

AVIATION COMPLEX AT BLUE AREA, ISLAMABAD

BILL NO. 1.B: CIVIL WORKS (STRUCTURAL CONCRETE WORKS)

BILL OF QUANTITIES

Item No.	Item Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
(i)	(ii)	(iii)	(iv)	(v)	(vi)
GENERAL NOTE SCOPE : <i>(Applicable to all sections)</i> Providing, supply, fabricating and applying in any floor and at any height or depth except where otherwise stated in the specific item of the Bill of quantities, including all material, labour, all operations related to the items and plant for the following items, complete in all respects as per drawings, approved shop drawings, specifications, miscellaneous details and instructions of the Engineer, etc. complete as directed.					
Section A - Earthworks Ref Specs: 0130, 0150, 1100					
C-A-01	Excavation of foundations, basements and trenches in all kind of soil/ rock/ material, dry, wet, slush including boulders, gravels and hard soil/rock etc, up to following depths from NSL, and stacking/ stockpiling of suitable excavated material required for approved use within the Project at locations designated/ approved by the Engineer including all lead and lift:				
	(a) Basement -1 upto level +0' to -9'	Cft	743,520		
	(b) Basement -2 upto level -9' to -19'-6"	Cft	867,440		
	(c) Basement -3 upto level -19'-6" to -30'-0"	Cft	867,440		
	(d) Basement -4 upto level -30'-0" to -40'-6"	Cft	867,440		
	(e) Basement -5 upto level -40'-6" to -51'-0"	Cft	867,440		
	(f) Basement -6 upto level -51'-0" to -61'-6"	Cft	867,440		
	(g) From level -61'-6" to -75'-8" or above depth	Cft	643,460		
C-A-02	Providing for loading, hauling, transportation and disposal of excavated material rendered surplus and not required for filling, backfilling or other approved use within the Project, from the Project site to an disposal location outside the Project premises, including all loading, handling, transportation, unloading, spreading/leveling at disposal area, and all lead and lift, labour, equipment, fuel, access arrangements, permits and all incidental works, complete in all respects as directed and approved by the Engineer. The Contractor shall be fully responsible for identification and arrangement of the disposal location and for obtaining, at his own cost, all necessary approvals, permissions, NOCs, permits and clearances from the concerned departments, authorities or agencies, as may be required for transportation and disposal/dumping of the excavated material. The Contractor shall ensure that the disposal location and method of disposal comply with all applicable statutory, environmental and other requirements. The quantity shall be measured based on the actual quantity of excavated material removed from the Project site as directed and verified by the Engineer. The amount corresponding to the measured quantity under this item, based on the approved unit rate, shall be deducted from the Contract Amount.				
		Cft	(5,739,930)		
C-A-03	Fill & back fill with suitable approved selected material obtained under any item of excavation from site, including hauling up to any lead and lift, placing in layers and compaction etc, as directed by the Engineer.	Cft	10,500		

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(i)	(ii)	(iii)	(iv)	(v)	(vi)
C-A-04	Providing and laying Select Fill with suitable approved material obtained from outside source including hauling up to any lead and lift, placing in layers and compaction having min. relative density of 75%, as directed by the Engineer.	Cft	8,000		
C-A-05	Providing and filling local sand in foundations, under floor from approved source including leveling, dressing, compacting, consolidating, watering in layers not more than 6" depth complete all as per specifications and instructions of Engineer. All backfill to be approved by the Engineer compacting to 95% modified AASHTO	Cft	204,725		
Section B - Termite Control Treatment					
Ref Specs: 1600					
C-B-01	Spraying of anti-termite treatment using approved chemical, applied as per manufacturer's recommendations at the bottom and sides of foundation trenches, over stockpiled backfill material, under floors. The Contractor shall provide a certificate guaranteeing the treatment for 10 years. The work shall be carried out complete in all respects as per specifications and as directed by the Engineer.	Sft.	91,240		

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Section C - Reinforcement

Ref Specs: 2200

- C-C-01 Providing, fabricating and fixing of deformed steel reinforcement bars of minimum 60,000 Psi yield strength at any floor and any shape as per drawings and instructions of the Engineer including the cost of cutting, bending, placing, and fixing in position, all laps, chairs, spacers, binding wires, supports, hooks, and all other accessories as per drawings and specifications and as directed by the Engineer.

