

M/S. RAFI INTERNATIONAL

Priced Bill of Quantities (BOQ)



Unit Rate Basis

Estimate by the Procuring Entity

Item No.	Group	Item Code (If any)	Description of Items of Works (specifications preferably built-in)	Unit	Quantity	Unit rates or prices (in figures) (BDT)	Unit rates or prices (in words) (BDT)	Amount (in figure) (BDT)	Amount (in words) (BDT)	I have seen
1	N/A	N/A	Mobilization and cleaning site before commencing actual physical work and during contract period and demobilization after completion of the works under contract to be accepted by the Engineer-in-charge. This work shall also cover cleaning and clearing, cutting or filling, dressing the project area on and in the ground to an extent that all the events of works of the project can be executed smoothly in a working environment with a particular attention on safety and security in all respects, and to stockpile the end outcome to a place for disposal agreed by the Engineer-in-charge, where, payments are to be based on ground area determined by the Engineer-in-charge and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the Engineer-in-charge.	Sqm	243.000	218.001	Two Hundred and Eighteen point Zero Zero One	52974.243	Fifty-Two Thousand Nine Hundred and Seventy-Four point Two Four Three	I have seen
2	N/A	N/A	Engineer's site office of minimum 10 sqm plinth area with providing necessary facilities including office furniture, consumables, stationeries etc.	Job	1.000	50308.001	Fifty Thousand Three Hundred and Eight point Zero Zero One	50308.001	Fifty Thousand Three Hundred and Eight point Zero Zero One	I have seen
3	N/A	N/A	"Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, levelling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all	Sqm	243.000	19.001	Nineteen point Zero Zero One	4617.243	Four Thousand Six Hundred and Seventeen point Two Four Three	I have seen

			complete and accepted by the Engineer-in-charge, subject to submit method statement of carrying out excavation work to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under the contract. Layout and marking for earthwork in excavation in foundation accepted by the Engineer-in-charge. [Plinth area of the structure shall be considered for measurement]"							
4	N/A	N/A	"Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead "	Cum	239.660	168.001	One Hundred and Sixty-Eight point Zero Zero One	40263.120	Forty Thousand Two Hundred and Sixty-Three point One Two	I have seen
5	N/A	N/A	Earth filling in foundation trenches and plinth in 150 mm layer with earth available within 90 m of the building site to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) including carrying watering, leveling, dressing and compacting to a specified percentage each layer up to finished level etc. all complete and accepted by Engineer-in-charge.	Cum	79.090	207.001	Two Hundred and Seven point Zero Zero One	16371.709	Sixteen Thousand Three Hundred and Seventy-One point Seven Zero Nine	I have seen
6	N/A	N/A	Cleaning and disposing of excavated earth from the construction site by truck or by any other means to a place within 30 km radius of the city or town area including loading & unloading at both ends, leveling and dressing the carried earth etc. complete and accepted by the Engineer-in-charge.	Cum	160.570	756.001	Seven Hundred and Fifty-Six point Zero Zero One	121391.081	One Lakh Twenty-One Thousand Three Hundred and Ninety-One point Zero Eight One	I have seen
7	N/A	N/A	Bailing out of trapped water caused by inundation or rain, by pump from foundation trenches.	Hour	180.000	474.001	Four Hundred and Seventy-Four point Zero Zero One	85320.180	Eighty-Five Thousand Three Hundred and Twenty point One Eight	I have seen
8	N/A	N/A	Supplying of wooden ballah having an average diameter not less than 150 mm (without barks) at one third distance from larger end with a minimum end diameter of 100 mm for retaining purpose and driving to a depth as per	Rm	486.000	604.001	Six Hundred and Four point Zero Zero One	293544.486	Two Lakh Ninety-Three Thousand Five Hundred and Forty-Four point	I have seen

