



**Construction of Boundary Wall.**  
**At D.H.Q. Hospital, Badin.**  
**BILL OF QUANTITY / SCHEDULE OF WORKS**  
**(CIVIL WORKS)**

Sr.	Description
<b>I</b>	<b>CIVIL WORK</b>
<b>1</b>	<b>EARTHWORK</b>
<b>1.1</b>	<b>EXCAVATION</b> Excavation for foundation in all kinds of soils, dry or wet, hard or soft, up to 5'-0" from Natural Ground Level (N.G.L) including all operation of site clearing, complete with breaking clods, levelling, dressing, dewatering, shoring & compacting including lifting, shifting or disposing of surplus earth outside premises or as per instructions of Consultant / Engineer In-charge.
<b>1.2</b>	<b>BACKFILLING</b> Filling excavated earth in plinth and under floors i/c breaking clods, dressing, watering and consolidating by ramming in layers not exceeding 9" depth to obtain 95% modified AASHTO density i/c all lead and lift and as per instructions of Consultant / Engineer In-charge.
<b>1.3</b>	<b>Embankment</b> Providing and making embankment by filling earth obtained from outside source (as per approved AASHTO Standard) and filling the same in along boundary wall on both sides i/c breaking clods, dressing, watering and consolidating with mechanical means by compacter or roller in layers not exceeding 9" depth to obtain 95% modified AASHTO density i/c all lead and lift and planting grass and trees along the boundary wall as directed and as per instructions of Consultant / Engineer In-charge.
<b>2</b>	<b>PLAIN CONCRETE</b> Providing and laying Plain Cement Concrete where required using approved quality 3/4" max size graded crushed aggregate or stone with approved quality local river sand i/c all formwork rodding vibrating levelling, compacting and curing etc. complete in all respects as per drawings, specifications and as per instructions of Consultant / Engineer In-charge.(SR cement should be used for all sub structure works)
<b>2.1</b>	4" thick CC 1:4:8 (1 cement 4 sand and 8 coarse aggregate) under foundation & Situ.
<b>2.2</b>	PCC 1:3:6 (1 cement 3 sand and 6 coarse aggregate) Cast in Situ.
<b>3</b>	<b>DAMP PROOF COURSE</b> Providing and laying 2" thick 1:11/2:3 (1 cement 11/2 sand & 3 coarse aggregate) DPC under walls and entrance over Tie Beam using pudlo as per manufacturers instructions with 2 Coats of Hot Bitumen 10/20 at 1.64 kg per sqm complete as per drawing, specification and as per instructions of Engineer In-charge..



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<b>4</b>	<b>WATER PROOFING</b> Providing, laying and applying hot bitumen to the vertical surfaces of the columns and the walls in foundation & plinth in two layers with 10/20 at 1.64 kg per sqm, applied hot over the completely dry surfaces of the concrete works, after the curing period is over, complete as per drawings, specifications and as per instructions of Engineer In-charge.
<b>5</b>	<b>REINFORCED CEMENT CONCRETE</b> Providing and laying Reinforced cement concrete of specified strength using approved quality 3/4" max. size and down gauge graded crushed aggregate & fine aggregate including approved form work & its removal, all operations of vibrating, levelling, compacting and curing etc complete but excluding the cost of steel (SR cement should be used for all sub structure works).
5.1	1: 2 :4 ( 1 cement 2 sand 4 coarse aggregate) footing (isolated/combined)
5.2	1: 2 :4 ( 1 cement 2 sand 4 coarse aggregate) Column Stem upto Plinth/Tie Beam
5.3	1: 2 :4 ( 1 cement 2 sand 4 coarse aggregate) in Plinth/Tie Beam
5.4	1: 2 :4 ( 1 cement 2 sand 4 coarse aggregate) in Super Structure Columns of Boundary Wall
5.5	1: 2 :4 ( 1 cement 2 sand 4 coarse aggregate) in Super Structure Columns of Entrance Gate.
5.6	1: 2 :4 ( 1 cement 2 sand 4 coarse aggregate) in Beams and Slab of Entrance Gate Structure.
5.7	1: 2 :4 ( 1 cement 2 sand 4 coarse aggregate) Coping of Boundary Wall
<b>6</b>	<b>STEEL REINFORCEMENT</b> Providing fabricating and laying hard grade ribbed deformed (min yield point 60,000 psi) steel reinforcement bars including the cost of straightening, cutting, bending, binding, wastage and such overlaps as are not shown in drawings, placing in position on cement concrete 1:2:4 precast spacer block or m.s chairs, tying with binding wire (GI wire of 18 gauge), including cost of chairs and wires etc. in all kinds of RCC works.
6.1	Deformed Steel (Grade 60)



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<b>7</b>	<b>BRICK MASONRY</b>
7.1	Providing and laying 4½" thick brick masonry with good quality 1st class burnt bricks (Face Bricks) (origin from Tando Mohammad Khan) in 1:4 (1 cement 4 sand) including fixing of wall ties (b/w RCC & Brick Masonry Joints)(3/8"ØBar at every 3rd course of masonry) (inclusive of cost of steel) including pointing on both sides of the boundary wall complete as per drawings, specifications and as per instructions of Consultant / Engineer In-charge.  4½" Brick Masonry Wall
<b>8</b>	<b>PLASTER</b>
	Providing & applying smooth 3/4" th plaster to Tie Beam, columns of boundary wall, Gate Columns, Coping & Design Portion of Boundary Wall with 1:4 (1 cement 4 sand) ratio, i/c all corners, recesses, jambs and racking out joints complete as per drawings, specifications and as per instructions of Consultant. (SR cement should be used for plaster works).
8.1	<b>External Plaster with Grooves as per design</b> (at any level at any height) (3/4" thick 1:4 O.P.Cement Sand Plaster)
<b>9</b>	<b>PAINTS</b>
9.1	Providing & applying weather shield paint over the Plinth/Tie Beam, columns of boundary wall, Gate Columns, Coping, & Masonry of Boundary Wall on both side i/c. filling, rubbing, smoothing with sand paper. Applying three coats of dulux (ICI) or Berger of approved shade & colour complete as per drawings, specifications and as per instructions of Consultant.
<b>10</b>	<b>MS STEEL GATE</b>
10.1	Providing and fixing MS Door comprising of MS angle Iron and MS Sheet (@ 3 Kg per S.ft.) including applying primer coat of red oxide and three coats of dulux (ICI) or Berger Enamel Paint of approved shade and colour complete as per drawings, specifications and instructions of Engineer/Consultant (Shop drawings shall be provided for the approval of Engineer/Consultant)  Gneral Note: For all finishing item, line size mockup model will be required at site for final approval from the Consultant (Design team / Monitoring team) & Engineer In-charge.
	Total (Part-I) Civil Work

Signature: \_\_\_\_\_

Stamp

dated: \_\_\_\_\_