Client: MADRAS SCHOOL OF ECONOMICS Proposed Additions and Alterations to Gents Hostel (3rd floor - D Block) Kotturpuram, Chennai. GENERAL BUILDERS WORK SLNO **DESCRIPTION OF WORK** UNIT QUANTITY RATE AMOUNT Rs. Rs. PLAIN CEMENT CONCRETE Cement concrete 1:4:8(1 cement, 4 sand,8 hard blue granite stone metal 40mm and down gauge) in layers not exceeding 15cms in depth well 1.a cu.m 3.00 consolidated in levelling course under floors including ecessary shuttering of required profile all complete as directed. Providing and injecting chemical emulsion using Chloropyrifos(dursban) mixed as a water emulsion in ratio1:19 or equivalent for antitermite treatment and creating a chemical barrier all round the column pits, wall trenches, top surface of plinth filling, junction of wall and floor along the exterior 1.b sq.m 320.00 perimeter of the building, expansion joints. surroundings of pipes and conduits etc. all complete as per IS 6313(part-II) 1981. (Plinth area of the building at ground floor only shall be measured excluding yard/open areas) **PCC WORK SUMMARY** REINFORCED CEMENT CONCRETE RCC M25(design mix) using hard blue granite metal 20mm and down gauge including centering, 2 shuttering, curing etc. complete but excluding cost of reinforcement. Minium cement content should be 340kg/cu.m. In columns in super structure Third floor 7.00 а cu.m Headroom and Terrace floor cu.m in Lintels, Brackets 2.2 Third floor 5.00 cu.m а Headroom and Terrace floor 0.50 cu.m In sunshades of 75mm thickness including 2.3 plastering of all exposed surfaces with C.M 1:3, 13 mm minimum thick all complete as directed. Third floor 15.00 sq.m in Sill slabs/beams of 50mm thickness including 2.4 Plastering of all esposed surfaces with C.M 1:3, 13 mm minimum thick all complete as directed. Third floor cu.m 0.85 b Headroom and Terrace floor cu.m 0.20 in beams and brackets of Required profile

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
а	Third floor	cu.m	14.00		-

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
b	Headroom (Stair) and Terrace floor	cu.m	1.50		_
	in Sloped roof slab(In beam and slab construction)				
2	Third floor	cu.m	28 NN		_
<u>а</u> h	Stair Headroom and Terrace floor	cu.m	20.00 1 00		
		OG.III	1.00		
2.7	Rcc in stair case and like (including steps & plastering 1 cm 1:3, 13 mm thick) in all levels	cu.m	1.15		_
2.80	Overhead tank including base slab and cover slab 150 thick, beams (230x450), side RCC walls 200 thick, PVC rungs and 2 nos concrete manhole cover (600x600) including waterproofing. Reinforcement should be measured & paid separately under relevant item. Measurement will be inner volume of tank including freeboard. Size= 4.20x2.0x1.5m ht.	cu.m	12.60		_
3.0 a	Supply,straighten,handle,cut bend,crank,fix and tie in position in all RCC items of work including cost of GI binding wire 18SWG double strand complete.(On actual length measurements of fabricated steel work,including authorised lappages only at theoretical weight for different sections payment will be made.) High yield strength deformed bars	MT	8.50		
	RCC WORK SUMMARY	l I			_
	#				
	BRICK WORKS		· · · · · · · · · · · · · · · · · · ·	•••••••••••••••••••••••••••••••••••••••	
	Masonry work with Aerocon blocks of size 600 x				
4	230 x 200 mm in Cement mortar 1:5.				
a	Third floor	cu.m	51.00		_
b	Headroom, LMR and Terrace floor	cu.m	35.00		_
	\$				
5	Masonry work with Aerocon blocks of size 600 x	1			
	150 x 200 mm in Cement mortar 1:5.				
a	Third floor	sq.m	210.00		
6	Brickwork with locally available best quality table moulded bricks of not less than 50kg/sq.cm crushing strength in C.M1:5 mix(1cement, 5sand) in steps in staircase.in all levels.		0.35		_
	BRICK WORK SUMMARY				
IV	PLASTERING				
7	Prepare surfaces and plaster with C.M 1:3(1 cement,3 sand) 12mm minimum thick (smooth and sponge finish) to ceiling sides and soffit of beams and columns and other interior and exterior RCC surfaces not contiguous to masonry.				
	Third floor ceiling	sq.m			_
	LMR & Stair head				_
\sim		~¶!!!!		=	

