

TENDER DOCUMENT					
BILL OF QUANTITY OF PROPOSED TYPE-III RESIDENCE					
S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
1	Site Clearance. (PWD-259)	226.414	SQM		
1a.	Taking of layout including all labour T&P etc. complete to the entire satisfaction of engineer in charges.		L.S		
2.	Earth work in excavation in trenches for foundations and for pipes cables etc. in ordinary soil(loan clay or sand) including lift upto 1.5 m and dressing of sides and ramming of bottom sand disposal of surplus excavated earth as directed by the Engineer i/c with in a lead of 50m.(PWD-251)	176.972	CUM		
2.	Filling of earth.	192.236	CUM		
2a.	Filling of carted earth.	15.264	CUM		
3.	Providing and laying in cement concrete 1:4:8 (1 cement :4 fine sand :8 graded stone aggregate 40 mm nominal size) and curing complete,including cost of form-work,in foundation and floors.(PWD281)	30.565	CUM		
4.	Construction of drain along apron 150*150mm(analysis)	63.94	RM		
4a.	Providing and injecting chemical emulsion for preconstructional antitermite treatment and creating a chemical barrier under and around the column pits wall trenches basement excavation top surface if plinth filling junction of wall and floor, along the external perimeter of binding expansion joints, surrounding of pipes and conduits etc, complete (plinth area of the building at ground floor only shall be measured as per I.S.6313(PartII 1981)Alderine emulsifiable concentrate or any other approved material such as Heptrachlor or chordancewill be used. The rate of application of chemical emulsion shallbe as follows : (1)Treatment for masonry & foundation 5 liters per/100 sqm. (2) Back fill in immediate contact with foundation 7.5 liters/100sqm (3) Treatment of top surface of plinth filling 5 liters/100 sqm (4)Treatment junction of wall and the floor 7.5 liters /100 sqm (5)Treatment of soil along external perimeter of building 7.5liters/100sqm. (6) Treatment of soil under apron along external perimter 5 liters/100 sqm. (PAGE-26)	176.400	SQM		
5	R.c.c. work with cement approved coarse sand and 2 cm. (3/4") quage approved stone ballast in the proportion 1:6,(1 cement :6 aggregate) in lintels of doors and windows excluding supply of reinforcement and its fixing and binding the same with 24 B WG binding wire and including necessary centering and shuttering etc.and also including supply of all materials, labour and tools and plants etc, required for proper completion of the works. strength of the concrete shall not beless than M-200. In Footing	25.220	CUM		

5a.	Same as item no. 5 but reinforced cement concrete work in lintels & sun shade in 1:1.5:3 on Ground first floors.	2.495	CUM		
5b.	Same as item no. 5 but reinforced cement concrete work in lintels & sun shade in 1:1.5:3 on Second t floors.				
		1.559	CUM		
6.	As in item 5 above but for slabs (Using 1:1.5:3 Mix concrete)(PWD 288)				
		44.358	CUM		
6a.	Same as item no. 6 but forSecond floor in slab.(Using 1:1.5:3 Mix concrete)				
		23.625	CUM		
7.	As in item 5 but for the lighter beams i.e. having spans upto 6 m. (Using 1:1.5:3 Mix concrete)(PWD- 285)				
		45.777	CUM		
a	Same as item no.7 but for R.C.C. beams on Second floor. (Using 1:1.5:3 Mix concrete)				
		15.759	CUM		
8.	As in item 5 but for the R.C.C. COLUMNS i.e. having spans upto 6 m. (Using 1:1.5:3 Mix concrete)(PWD- 289)				
		23.166	CUM		
a	Same as item no.8 but for R.C.C. Columns on Second floor. (Using 1:1.5:3 Mix concrete)				
		11.583	CUM		
9	R.C.C. work in thin shelves as above in item 5 (about 2.5cm thick) including bending, binding and fixing of shelves in positions as per design making good the walland repairing the edges of shelf to the satisfaction of the Engineer-in-charge,including cost of all materials, centering and shuttering etc. but excluding cost of reinforcement.				
		1.902	CUM		
10.	Class 150 brick work in 1:6 cement and fine sand of 1.25 fineness modulus mortar in foundation and plinth including supply of all materials, labour and tools and plants etc. required for proper completion of the work. (PWD- 303)				
		10.623	CUM		
11.	Same as in item no. 10 above but in super-structure above plinth level up to floor two level (up to two storeys) including necessary cutting and moulding of brick work as required and also including honey combed brick work in thickness of wall more than 12cms. (PWD- 309)				
		52.367	CUM		
11c.	Same as item 11 but on second floor				
		27.087	CUM		
12.	Same as in item no.11 but in 1:3 cement and coarse sand mortar in superstructure for wall thickness 12 cms & below.				
		24.138	CUM		
12c.	Same as in item no.11 but in 1:3 cement and coarse sand mortar in superstructure for wall thickness 12 cms & below. (PWD-307+309+310A)				
		12.295	CUM		
13.	Providing and laying damp proof coarse 25 mm thick with cement concrete 1:2:4 (1 cement:2 coarse sand :4 graded stone aggregates 10 mm nominal size) and curing complete.(pwd-361)				
		18.033	SQM		
14.	Painting on D.P.C. with two coats of airblown bitumen 85/50 or 85/25 @ 1.7 kg/sqm approx. including cost of fuel if any.				
		18.033	SQM		

