

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
15.00	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)				
15.10	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	SQM	189.74	159.05	30,178.00
	TOTAL OF FORM WORK				1,056,988.00
	MASONARY WORK				
16.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
16.10	Cement mortar 1:4 (1 cement : 4 coarse sand)	CUM		4918.65	-
17.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
17.10	Cement mortar 1:4 (1 cement : 4 coarse sand)	CUM	20.50	5667.55	116,182.00
18.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in.				
18.10	cement mortar 1:4 (1 cement : 4 coarse sand)	SQM		584.75	-
19.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
19.10	cement mortar 1:4 (1 cement : 4 coarse sand)	SQM	64.96	665.80	43,252.00
20.00	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	SQM	64.96	69.50	4,515.00
	TOTAL OF MASONARY WORK				163,949.00
	FINISHING				
21.00	15 mm cement plaster on rough side of single or half brick wall of mix :				
21.10	1:6 (1 cement: 6 fine sand)	SQM	1036.12	172.80	179,041.00
22.00	12 mm cement plaster of mix :				
22.10	1:6 (1 cement: 6 fine sand)	SQM	975.77	149.45	145,829.00
23.00	6 mm cement plaster of mix :				
23.10	1:3 (1 cement: 3 fine sand)	SQM	860.72	134.70	115,938.00
24.00	Finishing walls with Acrylic Smooth exterior paint of required shade :				

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
24.10	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm).	SQM	1131.78	90.00	101,860.00
25.00	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
25.10	Two or more coats on new work.	SQM	1270.12	50.65	64,332.00
26.00	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
26.10	Water thinnable cement primer.	SQM	1270.12	35.85	45,534.00
27.00	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
27.10	Two or more coats on new work.	SQM	100.00	106.25	10,625.00
28.00	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	SQM	889.08	89.65	79,706.00
TOTAL OF FINIHNG WORK					742,865.00
FLOORING					
29.00	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : as per drawing/specification or directed by Engineer In charge.				
29.10	25 mm thick.	SQM		1141.60	-
30.00	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete as per drawing/specification or directed by Engineer In charge..	SQM		1191.25	-
	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete as per drawing/specification or directed by Engineer In charge.				

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
31.00	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS :15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	SQM		904.45	
32.00	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete				
32.10	40mm thick with 20mm nominal size stone aggregate.	SQM	284.99	353.35	100,701.00
33.00	Cement plaster skirting (up to 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement complete as per drawing/specification or directed by Engineer In charge.				
33.10	18 mm thick.	SQM	191.84	377.25	72,372.00
34.00	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	SQM		212.85	-
35.00	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete as per drawing/specification or directed by Engineer In charge.	SQM		836.65	-
36.00	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	SQM		602.20	-
37.00	Designing , fabricating, testing, installation, installation and fixing in position curtain wall with Aluminium Composite Panel Cladding with open grooves for linear as well as curvilinear portion of the building, for all heights and all levels etc including				
37.10	a) structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it water tight including checking of all the structural and functional design.				

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
37.20	b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated with kynar 500 based PVDF/Lumiflon based fluropolymer resin coating of approved colour and shade on face #1 and polymer (Service) coating on face#2 as specified steel screw, nuts,bolts,washers,cleats,weather silicone sealent, backer rods etc.				
37.30	c) The fastening brackets of Aluminium alloy 6005T5/MS wit Hot dip. Galvanised with serrations and serrated washers to arrest the wind load movement, fastners,SS 316 Pins and anchors bolts of approved make in SS316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing.				
38.00	The item includes cost of material& labour component, the cost of all mock ups at site, cost of all sample of individual components for testing in an approved laboratory,field tests on the assembled working curtain wall with aluminium composite panel cladding till the handing over of the building for occupation.				
38.10	The contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawing as per item description, as specified, as per the approved shop drawing and as directed by the Engineer- in-Charge.				
38.20	"However for the purpose of payment, only the actual area on the external face of the curtain wall with aluminium composite panel cladding(including width of groove) shall be measured in sqm up to two decimal places."	SQM		3775.30	-
39.00	LAMINATED WOODEN FLOORING Providing and fixing 10 mm thick grade IV laminated floor with HDF base and laminate of approved shade as per manufacturer's catalogue including the cost of PVC sheet, Foam subfloor 2 mm thick and cost of perimeter runner strip and door profile.(Pergo/Armstrong or Equivalent make) The cost to include all materials, labour, lead, lift, wastages, required finishing, etc. complete, as per the instructions and to the satisfaction of the Project Manager.	SQM		1288.00	-
40.00	Providing S fixing 22 mm thick pre-polished colored concrete desiner tiles making by strong vibratorycompection technology using 50% white cement & 50% ordinary cement size 300mm x 300mm, laid in footpath & courtyard, on 20 mm thick bed cement mortar 1:4 (1 Cement: 4 fine sand) joined with neat cement slurry mixed with pigment to match the sade of tiles including rubbing and polishing complete as per direction of the Engineer-in-charge.	SQM	118.49	697.70	82,670.00

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
41.00	Carpet Flooring Supply and Installing synthetic latex broadloom carpet of 1,77,750 tufts per sq mtr , with thickness of 5mm of approved shade and color , PP base broadloom over underlay of 12 mm thick foam base fixed to exiting floor with rubber based adhesive including smoothing the surface and trimming the edges to give smooth and even finish with no undulations or warps. 10% contingencies to be considered in quantity, however 5% attic stock to be considered over and above.Protecting the material on site is supplier's responsibility. Rate to include all wastage as applicable, freight and handling , installed at site as per design and edge stiching etc. complete as per drawing/specification or directed by Engineer In charge. . Make- Unitek (Melody) or equivalent Base price @ Rs. 150/psf.	SQM		2150.29	-
42.00	Extra for providing pigment in flooring	SQM	476.83	35.00	16,689.00
43.00	Extra for providing floor hardner of Fosroc make Nitoflor-Hardstop standard in approved make @ 4.5 Kg per Sqm or as per the manufaxcturer's specification and as direction of the Engineer-in-Charge.	SQM	284.99	210.99	60,130.00
44.00	Granite Flooring Providing and laying flooring using 18 mm thick Granite of approved size, pattern laid over 20mmthick bed CM 1:4 for flooring, using cement slurry below slabs for packing,asper architectural design, drawing and specifications, including joint filling with approved qualityand colour cement to match the shade of Granite.The work shall include cost of materials,wastage, labour, all lead and lift at all levels, loading and unloading, transportation,cutting, curingetc. and all other incidental charges etc.complete as per drawing/specification or directed by Engineer In charge.	SQM		4528.34	-
45.00	Providing and laying Granite stone using 18 mm thick for skirting , riser and dado , laid over 20mmthick CM 1:4 , using cement slurry,asper architectural design, drawing and specifications, including joint filling with approved qualityand colour cement to match the shade of Granite.The work shall include cost of materials,wastage, labour, all lead and lift at all levels, loading and unloading, transportation,cutting, curingetc. and all other incidental charges etc.complete as per drawing/specification or directed by Engineer In charge.	SQM		6439.64	-
46.00	Extra for making flamed in granite stone as per direction by engineer in charge	SQM		180.00	-
47.00	Extra for making flamed in kota stone as per direction by engineer in charge	sqm		251.83	-