b Building Reinforcement

(i)	Basement -6 upto slab level -51'-0"	M.Ton	1,638
(ii)	Basement -5 upto slab level -40'-6"	M.Ton	388
(iii)	Basement -4 upto slab level -30'-0"	M.Ton	380
(iv)	Basement -3 upto slab level -19'-6"	M.Ton	380
(v)	Basement -2 upto slab level -9'-0"	M.Ton	373
(vi)	Basement -1 upto slab level +4'-0"	M.Ton	430
(vii)	Upto Ground Floor slab level +18'-0"	M.Ton	214
(viii)	Upto 1st Floor slab level +32'-0"	M.Ton	213
(ix)	Upto 2nd Floor slab level +46'-0"	M.Ton	216
(x)	Upto 3rd Floor slab level +60'-0"	M.Ton	208
(xi)	Upto 4th Floor slab level +74'-0"	M.Ton	206
(xii)	Upto 5th Floor slab level +88'-0"	M.Ton	206
(xiii)	Upto 6th Floor slab level +102'-0"	M.Ton	208
(xiv)	Upto 7th Floor slab level +116'-0"	M.Ton	202
(xv)	Upto 8th Floor slab level +130'-0"	M.Ton	196
(xvi)	Upto 9th Floor slab level +144'-0"	M.Ton	196
(xvii)	Upto 10th Floor slab level +158'-0"	M.Ton	201
(xviii)	Upto 11th Floor slab level +172'-0"	M.Ton	196
(xix)	Upto 12th Floor slab level +186'-0"	M.Ton	196
(xx)	Upto 13th Floor slab level +200'-0"	M.Ton	196
(xxi)	Upto 14th Floor slab level +214'-0"	M.Ton	210
(xxii)	Upto 15th Floor slab level +234'-0"	M.Ton	284
(xxiii)	Upto 16th Floor slab level +248'-0"	M.Ton	190
(xxiv)	Upto 17th Floor slab level +262'-0"	M.Ton	190
(xxv)	Upto 18th Floor slab level +276'-0"	M.Ton	190
(xxvi)	Upto 19th Floor slab level +290'-0"	M.Ton	190
(xxvii)	Upto 20th Floor slab level +304'-0"	M.Ton	190
(xxviii)	Upto 21th Floor slab level +318'-0"	M.Ton	190
(xxix)	Upto 22th Floor slab level +332'-0"	M.Ton	190
(xxx)	Upto 23th Floor slab level +346'-0"	M.Ton	190
(xxxi)	Upto 24th Floor slab level +360'-0"	M.Ton	191
(xxxii)	Upto 25th Floor slab level +374'-0"	M.Ton	219
(xxxiii)	Upto 26th Floor slab level +386'-0"	M.Ton	113
(xxxiv)	Upto 27th Floor slab level +412'-0"	M.Ton	39

Section D - Plain & Reinforced Concrete

Ref Specs: 2100, 2200, 2300

- C-D-01 Providing and laying Plain Cement Concrete (1:4:8 1200 Psi cylinder) under raft/foundations, walls, plinth beams, steps etc., including leveling, compacting, curing etc., complete in all respects. Cft 20,895
- C-D-02 Providing and laying Concrete (1:3:6 1500 Psi cylinder) in foundations, steps, under floors, ramps etc., including leveling, compacting, curing etc. at any floor and any height as approved and directed by the Engineer. complete in all respects.
- (a) Plain Cement Concrete (1:3:6, 1500 Psi cylinder) under raft/foundations Cft 13,805

