

ESTIMATE

FOR

**INFRASTRUCTURE DEVELOPMENT
OF
SRIMANTA SANKARADEVA BHAWAN,
AT
SATSANG VIHAR MARG, A-14/B, QUTUB
INSTITUTIONAL AREA, NEW DELHI**

AUGUST - 2021

ARCHITECTS :

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NEW DELHI-110029**

NAME OF PROJECT: INFRASTRUCTURE DEVELOPMENT OF SRIMANTA SANKARADEVA BHAWAN, SATSANG VIHAR MARG, A-14/B, QUTUB INSTITUTIONAL AREA, NEW DELHI

DETAILED ESTIMATE

SCOPE OF WORK

The scope of work include :

1. Addition of toilets in Room No. 5,6,7 & 12, Boys and Girls Dormitory at 2nd and 3rd floors.
2. Conversion of Toilets in to Room No. 4 & 11 with attached toilets at 2nd and 3rd floor.
3. Renovation work of toilets on all floors.
4. Change of vitrified tile flooring in place of exiting flooring in all rooms.
5. Internal and external painting.
6. Laying paver block work as required.
7. Sanitary & Electrical fixtures
8. Concertina coil fencing on boundary wall

✓ Technical Member / Member
Construction Committee
Infrastructure Development of
Srimanta Sankaradeva Bhawan, New Delhi
(S. P. PRADYU) (S. K. THAKUR)

Subrat Jute
(D. B. Jant Datta)

President / Secretary
Construction Committee
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Technical Member / Member
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NAME OF PROJECT : INFRASTRUCTURE DEVELOPMENT OF SRIMANTA SANKARADEVA BHAWAN, AT SATSANG VIHAR MARG, A-14/B, QUTUB INSTITUTIONAL AREA, NEW DELHI

ADDITION & ALTERATION WORKS

S.NO.	DESCRIPTION OF SUB HEAD	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	DSR-19 NO.
1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering					
1.1	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)					
a)	All work upto plinth level	20	Cum	5789.60	115792.00	4.1.8
2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:					
a)	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	5	Cum	8976.45	44882.00	4.2.2
3	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in small lintels not exceeding 1.5m clear span up to floor five level, including the cost of required centering, shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone- III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size)	1	Cum	12464.25	12464.25	5.13
4	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.					
a)	50 mm thick	30	Sqm	1474.05	44221.50	5.18
5	Brick work with FPS bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in					
a)	Cement mortar 1:6 (1 cement : 6 coarse sand)	16	Cum	7590.45	121447.00	6.4.2

S.NO.	DESCRIPTION OF SUB HEAD	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	DSR-19 NO.
6	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					
a)	Cement mortar 1:4 (1 cement :4 coarse sand)	200	Sqm	932.10	186420.00	6.13.2
7	Extra for providing and placing in position 2 Nos 6 mm dia M.S bars at every third course of half brick masonry.	200	Sqm	80.10	16020.00	6.15
8	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters					
a)	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	20	Sqm	1886.70	37734.00	9.21.1
9	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					
a)	Fixed to steel windows by welding	200	Kg.	165.30	33060.00	9.48.1
10	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					
a)	300x16mm	10	Each	257.15	2572.00	9.96.1
b)	250x16mm	10	Each	231.70	2317.00	9.96.2
11	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 :					
a)	300x10 mm	20	Each	116.80	2336.00	9.97.1
b)	150x10 mm	32	Each	75.00	2400.00	9.97.4
12	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.					
a)	125 mm	48	Each	59.65	2863.00	9.100.1

S.NO.	DESCRIPTION OF SUB HEAD	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	DSR-19 NO.
13	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 or shade with necessary screws etc. complete.					
a)	Twin rubber stopper	10	Each	62.05	621.00	9.101.2
14	Providing and fixing aluminium casement stays, 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.	28	Each	62.55	1751.00	9.102
15	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 of approved quality with necessary screws etc. complete.	10	Each	748.65	7487.00	9.103
16	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	50	M	679.85	33993.00	9.121
17	Providing and fixing to existing door frames					
	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	16	Sqm	3931.95	62911.00	9.122.2

