

ABSTRACT OF COST

NAME OF WORK : Renovation of New Teacher's Residence 4 unit 2 blocks (01 to 04) in the Campus of Netarhat Residential School, Netarhat

S. No.	Item of Work	Amount (Rs.)
01.	Estimate for New Teacher's Residence	1853398.00
02.	Water Supply & Sanitary Works	101086.00
03.	Internal Electrification	99748.00
	Total	2054232.00
	Add GST 18%	369762.00
	Total	2423984.00
	Add Labour Cess @ 1%	24240.00
	Total	2448234.00
	Say	2448200.00

Annexure - I

Cost Estimate For Renovation of New Teacher's Residence (2 block-4 unit--- 1 to 4)												
SL. NO	ITEM NO.	DESCRIPTION OF ITEM	NOS.	LENGTH	WIDTH	HEIGHT / DEPTH	MF	TOTAL QUANTIT Y	UNIT	Rate	Amount	
				(M)	(M)	(M)				Rs.	Rs.	
1	5.10.7	Dismantling old plaster and pointing in cement or lime and raking out joints to 15 mm. depth, watering and disposal of unserviceable materials with all leads all complete as per direction of E/l.										
		External Plaster										
		Ground Floor										
		Outer Building Length Ground Floor	1	192.000	Length	14.000		2688.00				
		Outer Building Length First Floor	1	192.000	Length	12.000		2304.00				
		Terrace Parapet wall	1	192.000	Length	3.000		576.00				
									5568.00	SFT		
		Total External Plaster							517.47	A		
				Ground Floor Lvl.								
		Internal Plaster										
		Verandah	2	11.500	6.083	12.000	2	843.98				
		Room-1	2	10.417	11.500	12.000	2	1052.02				
		Room-2	2	11.500	13.333	12.000	2	1191.98				
		Toilet	2	5.160	8.830	12.000	2	669.89				
		Dinning	2	9.500	7.830	12.000	2	831.84				
		Kitchen	2	8.583	7.830	12.000	2	787.82				
		Store Room	2	8.583	4.000	12.000	2	603.98				
		Stair Side Wall	2	9.830	6.567	12.000	2	787.06				
		Decduction										
		MS DOOR	2	3.500		7.000	2	-49.00	-			
		GRILL	2	6.000		4.000	2	-48.00				

		D1	2	3.500		7.000	2	-49.00			
		D2	-7	3.000		7.000	2	294.00			
		D3	-4	2.500		7.000	2	-140.00			
		W	-1	2.000		4.000	2	-16.00			
		W1	-5	3.000		4.000	2	-120.00			
		W2	-2	6.000		4.000	2	-96.00			
		V	-1	2.000		2.000	2	-8.00			
								5948.57	SFT		
		Total Ground Internal Plaster						552.84	A		
		First Floor Lvl.									
		Balcony	2	11.500	6.083	12.000	2	843.98			
		Room-1	2	10.417	11.500	12.000	2	1052.02			
		Room-2	2	11.500	13.333	12.000	2	1191.98			
		Toilet	2	5.126	8.830	12.000	2	669.89			
		Dinning	2	9.500	7.830	12.000	2	831.84			
		Stair side wall	2	9.830	6.567	12.000	2	787.06			
		Decduction									
		Grill	-1	11.500		4.000	2	-92.00			
		D1	-1	3.500		7.000	2	-49.00			
		D2	-6	3.000		7.000	2	-252.00			
		D3	-2	2.500		7.000	2	-70.00			
		W	1	2.000		4.000	2	16.00			
		W1	-4	3.000		4.000	2	-96.00			
		V	-1	2.000		2.000	2	-8.00			
		Terrace Parapet wall	1	32.000	Length	3.000	2	96.00			
								4755.77	SFT		
		Total First Internal Plaster						441.99	B		
		Total Internal Plaster (A+B)						994.83	SQM		
		Total Internal and External Plaster						1511.93	SQM	C	

		Taking 10 %						151.19	SQM	21.46	3244.60
2	5.7.3	Providing 12mm thick water proof cement plaster (1:3) with clean coarse sand of F.M. 1.5with 5% cico or any other approved water proofing compoundincluding taxes and royalty all complete as per building specification and direction of E/l.									
		Same as Dismenteled Plaster Taking 15%						226.78	SQM	165.80	37,600.12
3	5.7.6	Providing 6 mm thick cement plaster (1:4) in ceiling with clean coarse sand of F.M. 1.5 including screening, curing with all leads & lifts of water, scaffolding taxes & royalty all complete as per building specification and direction of E/l.									
		Ceiling Plaster									
		Verandah	1	11.500	6.083		2	139.91			
		Room-1	1	10.417	11.500		2	239.59			
		Room-2	1	11.500	13.333		2	306.66			
		Toilet	1	5.126	8.830		2	90.53			
		Dinning	1	9.500	7.830		2	148.77			
		Kitchen	1	8.583	7.830		2	134.41			
		Store Room	1	8.583	4.000		2	68.66			
		Stair Side Wall	1	9.830	6.567		2	129.11			
								1257.64	SFT		
		Total Ceiling Plaster						116.881	A		
		First Floor Lvl.									
		Balcony	1	11.500	6.083		2	139.91			

