



# UNIVERSITY OF KARACHI

## BILL OF QUANTITY

FOR

## CONSTRUCTION OF RCC BOUNDARY WALL BETWEEN MASKAN AND METROVILLE GATE

ISSUED TO:

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ADDRESS:

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ON: \_\_\_\_\_

TIME: \_\_\_\_\_

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# UNIVERSITY OF KARACHI

## BILL OF QUANTITIES FOR CONSTRUCTION OF RCC BOUNDARY WALL BETWEEN MASKAN AND METROVILLE GATE

S#	Description	Qty	Unit	Rate (Rs)	Amount (Rs)
<b>01</b>	RCC Boundary wall Cleaning Jungle (dense) by cutting, removing all shrubs, trees up to 6" girth etc. and taking out their entire roots and filling the hollows with earth complete with dressing, consolidating and watering the filling including stacking the serviceable materials and disposal of useless materials as directed, lead up to 10 chains, cost of earth included.	<b>66060</b>	<b>Sft</b>		
<b>02</b>	Excavation for foundation trenches and drains in all kinds of soil and back filling the excavated material in foundation, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9" in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead up to one chain and lift up to 5' (2650 cft) a) Soil b) Hard Rock	<b>32102</b> <b>13758</b>	<b>Cft</b> <b>Cft</b>		
<b>03</b>	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using graded stone ballast 2" and down gauge in foundation including leveling, compacting and curing etc. complete.	<b>9383</b>	<b>Cft</b>		
<b>04</b>	Providing and laying with mechanical mixing machine reinforced cement concrete using screened graded bajri ¾" and down gauge having a minimum works cube crushing strength of 2250 lbs. per sq. inch at 28 days with a mix not leaner than 1:2:4 in ordinary slab 5" to 6" thick including form work and its removal compacting with vibrator and curing etc. complete but excluding the cost of reinforcement in any floor complete a) Plinth Beam & footing b) Columns in super structure	<b>8661</b> <b>34713</b>	<b>Cft</b> <b>Cft</b>		
<b>05</b>	Providing and laying cold worked ribbed deformed steel reinforcement bars with minimum yield stress of 40,000 psi (AMRELI/ RAZAQ) or equivalent make with and including the cost of straightening, cutting, bending, binding, wastage and such overlaps as are not shown over the drawings, placing in position on cement concrete 1:2:4 precast or M.S chair tying with binding wire etc. cost of chairs and wires etc. complete in all kinds of RCC work at any height.	<b>154907</b>	<b>Kg</b>		

<b>06</b>	Providing and fixing angle iron fencing post of 1 ½” x 1 ½” x ¼” thick “Y” shape, embedded in situ concrete and painting exposed portion with 3 coats of enamel paint of (GOBI’S) make over a single coat of red oxide of (GOBI’S) make including necessary holes but excluding the cost of excavation and concrete, complete. Each column 6’ high from wall surface vertical and 2’ down of 60 degree tilt, as directed by Engineer In-Charge. (Each column length 5’-6” total)	<b>551</b>	<b>Each</b>		
<b>07</b>	Providing and fixing Razors wire fencing 2’ dia. 1 ½” x 1 ½” x ¼” thick complete with binding wire in circle of razor wire, welding along with angle iron posts and fencing directed by Engineer In-Charge.	<b>6610</b>	<b>Each</b>		
<b>08</b>	<u>Construction of Watch Tower</u> Excavation for foundation trenches and drains in all kinds of soil and back filling the excavated material in foundation, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9” in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead up to on chain and lift up to 5’ (2650 cft) a) Soil b) Hard Rock	<b>1209</b> <b>519</b>	<b>Cft</b> <b>Cft</b>		
<b>09</b>	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using graded stone ballast 2” and down gauge in foundation including leveling, compacting and curing etc. complete.	<b>330</b>	<b>Cft</b>		
<b>10</b>	Providing and laying with mechanical mixing machine reinforced cement concrete using screened graded bajri ¾” and down gauge having a minimum works cube crushing strength of 2250 lbs. per sq. inch at 28 days with a mix not leaner than 1:2:4 in ordinary slab 5” to 6” thick including form work and its removal compacting with vibrator and curing etc. complete but excluding the cost of reinforcement in any floor complete	<b>1599</b>	<b>Cft</b>		
<b>11</b>	Providing and laying cold worked ribbed deformed steel reinforcement bars with minimum yield stress of 40,000 psi (AMRELI/ RAZAQ) or equivalent make with and including the cost of straightening, cutting, bending, binding, wastage and such overlaps as are not shown over the drawings, placing in position on cement concrete 1:2:4 precast or M.S chair tying with binding wire etc. cost of chairs and wires etc. complete in all kinds of RCC work at any height.	<b>4650</b>	<b>Kg</b>		
<b>12</b>	Providing and laying 1:3:6 cement concrete solid block masonry 4” to 6” thick using graded screened bajri ¾” and down gauge set in cement mortar 1:1:6 including scaffolding, raking out joints and curing etc. complete in any floor super structure.	<b>1329</b>	<b>Cft</b>		
<b>13</b>	¾” thick cement plaster 1:6 on walls, ceiling and columns etc. in any floor including making edges, corners and curing etc. complete internal & external surface of room in any floor.	<b>7800</b>	<b>Sft</b>		