S.NO.	DESCRIPTION OF SUB HEAD	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	DSR-19 NO.
18	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.					
a)	1.0mm thick	20	Sqm	717.65	14353.00	9.127.2
19	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).					
a)	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	200	Kg	106.05	21210.00	10.11.2
20	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:					
a)	Profile C - Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	105	M	433.65	45533.00	10.14.2.2
21	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
a)	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	270	Kg.	131.00	35370.00	10.25.2

S.NO.	DESCRIPTION OF SUB HEAD	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	DSR-19 NO.
22	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.	415	Sqm	1030.30	427575.00	8.31
23	Providing and laying Ceramic glazed floor tiles (anti-skid) 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 : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	150	Sqm	926.90	139035.00	11.37
24	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.8% and conforming to IS : 15622 of approved make in all colours and shades laid over 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigment etc. complete - Size of tile 600x600 mm	400	Sqm	1500.55	600220.00	11.41.2
25	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. - Size of tiles 600x600mm	40	Sqm	1545.85	61834.00	11.46.2

S.NO.	DESCRIPTION OF SUB HEAD	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	DSR-19 NO.
26	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to					
	be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with alvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.					
	Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/ opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK.	75	Sqm	1643.95	123296.00	12.53
27	12mm cement plaster of mix:					
a)	1:6 (1 cement : 6 fine sand)	260	Sqm	254.25	66105.00	13.1.2
28	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement : 6 fine sand)	260	Sqm	292.85	76141.00	13.2.2

S.NO.	DESCRIPTION OF SUB HEAD	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	DSR-19 NO.
29	6 mm cement plaster of mix:					
a)	1:3 (1 cement : 3 fine sand)	55	Sqm	227.35	12504.00	13.16.1
30	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	3000	Sqm	153.45	460350.00	13.41.1
31	Finishing walls with Acrylic Smooth exterior paint of required shade : 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)	1000	Sqm	164.70	164700.00	13.46.1
32	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	170	Sqm	121.55	20664.00	13.61.1
33	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing he top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in-charge (payment for providing grooves shall be made separately).	220	Sqm	896.75	197285.00	13.72
34	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge : 15 mm wide and 15 mm deep groove	150	M	57.15	8573.00	13.73.1
35	Extra for using white cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	220	Sqm	83.75	18425.00	13.77

S.NO.	DESCRIPTION OF SUB HEAD	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	DSR-19 NO.
36	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	250	Sqm	257.95	64488.00	14.72
37	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
a)	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	35	Cum	1072.80	37548.00	15.52.2
38	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.					
a)	In cement mortar	30	Cum	1469.90	44097.00	15.7.4
39	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead					
a)	Of area beyond 3 sq. metres	6	Each	375.65	2254.00	15.12.2
40	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :					
a)	Of area beyond 3 sq. metres	26	Each	140.70	3658.00	15.13.2
41	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	300	Sqm	54.85	16455.00	15.23.1

S.NO.	DESCRIPTION OF SUB HEAD	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	DSR-19 NO.
42	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of coarse sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks, lawns, drive ways or light traffic parking etc. complete as per manufacturer's specifications & direction of Engineer-in-Charge.					
a)	80 mm thick C.C. paver block of M-30 grade with approved colour, design & pattern.	600	Sqm	953.00	571800.00	16.91.2
43	P/S sanitary fixtures and toilet requisites including GI & CI pipe work complete as per drawings	18	Each	75000.00	1350000	M.R
44	P/F, testing and commissioning of electric fittings including PVC conduiting, copper wiring, fan box, switch, metal box etc. complete in all respects as per drawings	1	L.S	250000.00	250000	M.R
45	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	130	M	290.80	37804.00	16.53
	SUB TOTAL				5602568.75	
	LESS CP & OH @ 15% (only on DSR Items)				600385.31	
	TOTAL				5002183.44	
					Say Rs. 50.00 lakh	


 (VIJAY BEHAL)
 ARCHITECT/PARTNER