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(i)	(ii)	(iii)	(iv)	(v)	(vi)
	(b) Plain Cement Concrete (1:3:6 ,1500 Psi cylinder) in steps, under floors & in ramps etc	Cft	5,280		
C-D-03	Providing and laying plan cement Concrete (1:2:4, 2400 Psi cylinder) in ramps, steps, floors etc including leveling, finishing, compacting, curing etc.at any floor and any height as approved and directed by the Engineer. complete in all respects.	Cft	5,140		
C-D-04	Providing, laying, compacting and curing pre-mixed Cement Concrete of specified 28 days' cylinder strength (3000 Psi) by using Ordinary Portland Cement of specified ratio including screening, washing of aggregate, mixing of constituents by using batching plant, transported by transit mixer and pouring with pumps, with specified consistency including shuttering/ formwork, compaction with vibrator, admixture Sika or equivalent, at any floor and any height as approved and directed by the Engineer.				
	i) RCC Planter (3,000 Psi cylinder)	Cft	495		
C-D-04	Providing, laying, compacting and curing pre-mixed Cement Concrete of specified 28 days' cylinder strength by using Ordinary Portland Cement of specified ratio including screening, washing of aggregate, mixing of constituents by using batching plant, transported by transit mixer and pouring with pumps, with specified consistency including shuttering/ formwork, compaction with vibrator, admixture Sika or equivalent, at any floor and any height as approved and directed by the Engineer.				
	a) Raft/Foundations using crystalline based waterproofing / shrinkage compensating concrete admixture for watertight concrete system (5,000 Psi cylinder)	Cft	545,270		
	b) Retaining Walls & Columns in retaining walls using crystalline based waterproofing / shrinkage compensating concrete admixture for admixture for watertight concrete system(5,000 Psi cylinder)				
	(i) Basement -6 upto slab level -51'-0"	Cft	17,665		
	(ii) Basement -5 upto slab level -40'-6"	Cft	17,255		
	(iii) Basement -4 upto slab level -30'-0"	Cft	14,555		
	(iv) Basement -3 upto slab level -19'-6"	Cft	14,555		
	(v) Basement -2 upto slab level -9'-0"	Cft	11,860		
	(vi) Basement -1 upto slab level +4'-0"	Cft	13,295		
	c) Shear Walls (7,000 Psi cylinder)				
	(i) Basement -6 upto slab level -51'-0"	Cft	15,395		
	(ii) Basement -5 upto slab level -40'-6"	Cft	10,165		
	(iii) Basement -4 upto slab level -30'-0"	Cft	10,165		
	(iv) Basement -3 upto slab level -19'-6"	Cft	10,165		
	(v) Basement -2 upto slab level -9'-0"	Cft	10,165		
	(vi) Basement -1 upto slab level +4'-0"	Cft	12,695		
	(vii) Upto Ground Floor slab level +18'-0"	Cft	13,730		
	(viii) Upto 1st Floor slab level +32'-0"	Cft	13,730		
	(ix) Upto 2nd Floor slab level +46'-0"	Cft	13,730		
	(x) Upto 3rd Floor slab level +60'-0"	Cft	13,730		
	(xi) Upto 4th Floor slab level +74'-0"	Cft	13,730		
	(xii) Upto 5th Floor slab level +88'-0"	Cft	13,730		
	(xiii) Upto 6th Floor slab level +102'-0"	Cft	13,730		