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
48.00	40 mm thick stiching slab (1:2:4) with colour pigment and integral water proffing compound and reinforced with welded mesh specification as per drawing complete in all respect as per Engineer In Charge.	SQM		757.00	-
49.00	Supply & Fixing homogeneous & abrasion resistant Poly Vinyl flooring 2mm thick of desired shade & in desired patterns, in all cabins & corridors, cleaning of surface to give smooth & even floor with all labour and material T&P required for proper completion of work.	SQM		1800.00	-
TOTAL OF FLOORING WORK					332,562.00
WATER PROFFING					
50.00	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :				
50.1	i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
50.2	ii) 11nd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
50.3	iii) 111rd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area.				
50.4	iv) 1Vth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.) complete as per drawing/specification or directed by Engineer In charge.	SQM	284.99	522.90	149,021.00
51.00	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement :3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete as per drawing/specification or directed by Engineer In charge.			186.65	-

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
52.00	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound@ 0.253 kg/sqm. b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound@ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately For the purpose of measurement the entire treated surface will be measured) complete as per drawing/specification or directed by Engineer In charge.	SQM		390.35	-
53.00	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : i) 1stlayer of 22mm to 25mm thick approved and specified rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. iii) Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cdm/sqm thoroughly embedded in the 2nd layer complete as per drawing/specification or directed by Engineer In charge.				
53.10	Using rough kota stone.	SQM		1022.45	-
54.00	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25mmthick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm(minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :				
54.10	Using rough Kota stone	SQM		1243.25	-

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
	TOTAL OF WATER PROFFING WORK				149,021.00
	STEEL WORK				
55.00	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 -part 1 and M.S. top cover of required thickness for rolling shutters.				
55.10	a)80x1.25mm M.S. laths with 1.25 mm thick top cover.	Sqm		2142.10	-
55.20	Providing and fixing ball bearing for rolling shutters.	No.		438.95	-
56.00	Extra for providing mechanical device chain and crank operation for operating rolling shutters.				
56.10	a) Exceeding 10.00 sqm and upto 16.80 sqm in the area.	Sqm		724.85	-
56.20	b) Exceeding 16.80 sqm in area.	Sqm		724.85	-
57.00	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	2427.02	619.40	1,503,296.00
	TOTAL OF STEEL WORK				1,503,296.00
	JOINERY WORK				

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
58.00	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
58.10	For fixed portion				
58.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	KG	370.43	348.50	129,093.00
	FOR SHUTTERS WINDOW& DOOR IN ALUMINIUM WORK				
59.00	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
59.10	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	KG		405.90	-
60.00	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
60.10	B) With float glass panes of 5.50 mm thickness	SQM	2.11	1054.20	2,226.00
61.00	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.				
61.10	With stainless steel cover plate minimum 1.25 mm thickness.	EACH		2039.00	-

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
62.00	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.				
62.10	B) 255 X 19 mm	EACH		275.25	-
63.00	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:				
63.10	125x75x4 mm	EACH	33.00	108.85	3,592.00
64.00	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :				
64.10	250x16 mm	EACH	22.00	189.00	4,158.00
65.00	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
65.10	200x10 mm	EACH	44.00	79.25	3,487.00
66.00	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
66.10	125 mm	EACH	44.00	69.80	3,071.00
66.20	100 mm	EACH		55.10	-
67.00	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868)transparent or dyed to required colour and shade with necessary screws etc. complete.				
67.10	Single rubber stopper	EACH	5.00	37.50	188.00
67.20	Twin rubber stopper	EACH	5.00	83.95	420.00
68.00	Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles with necessary screws etc. complete (Best make of approved quality).	EACH	11.00	815.45	8,970.00
69.00	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
69.10	Using M.S. angels 40x40x6 mm for diagonal braces.	SQM	3.00	3073.85	9,222.00
70.00	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size, with top and bottom rail of T-iron 40x40x6mm, with 40mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	SQM	3.00	5291.30	15,874.00
71.00	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :				
71.10	Rectangular or square.	SQM	0.04	139.40	6.00
72.00	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	SQM		104.55	-
73.00	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I.sheet (zinc coating not less than 120gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 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 dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge(Dash fastener to be paid for separately).	RMT		1250.05	-
74.00	Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II) tested and certified as per laboratory approved by Engineer-in-charge with suitable mounting on doorframe, consisting of vertical styles, lock rail, top rail 100mm wide, bottom rail 200mm wide, made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/sqm duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in charge(panelling to be paid for separately).	SQM		6268.20	-
75.00	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.	EACH		6133.20	-

RAMP AT RG2 GRID BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
76.00	Providing and fixing MASONITE FLUSH DOOR SHUTTER MF on both sides, Hot pressed, bonded With BWP Grade Resin, stiles and Rails in Timber, And with Tubular Core filler complete including all necessary fittings etc complete as per direction of Engineer-In- Charge.				
76.10	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	SQM	16.41	10904.16	178,929.00
77.00	Providing and fixing of galvanised M wire gauze with 0.63 mm dia in Aluminium window as per direction of Engineer in Charge.	SQM		740.00	-
	TOTAL OF JOINERY WORK				359,236.00


Sourav Das Gupta
 HON. General Secretary
 Tripura Cricket Association

ESTIMATED FOR RAMP AT RG3 BUILDING OF STADIUM TRIPURA

RAMP AT RG3 BUILDING		
SL. NO	ITEMS OF WORKS	AMOUNT
A	EARTH WORK	348,163.00
B	CONCRETE WORK	12,255,710.00
C	FORM WORK	1,147,321.00
D	MASONARY WORK	163,949.00
E	FINISHING WORK	799,919.00
F	FLOORING WORK	332,562.00
G	WATER PROFFING WORK	149,021.00
H	STEEL WORK	-
I	JOINERY WORK	359,236.00
	GRAND TOTAL	15,555,881.00