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
8	Prepare surfaces and plaster with C.M 1:5(1 cement,5 sand) ,12mm minimum thick to all interior faces of walls (smooth finish) including RCC surfaces not contiguous to masonry.Rate should include the cost of providing necessary internal grooves of size 10mmx10mm carried out as shown/directed by Engineer-in-charge. Quantum of grooves may vary from Tender drawings to actually executing at site. Note: All RCC and masonry junction shall be provided with 24 gauge chicken mesh of 6"width for the entire joining length before commencement of plastering at all levels. No extra shall be payable on				
	this account.				
<u>a</u>	Third floor	sq.m			
b	LMR & Stair head	sq.m	74.00		
9	Prepare surfaces and plaster with C.M 1:5(1 cement,5 sand) ,12mm minimum thick to all external faces of brick walls(sponge finish) including RCC surfaces not contiguous to masonry. Rate should include cost for providing two coats of Nitobond/Fosroc in the grooves at all levels. Note: All RCC and masonry junction shall be provided with 24 gauge chicken mesh of 6"width for the entire joining length before commencement of plastering at all levels. No extra shall be payable on this account. PLASTERING SUMMARY	sq.m			_
10	WATER PROOFING WORKS Water proofing in sunken slab as per India/South India water proofing or equivalent all as per manufacturer's specifications at all levels.	sq.m			_
11	Brick jelly cement concrete 1:4:8 using approved broken brick jelly 25mm and down gauge laid in sunken floors at all levels.				
	WATER PROOFING WORK SUMMARY				
\/I	DOOR AND WINDOW WORKS				

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
13	Country wood wrought and put up in frames of doors, windows, ventilators and a.c openings. The rate should include cost of providing 6 nos of M.S hold fast per door frame including providing a coat of approved primer all complete as directed. Note: The country wood shall be of first class padauk wood as approved by architect or client	cu.m			-

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
14	Supply and fixing of UPVC windows (single / double leaf shutter)/ ventilators manufactured and fabricated by saraelgi arteriors limited. The outer / shutter frame is made out of 60mm x 56mm and wall thickness 2.5mm with multi chabered profile tobe reinforced with GI sheet of 1 mm thicknes. The profiles cutted at 45 degree and it should be jointed with fusion welding. The outer frame should hold appropriate EPDM gaskets. The mullions, of the size 60 x 70mm multi chambered profile tobe reinforced with 1 mm thickness and jointed between the outer frame using quality steel clips. Including providing and fixing all accesories conforming to IS standered like stainless steel handle of powder coated or polyurethene coated and single glazing	sqm	28.00		
15	Supplying and fixing in position Non decorative flush shutters of approved make and pattern of 38mm thick phenol formaldehyde synthetic resin (B.W.P Type specified in I.S 848-1974) bonded, solid block board core specified in I.S specification IS 1659-1959 or latest revision conforming to IS 2202(part-1)-1973 or latest revision and IS 2202(part 2)-1966 or latest revision with teak wood external lipping with cross bands and teak veneer face panels on both sides glued on to the core by hot press process excluding cost of furniture fittings, but including all labour for fixing complete.	sqm	19.00		_
	Supply and Fabrication of Window Grill made of 10mm rods including necessary welding, cutting, smoothening etc.		335.00		_
	DOOR AND WINDOW WORK SUMMARY				
VII	FLOORING				
17	Red oxide Flooring	sqm	190.00		_
18	Providing & laying first class vitrified ceramic skirting tile of approved make (plain series) of approved size of 600mmx600mmx10mm approved colour (glossy/satin finish) in flooring over a bed of cement mortar 1:4 of 103 minimum thickness 20mm jointed with white cement sluurry mixed with matching pigments all complete as directed at all levels.Basic Price shall be of Rs 60.00 per sft.	sq.m	187.00		_

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
19	Providing & laying first class vitrified ceramic tile of size 300mmx300mmx8mm of approved make & colour in flooring over a bed of cement mortar 1:4 of minimum thickness 20mm jointed with white cement slurry mixed with matching pigments all complete as directed. at all levels. Basic Price shall be of Rs 50.00 per sft.	sq.m			-