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(i)	(ii)	(iii)	(iv)	(v)	(vi)
c-1)	Shear Walls (6,000 Psi cylinder)				
(xiv)	Upto 7th Floor slab level +116'-0"	Cft	13,730		
(xv)	Upto 8th Floor slab level +130'-0"	Cft	13,730		
(xvi)	Upto 9th Floor slab level +144'-0"	Cft	13,730		
(xvii)	Upto 10th Floor slab level +158'-0"	Cft	13,730		
(xviii)	Upto 11th Floor slab level +172'-0"	Cft	13,730		
(xix)	Upto 12th Floor slab level +186'-0"	Cft	13,730		
(xx)	Upto 13th Floor slab level +200'-0"	Cft	13,730		
(xxi)	Upto 14th Floor slab level +214'-0"	Cft	13,730		
(xxii)	Upto 15th Floor slab level +234'-0"	Cft	19,920		
(xxiii)	Upto 16th Floor slab level +248'-0"	Cft	13,730		
(xxiv)	Upto 17th Floor slab level +262'-0"	Cft	13,730		
(xxv)	Upto 18th Floor slab level +276'-0"	Cft	13,730		
(xxvi)	Upto 19th Floor slab level +290'-0"	Cft	13,730		
(xxvii)	Upto 20th Floor slab level +304'-0"	Cft	13,730		
(xxviii)	Upto 21th Floor slab level +318'-0"	Cft	13,730		
(xxix)	Upto 22th Floor slab level +332'-0"	Cft	13,730		
(xxx)	Upto 23th Floor slab level +346'-0"	Cft	13,730		
(xxxi)	Upto 24th Floor slab level +360'-0"	Cft	13,730		
(xxxii)	Upto 25th Floor slab level +374'-0"	Cft	13,730		
(xxxiii)	Upto 26th Floor slab level +386'-0"	Cft	10,460		
(xxxiv)	Upto 27th Floor slab level +412'-0"	Cft	3,440		
d)	Columns (7,000 Psi cylinder)				
(i)	Basement -6 upto slab level -51'-0"	Cft	9,170		
(ii)	Basement -5 upto slab level -40'-6"	Cft	9,170		
(iii)	Basement -4 upto slab level -30'-0"	Cft	9,170		
(iv)	Basement -3 upto slab level -19'-6"	Cft	9,170		
(v)	Basement -2 upto slab level -9'-0"	Cft	9,170		
(vi)	Basement -1 upto slab level +4'-0"	Cft	12,570		
(vii)	Upto Ground Floor slab level +18'-0"	Cft	8,880		
(viii)	Upto 1st Floor slab level +32'-0"	Cft	8,880		
(ix)	Upto 2nd Floor slab level +46'-0"	Cft	8,670		
(x)	Upto 3rd Floor slab level +60'-0"	Cft	8,395		
(xi)	Upto 4th Floor slab level +74'-0"	Cft	8,395		
(xii)	Upto 5th Floor slab level +88'-0"	Cft	8,395		
(xiii)	Upto 6th Floor slab level +102'-0"	Cft	8,395		
d-1)	Columns (6,000 Psi cylinder)				
(xiv)	Upto 7th Floor slab level +116'-0"	Cft	8,395		
(xv)	Upto 8th Floor slab level +130'-0"	Cft	7,495		
(xvi)	Upto 9th Floor slab level +144'-0"	Cft	7,495		
(xvii)	Upto 10th Floor slab level +158'-0"	Cft	7,495		
(xviii)	Upto 11th Floor slab level +172'-0"	Cft	7,495		
(xix)	Upto 12th Floor slab level +186'-0"	Cft	7,495		
(xx)	Upto 13th Floor slab level +200'-0"	Cft	7,495		
(xxi)	Upto 14th Floor slab level +214'-0"	Cft	7,495		
(xxii)	Upto 15th Floor slab level +234'-0"	Cft	10,845		
(xxiii)	Upto 16th Floor slab level +248'-0"	Cft	6,595		
(xxiv)	Upto 17th Floor slab level +262'-0"	Cft	6,595		
(xxv)	Upto 18th Floor slab level +276'-0"	Cft	6,595		
(xxvi)	Upto 19th Floor slab level +290'-0"	Cft	6,595		
(xxvii)	Upto 20th Floor slab level +304'-0"	Cft	6,595		
(xxviii)	Upto 21th Floor slab level +318'-0"	Cft	6,595		
(xxix)	Upto 22th Floor slab level +332'-0"	Cft	6,595		
(xxx)	Upto 23th Floor slab level +346'-0"	Cft	6,595		
(xxxi)	Upto 24th Floor slab level +360'-0"	Cft	6,595		
(xxxii)	Upto 25th Floor slab level +374'-0"	Cft	6,595		
(xxxiii)	Upto 26th Floor slab level +386'-0"	Cft	1,270		
(xxxiv)	Upto 27th Floor slab level +412'-0"	Cft	1,515		