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
EARTH WORK					
1.00	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sum on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
1.10	All kinds of soil	CUM	723.86	155.60	112,632.00
2.00	Extra for every additional lift of 1.5 m or part thereof in excavation/ banking excavated or stacked materials.				
2.10	All kinds of soil.	CUM	289.54	46.25	13,391.00
3.00	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	CUM	18.62	910.25	16,948.00
4.00	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	CUM	487.04	112.40	54,743.00
5.00	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	CUM	308.00	308.35	94,972.00
6.00	Supplying chemical emulsion in sealed containers including delivery as specified.				
6.10	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	Litre	40.35	185.95	7,503.00
7.00	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
8.00	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :				
8.10	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	Sqm	403.48	118.90	47,974.00
TOTAL OF EARTH WORK					348,163.00
CONCRETE WORK					
9.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
9.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	CUM	43.97	4004.00	176,070.00
10.00	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
10.10	All works up to plinth level.	CUM	255.64	6296.15	1,609,545.00
10.20	All works above plinth level up to floor V level.	CUM	368.48	7014.55	2,584,704.00
11.00	Providing M-30 grade concrete instead of M-25 grade BMC/RMC.	CUM	312.06	76.50	23,872.00
12.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
12.10	Thermo-Mechanically Treated bars.	KG	42504.61	68.10	2,894,564.00
13.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
13.10	Thermo-Mechanically Treated bars.	KG	72936.19	68.10	4,966,955.00
	TOTAL OF CONCRETE WORK				12,255,710.00
	FORM WORK				
14.00	Centering and shuttering including strutting, propping etc. and removal of form for :				
14.10	Foundations, footings, bases of columns, etc. for mass concrete.	SQM	127.07	196.45	24,962.00
14.20	Wall (any thickness) including attached pilasters, buttresses, plinth and string course etc	SQM	1265.30	360.80	456,519.00
14.30	Columns, Pillars, Piers, Abutments, Posts and Struts.	SQM	224.73	453.35	101,881.00
14.40	Stairs, (excluding landings) except spiral-staircases	SQM		395.65	
14.50	Extra for shuttering in circular work(20%of respective centering and shuttering items)	SQM	1580.99	73.12	115,602.00
14.60	Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12mm thick.	SQM	619.30	423.65	262,367.00
14.70	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12mm thick.	SQM	315.70	493.55	155,812.00
14.80	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	SQM		134.70	-
15.00	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)				
15.10	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	SQM	189.74	159.05	30,178.00
	TOTAL OF FORM WORK				1,147,321.00
	MASONARY WORK				

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
16.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
16.10	Cement mortar 1:4 (1 cement : 4 coarse sand)	CUM		4918.65	-
17.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
17.10	Cement mortar 1:4 (1 cement : 4 coarse sand)	CUM	20.50	5667.55	116,182.00
18.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in.				
18.10	cement mortar 1:4 (1 cement : 4 coarse sand)	SQM		584.75	-
19.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
19.10	cement mortar 1:4 (1 cement : 4 coarse sand)	SQM	64.96	665.80	43,252.00
20.00	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	SQM	64.96	69.50	4,515.00
TOTAL OF MASONARY WORK					163,949.00
FINISHING					
21.00	15 mm cement plaster on rough side of single or half brick wall of mix :				
21.10	1:6 (1 cement: 6 fine sand)	SQM	1120.85	172.80	193,683.00
22.00	12 mm cement plaster of mix :				
22.10	1:6 (1 cement: 6 fine sand)	SQM	1060.51	149.45	158,492.00
23.00	6 mm cement plaster of mix :				
23.10	1:3 (1 cement: 3 fine sand)	SQM	935.00	134.70	125,944.00
24.00	Finishing walls with Acrylic Smooth exterior paint of required shade :				
24.10	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm).	SQM	1216.51	90.00	109,486.00
25.00	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
25.10	Two or more coats on new work.	SQM	1351.30	50.65	68,444.00
26.00	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
26.10	Water thinnable cement primer.	SQM	1351.30	35.85	48,444.00

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
27.00	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
27.10	Two or more coats on new work.	SQM	100.00	106.25	10,625.00
28.00	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	SQM	945.91	89.65	84,801.00
TOTAL OF FINIHING WORK					799,919.00
FLOORING					
29.00	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : as per drawing/specification or directed by Engineer In charge.				
29.10	25 mm thick.	SQM		1141.60	-
30.00	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete as per drawing/specification or directed by Engineer In charge..	SQM		1191.25	-
31.00	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS :15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	SQM		904.45	
32.00	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete				
32.10	40mm thick with 20mm nominal size stone aggregate.	SQM	284.99	353.35	100,701.00
33.00	Cement plaster skirting (up to 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cementcomplete as per drawing/specification or directed by Engineer In charge. .				
33.10	18 mm thick.	SQM	191.84	377.25	72,372.00
34.00	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	SQM		212.85	-

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
35.00	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete as per drawing/specification or directed by Engineer In charge.	SQM		836.65	-
36.00	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	SQM		602.20	-
37.00	Designing , fabricating, testing, installation, installation and fixing in position curtain wall with Aluminium Composite Panel Cladding with open grooves for linear as well as curvilinear portion of the building, for all heights and all levels etc including				
37.10	a) structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it water tight including checking of all the structural and functional design.				
37.20	b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated with kynar 500 based PVDF/Lumiflon based fluropolymer resin coating od approved colour and shade on face #1 and polymer (Service) coating on face#2 as specified steel screw, nuts,bolts,washers,cleats,weather silicone sealent, backer rods etc.				
37.30	c) The fastening brackets of Aluminium alloy 6005T5/MS wit Hot dip. Galvanised with serrations and serrated washers to arrest the wind load movement, fastners,SS 316 Pins and anchors bolts of approved make in SS316, Nylon seprators to prevent bi-metallic contacts all complete required to perform as per specification and drawing.				
38.00	The item includes cost of material& labour component, the cost of all mock ups at site, cost of all sample of individual components for testing in an approved laboratory,field tests on the assembled working curtain wall with aluminium composite panel cladding till the handing over of the building for occupation.				

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
38.10	The contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawing as per item description, as specified, as per the approved shop drawing and as directed by the Engineer- in-Charge.				
38.20	"However for the purpose of payment, only the actual area on the external face of the curtain wall with aluminium composite panel cladding(including width of groove) shall be measured in sqm up to two decimal places."	SQM		3775.30	-
39.00	LAMINATED WOODEN FLOORING Providing and fixing 10 mm thick grade IV laminated floor with HDF base and laminate of approved shade as per manufacturer's catalogue including the cost of PVC sheet, Foam subfloor 2 mm thick and cost of perimeter runner strip and door profile.(Pergo/Armstrong or Equivalent make) The cost to include all materials, labour, lead, lift, wastages, required finishing, etc. complete, as per the instructions and to the satisfaction of the Project Manager. Base rate Rs. 110 per sft	SQM		1288.00	-
40.00	Providing & fixing 22 mm thick pre-polished colored concrete desiner tiles making by strong vibratorycompection technology using 50% white cement & 50% ordinary cement size 300mm x 300mm, laid in footpath & courtyard, on 20 mm thick bed cement mortar 1:4 (1 Cement: 4 fine sand) joined with neat cement slurry mixed with pigment to match the sade of tiles including rubbing and polishing complete as per direction of the Engineer-in-charge.	SQM	118.49	697.70	82,670.00
41.00	Carpet Flooring Supply and Installing synthetic latex broadloom carpet of 1,77,750 tufts per sq mtr , with thickness of 5mm of approved shade and color , PP base broadloom over underlay of 12 mm thick foam base fixed to exiting floor with rubber based adhesive including smoothing the surface and trimming the edges to give smooth and even finish with no undulations or warps. 10% contingencies to be considered in quantity, however 5% attic stock to be considered over and above.Protecting the material on site is supplier's responsibility. Rate to include all wastage as applicable, freight and handling , installed at site as per design and edge stiching etc. complete as per drawing/specification or directed by Engineer In charge. . Make- Unitex (Melody) or equivalent Base price @ Rs. 150/psf.	SQM		2150.29	-
42.00	Extra for providing pigment in flooring	SQM	476.83	35.00	16,689.00
43.00	Extra for providing floor hardner of Fosroc make Nitoflor-Hardstop standard in approved make @ 4.5 Kg per Sqm or as per the manufacxturer's specification and as direction of the Engineer-in-Charge.	SQM	284.99	210.99	60,130.00