		Room – 1	1	10.417	11.500		2	239.59				
		Room – 2	1	11.500	13.333		2	306.66				
		Toilet	1	5.126	8.830		2	90.53				
		Dining	1	9.500	7.830		2	148.77				
		Stair Side Wall	1	9.830	6.567		2	129.11				
								1054.56	SFT			
		Total First Ceiling Plaster							98.008	B		
		Total Ceiling Plaster							214.888			
								10.744	SQM	184.06	1977.54	
4	5.8.18	Providing two coats of oil bond distemper of approved shade and make over old surface including washing, cleaning and preparing the walls, scaffolding, washing of floor and taxes all complete as per building specification and direction of E/l.										
		Same as Internal Plaster							1209.72	SQM	90.16	1,09,067.93
5	DSR / 13.111.1	Finishing walls with Acrylic Smooth exterior paint of required shade : Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface										
		Same as External Plaster							517.47	i		
		Total							517.47	SQM	98.53	50,986.53
6	DSR / 13.80	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.										
		Taking 100 % (Internal & external) item no 4+5							1727.19	SQM	127.34	2,19,940.04

7	5.8.9	Extra for cleaning the old surface by scrapping the entire old white wash or colour wash including cost of scaffolding all complete as per direction of E/l.									
		Taking 100 %						1727.19	SQM	12.59	21,745.29
8	5.10.11	Taking down chowkhat in doors including stacking serviceable materials within 15M. lead and disposal of unserviceable materials with all leads all complete as per direciton of E/l.									
		Taking down window									
		Ground Floor									
		D3	2	2.500			2	4.00			
		First Floor									
		D3	1	2.500			2	2.00			
		Total						6.00	Each	89.88	539.28
9	5.10.12	Taking down chowkhat in Windows including stacking serviceable materials within 15M. lead and disposal of unserviceable materials with all leads all complete as per direciton of E/l.									
		Taking down window									
		Ground Floor									
		W2	1	6.000			2	2.00			
		First Floor									
		W1	1	3.000			2	2.00			
		Total						4.00	Each	138.07	552.28

10	5.10.10	Taking down old door and window shutters including stacking serviceable materials within 15M. lead and disposal of unserviceable materials with all leads all complete as per direction of E/l.									
		Window Shutter						4.00			
		Door Shutter						6.00			
		Total						10.00	Each	45.12	451.20
11	5.4.1	Supplying, fitting and fixing good quality, well dressed and well seasoned sal wood work in chauhath in doors, windows, skylight, fanlights and ceiling windows openings, including wedge over clamps all complete including application of two coats of wood preservative of approved quality on the surface butting walls and lintels all complete as per building specification and direction of E/l									
		Ground Floor									
		D3	2	6.700	0.075	0.125	2	0.251			
		W2	1	8.400	0.075	0.125	2	0.158			
		W2	1	4.800	0.075	0.125	2	0.090			
		First Floor									
		D3	1	6.700	0.075	0.125	2	0.126			
		W1	1	4.200	0.075	0.125	2	0.079			
		Total						0.613	CUM	66,362.0 6	40,688.24

12	5.4.11	Supplying , fitting and fixing 38 mm thick good quality , well dressed and well seasoned sal wood fully paneled shutters in doors and windows with 25 mm thick panels with one side plain and other side chamfered with aluminium fittings such as hinges, sliding doors, bolts, tower bolts, handles or rings, hooks and eyes cleats, sand blocks as per schedule and 3mm thick plain glass panes fitted with sal wood beads and taxes all complete as per building specification and direction of E/l.									
		Ground Floor									
		D3	2	0.750		2.100	2	6.300			
		First Floor									
		D3	1	0.750		2.100	2	3.150			
		Total						9.450	SQM	4,583.75	43316.44
13	5.4.22	Supplying, fitting and fixing 38 mm thick good quality, well dressed and well seasoned Sal wood 1/3 glazed and 2/3 paneled shutters in windows with iron fittings such as hinges, sliding doors, bolts, tower bolts, handles or rings, sand blocks as per schedule and 3 mm thick plain glass fitted with sal wood beads, taxes all complete as per building specification and direction of E/l.									
		Ground Floor									
		W2	1	1.800		1.200	2	4.32			
		First Floor									
		W1	1	0.900		1.200	2	2.16			