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Item No.	Item Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
(i)	(ii)	(iii)	(iv)	(v)	(vi)
e) Slabs ,Beams, Ribs, Lintels, Ramp,Parapet, Finns & Shelves (5,000 Psi cylinder)					
(i)	Basement -6 upto slablevel -51'-0"	Cft	67,005		
(ii)	Basement -5 upto slab level -40'-6"	Cft	69,135		
(iii)	Basement -4 upto slab level -30'-0"	Cft	69,030		
(iv)	Basement -3 upto slab level -19'-6"	Cft	69,030		
(v)	Basement -2 upto slab level -9'-0"	Cft	66,335		
(vi)	Basement -1 upto slab level +4'-0"	Cft	63,890		
(vii)	Upto Ground Floor slab level +18'-0"	Cft	25,120		
(viii)	Upto 1st Floor slab level +32'-0"	Cft	25,005		
(ix)	Upto 2nd Floor slab level +46'-0"	Cft	26,235		
(x)	Upto 3rd Floor slab level +60'-0"	Cft	24,755		
(xi)	Upto 4th Floor slab level +74'-0"	Cft	24,150		
(xii)	Upto 5th Floor slab level +88'-0"	Cft	24,075		
(xiii)	Upto 6th Floor slab level +102'-0"	Cft	25,055		
e-1) Slabs ,Beams,Ribs, Lintels, Ramp, Parapet, Finns & Shelves (4,000 Psi cylinder)					
(xiv)	Upto 7th Floor slab level +116'-0"	Cft	23,525		
(xv)	Upto 8th Floor slab level +130'-0"	Cft	23,460		
(xvi)	Upto 9th Floor slab level +144'-0"	Cft	23,410		
(xvii)	Upto 10th Floor slab level +158'-0"	Cft	24,780		
(xviii)	Upto 11th Floor slab level +172'-0"	Cft	23,295		
(xix)	Upto 12th Floor slab level +186'-0"	Cft	23,235		
(xx)	Upto 13th Floor slab level +200'-0"	Cft	23,215		
(xxi)	Upto 14th Floor slab level +214'-0"	Cft	25,920		
(xxii)	Upto 15th Floor slab level +234'-0"	Cft	25,710		
(xxiii)	Upto 16th Floor slab level +248'-0"	Cft	23,245		
(xxiv)	Upto 17th Floor slab level +262'-0"	Cft	23,245		
(xxv)	Upto 18th Floor slab level +276'-0"	Cft	23,245		
(xxvi)	Upto 19th Floor slab level +290'-0"	Cft	23,250		
(xxvii)	Upto 20th Floor slab level +304'-0"	Cft	23,250		
(xxviii)	Upto 21th Floor slab level +318'-0"	Cft	23,275		
(xxix)	Upto 22th Floor slab level +332'-0"	Cft	23,315		
(xxx)	Upto 23th Floor slab level +346'-0"	Cft	23,385		
(xxxi)	Upto 24th Floor slab level +360'-0"	Cft	23,750		
(xxxii)	Upto 25th Floor slab level +374'-0"	Cft	21,670		
(xxxiii)	Upto 26th Floor slab level +386'-0"	Cft	9,590		
(xxxiv)	Upto 27th Floor slab level +412'-0"	Cft	3,945		
e-2) Waffle Slabs ,Beams Ribs, (4,000 Psi cylinder)					
(i)	Upto 25th Floor slab level +374'-0"	Cft	6,055		
f) Stairs (5,000 Psi cylinder)					
(i)	Basement -6 upto slablevel -51'-0"	Cft	495		
(ii)	Basement -5 upto slab level -40'-6"	Cft	495		
(iii)	Basement -4 upto slab level -30'-0"	Cft	495		
(iv)	Basement -3 upto slab level -19'-6"	Cft	495		
(v)	Basement -2 upto slab level -9'-0"	Cft	495		
(vi)	Basement -1 upto slab level +4'-0"	Cft	550		
(vii)	Upto Ground Floor slab level +18'-0"	Cft	690		
(viii)	Upto 1st Floor slab level +32'-0"	Cft	615		
(ix)	Upto 2nd Floor slab level +46'-0"	Cft	615		
(x)	Upto 3rd Floor slab level +60'-0"	Cft	615		
(xi)	Upto 4th Floor slab level +74'-0"	Cft	615		
(xii)	Upto 5th Floor slab level +88'-0"	Cft	615		
(xiii)	Upto 6th Floor slab level +102'-0"	Cft	615		