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
44.00	Granite Flooring Providing and laying flooring using 18 mm thick Granite of approved size, pattern laid over 20mmthick bed CM 1:4 for flooring, using cement slurry below slabs for packing,asper architectural design, drawing and specifications, including joint filling with approved qualityand colour cement to match the shade of Granite.The work shall include cost of materials,wastage, labour, all lead and lift at all levels, loading and unloading, transportation,cutting, curingetc. and all other incidental charges etc.complete as per drawing/specification or directed by Engineer In charge.	SQM		4528.34	-
45.00	Providing and laying Granite stone using 18 mm thick for skirting , riser and dado , laid over 20mmthick CM 1:4 , using cement slurry,asper architectural design, drawing and specifications, including joint filling with approved qualityand colour cement to match the shade of Granite.The work shall include cost of materials,wastage, labour, all lead and lift at all levels, loading and unloading, transportation,cutting, curingetc. and all other incidental charges etc.complete as per drawing/specification or directed by Engineer In charge.	SQM		6439.64	-
46.00	Extra for making flamed in granite stone as per direction by engineer in charge	SQM		180.00	-
47.00	Extra for making flamed in kota stone as per direction by engineer in charge	sqm		251.83	-
48.00	40 mm thick stiching slab (1:2:4) with colour pigment and integral water proffing compound and reinforced with welded mesh specification as per drawing completein all respect as per Engineer In Charge.	SQM		757.00	-
49.00	Supply & Fixing homogeneous & abrasion resistant Poly Vinyl flooring 2mm thick of desired shade & in desired patterns, in all cabins & corridors , cleaning of surface to give smooth & even floor with all labour and material T&P required for proper completion of work.	SQM		1800.00	-
TOTAL OF FLOORING WORK					332,562.00
WATER PROFFING					
50.00	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :				
50.1	i) Ist course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
50.2	ii) IInd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
50.3	iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area.				

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
50.4	iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.) complete as per drawing/specification or directed by Engineer In charge.	SQM	284.99	522.90	149,021.00
51.00	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement :3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete as per drawing/specification or directed by Engineer In charge. .			186.65	-
52.00	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound@ 0.253 kg/sqm. b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound@ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately For the purpose of measurement the entire treated surface will be measured) complete as per drawing/specification or directed by Engineer In charge.	SQM		390.35	-
53.00	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : i) 1st layer of 22mm to 25mm thick approved and specified rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. iii) Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer complete as per drawing/specification or directed by Engineer In charge. .				
53.10	Using rough kota stone.	SQM		1022.45	-

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
54.00	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25mmthick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm(minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :				
54.10	Using rough Kota stone	SQM		1243.25	-
	TOTAL OF WATER PROFFING WORK				149,021.00
	STEEL WORK				
55.00	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 -part 1 and M.S. top cover of required thickness for rolling shutters.				
55.10	a)80x1.25mm M.S. laths with 1.25 mm thick top cover.	Sqm		2142.10	-
55.20	Providing and fixing ball bearing for rolling shutters.	No.		438.95	-
56.00	Extra for providing mechanical device chain and crank operation for operating rolling shutters.				
56.10	a) Exceeding 10.00 sqm and upto 16.80 sqm in the area.	Sqm		724.85	-
56.20	b) Exceeding 16.80 sqm in area.	Sqm		724.85	-
	TOTAL OF STEEL WORK				-
	JOINERY WORK				

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
57.00	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
57.10	For fixed portion				
57.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	KG	370.43	348.50	129,093.00
	FOR SHUTTERS WINDOW& DOOR IN ALUMINIUM WORK				
57.20	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
57.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	KG		405.90	-
58.00	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
58.10	B) With float glass panes of 5.50 mm thickness	SQM	2.11	1054.20	2,226.00
59.00	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.				
60.00	With stainless steel cover plate minimum 1.25 mm thickness.	EACH		2039.00	-

RAMP AT RG3 BUILDING

SI. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
61.00	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.				
61.10	B) 255 X 19 mm	EACH		275.25	-
62.00	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:				
62.10	125x75x4 mm	EACH	33.00	108.85	3,592.00
64.00	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :				
64.10	250x16 mm	EACH	22.00	189.00	4,158.00
65.00	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
65.10	200x10 mm	EACH	44.00	79.25	3,487.00
66.00	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
66.10	125 mm	EACH	44.00	69.80	3,071.00
66.20	100 mm	EACH		55.10	-
67.00	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868)transparent or dyed to required colour and shade with necessary screws etc. complete.				
67.10	Single rubber stopper	EACH	5.00	37.50	188.00
67.20	Twin rubber stopper	EACH	5.00	83.95	420.00
68.00	Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles with necessary screws etc. complete (Best make of approved quality).				
		EACH	11.00	815.45	8,970.00

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
69.00	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
69.10	Using M.S. angels 40x40x6 mm for diagonal braces.	SQM	3.00	3073.85	9,222.00
70.00	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size, with top and bottom rail of T-iron 40x40x6mm, with 40mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	SQM	3.00	5291.30	15,874.00
71.00	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :				
71.10	Rectangular or square.	SQM	0.04	139.40	6.00
72.00	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	SQM		104.55	-
73.00	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I.sheet (zinc coating not less than 120gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 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 dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge(Dash fastener to be paid for separately).	RMT		1250.05	-
74.00	Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II) tested and certified as per laboratory approved by Engineer-in-charge with suitable mounting on doorframe, consisting of vertical styles, lock rail, top rail 100mm wide, bottom rail 200mm wide, made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/sqm duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in charge(pannelling to be paid for separately).	SQM		6268.20	-
75.00	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.	EACH		6133.20	-

RAMP AT RG3 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
76.00	Providing and fixing MASONITE FLUSH DOOR SHUTTER MF on both sides, Hot pressed, bonded With BWP Grade Resin, stiles and Rails in Timber, And with Tubular Core filler complete including all necessary fittings etc complete as per direction of Engineer-In- Charge.				
76.10	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	SQM	16.41	10904.16	178,929.00
77.00	Providing and fixing of galvanised M wire gauze with 0.63 mm dia in Aluminium window as per direction of Engineer in Charge.	SQM		740.00	-
	TOTAL OF JOINERY WORK				359,236.00