15.	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 water proofing 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 cement mortar of mix				
	1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge .				
DSR-22.7.1	With average thickness of 120mm and minimum thickness at khurra as 65 mm.	179.572	SQM		
17.	Supply and fixing of flush doors commercial quality conforming to I.S. 2202 Part I (1983) including fixing of wooden cleats and stoppers and including ixing and adjustment of hinges, bolts,locks, handle, springs and other fittings but excluding their supply and including painting with two coats of Black Japan paint on all iron fitting if necessary. Fitting with necessary screws to be supplied departmentally.				
	(a) 32 mm thick	102.690	SQM		
18.	Mild steel or iron work of small sizes and sections such as holding down bolts, hold fast tierods,gratings etc. (when not included in an over all rates) wrought to required from including supply of steel and its wastage including cost of bolts, nuts if required for and welding, grinding and making holes as required completion of work fabrication of holes doors, chaukhats nosing.				
18a.	Fabrication of hold fast for door chaukhats and windows.	285.600	KG		
18b.	Fabrication of grill / stair case railing.	1991.925	KG		
18c.	Fabrication of Z-section steel windows.	2389.500	KG		
16d	Angle iron door chaukhats (35x35x5)	686.40	KG		
18e	Supply and fixing 35mm mosquito proof jali door/window shutters.	137.655	SQM		

19.	Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in anover all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	194.986	QTL.		
a.	same as above but for second Floor	72.492	QTL.		
20.	Fixing of steel or wooden chaukhats in position.				
	(a) Door chaukhats	54.000	NOS		
	(b) Window chaukhats	30.000	NOS		
	(c) Ventilator chaukhats (NBO- 11.14)	8.000	NOS		
21.	12 mm plinth plaster in single coat with water proofing treatment. (1)1 cement : 4 fine sand (pwd-584)	73.17	SQM		
21a.	12 mm cement plaster in single coat on fair side of single or half brick wall for interior plastering up to floor two level including brick wall for interior plastering upto floor two level including internal rounded angles chamfers, and / or rounded angles not exceeding 80 mm in girth and finished even and smooth No. extra for mixing any additive.(NBO-17.58) (1)1 cement : 5 fine sand	248.634	SQM		
21b.	12 mm cement plaster in single coat on fair side of single or half brick wall for interior plastering up to floor two level including brick wall for interior plastering upto floor two level including internal rounded angles chamfers, and / or rounded angles not exceeding 80 mm in girth and finished even and smooth No. extra for mixing any additive.(NBO-17.58) (1)1 cement : 5 fine sand (586)	178.623	SQM		
22.	12 mm cement plaster in single coat on rough side of single or half brick wall for interior plastering up to floor two level including internal rounded angles not exceeding 80 mm in girth and finished even and smooth. (1)1 cement:5fine sand	968.381	SQM		
22b.	12 mm cement plaster in single coat on rough side of single or half brick wall for interior plastering up to floor two level including internal rounded angles not exceeding 80 mm in girth and finished even and smooth. (1)1 cement:5fine sand	483.291	SQM		
23.	Extra over items plastering on ceiling and soffits of stairs upto floor two levelinstead of plastering on wall.	292.076	SQM		
24.	Making grooves 10 to 12 mm widex 8mm deep in plaster of the wallor in ceiling vertically or horizontally as required. (PWD- 598)	545.340	RM		
25.	Making drip course in sun shade or FACIA as per direction ofengineer - in - charge including supply of all materials labour etc.required for proper completion ofthe work.	65.480	RM		