		Total						6.48	SQM	3,076.12	19,933.26
14	5.8.31	Providing two coat of synthetic enamel paint over old wooden surface to give desired texture and gloss with apporoved make and shade of ready mixed french polish including preparing the surface sfter cleaning removing dirt									
		Door area									
		D1	1	1.050		2.100	2	4.410			
		D2	7	0.900		2.100	2	26.460			
		D3	4	0.750		2.100	2	12.600			
		W	1	0.600		1.200	2	1.440			
		W1	5	0.900		1.200	2	10.800			
		W2	2	1.800		1.200	2	8.640			
		V	1	0.600		0.600	2	0.720			
		First Floor									
		D1	1	1.050		2.100	2	4.410			
		D2	7	0.900		2.100	2	26.460			
		D3	4	0.750		2.100	2	12.600			
		W	1	0.600		1.200	2	1.440			
		W1	5	0.900		1.200	2	10.800			
		W2	2	1.800		1.200	2	8.640			
		V	1	0.600		0.600	2	0.720			
								117.90	SQM		
		2 side Door polishing woodened surface									
								235.8		120.82	28489.35

15	5.5.12	Supplying, fitting and fixing M.S. Grill made of 20x6mm M.S. Flate as per approved design and drawing, properly fabricated with joints continuous fillet welded and finished smooth, carriage of grill to work site, hoisting as per building specification and direction of E/I. (Where materials is not supplied by the deptt.)					Unit				
		@ 2kg/sft M.S grill in Windows									
		Ground Floor Lvl.									
		MS Door	2	3.500	6.500	2	91.00				
		Grill	2	8.000	3.500	2	112.00				
							203.00	SFT			
		First Floor Lvl.									
		Grill	2	12.000	4.500	2	216.00				
							216.00	SFT			
		Total					419.00	SQM	82.31	34487.89	
16	5.8.45	Providing two coats of synthetic enamel paint of approved shade and make over steel surface including cleaning the surface thoroughly, scaffolding and taxes all complete as per building specification and direction of E/I.					Unit				
		Ground Floor Lvl.									
		MS Door	1	3.500	7.000	2	49.00				
		Grill	1	6.000	4.000	2	48.00				
		Grill W	1	2.000	4.000	2	16.00				
		Grill W1	5	3.000	4.000	2	120.00				
		Grill W2	2	6.000	4.000	2	96.00				
		Grill V	1	2.000	2.000	2	8.00				
							337.00				

		First Floor Lvl.								
		Grill	1	11.500		4.000	2	92.00		
		W	1	2.000		4.000	2	16.00		
		W1	4	3.000		4.000	2	96.00		
		v	1	2.000		2.000	2	8.00		
								549.00	SFT	
		Total						886.00	SFT	
								82.34	SQM	66.04
										5437.73
17	5.12.1	<p>Water proofing for old and New Roof Slab :- providing and laying water proofing treatment on roof slab by applying two component, factory designed, ready to use, acrylic modified flexible material brush, roller or spray for water proofing coating per manufacturer specifications with following steps :- (a) surface preparation – providing and cleaning of concrete surface to remove dust, oil, grease including removal of existing(loose paint/coating, and cement laitance by cleaning with compressed air water jet including all materials, labour, tools complete. Ponding test to be done after plugging all outlets and to be checked from soffit to identify seepage leakage. On identification of seepage cement grouting to be done with non shrink expanding admixture of Sika India Pvt. Ltd.) MYK Schomberg/Dr Fixit/Fosroc or equivalent. Providing and repairing of all corner and joints such as those between the parapet wall and the roof slab etc shall be chamfered with</p>								

		150xmrn X 150 mm fillet of mortar (Cement: Sand- 1:4) admixed with acrylic pc?' lymer of Sika/Fosroc/MYK Schomberg/Dr 1:4) admixed with acrylic polymer of Ska/Fosroc/MYK Schomberg/Dr Fixit or equivalent. Befor 'Chamfering a prime coat shall be given with the slurry of acrylic polymer repairing surface irregularities, damaged concerteing base slab, dead cracks if any with an acrylic polymer modified repair mortar-including a coat of bonding agent of the								
		Terrace	1	1847.000	Area SFT		1847.000			
		Total					171.654	SQM	516.98	88741.83
18	5.12.3	Covering of treated surface with PCC:- providing 25 mm thick Cement Concrete M20 (1:1:5:3) maintaining slope in alternate 2mt x 2mt panels with approved quality of stone chips of 20 mm to 6 mm size graded and Cleaned sand of F.M. 2.5 to 3 including screening, shuttering, and mixing cement concrete in mixer with admixture of integral water proofing and placing in position, striking curing, taxes and royalty all complete as per building specification and direction of E/I. panels that has been left should be casted next day. There should be 6 mm gap between panels brand sika plastocrate plus, MYK proof WP 10, Fosroc- conplast x 421 ic Dr fixit Pidiproof LM+								