ESTIMATED FOR RAMP AT RG 4 BUILDING OF STADIUM TRIPURA

RAMP AT RG 4 BUILDING		
SL. NO	ITEMS OF WORKS	AMOUNT
A	EARTH WORK	348,165.00
B	CONCRETE WORK	11,793,723.00
C	FORM WORK	1,081,515.00
D	MASONARY WORK	163,949.00
E	FINISHING WORK	758,642.00
F	FLOORING WORK	332,562.00
G	WATER PROFFING WORK	149,021.00
H	STEEL WORK	1,503,284.00
I	JOINERY WORK	359,236.00
	GRAND TOTAL	16,490,097.00

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEMS BASED ON DSR					
EARTH WORK					
1.00	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sum on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
1.10	All kinds of soil	CUM	723.86	155.60	112,632.00
2.00	Extra for every additional lift of 1.5 m or part thereof in excavation/ banking excavated or stacked materials.				
2.10	All kinds of soil.	CUM	289.54	46.25	13,391.00
3.00	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	CUM	18.62	910.25	16,948.00
4.00	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	CUM	487.04	112.40	54,743.00
5.00	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	CUM	308.00	308.35	94,972.00
6.00	Supplying chemical emulsion in sealed containers including delivery as specified.				
6.10	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	Litre	40.35	185.95	7,503.00
7.00	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
8.00	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :				
8.10	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	Sqm	403.50	118.90	47,976.00
TOTAL OF EARTH WORK					348,165.00
CONCRETE WORK					
9.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
9.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	CUM	43.97	4004.00	176,070.00

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
10.00	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
10.10	All works up to plinth level.	CUM	235.75	6296.15	1,484,339.00
10.20	All works above plinth level up to floor V level.	CUM	368.48	7014.55	2,584,704.00
11.00	Providing M-30 grade concrete instead of M-25 grade BMC/RMC.	CUM	302.12	76.50	23,112.00
12.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
12.10	Thermo-Mechanically Treated bars.	KG	37570.38	68.10	2,558,543.00
13.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
13.10	Thermo-Mechanically Treated bars.	KG	72936.19	68.10	4,966,955.00
	TOTAL OF CONCRETE WORK				11,793,723.00
	FORM WORK				
14.00	Centering and shuttering including strutting, propping etc. and removal of form for :				
14.10	Foundations, footings, bases of columns, etc. for mass concrete.	SQM	113.21	196.45	22,239.00
14.20	Wall (any thickness) including attached pilasters, buttersesses, plinth and string course etc	SQM	1192.44	360.80	430,233.00
14.30	Columns, Pillars, Piers, Abutments, Posts and Struts.	SQM	224.73	453.35	101,881.00
14.40	Stairs, (excluding landings) except spiral-staircases	SQM		395.65	
14.50	Extra for shuttering in circular work(20%of respective centering and shuttering items)	SQM	1508.14	73.12	110,275.00
14.60	Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12mm thick.	SQM	545.02	423.65	230,897.00
14.70	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12mm thick.	SQM	315.70	493.55	155,812.00
14.80	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	SQM		134.70	-

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
15.00	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)				
15.10	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	SQM	189.74	159.05	30,178.00
	TOTAL OF FORM WORK				1,081,515.00
	MASONARY WORK				
16.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
16.10	Cement mortar 1:4 (1 cement : 4 coarse sand)	CUM		4918.65	-
17.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
17.10	Cement mortar 1:4 (1 cement : 4 coarse sand)	CUM	20.50	5667.55	116,182.00
18.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in.				
18.10	cement mortar 1:4 (1 cement : 4 coarse sand)	SQM		584.75	-
19.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
19.10	cement mortar 1:4 (1 cement : 4 coarse sand)	SQM	64.96	665.80	43,252.00
20.00	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	SQM	64.96	69.50	4,515.00
	TOTAL OF MASONARY WORK				163,949.00
	FINISHING				
21.00	15 mm cement plaster on rough side of single or half brick wall of mix :				
21.10	1:6 (1 cement: 6 fine sand)	SQM	1062.14	172.80	183,538.00
22.00	12 mm cement plaster of mix :				
22.10	1:6 (1 cement: 6 fine sand)	SQM	1001.79	149.45	149,718.00
23.00	6 mm cement plaster of mix :				
23.10	1:3 (1 cement: 3 fine sand)	SQM	860.72	134.70	115,938.00
24.00	Finishing walls with Acrylic Smooth exterior paint of required shade :				

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
24.10	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm).	SQM	1157.80	90.00	104,202.00
25.00	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
25.10	Two or more coats on new work.	SQM	1303.95	50.65	66,045.00
26.00	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
26.10	Water thinnable cement primer.	SQM	1303.95	35.85	46,747.00
	Finishing walls with textured exterior paint of required shade :				
27.00	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
27.10	Two or more coats on new work.	SQM	100.00	106.25	10,625.00
28.00	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	SQM	912.76	89.65	81,829.00
	TOTAL OF FINIHING WORK				758,642.00
	FLOORING				
29.00	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : as per drawing/specification or directed by Engineer In charge.				
29.10	25 mm thick.	SQM		1141.60	-
30.00	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete as per drawing/specification or directed by Engineer In charge..	SQM		1191.25	-
31.00	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS :15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	SQM		904.45	

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
32.00	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete				
32.10	40mm thick with 20mm nominal size stone aggregate.	SQM	284.99	353.35	100,701.00
33.00	Cement plaster skirting (up to 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement complete as per drawing/specification or directed by Engineer In charge.				
33.10	18 mm thick.	SQM	191.84	377.25	72,372.00
34.00	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	SQM		212.85	-
35.00	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete as per drawing/specification or directed by Engineer In charge.	SQM		836.65	-
36.00	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	SQM		602.20	-
37.00	Designing , fabrication, testing, installation, installation and fixing in position curtain wall with Aluminium Composite Panel Cladding with open grooves for linear as well as curvilinear portion of the building, for all heights and all levels etc including				
37.10	a) structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it water tight including checking of all the structural and functional design.				

