

**NATIONAL INSTITUTE OF ANIMAL
BIOTECHNOLOGY (NIAB), HYDERABAD**

TENDER

FOR

**Construction of Stone Masonry Compound Wall for
NIAB Campus at Survey No.37, Serlingampally,
Hyderabad**

VOLUME – V

- **Bill of Quantities**

January' 2013



HSCC (INDIA) LTD.
(CONSULTANTS & ENGINEERS FOR MEGA HOSPITALS & LABORATORIES)
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Tender No. HSCC/NIAB/HYD/BW/2013

Name of work: Construction of Stone Masonary Compound wall for NIAB Campus at Gopanpally Village Survey No. 37, Serilingampally, Hyderabad.

Bill of Quantities

S.No.	Description Of Item	Qty	Unit	Rate in Figures (Rs)	Rate in words (Rs)	Amount in Figures (Rs)
1	2	3	4	5	6	7
1.0	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.					
a)	All kinds of Soil	220.00	Cum			
b)	Ordinary rock	440.00	Cum			
c)	Hard Rock(Requiring blasting)	220.00	Cum			
d)	Hard Rock(Blasting Prohibited)	220.00	Cum			
2.0	Providing & laying in position cement concrete of specified grade excluding the cost of centering & shuttering - All work upto plinth lvl					
a)	1: 5: 10 (1 cement: 5 fine sand: 10 graded stone aggregate 40mm nominal size)	150.00	Cum			

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1	2	3	4	5	6	7
3.0	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor,etc., up to floor five level, excluding the cost of centering, shuttering and finishing :					
a)	1: 1.5: 3 (1cement:1.5coarse sand:3 graded stone aggregate 20mm nominal size)	80.00	Cum			
4.0	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	250.00	Cum			
5.0	Centering & shuttering including strutting, propping etc & removal of form for					
a)	Lintel, beams,Plinth beam,girders, bressumers & cantilevers	1000.00	sqm			

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1	2	3	4	5	6	7
6.0	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
a)	TMT bars	15000.00	kg			
7.0	Coursed rubble masonry (second sort) with hard stone in foundation & plinth with :					
a)	cement mortor 1: 6(1 cement :6 coarse sand)	800.00	Cum			
8.0	Coursed rubble masonry with hard stone (second sort) in superstructure above plinth level and upto floor five level.					
a)	cement mortor 1: 6(1 cement :6 coarse sand)	2000.00	Cum			
9.0	Steel work welded in built up sections/ framed work, including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
a)	In grating,frames, guard bar,ladder,railing,brackets,gates & similar work	2000.00	kg			
10.0	Pointing on stone work with cement mortar 1: 3(1 cement: 3 fine sand)					

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a)	Raised & cut pointing	10000.00	sqm			
11.0	Painting with synthetic enamel paint of approved brand & manufacture to give an even shade					
a)	Two or more coats on new work	400.00	sqm			
12.0	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
a)	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	100.00	cum			
13.0	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :					
a)	In cement mortar	100.00	cum			

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1	2	3	4	5	6	7
14.0	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used.					
a)	With GI barbed wire	18000.00	mtr			
15.0	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	12000.00	kg			

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1	2	3	4	5	6	7
16.0	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	3600.00	mtr			
	Total amount					