										367.21	
25	DSR / 8.31	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.									
		For Wall Tiles Area wide item no. 23					81.73	SQM	921.61	75,323.19	
		Ground Floor									
26	5.10.3	Dismantlin R.C.C. work including stacking serviceable materials in countable stacks within 15M. lead and disposal of unserviceable materials with all leads all complete as per direction of E/I									
		Ground Floor									
		Chajja									
			4	4.000	1.500	0.250	6.600				
			4	7.000	1.500	0.250	10.500				
		Total Chajja Ground Floor					16.500	CFT	(A)		
							0.467	M3	1,993.04	931.17	

27	5.3.11	Reinforced cement concrete work in beams, suspended floors, having slope up to 15 landings, balconies, shelves, chajjas, lintels, bands, plain window sill, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zon-III) : 3 graded stone aggregate 20 mm nominal size).									
		QTY wide item no. 26						0.47	M3	6,308.87	2,945.24
28	5.3.17.19	Centering and shuttering including strutting, propping etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers									
		Ground Floor									
		Chajja									
		W1	4	4.000	1.500			24.000	SFT		
		W2	4	7.000	1.500			42.000	SFT		
								66.00	SFT		
								6.13	SQM	445.55	4,223.51
29	5.5	Providing TMT reinforcement of following dia rods as per approved design and drawing including carriage of M.S. rods of (Straight or in coils) to work site, cutting, bending and binding with annealed wire with cost of wire removal of rust placing the rods in position all complete as per building specification and direction of E/I.									
			QTY. (CU)	RF/CUM (KG)	RF (KG)			WT (MT)			
		RCC IN Chajja	0.46	80.000	36.720			0.037	MT		

Annexure - II

New Teachers Residence (2- Block- 4 unit,1-4)						
ABSTRACT OF QTY. & DETAIL ESTIMATES						
THE RATES OF ITEMS ARE BASED ON S.O.R. 2022 and D.S.R.2021						
SANITARY & WATER SUPPLY WORKS						
Sl. No.	Item No.	Description	Qty.	Unit	Rate	Amount
2	3.2.2 (i) (b)	Supplying, fitting and fixing 40 mm high vitreous white glazed earthen ware E.W.C. with "p" trap of Parry Hindustan or any other I.S.S. make including supplying & fixing 15 litres C.I. mosquito proof low down flushing cistern of approved make with complete fittings with C.I. handle and R.S. or bracket with telescopic flush pipe with brass coupling and plumbers joints spindle stop cock of approved quality weight not less than 450 grms. , 15 mm P.V.C. alkathene pipe 45 cm long with brass coupling at both ends and white/ black plastic solid state seal and lead of commander/ cuckoo or other I.S.S. make with hinges or screw etc. painting pipe and cistern etc. with 2 coats of approved paint over a coat of red oxide primer etc. all complete as per specification and direction of E/l. (A) With "P" trap (a)12.5 lit. low level P.V.C. cistern	4	EACH	4,786.86	19,147.44
5	3.5.1	Providing and fixing C.P. brass bib cock of approved conforming to IS 8931 : 15 mm nominal bore	4	EACH	354.59	1,418.36
6	DSR 18.51.1	Providing and fixing C.P.brass long body bib cock of approved quality conforming to standard and weight not less than 690gms.:15 mm nominal bore.	4	EACH	613.92	2,455.67
7	DSR 18.65	Providing and fixing PTMT Soap Dish Holder having length of 138 mm breadth 102 mm, height of 75mm with concealed fitting arrangements, Weighing not less than 106 gms.	4	EACH	83.85	335.38
8	DSR 18.53.1	Providing and fixing C.P. brass angle valve for basin mixer and gysar points of approved quality conforming to IS 8931 15mm nominal bore, approved brand C.P. fittings.	4	EACH	433.62	1,734.47