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
37.20	b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated with kynar 500 based PVDF/Lumiflon based fluropolymer resin coating of approved colour and shade on face #1 and polymer (Service) coating on face#2 as specified steel screw, nuts,bolts,washers,cleats,weather silicone sealent, backer rods etc.				
37.30	c) The fastening brackets of Aluminium alloy 6005T5/MS wit Hot dip. Galvanised with serrations and serrated washers to arrest the wind load movement, fastners,SS 316 Pins and anchors bolts of approved make in SS316, Nylon seprators to prevent bi-metallic contacts all complete required to perform as per specification and drawing.				
38.00	The item includes cost of material& labour component, the cost of all mock ups at site, cost of all sample of individual components for testing in an approved laboratory,field tests on the assembled working curtain wall with aluminium composite panel cladding till the handing over of the building for occupation.				
38.10	The contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawing as per item description, as specified, as per the approved shop drawing and as directed by the Engineer- in-Charge.				
38.20	"However for the purpose of payment, only the actual area on the external face of the curtain wall with aluminium composite panel cladding(including width of groove) shall be measured in sqm up to two decimal places."	SQM		3775.30	-
39.00	LAMINATED WOODEN FLOORING Providing and fixing 10 mm thick grade IV laminated floor with HDF base and laminate of approved shade as per manufacturer's catalogue including the cost of PVC sheet, Foam subfloor 2 mm thick and cost of perimeter runner strip and door profile.(Pergo/Armstrong or Equivalent make) The cost to include all materials, labour, lead, lift, wastages, required finishing, etc. complete, as per the instructions and to the satisfaction of the Project Manager.	SQM		1288.00	-
40.00	Providing & fixing 22 mm thick pre-polished colored concrete desiner tiles making by strong vibratorycompection technology using 50% white cement & 50% ordinary cement size 300mm x 300mm, laid in footpath & courtyard, on 20 mm thick bed cement mortar 1:4 {1 Cement: 4 fine sand} joined with neat cement slurry mixed with pigment to match the sade of tiles including rubbing and polishing complete as per direction of the Engineer-in-charge.	SQM	118.49	697.70	82,670.00

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
41.00	Carpet Flooring Supply and Installing synthetic latex broadloom carpet of 1,77,750 tufts per sq mtr , with thickness of 5mm of approved shade and color , PP base broadloom over underlay of 12 mm thick foam base fixed to exiting floor with rubber based adhesive including smoothing the surface and trimming the edges to give smooth and even finish with no undulations or warps. 10% contingencies to be considered in quantity, however 5% attic stock to be considered over and above.Protecting the material on site is supplier's responsibility. Rate to include all wastage as applicable, freight and handling , installed at site as per design and edge stiching etc. complete as per drawing/specification or directed by Engineer In charge. . Make- Unitek (Melody) or equivalent	SQM		2150.29	-
42.00	Extra for providing pigment in flooring	SQM	476.83	35.00	16,689.00
43.00	Extra for providing floor hardner of Fosroc make Nitoflor-Hardstop standard in approved make @ 4.5 Kg per Sqm or as per the manufaxcturer's specification and as direction of the Engineer-in-Charge.	SQM	284.99	210.99	60,130.00
44.00	Granite Flooring Providing and laying flooring using 18 mm thick Granite of approved size, pattern laid over 20mmthick bed CM 1:4 for flooring, using cement slurry below slabs for packing,asper architectural design, drawing and specifications, including joint filling with approved qualityand colour cement to match the shade of Granite.The work shall include cost of materials,wastage, labour, all lead and lift at all levels, loading and unloading, transportation,cutting, curingetc. and all other incidental charges etc.complete as per drawing/specification or directed by Engineer In charge.	SQM		4528.34	-
45.00	Providing and laying Granite stone using 18 mm thick for skirting , riser and dado , laid over 20mmthick CM 1:4 , using cement slurry,asper architectural design, drawing and specifications, including joint filling with approved qualityand colour cement to match the shade of Granite.The work shall include cost of materials,wastage, labour, all lead and lift at all levels, loading and unloading, transportation,cutting, curingetc. and all other incidental charges etc.complete as per drawing/specification or directed by Engineer In charge.	SQM		6439.64	-
46.00	Extra for making flamed in granite stone as per direction by engineer in charge	SQM		180.00	-
47.00	Extra for making flamed in kota stone as per direction by engineer in charge	sqm		251.83	-

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
48.00	40 mm thick stiching slab (1:2:4) with colour pigment and integral water proffing compound and reinforced with welded mesh specification as per drawing complete in all respect as per Engineer In Charge.	SQM		757.00	-
49.00	Supply & Fixing homogeneous & abrasion resistant Poly Vinyl flooring 2mm thick of desired shade & in desired patterns, in all cabins & corridors , cleaning of surface to give smooth & even floor with all labour and material T&P required for proper completion of work.	SQM		1800.00	-
	TOTAL OF FLOORING WORK				332,562.00
	WATER PROFFING				
50.00	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :				
50.1	i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
50.2	ii) 11nd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
50.3	iii) 111rd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area.				
50.4	iv) 1Vth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.) complete as per drawing/specification or directed by Engineer In charge.	SQM	284.99	522.90	149,021.00
51.00	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement :3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete as per drawing/specification or directed by Engineer In charge. .			186.65	-

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
52.00	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound@ 0.253 kg/sqm. b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound@ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately For the purpose of measurement the entire treated surface will be measured) complete as per drawing/specification or directed by Engineer In charge.	SQM		390.35	-
53.00	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : i) 1st layer of 22mm to 25mm thick approved and specified rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. iii) Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer complete as per drawing/specification or directed by Engineer In charge.				
53.10	Using rough kota stone.	SQM		1022.45	-
54.00	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm(minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :				
54.10	Using rough Kota stone	SQM		1243.25	-
	TOTAL OF WATER PROFFING WORK				149,021.00
	STEEL WORK				

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
55.00	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 -part 1 and M.S. top cover of required thickness for rolling shutters.				
55.1	a)80x1.25mm M.S. laths with 1.25 mm thick top cover.	Sqm		2142.10	-
56.00	Providing and fixing ball bearing for rolling shutters.	No.		438.95	-
57.00	Extra for providing mechanical device chain and crank operation for operating rolling shutters.				
57.1	a) Exceeding 10.00 sqm and upto 16.80 sqm in the area.	Sqm		724.85	-
57.2	b) Exceeding 16.80 sqm in area.	Sqm		724.85	-
58.00	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.				
58.10	E.R.W. tubes.	KG		129.15	-
59.00	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).				
		Kg	2427.00	619.40	1,503,284.00
	TOTAL OF STEEL WORK				1,503,284.00
	JOINERY WORK				

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
60.00	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
60.10	For fixed portion				
60.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	KG	370.43	348.50	129,093.00
	FOR SHUTTERS WINDOW& DOOR IN ALUMINIUM WORK				
61.00	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
61.10	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	KG		405.90	-
62.00	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
62.10	B) With float glass panes of 5.50 mm thickness	SQM	2.11	1054.20	2,226.00
63.00	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.				
63.10	With stainless steel cover plate minimum 1.25 mm thickness.	EACH		2039.00	-

