

Scottish Church College

1 & 3 Urquhart Square

Notice for quotation

Ref: Tender Estate/SCC/12/2023-2024 Dated 01-08-2023

Contact: Mr. Shibnath Bhattacharyya (M-9836272199)

Appropriate quotation is invited in sealed cover from eligible bidder/supplier/ vendor for CIVIL WORK at OGILVIE CAMPUS of Scottish Church College.

Item:

BILL OF QUANTITIES FOR PROPOSED RE-CONSTRUCTION OF OGILVIE CAMPUS OF SCOTTISH CHURCH COLLEGE KOLKATA, WEST BENGAL.					
1. CIVIL WORK:-					
Sl. No.	Description	Unit	Quantity	Rate	Amount
1	Dismantling R.C. floor, roof, beams etc. including cutting rods and removing rubbish as directed within a lead of 75 m. including stacking of steel bars.	Cum	5.29		-
2	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m.	Cum	195.70		-
3	Stripping off worn out plaster and raking out joints of walls, ceilings etc. upto any height and in any floor including removing rubbish within a lead of 75m as directed.	Sqm	2369.08		-
4	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge	Cum	248.37		-
5	Hire and labour charges for providing scaffolding including covering with thick plastic sheets best quality to protect the adjoining building from	Sqm	2382.25		-



	splitting of construction material during construction.				
6	Hire and labour charges for stage scaffolding on bamboo frame work for supporting split bamboo frame to form a platform for execution of any type of exterior work upto a height of 20 m. from G.L. as per direction.	Sqm	2382.25		-
7	Labour for taking out door and window frame including shutter for repair or replacement of the frame & refixing the same complete as directed.				-
	Above area 2.5 Sq.m	Sqm	72.59		-
8	Taking out M.S. or W.I. Grills from wooden frame including cutting lugs from masonry/concrete wall as directed.	Each	38.50		-
9	Cleaning the exposed reinforcement preferably upto full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement as per manufacturer's specification]	Sqm	27.50		-
10	Labour for Chipping of concrete surface before taking up Plastering work.	Sqm	635.97		-
11	Applying epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified time as per manufacturers specification. (0.4 Kg / m ² of concrete surface).	Sqm	18.84		-
12	Earth work in excavation of trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item				-



	includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete.				
	(a) Depth of excavation not exceeding 1,500 mm.	Cum	282.77		-
	(b) Depth of excavation for additional depth beyond 1,500 mm. and upto 3,000 mm. but not requiring shoring.	"	70.70		-
13	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)				-
	(a) With earth obtained from excavation of foundation.	Cum.	70.70		-
14	Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity)	Cum.	54.65		-
15	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand (with mortar joint 1:6)	Sq.M.	91.08		-
16	40 mm. thick damp proof course with cement concrete (1:1.5:3) (with graded stone chips 20 mm nominal size) with water proofing compound of approved brand @ 0.2% weight of cement including cost of materials over two coats of non toxic acrylic polymer modified cementitious waterproofing slurry coat complete [cost of water proofing compound and non toxic paint to be paid seperately) for underground water retaining structures.[water proofing as per item no 9 and non toxic paint as per item no. 8 (b) of subhead C of Section 'C']	Sq.M.	14.71		-



17	Pre-Constructional Anti-termite measures:				-
	(c) Anti termite treatment to the top surface of the consolidated earth within plinth walls with chemical emulsion by admixing Imidacloprid emulsifiable concentrates (105ml in 50 litres) with water at the rate of 5 Litres per sq.m. Of the surface before sand bed or sub-grade is laid. Hole upto 50mm to 75 mm deep at 150 mm. centre to centre both ways shall be made with 12mm, diametre mild steel rod on the surfaces to facilitate saturation of the soil with the chemical emulsion. The work shall be carried out as per specification described in 7.2.3. of code IS-6313 (part- II) 2013. (Mode of measurement will be plan area of plinth treated.)	Sq.M.	91.08		-
18	Cement concrete with graded stone ballast (40 mm size excluding shuttering)				-
	In ground floor				-
	(A) [Pakur Variety]				-
	(a) 1:3:6 proportion	Cum	9.19		-
19	Brick work with 1st class bricks in cement mortar (1:4)				-
	In foundation and plinth	Cu.M.	10.68		-
20	Brick work with 1st class bricks in cement mortar (1:6)				-
	(a) In superstructure, ground floor	Cu.M.	36.86		-
	(b) First floor	"	44.22		-
	(c) Second floor	"	73.92		-
	(d) Third floor	"	76.84		-
	(e) Roof	"	42.14		-