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
20	Providingandlaying300mmx600mm Granamite tile from Kajaria/Asian/ omani/Johnson/NITCO or equivalent glazed tiles of approved colour in dado set in C.M 1:3 with joints so as to form a true and even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed.(Rate should include base plastering with C.M 1:5 of required thickness.) Rate should also include cost for providing and fixing of Dural corner beads for glazed tiles of apptoved colour at all corners. (Tenderer to submit pamphlets showing the item quoted before executing the work) at all levels Basic Price shall be of Rs 50.00 per sft.	sq.m	85.00		-
	Providing and laying 20mm thick machine cut and				
21	machine polished Kota stone of approved shade in treads and risers of steps and landings in C.M 1:4 of 20mm minimum thickness, jointed with white cement slurry and pointing with matching pigments including rounding of nosing, rubbing, forming grooves of required size in the plastering of sides of steps and final polishing all complete as directed at all levels. Basic Price shall be of Rs 65.00 per sft.	sq.m	16.00		-
	Providing & laying 20mm thick machine cut and				
22	polished Kota stone (150mm ht) skirting of approved size & shade in recessed skirting in cement mortar 1:3 with joints so as to form a true and even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed. (Rate should include cost of providing 6mmx6mm groove in the plastering with C.M 1:5 at top of the skirting all complete as directed at all levels. Price shall be of Rs 65.00 per sft.	Ru.m			-
23	P&F polished granite cladding on lift facia in CM 1:5 including 3mm grooves on joints, straight edge polish on free edges, pointing etc all complete. Basic price: Rs.125/sq.ft.	ea m	13.00		
	FLOORING SUMMARY				
VIII	ROOFING				
24	Laying one course of CTL make pressed clay tiles (9" x 9")20mmthick of approved brand in cement mortar 1:3 mixed with crude oil 10% by weight of cement and pointing of joints in same mortar including flashing of corners in all floors. (Basic Cost - Rs 20/-) (Rate should include the cost of	sq.m	259.00		-

SLNO			QUANTITY	RATE	AMOUNT
	Supplying and embedding P.V.C rain water pipes of				
	approved quality embedded inside the RC				
	columns/ masonry in position with all necessary				
25	specials like shoes, bends or any other specials				
	required to suit site conditions etc. jointed with wavin				
	cement and lubricants with necessary clamps,				
	brackets, bolts and nuts all complete as directed.				
a	110 mm dia	Ru.m	10.00		_
b	160 mm dia	Ru.m	4.50	- - - - -	_
	ROOFING SUMMARY	■ ! ■ !			
IX	PAINTING				
26	Prepare surfaces and paint with two coats of plastic emulsion paint of approved colour over coats of primer all complete as per manufacturer's specifications to Ceiling		242.00		-
	Prepare surfaces and paint with two coats of plastic	=			
	emulsion paint of approved colour over two coats of JK White Cement putty and primer all complete as		850.00		
	per manufacturer's specifications to all interior faces		030.00		
	of walls, etc in all floors.				
	UI Walls, Eld III all 110015.				
•••••••	Prepare surfaces and paint with two coats of Apex				
	ultima paint/Nippon Sumo of approved colour and				
	primer all complete as per manufacturer's specifications to all exterior faces of walls,etc	sq.m	550.00		
	Prepare surfaces and paint with two coats of				
29	synthetic enamel paint of approved colour and manufacture over a coat of approved anti corrosive	sa.m	30.00		
	primer to new iron work at all heights.			-	
• • • • • • • • • • • • • • • • • • • •				·····	
30	Prepare surfaces and paint with two coats of synthetic enamel paint of approved colour and manufacture over a coat of approved primer to new	sa m	135.00		
	wood work in all floors.				
• • • • • • • • • • • • • • • • • • • •	PAINTING SUMMARY				
	LIFT WORK			• • • • •	
	Excavate foundation in all kinds of soil including				
	soft rock(except hard rock requiring blasting) part				
	return and fill in foundation and basement in layers				
1	not exceeding 15cm in depth including watering,		23.00		
	breaking clods and consolidating, and disposal of	CU.III	∠ 3.UU		
	surplus earth away from the site upto 1.5m depth	• •			
	(No extra shall be payable for working space)				
	Same as above but for 1.5m to 3m deen	CII M	<i>1</i>		
	Same as above but for 1.3111 to 3111 deep	CU.III	4. J U	<u>:</u> :	_