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
64.00	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.				
64.10	B) 255 X 19 mm	EACH		275.25	-
65.00	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:				
65.10	125x75x4 mm	EACH	33.00	108.85	3,592.00
64.00	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :				
64.10	250x16 mm	EACH	22.00	189.00	4,158.00
65.00	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
65.10	200x10 mm	EACH	44.00	79.25	3,487.00
66.00	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
66.10	125 mm	EACH	44.00	69.80	3,071.00
66.20	100 mm	EACH		55.10	-
67.00	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868)transparent or dyed to required colour and shade with necessary screws etc. complete.				
67.10	Single rubber stopper	EACH	5.00	37.50	188.00
67.20	Twin rubber stopper	EACH	5.00	83.95	420.00
68.00	Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles with necessary screws etc. complete (Best make of approved quality).	EACH	11.00	815.45	8,970.00
69.00	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
69.10	Using M.S. angels 40x40x6 mm for diagonal braces.	SQM	3.00	3073.85	9,222.00
70.00	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size, with top and bottom rail of T-iron 40x40x6mm, with 40mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	SQM	3.00	5291.30	15,874.00
71.00	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :				
71.10	Rectangular or square.	SQM	0.04	139.40	6.00
72.00	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	SQM		104.55	-
73.00	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I.sheet (zinc coating not less than 120gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 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 dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge(Dash fastener to be paid for separately).	RMT		1250.05	-
74.00	Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II) tested and certified as per laboratory approved by Engineer-in-charge with suitable mounting on doorframe, consisting of vertical styles, lock rail, top rail 100mm wide, bottom rail 200mm wide, made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/sqm duly filled FR insulation material) and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge(pannelling to be paid for separately).	SQM		6268.20	-
75.00	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.	EACH		6133.20	-
76.00	Providing and fixing MASONITE FLUSH DOOR SHUTTER MF on both sides, Hot pressed, bonded With BWP Grade Resin, stiles and Rails in Timber, And with Tubular Core filler complete including all necessary fittings etc complete as per direction of Engineer-In- Charge.				
76.10	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	SQM	16.41	10904.16	178,929.00

RAMP RG 4 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
77.00	Providing and fixing of galvanised M wire gauze with 0.63 mm dia in Aluminium window as per direction of Engineer in Charge.	SQM		740.00	-
	TOTAL OF JOINERY WORK				359,236.00


Sourav Das Gupta
HON. GENERAL SECRETARY, TCA
Hony. General Secretary
Tripura Cricket Association

ESTIMATED FOR RAMP AT RG 5 BUILDING OF STADIUM TRIPURA

RAMP AT RG 5 BUILDING		
SL. NO	ITEMS OF WORKS	AMOUNT
A	EARTH WORK	348,165.00
B	CONCRETE WORK	13,117,738.00
C	FORM WORK	1,247,881.00
D	MASONARY WORK	163,949.00
E	FINISHING WORK	864,600.00
F	FLOORING WORK	439,884.00
G	WATER PROFFING WORK	149,021.00
H	STEEL WORK	1,503,284.00
I	JOINERY WORK	359,236.00
	GRAND TOTAL	18,193,758.00

RAMP AT RG 5 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
	EARTH WORK				
1.00	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sum on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
1.10	All kinds of soil	CUM	723.86	155.60	112,632.00
2.00	Extra for every additional lift of 1.5 m or part thereof in excavation/ banking excavated or stacked materials.				
2.10	All kinds of soil.	CUM	289.54	46.25	13,391.00
3.00	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	CUM	18.62	910.25	16,948.00
4.00	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	CUM	487.04	112.40	54,743.00
5.00	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	CUM	308.00	308.35	94,972.00
6.00	Supplying chemical emulsion in sealed containers including delivery as specified.				
6.10	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	Litre	40.35	185.95	7,503.00
7.00	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
8.00	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :				
8.10	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	Sqm	403.50	118.90	47,976.00
	TOTAL OF EARTH WORK				348,165.00
	CONCRETE WORK				
9.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
9.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	CUM	43.97	4004.00	176,070.00

RAMP AT RG 5 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
10.00	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
10.10	All works up to plinth level.	CUM	284.21	6296.15	1,789,445.00
10.20	All works above plinth level up to floor V level.	CUM	368.48	7014.55	2,584,704.00
11.00	Providing M-30 grade concrete instead of M-25 grade BMC/RMC.	CUM	326.35	76.50	24,965.00
12.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
12.10	Thermo-Mechanically Treated bars.	KG	52505.13	68.10	3,575,599.00
13.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
13.10	Thermo-Mechanically Treated bars.	KG	72936.19	68.10	4,966,955.00
	TOTAL OF CONCRETE WORK				13,117,738.00
	FORM WORK				
14.00	Centering and shuttering including strutting, propping etc. and removal of form for :				
14.10	Foundations, footings, bases of columns, etc. for mass concrete.	SQM	167.66	196.45	32,936.00
14.20	Wall (any thickness) including attached pilasters, buttersesses, plinth and string course etc	SQM	1478.67	360.80	533,503.00
14.30	Columns, Pillars, Piers, Abutments, Posts and Struts.	SQM	224.73	453.35	101,881.00
14.40	Stairs, (excluding landings) except spiral-staircases	SQM		395.65	
14.50	Extra for shuttering in circular work(20%of respective centering and shuttering items)	SQM	1794.36	73.12	131,204.00
14.60	Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12mm thick.	SQM	619.30	423.65	262,367.00
14.70	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12mm thick.	SQM	315.70	493.55	155,812.00
14.80	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	SQM		134.70	-

RAMP AT RG 5 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
15.00	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)				
15.10	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	SQM	189.74	159.05	30,178.00
	TOTAL OF FORM WORK				1,247,881.00
	MASONARY WORK				
16.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
16.10	Cement mortar 1:4 (1 cement : 4 coarse sand)	CUM		4918.65	-
17.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
17.10	Cement mortar 1:4 (1 cement : 4 coarse sand)	CUM	20.50	5667.55	116,182.00
18.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in.				
18.10	cement mortar 1:4 (1 cement : 4 coarse sand)	SQM		584.75	-
19.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
19.10	cement mortar 1:4 (1 cement : 4 coarse sand)	SQM	64.96	665.80	43,252.00
20.00	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	SQM	64.96	69.50	4,515.00
	TOTAL OF MASONARY WORK				163,949.00
	FINISHING				
21.00	15 mm cement plaster on rough side of single or half brick wall of mix :				
21.10	1:6 (1 cement: 6 fine sand)	SQM	1227.54	172.80	212,118.00
22.00	12 mm cement plaster of mix :				
22.10	1:6 (1 cement: 6 fine sand)	SQM	1167.19	149.45	174,436.00
23.00	6 mm cement plaster of mix :				
23.10	1:3 (1 cement: 3 fine sand)	SQM	935.00	134.70	125,944.00
24.00	Finishing walls with Acrylic Smooth exterior paint of required shade :				