			method including all arrangement for staging, hoisting, carrying etc. complete and accepted by the Engineer-in-charge.						Four Eight Six	
9	N/A	N/A	Palisading work by supplying of bitumen drum sheet walling tied with 20 BWG G.I. wire fixing the same with already driven borak bamboo posts with half split borak bamboo runners @ 450mm c/c horizontally with iron nails, G.I wire etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of bamboo post).	Sqm	121.500	613.001	Six Hundred and Thirteen point Zero Zero One	74479.622	Seventy-Four Thousand Four Hundred and Seventy-Nine point Six Two Two	I have seen
10	N/A	N/A	Supply of 2 mm thick best quality geo-textile from approved manufacturer/origin and laying as per manufacturer's instructions approved and accepted by the Engineer-in-charge. Before commencement of laying of geo-textile, the contractor must submit the method statement for carrying out this work including sample with evidence of origin and compliance certificate from independent testing laboratory for approval.	Sqm	243.000	1043.001	One Thousand AND Forty-Three point Zero Zero One	253449.243	Two Lakh Fifty-Three Thousand Four Hundred and Forty-Nine point Two Four Three	I have seen
11	N/A	N/A	One layer brick flat soling in foundation or in floor with first class/picked jhama bricks (BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge	Sqm	331.920	518.001	Five Hundred and Eighteen point Zero Zero One	171934.892	One Lakh Seventy-One Thousand Nine Hundred and Thirty-Four point Eight Nine Two	I have seen
12	N/A	N/A	Mass concrete (1:2:4) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II/B-M) Mass concrete in foundation (1:2:4) with brick chips and local sand of F.M. 1.2.	Cum	6.669	8886.001	Eight Thousand Eight Hundred and Eighty-Six point Zero Zero One	59260.741	Fifty-Nine Thousand Two Hundred and Sixty point Seven Four One	I have seen
13	N/A	N/A	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.5 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95%	Cum	145.800	1088.001	One Thousand AND Eighty-Eight point Zero Zero One	158630.546	One Lakh Fifty-Eight Thousand Six Hundred and Thirty	I have seen

			with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.						point Five Four Six	
14	N/A	N/A	"RCC WORKS : 1:1.25:2.5 (measured on gross concrete section) (f_c = 32 MPa, minimum f_{cr} = 40.5 MPa in nominal mix 1 : 1.25 : 2.5)With Stone Chips and Admixture (Type-G) (100% sand of F.M. 2.2)Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.25:2.5 having maximum water cement ratio = 0.40 and minimum f_{cr} = 40.5 MPa, satisfying a specified compressive strength f_c = 32 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa)/ ASTM-C 150 Type ? I, and adding approved high range water reducing admixture of complying specific type (generally be Type-G) under ASTM-C 494, best quality coarse sand [Sylhet sand or coarse sand of equivalent F.M. 2.2], 20 mm down well graded crushed stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), including conducting necessary tests, screening sand through proper sieves, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper and fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Doses of admixture to be fixed in consultation with design office) (Rate is excluding laboratory test fees, the cost of reinforcement and	Cum	17.160	14143.001	Fourteen Thousand One Hundred and Forty- Three point Zero Zero One	242693.897	Two Lakh Forty-Two Thousand Six Hundred and Ninety- Three point Eight Nine Seven	I have seen

			etc. and the cost of shuttering & centering). Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level"							
15	N/A	N/A	Padestal, column, column capital, lift wall and RCC wall up to ground floor	Cum	19.329	14503.001	Fourteen Thousand Five Hundred and Three point Zero Zero One	280328.506	Two Lakh Eighty Thousand Three Hundred and Twenty-Eight point Five Zero Six	I have seen
16	N/A	N/A	Floor / roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and steps etc. up to ground floor	Cum	39.487	14287.001	Fourteen Thousand Two Hundred and Eighty-Seven point Zero Zero One	564150.808	Five Lakh Sixty-Four Thousand One Hundred and Fifty point Eight Zero Eight	I have seen
17	N/A	N/A	FORM WORK (Steel) Centering and shuttering, including strutting, propping etc. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets of minimum 16 BWG, angles of minimum size 40 mm x 40 mm x 5 mm, flat bars etc.) and removal of form for: Individual and combined footing	Sqm	40.320	582.001	Five Hundred and Eighty-Two point Zero Zero One	23466.280	Twenty-Three Thousand Four Hundred and Sixty-Six point Two Eight	I have seen
18	N/A	N/A	Foundation beam	Sqm	60.750	493.001	Four Hundred and Ninety-Three point Zero Zero One	29949.811	Twenty-Nine Thousand Nine Hundred and Forty-Nine point Eight One One	I have seen
19	N/A	N/A	Pedestal, column, column capital, lift wall and wall up to ground floor	Sqm	289.660	522.001	Five Hundred and Twenty-Two point Zero Zero One	151202.810	One Lakh Fifty-One Thousand Two Hundred and Two point Eight One	I have seen
20	N/A	N/A	T-beam, L-beam and rectangular beam etc up to ground floor	Sqm	67.260	574.001	Five Hundred and Seventy-Four point Zero Zero One	38607.307	Thirty-Eight Thousand Six Hundred and Seven point	I have seen