21	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in (a) ground floor.	Sq.M.	88.24		-
	(b) First floor	"	244.08		-
	(c) Second floor	"	182.23		-
	(d) Third floor	"	189.24		-
	(e) Roof	"	62.08		-
					-
22	Extra for using approved H.B netting in every third layer in 20.(i) of subhead A above in any floor	Sq.M.	765.88		-
23	Supplying and laying Polythene Sheet (150gm / sq.m.) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches.	Sq. M	91.08		-
24	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (6mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes.				-
	Pakur variety	Cum	13.66		-
25	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface]				-
	(i) With 1:6 cement mortar				-
	(c) 15 mm thick plaster				-
	(a) Ground Floor	Sq.M	321.70		-
	(b) First floor	"	656.51		-
	(c) Second floor	"	438.38		-
	(d) Third floor	"	677.71		-



	(e) Roof	"	168.55		-
					-
	(ii) With 1:4 cement mortar				-
	(a) 20 mm thick plaster				-
	(a) Ground Floor	Sq.M	138.55		-
	(b) First floor	"	161.13		-
	(c) Second floor	"	280.57		-
	(d) Third floor	"	292.01		-
	(e) Roof	"	292.71		-
					-
	(iii) With 1:3 cement mortar				-
	(c) 10 mm thick plaster				-
	(a) Ground Floor	Sq.M	79.63		-
	(b) First floor	"	79.63		-
	(c) Second floor	"	207.80		-
	(d) Third floor	"	207.80		-
	(e) Roof	"	61.11		-
					-
26	Supplying and laying true to line and level Double Charge Vitrified Tiles of approved brand conforming to IS 15622: 2006 (Group B I a) and tested as per IS 13630:2006 (relevant parts) [Non-modular sizes for tiles with Water Absorption (av.) $\leq 0.08\%$] in floor, skirting etc. using polymerised adhesive of 6mm thick layer applied directly over finished artificial stone floor/Mosaic etc without any backing course and joints grouted with admixture of white epoxy grout materials of approved brand including spacer -2mm as directed and removal of wax coating of top surface of tiles with warm water and polishing the				-



	tiles using soft and dry cloth upto mirror finish complete including the cost of materials,labour and all other incidental charges complete as per direction of Engineer in-Charge.				
	(a) In Ground Floor:(size not less than 600mmX 600 mm X 9.5 mm thick)				-
	(a) Ground floor	Sq.M	417.48		-
	(b) First floor	"	474.72		-
	(c) Second floor	"	474.72		-
	(d) Third floor	"	474.72		-
27	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc.				-
	(A) Floor				-
	With Sand Cement Mortar (1:4) 20 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m.				-
	(a) Area of each tile upto 0.09 Sq.m				-
	(i) Coloured decorative				-
	(a) Ground Floor	Sq. M	39.60		-
	(b) First floor	"	39.60		-



	(c) Second floor	"	39.60		-
	(d) Third floor	"	39.60		-
					-
	(B) Wall				-
	With Sand Cement Mortar (1:3) 15 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m.				-
	(a) Area of each tile upto 0.09 Sq.m				-
	(i) Coloured decorative				-
	(a) Ground Floor	Sq. M	153.31		-
	(b) First floor	"	153.31		-
	(c) Second floor	"	153.31		-
	(d) Third floor	"	153.31		-
28	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor)				-
	(a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge.	Sq.m	32.49		-
	c) Steel shuttering or 9 to 12 mm thick approved quality ply board shuttering in any concrete work				-
	i) Upto roof of ground floor	Sq.m	341.61		-
	ii) For First to Second Floor	"	278.63		-
	iii) For Second to Third Floor	"	446.16		-
	iv) For Third to Fourth Floor	"	446.16		-



	v) Above Roof level	"	188.67		-
					-
29	Replacing wooden beam or R.S. joist by R.S. joist or by another wooden beam joist and fixed complete, including hire and labour charges for necessary sal bullah props, necessary packing between beams and burgahs but excluding the cost of joist or wooden beam and concrete/Brick works etc needed for mending damages.				-
	(i) Height not exceeding 5m				-
	(b) Clear span exceeding 3.7m but not exceeding 5m.	Each	16.50		-
	(d) Clear span exceeding 6m but not exceeding 7.3m.	Each	16.50		-
30	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.				-
	i) Upto roof of ground floor	M.T.	11.02		-
	ii) For First to Second Floor	"	4.24		-
	iii) For Second to Third Floor	"	7.32		-
	iv) For Third to Fourth Floor	"	7.32		-
	v) Above Roof level	"	3.96		-
					-