RAMP AT RG 5 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
24.10	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm).	SQM	1323.20	90.00	119,088.00
25.00	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
25.10	Two or more coats on new work.	SQM	1489.99	50.65	75,468.00
26.00	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
26.10	Water thinnable cement primer.	SQM	1489.99	35.85	53,416.00
27.00	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
27.10	Two or more coats on new work.	SQM	100.00	106.25	10,625.00
28.00	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	SQM	1043.00	89.65	93,505.00
TOTAL OF FINIHING WORK					864,600.00
FLOORING					
29.00	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : as per drawing/specification or directed by Engineer In charge.				
29.10	25 mm thick.	SQM		1141.60	-
30.00	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete as per drawing/specification or directed by Engineer In charge..	SQM		1191.25	-
31.00	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS :15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	SQM		904.45	
32.00	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete				
32.10	40mm thick with 20mm nominal size stone aggregate.	SQM	284.99	353.35	100,701.00

RAMP AT RG 5 BUILDING

SI. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
33.00	Cement plaster skirting (up to 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement complete as per drawing/specification or directed by Engineer In charge. .				
33.10	18 mm thick.	SQM	191.84	377.25	72,372.00
34.00	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	SQM		212.85	-
35.00	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete as per drawing/specification or directed by Engineer In charge. .	SQM		836.65	-
36.00	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	SQM		602.20	-
37.00	Designing , fabricationg, testing, installation, installation and fixing in position curtain wall with Aluminium Composite Panel Cladding with open grooves for linear as well as curvilinear portion of the building, for all heights and all levels etc including				
37.10	a) structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it water tight including checking of all the structural and functional design.				
37.20	b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated with kynar 500 based PVDF/Lumiflon based fluropolymer resin coating od approved colour and shade on face #1 and polymer (Service) coating on face#2 as specified steel screw, nuts,bolts,washers,cleats,weather silicone sealent, backer rods etc.				

RAMP AT RG 5 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
37.30	c) The fastening brackets of Aluminium alloy 6005T5/MS wit Hot dip. Galvanised with serrations and serrated washers to arrest the wind load movement, fastners,SS 316 Pins and anchors bolts of approved make in SS316, Nylon seprators to prevent bi-metallic contacts all complete required to perform as per specification and drawing.				
38.00	The item includes cost of material& labour component, the cost of all mock ups at site, cost of all sample of individual components for testing in an approved laboratory,field tests on the assembled working curtain wall with aluminium composite panel cladding till the handing over of the building for occupation.				
38.10	The contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawing as per item description, as specified, as per the approved shop drawing and as directed by the Engineer- in-Charge.				
38.20	"However for the purpose of payment, only the actual area on the external face of the curtain wall with aluminium composite panel cladding(including width of groove) shall be measured in sqm uo to two decimal places."	SQM		3775.30	-
39.00	LAMINATED WOODEN FLOORING Providing and fixing 10 mm thick grade IV laminated floor with HDF base and laminate of approved shade as per manufacturer's catalogue including the cost of PVC sheet, Foam subfloor 2 mm thick and cost of perimeter runner strip and door profile.(Pergo/Armstrong or Equivalent make) The cost to include all materials, labour, lead, lift, wastages, required finishing, etc. complete, as per the instructions and to the satisfaction of the Project Manager.	SQM		1288.00	-
40.00	Providing & fixing 22 mm thick pre-polished colored concrete desiner tiles making by strong vibratorycompection technology using 50% white cement & 50% ordinary cement size 300mm x 300mm, laid in footpath & courtyard, on 20 mm thick bed cement mortar 1:4 (1 Cement: 4 fine sand) joined with neat cement slurry mixed with pigment to match the sade of tiles including rubbing and polishing complete as per direction of the Engineer-in-charge.	SQM	118.49	697.70	82,670.00

RAMP AT RG 5 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
41.00	Carpet Flooring Supply and Installing synthetic latex broadloom carpet of 1,77,750 tufts per sq mtr , with thickness of 5mm of approved shade and color , PP base broadloom over underlay of 12 mm thick foam base fixed to exiting floor with rubber based adhesive including smoothing the surface and trimming the edges to give smooth and even finish with no undulations or warps. 10% contingencies to be considered in quantity, however 5% attic stock to be considered over and above. Protecting the material on site is supplier's responsibility. Rate to include all wastage as applicable, freight and handling , installed at site as per design and edge stiching etc. complete as per drawing/specification or directed by Engineer In charge. . Make- Unitex (Melody) or equivalent	SQM		2150.29	-
42.00	Extra for providing pigment in flooring	SQM	476.83	35.00	16,689.00
43.00	Extra for providing floor hardner of Fosroc make Nitoflor-Hardstop standard in approved make @ 4.5 Kg per Sqm or as per the manufaxcturer's specification and as direction of the Engineer-in-Charge.	SQM	284.99	210.99	60,130.00
44.00	Granite Flooring Providing and laying flooring using 18 mm thick Granite of approved size, pattern laid over 20mmthick bed CM 1:4 for flooring, using cement slurry below slabs for packing,asper architectural design, drawing and specifications, including joint filling with approved qualityand colour cement to match the shade of Granite.The work shall include cost of materials,wastage, labour, all lead and lift at all levels, loading and unloading, transportation,cutting, curingetc. and all other incidental charges etc.complete as per drawing/specification or directed by Engineer In charge.	SQM		4528.34	-
45.00	Providing and laying Granite stone using 18 mm thick for skirting , riser and dado , laid over 20mmthick CM 1:4 , using cement slurry,asper architectural design, drawing and specifications, including joint filling with approved qualityand colour cement to match the shade of Granite.The work shall include cost of materials,wastage, labour, all lead and lift at all levels, loading and unloading, transportation,cutting, curingetc. and all other incidental charges etc.complete as per drawing/specification or directed by Engineer In charge.	SQM		6439.64	-
46.00	Extra for making flamed in granite stone as per direction by engineer in charge	SQM		180.00	-
47.00	Extra for making flamed in kota stone as per direction by engineer in charge	sqm		251.83	-

RAMP AT RG 5 BUILDING

Sl. No	Description of Work	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
48.00	40 mm thick stiching slab (1:2:4) with colour pigment and integral water proffing compound and reinforced with welded mesh specification as per drawing complete in all respect as per Engineer In Charge.	SQM		757.00	-
49.00	Supply & Fixing homogeneous & abrasion resistant Poly Vinyl flooring 2mm thick of desired shade & in desired patterns, in all cabins & corridors , cleaning of surface to give smooth & even floor with all labour and material T&P required for proper completion of work.	SQM		1800.00	-
50.00	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete, on 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand)complete as per drawing/specification or directed by Engineer In charge.				
	Light shade using white cement.	SQM	118.49	905.75	107,322.00
	TOTAL OF FLOORING WORK				439,884.00
	WATER PROFFING				
51.00	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with waterproofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer in-charge. d) Finishing the surface with 20 mm thick jointless				
51.10	With average thickness of 120mm and minimum thickness at khurra as 65 mm.	SQM		786.70	-
52.00	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :				
52.1	i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				