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-1:2013, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge.					

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
27.27.1	Best quality 100 mm dia uPVC cap	each	545.00	544.00	540.00	540.00
27.27.2.1	100 mm dia water grade (Class C) uPVC blind pipe/ sand trap having wall thickness 4.5mm to	meter	569.00	568.00	564.00	564.00
27.27.2.2	100 mm dia water grade (Class D) uPVC blind pipe/ sand trap having wall thickness 6.0 mm to	meter	706.00	705.00	701.00	701.00
27.27.2.3	100 mm dia water grade (Class E) uPVC blind pipe/ sand trap having wall thickness 7.3 mm to	meter	1025.00	1024.00	1020.00	1020.00
27.27.3.1	100 mm dia strainer of any slot as per design made with water grade(Class C) uPVC pipe having wall thickness 4.5 mm to 5.2 mm	meter	650.00	648.00	638.00	638.00
27.27.3.2	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	787.00	784.00	774.00	774.00
27.27.3.1	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	1106.00	1103.00	1093.00	1093.00
27.27.4	Best quality 100 mm x 200 mm dia uPVC reducer	each	2324.00	2323.00	2319.00	2319.00
27.27.5.1	200 mm dia water grade (Class C) uPVC housing pipe having wall thickness 7.8 mm to 9.0 mm	meter	2363.00	2362.00	2358.00	2358.00
27.27.5.2	200 mm dia water grade (Class D) uPVC housing pipe having wall thickness 10.3 mm to 11.9 mm	meter	3180.00	3179.00	3176.00	3176.00
27.27.5.3	200 mm dia water grade(Class E) uPVC housing pipe having wall thickness 12.6 mm to 14.8 mm	meter	3826.00	3825.00	3821.00	3821.00
27.27.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design	each	596.00	593.00	584.00	584.00
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	133.00	131.00	126.00	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	50922.00	50922.00	50922.00	50922.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
27.29.2	Wells beyond 200 m depth	each	61106.00	61106.00	61106.00	61106.00
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	1123.00	1120.00	1107.00	1107.00
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	2347.00	2347.00	2347.00	2347.00
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	61.00	60.00	56.00	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	11741.00	11711.00	11588.00	11588.00
	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)					

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
27.34.1	From 0.0 m to 50 m = 50 m	meter	1374.00	1374.00	1374.00	1374.00
27.34.2	From 50 m to 100 m = 50 m	meter	1580.00	1580.00	1580.00	1580.00
27.34.3	From 100 m to 152 m = 52 m	meter	1817.00	1817.00	1817.00	1817.00
27.34.4	From 152 m to 200 m = 48 m	meter	2090.00	2090.00	2090.00	2090.00
27.34.5	From 200 m to 250 m = 50 m	meter	2404.00	2404.00	2404.00	2404.00
27.34.6	Beyond 250 m	meter	2764.00	2764.00	2764.00	2764.00
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-1:2013, 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	1144.00	1143.00	1139.00	1139.00
27.35.2.1	150 mm dia water grade(Class C) uPVC blind pipe/sand trap having wall thickness 6.6 mm to 7.6 mm	meter	1344.00	1343.00	1339.00	1339.00
27.35.2.2	150 mm dia water grade(Class D) uPVC blind pipe/sand trap having wall thickness 8.8 mm to 10.2 mm	meter	1816.00	1815.00	1811.00	1811.00
27.35.2.3	150 mm dia water grade(Class E) uPVC blind pipe/sand trap having wall thickness 10.8 mm to 12.5 mm	meter	2211.00	2210.00	2206.00	2206.00
27.35.3.1	150 mm dia strainer of any slot as per design made with water grade(Class C) uPVC pipe of wall thickness 6.6 to 7.6 mm	meter	1445.00	1442.00	1431.00	1431.00
27.35.3.2	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	1917.00	1914.00	1903.00	1903.00
27.35.3.3	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	2312.00	2310.00	2298.00	2298.00
27.35.4.	Best quality 150 mm x 200 mm dia uPVC Reducer	each	2531.00	2530.00	2525.00	2525.00
27.35.4.	Best quality 150 mm x 250 mm dia uPVC Reducer	each	3749.00	3747.00	3742.00	3742.00
27.35.5.1	200 mm dia water grade(Class C) uPVC housing pipe of wall thickness 7.8 mm to 9.0 mm	meter	2363.00	2362.00	2358.00	2358.00
27.35.5.2	200 mm dia water grade(Class D) uPVC housing pipe of wall thickness 10.3 mm to 11.9 mm	meter	3180.00	3179.00	3176.00	3176.00
27.35.5.3	200 mm dia water grade(Class E) uPVC housing pipe of wall thickness 12.6 mm to 14.8 mm	meter	3826.00	3825.00	3821.00	3821.00
27.35.5.4	250 mm dia water grade(Class C) uPVC housing pipe of wall thickness 9.7 mm to 11.2 mm	meter	3122.00	3121.00	3117.00	3117.00
27.35.5.5	250 mm dia water grade(Class D) uPVC housing pipe of wall thickness 12.8 mm to 14.8 mm	meter	4410.00	4409.00	4405.00	4405.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
27.35.5.	250 mm dia water grade(Class E) uPVC housing pipe of wall thickness 15.7 mm to 18.1 mm	meter	5870.00	5869.00	5865.00	5865.00
27.35.6	Supplying of centralizer made with 12 mm dia M.S. rod of approved design	meter	596.00	593.00	584.00	584.00
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	129.00	127.00	124.00	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	60861.00	60861.00	60861.00	60861.00
27.37.2	Wells beyond 200 m depth	each	68975.00	68975.00	68975.00	68975.00
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	1275.00	1272.00	1259.00	1259.00
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	2817.00	2817.00	2817.00	2817.00
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	85.00	83.00	78.00	78.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
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	10956.00	10925.00	10803.00	10803.00
	INSTALLATION OF 150 mm x 300 mm DIA SHROUDED					
	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	1374.00	1374.00	1374.00	1374.00
27.42.2	From 50 m to 100 m = 50 m	meter	1580.00	1580.00	1580.00	1580.00
27.42.3	From 100 m to 152 m = 52 m	meter	1817.00	1817.00	1817.00	1817.00
27.42.4	From 152 m to 200 m = 48 m	meter	2090.00	2090.00	2090.00	2090.00
27.42.5	From 200 m to 250 m = 50 m	meter	2404.00	2404.00	2404.00	2404.00
27.42.6	Beyond 250 m	meter	2764.00	2764.00	2764.00	2764.00
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	1551.00	1550.00	1546.00	1546.00

Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
27.43.2	150 mm dia G.I. Pipe having wall thickness 5.4 mm, weight 21.2 kg/m can withstand 50 kg/ cm ² hydraulic pressure for blind pipe/sand trap	meter	3788.00	3785.00	3773.00	3773.00
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	18440.00	18438.00	18428.00	18428.00
27.43.3.2	2.50 mm thick stainless steel Bridge type strainer.	meter	14029.00	14026.00	14017.00	14017.00
27.43.4	150 mm x 300 mm dia M.S. reducer of minimum thickness of 6 mm.	each	3307.00	3301.00	3276.00	3276.00
27.43.5	300 mm dia 6 mm minimum thick M.S. housing pipe (Welded)	meter	7692.00	7686.00	7662.00	7662.00
27.43.6	300 mm dia 6 mm minimum thick M.S. housing pipe (Seamless)	meter	10460.00	10454.00	10430.00	10430.00
27.43.7	Centralizer made with 12 mm dia M.S. rod of approved design.	each	596.00	593.00	584.00	584.00
27.43.8	350 mm dia M.S. cap having 6 mm thick for housing pipe covering.	each	3509.00	3495.00	3436.00	3436.00
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	805.00	790.00	732.00	732.00
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	60861.00	60861.00	60861.00	60861.00
27.45.2	Wells beyond 200 m depth	each	68975.00	68975.00	68975.00	68975.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
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	1316.00	1313.00	1300.00	1300.00
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	2875.00	2875.00	2875.00	2875.00
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	85.00	83.00	78.00	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	1546.00	1546.00	1546.00	1546.00
27.49.2	From 50 m to 100 m = 50 m	meter	1778.00	1778.00	1778.00	1778.00
27.49.3	From 100 m to 152 m = 52 m	meter	2045.00	2045.00	2045.00	2045.00
27.49.4	From 152 m to 200 m = 48 m	meter	2351.00	2351.00	2351.00	2351.00
27.49.5	From 200 m to 250 m = 50 m	meter	2704.00	2704.00	2704.00	2704.00
27.49.6	Beyond 250 m	meter	3110.00	3110.00	3110.00	3110.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
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	1968.00	1967.00	1963.00	1963.00
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	7776.00	7773.00	7761.00	7761.00
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	22030.00	22027.00	22015.00	22015.00
27.50.3.2	200 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	14669.00	14666.00	14654.00	14654.00
27.50.4	200 mm x 400 mm dia 6 mm thick M.S. reducer.	each	3374.00	3369.00	3350.00	3350.00
27.50.5	400 mm dia 6 mm thick M.S. housing pipe (Welded)	meter	11898.00	11892.00	11868.00	11868.00
27.50.6	400 mm dia 6 mm thick M.S. housing pipe (Seamless)	meter	14510.00	14503.00	14479.00	14479.00
27.50.7	Centralizer made with 12 mm dia M.S. rod of approved design	each	596.00	593.00	584.00	584.00
27.50.8	450 mm dia M.S. cap of 6 mm thick for housing pipe covering.	each	785.00	773.00	724.00	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	879.00	863.00	799.00	799.00

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
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	57793.00	57793.00	57793.00	57793.00
27.52.2	Wells beyond 200 m depth	each	64592.00	64592.00	64592.00	64592.00
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	1361.00	1359.00	1346.00	1346.00
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	3286.00	3286.00	3286.00	3286.00
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	85.00	83.00	78.00	78.00
	INSTALLATION OF 50 mm x 150 mm DIA SHROUDED					
	PRODUCTION WELL WITH G.I. PIPE					

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Item No.	Description of Item	Unit	Unit Rate of Railway Division In Taka			
			Dhaka	Chattogram	Paksey	Lalmonirhat
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	957.00	957.00	957.00	957.00
27.56.2	From 50 m to 100 m = 50 m	meter	1101.00	1101.00	1101.00	1101.00
27.56.3	From 100 m to 152 m = 52 m	meter	1266.00	1266.00	1266.00	1266.00
27.56.4	From 152 m to 200 m = 48 m	meter	1456.00	1456.00	1456.00	1456.00
27.56.5	From 200 m to 250 m = 50 m	meter	1674.00	1674.00	1674.00	1674.00
27.56.6	Beyond 250 m	meter	1925.00	1925.00	1925.00	1925.00
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	1551.00	1550.00	1546.00	1546.00
27.57.2	50 mm dia 4.85 mm thick tube well pipe and blank G.I. pipe	meter	1175.00	1172.00	1160.00	1160.00
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	7470.00	7468.00	7458.00	7458.00
27.57.3.2	50 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	7470.00	7468.00	7458.00	7458.00