31	Controlled Cement concrete with well graded stone chips (20 mm nominal size) excluding shuttering and reinforcement with complete design of concrete as per IS : 456 and relevant special publications, submission of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer-in charge. Consumption of cement will not be less than 300 Kg of cement with Super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test and job mix formula. In ground floor and foundation. M 25 Grade				-
	(i) Pakur Variety				-
	i) Upto roof of ground floor	Cum	88.18		-
	ii) For First to Second Floor		33.89		-
	iii) For Second to Third Floor		58.49		-
	iv) For Third to Fourth Floor		58.49		-
	v) Above Roof level		31.66		-
					-
32	Cement concrete (1:1.5:3) with graded stone chips 5.6 mm size with hexagonal square mesh wire netting, I.R.C. fabric mesh or X.P. M. fitted and fixed after tying the existing reinforcement on concrete without distributing the same and with proper scarping and cleaning the reinforcement and disturbed concrete with wire brush etc. after applying a coat of cement including the cost of wire netting I.R.C or X. P. M. & cost of all handling and scaffolding complete as per direction of Engineer-in -charge. (As screed plaster) 37.5 mm thick				-
	i) Modified with plasticiser (Cement Mix Plus or similar approved) & polyester fibre	Sqm	55.00		-
					-



33	Supplying ,applying of carbon fibre reinforced polymer strip.	Sqm	27.50		-
					-
34	M.S.or W.I. Ornamental grill of approved design joints continuously welded with M.S, W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor.				-
	(i) Grill weighing above 10 Kg./sq.mtr and up to 16 Kg./sq. mtr.	Qntl	36.87		-
35	Collapsible gate with 40mm x 40mm x 6mm Tee as top and bottom guide rail, 20mm x 10mm x 2mm vertical channels 100mm apart in fully stretched position 20mm x 5mm M.S. flats as collapsible bracings properly rivetted and washered including 38mm steel rollers including locking arrangements, fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc. in walls, floors etc. and making good damages complete.	Sqm	7.92		-
36	Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame exluding cost of concrete, Iron Butt Hinges and M.S clamps.				-
	Sal : Local.	Cum	12.67		-
37	Supplying solid flush type doors of commercial quality, the timber frame consisting of top and bottom rails and side styles of well seasoned timber 65mm wide each and the entire frame fitted with 37.5mm wide battens places both ways in order to make the door of solid core and internal lipping with Garjan or similar wood veneers using phenol formaldehyde as glue etc. complete, including fitting, fixing shutters in position but excluding the cost of hinges and other fittings in ground floor.				-



	(a) 35 mm thick shutters (single leaf)	Sqm	155.76		-
38	Shutters of 2/3rd panel and 1/3rd glazed of doors and windows as per design (each panel consisting of a single plank without joint and with ordinary glass of 7.4kg. Per sq.m./3mm thick) fitted with putty bed and teak wood beads and nails including fitting and fixing shutters in position but excluding the cost of glass, putty, teak bead, nails, hinges etc. and other fittings, in ground floor.				-
	(iv) 25mm thick shutters with 12mm thick panel. (a) Ordinary Teak Wood.	Sqm	230.43		-
39	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. [NB: No extra payment will be made for lift & lead etc.]	Sqm	460.86		-
40	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. [NB: No extra payment will be made for lift & lead etc.]	Sqm	230.43		-
41	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary. I) Two coats (with any shade except white) [NB: No extra payment will be made for lift & lead etc.]				-
	(a) On timber or plastered surface	Sqm	460.86		-
	(b) On steel or other metal surface	Sqm	230.43		-
42	Supplying, applying of exterior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface	Sqm	2739.58		-



	thoroughly, complete as per direction of the EIC. Two Coat, [NB: No extra payment will be made for lift & lead etc.]				
43	Supplying, applying of Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of EIC to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer. (Super Protective 100% Acrylic Emulsion.) [NB: No extra payment will be made for lift & lead etc.]	Sqm	547.92		-
44	Protective and Decorative Textured exterior high class matt finish paint of approved quality, composed of special Thermoplastic Resin containing fine crystalline additives derive from Granite as per manufacturer's specification and as per direction of EIC to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer.	Sqm	2191.67		-
45	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface throughly, complete as per manufacturer's specification and as per direction of the EIC.(Super Protective 100% Acrylic Emulsion.) [NB: No extra payment will be made for lift & lead etc.] (All paints shall be supplied by the Owner free of cost, contractor's to quote labour rate only.)	Sqm	7591.30		-



