

CHAPTER 21 : GRILL FENCING AND BARBED WIRE FENCING						
Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
21.1	Supplying, fitting and fixing MS 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	Tk. 2,615.00	Tk. 2,602.00	Tk. 2,522.00	Tk. 2,522.00
21.2	Supplying, fitting and fixing MS grill fencing of any design and shape made with 19 mm x 19 mm x 3 mm box (box made with 2 nos. 19 mm x 19 mm x 3 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 38 mm x 38 mm x 6 mm angle box vertical 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	Tk. 5,254.00	Tk. 5,232.00	Tk. 5,087.00	Tk. 5,087.00
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 10 mm dia M.S. rod placed @ 100 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 paint)	sqm	Tk. 2,536.00	Tk. 2,522.00	Tk. 2,445.00	Tk. 2,445.00
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	Tk. 1,106.00	Tk. 1,102.00	Tk. 1,078.00	Tk. 1,078.00

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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, reinforcement & plaster which is to be paid as per corresponding items in the schedule)	sqm	Tk. 157.00	Tk. 156.00	Tk. 154.00	Tk. 154.00
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	Tk. 279.00	Tk. 278.00	Tk. 275.00	Tk. 275.00
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 paint, R.C.C /brick work or C.C. which is to be paid as per corresponding items in the schedule).	sqm	Tk. 961.00	Tk. 953.00	Tk. 933.00	Tk. 933.00
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 paint, R.C.C /brick work or C.C. which is to be paid as per corresponding items in the schedule).	sqm	Tk. 1,034.00	Tk. 1,026.00	Tk. 1,006.00	Tk. 1,006.00

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21.9	Supplying, fitting and fixing 12 BWG barbed wire fencing in a circular shape of 600 mm dia and 100 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 Painting).	meter	Tk. 2,436.00	Tk. 2,430.00	Tk. 2,382.00	Tk. 2,382.00
21.10	Supplying, fitting and fixing Fancy grill in Boundary wall made of 10 mm dia M.S. rod provided @ 75 mm c/c in any position both ways as per design with outside frame of 50 mm x 50 mm x 6 mm M.S. tube and two inner frame made of 25 mm x 25 mm x 6 mm M.S. tube including fabricating, welding in each point , painting 2 coats of synthetic enamel paint over a coat of anti-corrosive priming including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting groves in the R.C.C. or brick work, mending good the damages with C.C. (1:2:4) etc, all complete for all floors accepted by the Engineer-in-charge. [Rate is excluding the cost of painting]	sqm	Tk. 4,124.00	Tk. 4,119.00	Tk. 4,082.00	Tk. 4,082.00
21.11.1	Manufacturing, supplying, fitting and fixing S.S. grill fencing(Grade 304) as per design in boundary wall with 50mm x 50mm x1.5mm box horizontal section for top & bottom part & 25mmx1.5mm ss round horizontal section @ 4" c/c between top & bottom which are attached with 4 mm thickness ss base plate of required size & ss royal bolt with side column/wall, 37 mm x 1.5 mm ss round vertical section 3'-0" c/c section attached with bottom RCC section and top SS vertical section with required welding, mending good the damages with concrete(1:2:4) required polishing, finishing etc. all complete as per drawing and accepted by the Engineer-in-charge.	sqm	Tk. 13,717.00	Tk. 13,709.00	Tk. 13,675.00	Tk. 13,675.00
21.11.2	Manufacturing, supplying, fitting and fixing S.S. grill fencing(Grade 201) as per design in boundary wall with 50mm x 50mm x1.5mm box horizontal section for top & bottom part & 25mmx1.5mm ss round horizontal section @ 4" c/c between top & bottom which are attached with 4 mm thickness ss base plate of required size & ss royal bolt with side column/wall, 37 mm x 1.5 mm ss round vertical section 3'-0" c/c section attached with bottom RCC section and top SS vertical section with required welding, mending good the damages with concrete(1:2:4) required polishing, finishing etc. all complete as per drawing and accepted by the Engineer-in-charge.	sqm	Tk. 9,404.00	Tk. 9,396.00	Tk. 9,362.00	Tk. 9,362.00
21.12	Supplying, fitting and fixing fancy grill in Boundary wall made of 38 mm x 38 mm x 6 mm M.S. tube vertical section @ 150 mm c/c and 19 mm x 19 mm x 3 mm M.S. Tube horizontal section @ 900 mm c/c fabricating, welding in each point , including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting groves in the R.C.C. or brick work, mending good the damages with C.C. (1:2:4) etc, all complete for all floors accepted by the Engineer-in-charge. (Rate is excluding the cost of painting)	sqm	Tk. 2,943.00	Tk. 2,938.00	Tk. 2,912.00	Tk. 2,912.00

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