26.	Kota stone slab 20 mm. thick in FLOORING and Pillars laid on 10 mm. thick cement mortar 1:3 (1 cement : 3 coarse sand), jointed with grey' cement slurry mixed with pigment to match the shade of slabs including rubbing and polishing complete. (11.26.1)				
		77.414	SQM		
26A.	Kota stone slab 20 mm. thick in rises of steps, skirting. dado and Pillars laid on 10 mm. thick cement mortar 1 : 3 (1 cement : 3 coarse sand), jointed with grey' cement slurry mixed with pigment to match the shade of slabs including rubbing and polishing complete. (11.26.1)				
		37.830	SQM		
27.	Kota stone slab 20 mm. thick in rises of steps, skirting. dado and Pillars laid on 10 mm. thick cement mortar 1 : 3 (1 cement : 3 coarse sand), jointed with grey' cement slurry mixed with pigment to match the shade of slabs including rubbing and polishing complete. (11.27)				
		13.245	SQM		
28.	Providing & laying of 8 to 10 mm thick ivory or light shade vitrified tiles of 600mm x600 mm size in flooring or skirting laid with 1:3 cement mortar (1 cement : 3 coarse sand) finishing with cement slurry & with pigment grouting & poilshing complete l/c supply of all material labour T & P required for proper completion of work				
	Dark shade pigment with ordinary cement				
		293.250	SQM		
29.	Providing & laying of 8 to 10 mm thick ivory or light shade				
		59.436	SQM		
29a.	P/L(white coloured) kazaria tile				
	flooring/dado over 20mm thick base of cement mortar 1:4 (1cement : 4coarse sand)laid and jointed with white cement (with pigment) slurry including rubbing and polishing complete.				
		253.715	SQM		
30.	Painting 1st coat over priming coat (but excluding cost of priming coat) on steel and other metal surfaces up to 10 cm. width or girth or small articles not exceeding 0.10sqm in area white superior synthetic enamel such as LUXOL3,Hi-gloss apcolite superlac, DULUX specified brushing to give an even shade and including cleaning the surface of all dirt,dust and other foreign matter sand papering and stoping including cost of all materials, labour tools and plants etc. required for proper completion of the work.				
		270.297	SQM		
31.	Same as item 30 above but on new wood surface.				
		205.380	SQM		
32.	Finishing walls with water-proofing on cement paint of approved make such as super snowcem,durrocem,robiacem,guttucem supercem quality and of required shade on undecorated wall surfaces (two coat) overone and including one coat white cement primer to give an even shade after thoroughly brushing the surface to powdered materials including curing and cost of all materials.				
		427.257	SQM		
33.	Distempering (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger,J&N, Shalimar Asian paints after thoroughly brushing the surface free from mortar droppings &				

	other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials. (PWD 649+650)	1451.672	SQM	
34.	White washing with lime on undecorated wall surfaces (two coat) to give an even shade including thoroughly brooming the surface to remove all dirt, dust mortar drops and other foreign matter.	438.114	SQM	
35.	Fixing panes of glass with atul or equivalent I.S.I. marked quality putty, brads and springs complete. (a) 4 mm thick (9.7.7.1)	82.350	SQM	
37.	Providing aluminium sliding bolts 16 mm dia with nuts and 250 mm long.(analysed) (i) Aluminium	54.000	NOS	
38.	Providing Oxidised iron sliding bolts 16 mm dia with nuts and 250 mm long. (i) Oxidised iron	54.00	NOS	
39.	Providing Oxidised iron tower bolt with 9 mm dia and screw. (i) 300 mm long	108.00	NOS	
40.	Providing Oxidised iron door handles with screws 100 mm long.	216.00	NOS	
41.	20 mm thick damp proof plaster with cement and approved coarses and of 2.25 F.M. in 1:4 & including water proofing materials as ordered by the E/I in the proportion as specified by the manufacturer including supply of all materials, labour, T & P, etc. required for proper completion of the work including proper curing and shuttering as necessary (13.6.1)	112.303	SQM	
42.	12 mm bearing plaster (1) 1 cement:5 fine sand	40.57	SQM	
				TOTAL