14	Providing and laying 2" thick C.C screeding 1:2:4 cast in situ using graded screened bajri 3/4" and down gauge in ground floor laid in panels (2" wide glass strip) including form work, consolidation, finishing and curing etc. complete.	429	Sft		
15	Providing and laying floors of 2" thick 1:2:4 cement concrete using graded screened bajri 3/4" and down gauge in ground floor laid in panels (2" wide glass strip) including form work, consolidation, finishing and curing etc. complete.	480	Sft		
16	Providing and fixing hot dipped galvanized single leaf steel doors made to crittal or equivalent standard and of approved section oxidized fitting iron lungs, cutting holes and making good damages to walls etc. complete as required in any floor i/c cost of frame.	126	Sft		
17	Providing and fixing un-plasticized polyvinyl chloride pipe "D" class (U.P.V.C) SDR schedule "40" approved make with specials and clamps etc. i/c cutting, fittings and jointing (Brand, Tee, Y-Tee, Cowl etc) complete with and including the cost of breaking through walls and roof and making good damages i/c taking out existing pipe with fitting i/c cost of taking out existing pipe. a) 3/4" dia UPVC for water b) 6" dia for sewer	45 90	Rft Rft		
18	Providing and fixing glazed oresa W.C pan complete approved make, squatting type with fitting, UPVC p-trap, making requisite of holes in walls, plinth, ceiling & for pope connection, making good in cement concrete 1:2:4, with all necessary fitting i.e, stop cock, plastic connection etc.	3	Each		
19	Providing and fixing 1/2" dia chrome bib cock of approved make fix in G.I line with all necessary fitting	3	Each		
20	Providing and installing mild steel iron spiral stair case mount in R.C.C wall complete with cutting, chiseling and bracing as per direction Engineer In-Charge etc. hand rail and braces at requires interval etc. complete including the cost of cement concrete work.	3	Job		
21	Painting iron/ wood work with ready mixed paint of approved make and shade two coats complete at any height in any floor (GOBI'S) or equal ant make.	300	Sft		
22	Oil bound distempering with distemper of approved make and shade in three coats including scraping, sand papering, dusting and filling the holes, cracks and inequalities, if any at height in any floor (GOBI'S) or equal ant make.	7800	Sft		
23	Providing and fixing steel handle valve Italy make approved, fix in G.I and CPVC line with all necessary fitting complete etc. 3/4" dia.	3	Each		
24	Making connection with the existing G.I pipe & CPVC pipe up to 2" dia i/c cutting the pipe and providing fixing necessary fitting.	3	Each		
25	Providing and fixing 24" x 18" beveled edges looking mirror of Belgium glass with 1/8" thick hard board and screw fixed to wooden cleats complete i/c taking out existing mirror if any.	3	Each		

26	<u>Construction of Septic Tank</u> Excavation for foundation trenches and drains in all kinds of soil and back filling the excavated material in foundation, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9" in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead up to one chain and lift up to 5' (2650 cft) a) Soil b) Hard Rock	1080 462	Cft Cft		
27	Bailing or pumping out sub soil water during excavation, concreting, cast in situ concrete or masonry work in foundation etc. (only three operations to be allowed, trench volume under water to be measured first time for excavation, second time for concreting and third time for cast in situ concrete or masonry work in foundation etc.	1152	Cft		
28	Supplying, stacking, spreading and filling 9" thick stone soiling of required slope from approved quarries in plinth or under floor including filling voids with spawl and chips and consolidation by ramming layers not exceeding 9" in depth to full compaction lift up to 5'	108	Cft		
29	Providing and laying 1:3:6 cement concrete solid block masonry 4" to 6" thick using graded screened bajri ¾" and down gauge set in cent motor 1:1:6 including scaffolding, raking out joints and curing etc. complete in any floor super structure.	399	Cft		
30	¾" thick cement plaster 1:6 on walls, ceiling and columns etc. in any floor including making edges, corners and curing etc. complete internal & external surface of room in any floor.	525	Sft		
31	Providing and laying R.C.C pre-cast slab complete i/c cost of 9" wide R.C.C rafter, jointing with 1:4 cement mortar as required at site.	270	Sft		
	<b>TOTAL</b>				

(Amount in words:

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**only)**