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
2	Supplying and filling inside basement under floors with Quarry dust in layers of not exceeding 300mm thick including watering and consolidating all complete as directed.	-	2.25		
3	Cement concrete 1:4:8(1 cement, 4 sand,8 hard blue granite stone metal 40mm and down gauge) in layers not exceeding 15cms in depth well consolidated in levelling course under floors including ecessary shuttering of required profile all complete as directed.	cu.m			-
4	RCC M25(design mix) using hard blue granite metal 20mm and down gauge including centering, shuttering, curing etc. complete but excluding cost of reinforcement. Minium cement content should be 340kg/cu.m.				
4.1	In Foundation, Footing, Raft, Grade slabs and like	cu.m	7.00		<u>-</u>
4.2	in Columns in Superstructure				
a	Ground Floor	cu.m	0.90		
b	First Floor	cu.m	0.90		
С	Second Floor	cu.m	0.90		
d	Third Floor	cu.m	0.90		- -
е	Terrace	cu.m	0.90		–
4.3	in Lintels, Brackets				
a	Ground Floor	cu.m	0.22		- -
b	First Floor	cu.m	0.22		
С	Second Floor	cu.m	0.22		_
d	Third Floor	cu.m	0.22		
<u>e</u>	lerrace	cu.m	0.22		
4.4	in Sill slabs/beams of 150mm thickness including Plastering of all esposed surfaces with C.M 1:3, 13 mm minimum thick all complete as directed in all levels		\sim 4 $\overline{}$		
a	Ground Floor First Floor	cu.m	0.17		
D	First Floor Second Floor	Cu.III	U.I/ ∩ 17		
d		CU.III	0.17		
е	Terrace	cu.m	0.17		
4.5	in beams and brackets of Required profile	- - - - - - - - - -			
a	Ground Floor	cu.m	1.05		
b	First Floor	cu.m	1.05		
С	Second Floor	cu.m			_
d	Third Floor	cu.m			
е	Terrace	cu.m	1.05		= -
4.6	in Suspended roof slab(In beam and slab construction)				
a	Ground Floor	cu.m	0.55		
b	First Floor	cu.m			_
C		= =			
d	EThird Floor	cu.m		***************************************	- - -

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
е	Terrace	cu.m			_
4.7	In RCC walls of required thickness.	cu.m	·		
4.5	High yield strength deformed bars	M.T	2.40		
		• • • • •			/ - - - -

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
5	Brick Work 1:5				
a	Ground Floor	cu.m	7.50		
b	First Floor	cu.m	7.50		
С	Second Floor	cu.m	7.50		_
	LIFT WORK SUMMARY				
XI	MISCELLANEOUS WORKS		······································		
31	Dismantling plastered brick work including stacking useful materials and disposing the debris complete as directed	cu.m			_
.7/	Dismantling of RCC and disposal of Debris all complete as directed at all level	cu.m	11.00		_
33	Dismantling of PCC & disposing the same with in the campus, including spreading rooling & consolidation etc.		2.00		_
34	Dismantling existing weathering course including stacking useful materials and disposing the debris complete as directed.		221.00		_
35	Providing and applying Epoxy Resign Concrete Agent Nito bond EP of Fosroc make or approved equivalent for jointing old concrete and new concrete surfaces, Including cleaning of old surface and applying the chemical which covers 2.5 sq.mper litre etc., complete all as directed by the engineer in charge and as per manufacturers specifications.	sq.m	20.00		_
36	Grano flooring 40mm thickb(minimum) composed of one part of cement, one part of sand, three parts of washed graded dry granite chippings all to pass through 6mm mesh free from dust including finishing the surface smooth with power trowel including necessary shuttering or glass strips to form panel of required size to be provided at no extra cost at all levels.	sq.m	20.00		_
37	Providing chemical rebar anchoring using approved specialist chemicals of "HILTI" or "Fisher" make, drilling existing concrete to required diameter and depth, removing dust.				
a	8mm dia rods	nos	80.00		
b	10mm dia rods	nos	50.00	:	-
C	12mm dia rods	nos	20.00		_
 ا	16mm dia rods	nos	15 NN		
∽	20mm dia rods		10.00	<u>.</u> :	
U	ZUIIIII dia 1005	nos	IU.UU	·····	_

SLNO	DESCRIPTION OF WORK	UNIT	QUANTITY	RATE	AMOUNT
38	Excavate foundation in all kinds of soil including soft rock(except hard rock requiring blasting) part return and fill in foundation and basement in layers not exceeding 15cm in depth including watering, breaking clods and consolidating, and disposal of surplus earth away from the site upto 1.5m depth (No extra shall be payable for working space).	cu.m			
	MISCELLANEOUS WORK SUMMARY				_