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(i)	(ii)	(iii)	(iv)	(v)	(vi)
f-1)	Stairs (4,000 Psi cylinder)				
(xiv)	Upto 7th Floor slab level +116'-0"	Cft	615		
(xv)	Upto 8th Floor slab level +130'-0"	Cft	615		
(xvi)	Upto 9th Floor slab level +144'-0"	Cft	615		
(xvii)	Upto 10th Floor slab level +158'-0"	Cft	615		
(xviii)	Upto 11th Floor slab level +172'-0"	Cft	615		
(xix)	Upto 12th Floor slab level +186'-0"	Cft	615		
(xx)	Upto 13th Floor slab level +200'-0"	Cft	615		
(xxi)	Upto 14th Floor slab level +214'-0"	Cft	615		
(xxii)	Upto 15th Floor slab level +234'-0"	Cft	655		
(xxiii)	Upto 16th Floor slab level +248'-0"	Cft	615		
(xxiv)	Upto 17th Floor slab level +262'-0"	Cft	615		
(xxv)	Upto 18th Floor slab level +276'-0"	Cft	615		
(xxvi)	Upto 19th Floor slab level +290'-0"	Cft	615		
(xxvii)	Upto 20th Floor slab level +304'-0"	Cft	615		
(xxviii)	Upto 21th Floor slab level +318'-0"	Cft	615		
(xxix)	Upto 22th Floor slab level +332'-0"	Cft	615		
(xxx)	Upto 23th Floor slab level +346'-0"	Cft	615		
(xxxi)	Upto 24th Floor slab level +360'-0"	Cft	615		
(xxxii)	Upto 25th Floor slab level +374'-0"	Cft	350		
g)	Under Ground Water Tanks using high quality water resisting and crystalline waterproofing concrete admixture for watertight concrete system(5,000 Psi cylinder)				
(i)	Tank Bottom & Top Slabs in Basement -1 level +4'-0"	Cft	4,910		
(ii)	Tank Walls in Basement -1 level +4'-0"	Cft	1,310		
h)	Over Head Water Tanks using high quality water resisting and crystalline waterproofing concrete admixture for watertight concrete system(4,000 Psi cylinder)				
(i)	Tank Bottom & Top Slabs in 15th Floor slab level +234'-0"	Cft	7,100		
(ii)	Tank Walls in 15th Floor slab level +234'-0"	Cft	2,500		
(iii)	Tank Bottom & Top Slabs in 26th Floor slab level +386'-0"	Cft	6,895		
(iv)	Tank Walls in 26th Floor slab level +386'-0"	Cft	1,410		

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(i)	(ii)	(iii)	(iv)	(v)	(vi)
Section E-Pile Works					
Ref Specs: 1100, 2100, 2200, 2300					
C-E-01	Boring with temporary casing in gravely subsoil for 3'-3" diameter pile. (Rotary Auger Bucket with Bentonite slurry)	Rft	67,390		
C-E-02	Pile Load test using hydraulic Jack system (700-1000) Tonne (Only Kentlage Load test charges)	Job	2		
C-E-03	Pile Load test using hydraulic Jack system (1,000-1,500) Tonne (Only Kentlage Load test charges)	Job	2		
C-E-04	Providing and laying Reinforced Cement Concrete having a minimum cylinder crushing strength of 4000 psi for bore piles by tremie pipe, using weigh batch, using approved admixture excluding the cost of reinforcement, complete in all respect.	Cft	559,140		
C-E-05	Providing ,fabricating and fixing of deformed steel reinforcement bars of minimum 60,000 Psi yield strength at any floor and any shape as per drawings and instructions of the Engineer including the cost of cutting, bending, placing, and fixing in position , all laps, chairs, spacers, binding wires, supports, hooks, and all other accessories as per drawings and specifications and as directed by the Engineer.				
a	Piles Reinforcement upto required depth	M.Ton	1,522		
Section F- Water Proofing					
Ref Specs: 6411					
C-F-01	Providing and fixing of water stop (Thermoplastic swellable waterstopper (1"x2") at every Construction Joints in walls & raft as shown on drawings and to be applied as per manufacturer's recommendations through manufacturer's authorized applicator, including all accessories required for carrying out the work, complete in all respect.	Rft	16,910		
C-F-02	Providing and applying crystalline Waterproofing slurry @ 1.5 KG/SQM on internal surface of RCC walls / columns / beams as well as on top and side of piles which is embeded into pile cap (as shown on drawings) and to be applied as per manufacturer's recommendations through manufacturer's authorized applicator, including all accessories required for carrying out the work, complete in all respect.	Sft	147,830		
C-F-03	Providing and applying crystalline Waterproofing slurry @ 1.0 KG/SQM on Construction Joints in Raft as well as on top and side of piles which is embeded into pile cap (as shown on drawings) and to be applied as per manufacturer's recommendations through manufacturer's authorized applicator, including all accessories required for carrying out the work, complete in all respect.	Sft	7,650		
C-F-04	Providing and applying 6" wide Joint Tape at outer walls construction joints with highly flexible cementitious coating (as shown on drawings) to be applied as per manufacturer's recommendations through manufacturer's authorized applicator, including all accessories required for carrying out the work, complete in all respect.	Rft	16,910		