									Three Zero Seven	
21	N/A	N/A	In raft/mat/floor slab up to plinth level	Sqm	283.500	587.001	Five Hundred and Eighty-Seven point Zero Zero One	166414.784	One Lakh Sixty-Six Thousand Four Hundred and Fourteen point Seven Eight Four	I have seen
22	N/A	N/A	Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, fy (ReH)= 400 MPa but fy not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor.	Kg	8955.580	120.001	One Hundred and Twenty point Zero Zero One	1074678.556	Ten Lakh Seventy-Four Thousand Six Hundred and Seventy-Eight point Five Five Six	I have seen
23	N/A	N/A	Brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:6) in foundation and plinth, filling the joints/interstices fully with mortar, racking out the joints, cleaning and soaking the bricks at least for 24 hours before use and curing at least for 7 days etc. all complete including cost of water, electricity and other charges and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	Cum	21.262	7529.001	Seven Thousand Five Hundred and Twenty-Nine point Zero Zero One	160081.619	One Lakh Sixty Thousand AND Eighty-One point Six One Nine	I have seen
24	N/A	N/A	Brick works of width one brick or one and a half brick length of first class bricks with cement sand (F.M. 1.2) mortar (1:6) in superstructure including raking out joints, filling the interstices with mortar, cleaning and soaking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	Cum	1.575	8174.001	Eight Thousand One Hundred and Seventy-Four point Zero Zero One	12874.052	Twelve Thousand Eight Hundred and Seventy-Four point Zero Five Two	I have seen

25	N/A	N/A	Exposed 125 mm thick pointing ornamental brick work with automatic machine made first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	Sqm	189.000	1448.001	One Thousand Four Hundred and Forty-Eight point Zero Zero One	273672.189	Two Lakh Seventy-Three Thousand Six Hundred and Seventy-Two point One Eight Nine	I have seen
26	N/A	N/A	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:6) having with fresh cement to both inner and outer surface of wall, finishing the edges and corners including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor.	Sqm	340.200	291.001	Two Hundred and Ninety-One point Zero Zero One	98998.540	Ninety-Eight Thousand Nine Hundred and Ninety-Eight point Five Four	I have seen
27	N/A	N/A	Exterior premium acrylic emulsion paint of approved best quality and color with high performance against dirt picking tendency and efflorescence resistance properties along with water resisting properties and resistance properties against fungi, fading and flaking from authorized local agent of the manufacturer in a sealed container; applying to exterior surface with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary exterior sealer of specified brand on prepared surface; then applying necessary exterior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and	Sqm	170.100	298.001	Two Hundred and Ninety-Eight point Zero Zero One	50689.970	Fifty Thousand Six Hundred and Eighty-Nine point Nine Seven	I have seen

			accepted by the Engineer-in-charge.							
28	N/A	N/A	Mobilization and demobilization of drop hammer type pre-cast pile driving rig.	Site	1.000	11964.001	Eleven Thousand Nine Hundred and Sixty-Four point Zero Zero One	11964.001	Eleven Thousand Nine Hundred and Sixty-Four point Zero Zero One	I have seen
29	N/A	N/A	Driving 200 mm x 200 mm/ 250 mm x 250 mm size pre-cast pile with drop hammer type rig, and maintaining driving log in prescribed format Before commencing driving operation, contractor shall submit method statement for carrying out the driving operation including sequence of driving to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract.	Rm	285.600	514.001	Five Hundred and Fourteen point Zero Zero One	146798.686	One Lakh Forty-Six Thousand Seven Hundred and Ninety-Eight point Six Eight Six	I have seen
30	N/A	N/A	Supplying, fitting and fixing MS grill fencing as per design and shape with 75 mm x 50 mm MS box with 3mm wall thickness middle rail (horizontal), 50 mm x 25 mm vertical rail with 3mm wall thickness @ approx. 750 mm c/c , 25x25 mm MS box with 2 mm wall thickness horizontally @100mm c/c as per required measurement including cutting grooves in wall up to 150 mm depth and mending good the damages with C.C. (1:1.5:3), finished with anti-corrosive paint (Red-Oxide painting) etc. complete as per drawing and design and accepted by the Engineer.	Sqm	60.750	4626.001	Four Thousand Six Hundred and Twenty-Six point Zero Zero One	281029.561	Two Lakh Eighty-One Thousand AND Twenty-Nine point Five Six One	I have seen
							Grand Total:	4990146.484	Forty-Nine Lakh Ninety Thousand One Hundred and Forty-Six point Four Eight Four	

M/S. RAFI INTERNATIONAL**Tenderer's Quoted Price****Tenderer's Quoted Price**

Total Estimated Cost (BDT)	Percentage (-5% to +5%)	Offered Amount (in figures) (BDT)	Offered Amount (in words) (BDT)
4990146.484	-5.000	4740639.160	Forty-Seven Lakh Forty Thousand Six Hundred and Thirty-Nine point One Six
	Grand Total:	4740639.160	Forty-Seven Lakh Forty Thousand Six Hundred and Thirty-Nine point One Six

This Tenderer's Quoted Price is Electronically Signed by Mr. Md. Islam on behalf of M/S. RAFI INTERNATIONAL