46	Applying Acrylic emulsion paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty. [NB: No extra payment will be made for lift & lead etc.] (All paints shall be supplied by the Owner free of cost, contractor's to quote labour rate only.)				-
	i) Standard quality (Two coats)	Sqm	7591.30		-
47	Applying 2 coats of bonding agent with synthetic multi functional rubber emulsion having adhesive and water proofing properties by mixing with water in proportion (1 bonding agent : 4 water : 6 cement) as per Manufacturer's specification [Cement to be supplied by the Department]	Sqm	773.44		-
48	Supplying ,applying of water proofing layers with "Top Seal" (Latexshield - 2K or similar approved) in three coats as per direction of E.I.C	Sqm	773.44		-
49	Supplying ,applying of epoxy modified tar in two coats as per direction of E.I.C	Sqm	773.44		-
50	Polymer concrete made with water resistant bonding agent of synthetic rubber emulsion as per manufacturer's specification excluding the cost of cement concrete (2.75 Kg / bag of cement)	m ³	7.73		-
51	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75kg/sq.m all complete including all materials and labour.				-



	i) 35 mm thk.	Sqm	104.64		-
52	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete.				-
	A) UPVC Pipes: 160 mm. Dia.	Rm	35.20		-
53	Rule pointing to brick work with ruled joints in lime and surki 1:2 mortar including raking out joints and top finishing (1 lime paste/putty : 2 surki).	Sqm	162.80		-
54	Repairs to cracks in terraced roof by cutting V-grooves 75 mm. to 100 mm. deep and 150 mm. to 200 mm. wide and filling the same with beaten lime concrete (2:2:7) with lime putty / paste and finishing complete (2 lime putty / paste : 2 surki : 7 brick khoa)	Rm	55.00		-
55	Lime punning about 3 mm. thick with stone lime and shell lime (1:2)	Sqm	244.20		-
56	Supplying, fitting & fixing fire resistant door frame conforming to IS:3614, tested and certified as per laboratory approved by Engineer in-charge, of section 143 x 57 mm having built in rebate made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 120 minutes fire rated door shutters. The frame is fitted with intumescent fire seal strip of size 10x4 mm (minimum) around the frame and fixing with back plate bracket and anchor fastener of approved size and make. Rubber door				-



	silencers should be provided on striking jamb.				
	<p>Supplying, fitting & fixing fire resistant Door leaf of 46 mm thick fully flush double skin glazed fire resistant door shutters with or without vision lite, of 120 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 18 SWG G.I. sheet (zinc coating not less than 120 gm/m²) duly filled heat-resistant phenolic resin bonded insulation material (honeycomb craft) and fixing with necessary stainless steel ball bearing hinges of approved make. For pair of doors astragals has to be provided on the meeting stile for both active and inactive leaf. Vision lite wherever applicable should be provided as per manufacturer recommendation with a bedding and screw from inside. The glass should be 6mm clear borosilicate fire rated glass of relevant rating.</p>				-
	<p>All door and frames shall be finished with polyurethane aliphatic grade paint of approved colour including applying a coat of approved brand fire resistant primer. The door leaf and frame shall have passed minimum 250 hours of salt spray test. Rate should include supply and installation complete as per direction of Engineer in-charge.</p>				-
	i) 2 hour Fire rated door single leaf of size (1200 mm x 2180 mm)	Each	5.50		-

57	Supplying, fitting and fixing fibre reinforced polymer (FRP) Composite door frame as per approved section with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolithic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS: 4020 door testing performance criteria..				-
	(i) 66mm x 90mm	Rm	88.00		-
58	Supplying, fitting & fixing fibre reinforced polymer (FRP) Composite door shutters as per approved design with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolithic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS:4020 door testing performance criteria. In ground floor.				-
	(i) 32 mm thick	Sqm	29.57		-
TOTAL OF SL. NO. 1 To 58				TOTAL=	-
				SAY, =	-

This quotation is to be addressed to the Principal, Scottish Church College and has to be submitted to the Principal's Office in Scottish Church College, at 1 & 3 Urquhart Square, Kolkata 700006, on prescribed working day between 11:00 A.M. and 3:00 P.M.

An **EARNEST MONEY** of **Rs. 3,00,000** (Rupees Three Lakhs Only) shall be given by the bidder in the form of a **Demand Draft** drawn in favour of '**Scottish Church College**'.

The bid/tender may be submitted from 02/08/2023 & close on 10/08/2023. The Selection/opening will be made at the College Office at 3:00 P.M. on 11/08/2023.

The Authority of the College reserves the right/discretion for selection based on experience, amount, quality of the bid & bidder.

Madhumanjari Mandal
Dr. Madhumanjari Mandal
Principal

11/8/23

Principal
Scottish Church College
Kolkata-700 006