BILL NO. 1.B: CIVIL WORKS (STRUCTURAL CONCRETE WORKS)**BILL OF QUANTITIES**

Item No.	Item Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
(i)	(ii)	(iii)	(iv)	(v)	(vi)
C-F-05	Providing and applying Polymer Modified High Flexible Cementitious waterproofing coating @ 3.5 KG/SQM with primer, underneath RCC footing (as shown on drawings) and to be applied as per manufacturer's recommendations through manufacturer's authorized applicator, including all accessories required for carrying out the work, complete in all respect.	Sft	82,840		
C-F-06	Providing and applying Polymer Modified High Flexible Cementitious waterproofing coating @ 4 KG/SQM with primer on external surface of RCC walls (as shown on drawings) and to be applied as per manufacturer's recommendations through manufacturer's authorized applicator, including all accessories required for carrying out the work, complete in all respect.	Sft	79,535		
C-F-07	Application of Water Proofing coating on internal surfaces of the water tanks using Non-Toxic chemical to internal face of water tank, as per manufacturer's recommendation Complete in all respect and as approved by The Engineer. (In Tanks)	Sft	17,190		
C-F-08	Providing and fixing of polyvinyl chloride (PVC) water stopper 8" wide, 10mm thick installed in the center of x-section of the concrete structure joint of retaining walls and water tanks complete in all respects as per drawings and/ or as directed by the Engineer.	Rft	940		
Section-G Dewatering System					
Ref Specs: 1100					
C-G-01	Providing, installation, operation and maintenance of dewatering system by boring required number of tube wells, furnishing all plant/equipment, pumps, labors, fuel, electricity, suction and delivery water pipes, drains etc. to keep the water table below foundation during the entire construction period of building sub structure by pumping out water caused due to high water table, springs, broken water mains/drains or any other source/seepage, complete in all respects, including submission of design and methodology to the Engineer for review and approval. The work will include but not limited to the following: The Contractor shall make proper arrangement on its own including drilling/installation of sufficient number of tube wells, equipment, material and labour for disposal of water in proper drain and all permission (if required) shall be taken by The Contractor. The Contractor shall arrange to have The entire dewatering system designed in detail, installed, maintained and operated by qualified and experienced personnel throughout The course of The work. The dewatering system shall be designed to operate on a continuous basis so as to keep The water table below foundation level during The building sub-structure works. Any permission or work required for The Identification and Plugging of water source shall be deemed to have been included in The Contractor's scope of work. The Contractor shall arrange dispersal of water by its own sources and shall also take necessary approvals/ clearances from The concerned authorities prior to commencement of dewatering. Removal of all dewatering system from site upon completion of Works including mobilization & demobilization of all dewatering equipment to/ from site, complete in all respects and as directed by The Engineer.	Job	1		

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Item No.	Item Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
(i)	(ii)	(iii)	(iv)	(v)	(vi)
Section-H Structural Steel Works					
Ref Specs: 3000, 6700					
C-H-01	Providing, fabricating, and fixing in position M.S. structural steel sections (6"x6"x1/4" and 3"x3"x1/8") including wire mesh as per the design shown in the drawings, and as directed by the Engineer. The work includes cutting, welding, applying phosphate primer to all steel elements for corrosion protection, and painting with approved colour. The structure comprises M.S. girders/beams, columns, M.S. box pipes, MS Stair, base plates, fixing plates, stiffeners, expansion bolts, anchor bolts, and all other necessary accessories, complete in all respects. (Heliport).	Kg	28,750		
C-H-02	Providing, cutting, welding, and fixing in position M.S. steel drain grating as per the design shown on the drawing, including application of red oxide primer and enamel paint, complete in all respects.	Kg	2,000		
Section-I Dismantling					
C-I-01	Dismantling and removing the existing boundary wall, gates, foundations, and all existing building structures, including masonry, reinforced concrete, steel members, plaster, finishes, and fixtures, complete in all respects as per drawings/specifications and instructions of the Engineer. The work shall include cutting, breaking, dismantling, loading, transportation, and disposal of unserviceable/surplus material to approved dumping locations, while serviceable materials shall be carefully stacked at designated locations as directed by the Engineer. The contractor shall ensure protection of adjoining structures, utilities, pavements, and services during dismantling operations, including provision of all necessary safety measures, barricading, labor, tools, plants, scaffolding, and equipment required for proper execution of the work, complete in all respects."	Job	1		
				Total Amount Rs. =	