11	3.2.5	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps , 32 mm C.P. brass waste of standard pattern,including painting of fittings and brackets, cutting and making good the walls wherever require :Falt back wash basin size 630X450 mm with a single 15mm C. P. pillar tap.	2	EACH	2,084.36	4,168.72
15	DSR 18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes joining of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of E/I. (Approved Brand - ASTRAL/ SUPREME)				
		Concealed work including cutting chases and making good the wall etc..				
	a) 18.8.1	15mm dia	10	METER	406.23	4,062.30
	b) 18.8.2	20mm dia	10	METER	439.71	4,397.10
		Exposed on Wall				
	c) 18.7.3	25mm dia	10	METER	327.69	3276.90
18	3.1.6	Providing and fixing C.P. brass Stop Cock (concealed) of standard design and of approved make conforming to IS 8931 15mm nominal bore, approved brand C.P. fittings.	4	EACH	177.40	709.60
19	M079 pg.nos:- 31	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000	pre liter	7.76	7,759.13
20	DSR 17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	4	EACH	177.40	709.59

24	DSR 18.64	Providing and fixing PTMT/ C.P. swivelling shower ,15mm nominal size, 95mm long, 65mm dia. of approved quality, color & make weighing not less than 40 gms with approximate 80 holes of 1.2 mm dia.	4	EACH	91.99	367.97
Total No of Building = Rs.						50542.63
For 1 Building Rs.						50543.00
Total No of Building = 2 Rs.						101086.00

Annexure - III

Estimate For Repair of New Teachers Residence

The rate of items are based on schedule of rate Energy Deppt. W.e.f. 28th July-2022

				Qty.	Unit	Rate	Amount
1	1.3	Wiring for lig/fan point/exhaust fan point/call bell point with 1.5 sq mm FR PVC insulated copper conductor single core cable in surface/recessed conduit					
	1.3.1	Group –A		10	Point	607.00	6070.00
2	1.23	S/F Piano type switch/socket:-					
		Supplying and fixing following piano type switch/socket on the existing switch box/ cover including connections etc. as required.					
	1.23.1	5/6 amps, one way switch		12	Each	32.00	384.00
	1.23.4	3 pin 5/6 amps, socket outlet		12	Each	43.00	516.00
	1.23.3	15/16 amps, one way switch		12	Each	92.00	1104.00
	1.23.5	15/16 amps, 6 pin socket outlet		12	Each	90.00	1080.00
3	1.7	Wiring for circuit submain wiring along with earth wire with the following sizes of PVC insulated copper conductor single core cable in surface of recessed PVC conduit as reqd.					
A	1.7.1	2 x 1.5 sq mm + 1x 1.5 sq mm earth wire		20	Mtr.	147.00	2940.00
B	1.7.2	2 x 2.5 sq mm + 1x 2.5 sq mm earth wire		20	Mtr.	196.00	3920.00
C	1.7.4	2 x 6 sq mm + 1x 6 sq mm earth wire		20	Mtr.	351.00	7020.00
4	1.25	S/F modular type stepped tube electronic fan regulator on the existing plate switch box including connection but excluding modular plate etc as required		8	Each	293.00	2344.00
5	1.22.7	S/F metal box of 180 x 100 x 60 m deep on surface/recessed with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 and 15/16 amp socket outlet and 15/16		12	Each	215.00	2580.00
6	1.34	S/F brass batton/Angle holder including connection etc. as reqd.		12	Each	59.00	708.00
7	1.33	S/F 3 point 5 Amp ceiling rose on the existing junction Box wooden block including connection etc. as reqd.		8	Each	45.00	360.00
8	9.5.2	20/22 watt LED Tube Light		4	Each	628.00	2512.00
9	2.8	S/F the following way single pole and nutral sheet steel M.C.B.D.B consumer unit 240 V on surface/recess					
	2.8.4	2+8 way		4	Each	841.00	3364.00

10	2.11	S/F 'B' series S.P. MCB:-					
		Supply and fixing 6 amps to 32 amps rating 240 volts, 'B' series, miniature circuit breker suitable for lighting					
	2.11.1	6/32 amps, single pole, "B" series		4	Each	244.00	976.00
11	2.12	S/F 'C' series MCB:-					
		Supply and fixing ollowing, 240 volts, 'C' series, miniature circuit breker suitable for inductive loads of					
	2.12.3	6/32 amps, SPN		4	Each	443.00	1772.00
	2.12.10	50/63 amps, DP		4	Each	1308.00	5232.00
12	9.4.1	supply of 48" (1200 mm) ceiling fan Bajaj/Crompton or any other approved make etc without regulator		4	Each	1748.00	6992.00
Sub-Total Rs.							49874.00
Total Number of Building = 2 Nos Rs.							99748.00