

## ESTIMATE FOR CONSTRUCTION OF MARKET COMPLEX

The rates are taken from PWD(WB) schedule of rate for building works of Midnapore west effect from 01.11.2017.

Sl. No	Page No & IT / SI No	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
1	1,2a	Earth work in excavation of foundation trenches or drains in all sorts soil (including mixed soil but excluding laterite or sand stone) including removing, spreading or stacking the spills within a lead of 75 m. as directed. The item includes necessary trimming the bottom, bailing out water as required complete.								
		(a) Depth of excavation not exceeding 1500mm.	10	1.80	1.80	1.50	48.60			
		at tie beam trench	8	3.20	0.25	0.35	2.24			
			2	0.60	0.25	0.35	0.11			
			5	1.20	0.25	0.23	0.34			
		<b>Rate=11927%cum</b>	Total				51.28	m <sup>3</sup>	119.27	6116.46
		(b) Depth of excavation for additional depth beyond 1,500 mm. and upto 3,000 mm. but not requiring shoring.	10	1.80	1.80	0.30	9.72			
	<b>Rate=19238%cum</b>	Total				9.72	m <sup>3</sup>	192.38	1869.93	
2	2,4(B)	Filling in foundation or plinth by local fine sand in layer not exceeding 150 mm. as directed and consolidating same by through saturation with water ramming complete including the cost supply of sand.(payment to be made on measurement of finished quantity)								
		at foundation	10	1.8	1.8	0.3	9.72			
		At foundation trenches	10	1.8	1.8	0.85	27.54			
		at plinth	4	4.75	2.80	0.60	31.92			
			1	2.10	2.80	0.60	3.53			
		Total				72.708	m <sup>3</sup>	509.85	37070.17	
3	14,1	Single layer brick flat soling of picket jhamma bricks including ramming and dressing bed or proper level and filling joints with powered earth or local sand.								
			10	1.80	1.80		32.40			
		Under tie beam	8	4.70	0.25		9.40			
			2	2.10	0.25		1.05			
			5	2.70	0.25		3.38			
		Under additional beam at PL	4	2.80	0.25		2.80			
		at floor	4	4.50	2.80		50.40			
		1	2.80	2.10		5.88				
		Total				105.31	m <sup>2</sup>	343.00	36119.61	
4		Ordinary cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering & reinforcement if any in ground floor as per relevent IS codes.						Rate Analysis Attached		
		At foundation trenches	10	1.80	1.80	0.08	2.43			
		at plinth	4	4.50	2.80	0.08	3.78			
			1	2.10	2.80	0.08	0.44			
		Total				6.65	m <sup>3</sup>	5411.18	35989.76	

Sl. No	Page No & IT / SI No	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
5		Tie beam	8	4.70	0.25	0.43	4.00			
			2	2.10	0.25	0.43	0.45			
			5	2.70	0.25	0.30	1.01			
		Toe beam	1	2.10	0.25	0.30	0.16			
		Floor beam	4	2.80	0.25	0.30	0.84			
		Lintel	12	4.70	0.25	0.20	2.82			
			10	2.70	0.13	0.15	0.51			
			3	2.70	0.25	0.15	0.30			
		Chajja	12	1.20	0.45	0.08	0.49			
			1	1.50	0.45	0.08	0.05			
		Stair case waist slab	2	2.70	1.05	0.18	0.99			
		Tread & Riser	16	1.05	0.13	0.15	0.32			
		Mid landing	1	2.10	0.75	0.15	0.24			
		HLB	1	2.10	0.25	0.30	0.16			
			1	0.55	2.10	0.13	0.14			
		Roof beam	8	4.70	0.25	0.43	4.00			
			5	2.70	0.25	0.30	1.01			
		Roof slab	4	4.75	2.80	0.13	6.65			
		Cantilever beam	5	0.90	0.25	0.25	0.28			
		Salb	4	4.75	0.90	0.13	2.14			
		1	2.10	0.90	0.13	0.24				
	Slab Projection	1	26.30	0.15	0.13	0.49				
			Total				47.85	m <sup>3</sup>	5962.65	285297.29
6	43,40(a)II	Reinforcement for reinforced concrete work in the all sorts of structures including distribution bars, stirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooping and bending to correct shape, placing in proper position and binding with 16 gauge black ennealed wire at every intersection, complete as per drawing and direction								
		II) in ground floor.(Other than SAIL/ TATA/RINL)	1.4% of concrete volume				5.26	MT	55629.00	292521.01
7	42,36 f & a	Hire and labour charges for shuttering with centering and necessary staging upto 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works.(upto roof of ground floor)								
		a) Shuttering for foundation concrete side, ground tie sides, plinth tie sides.								
		footing	10	7.20		0.35	25.20			
		Pedestral	10	2.00		0.15	3.00			
		Tie beam	16	4.70		0.43	31.96			
			4	2.10		0.30	2.52			
			10	2.70		0.30	8.10			
		Toe beam	2	2.10		0.30	1.26			
		floor beam	8	2.80		0.30	6.72			
			Total				78.760	m <sup>2</sup>	203.00	15988.28
		b) Shuttering for columns, beam, slab.								
		i) in ground floor								
		Column	10	1.20		4.60	55.20			
		Mumpty col	4	1.20		2.10	10.08			
		Lintel	24	4.70		0.20	22.56			
			26	2.70		0.15	10.53			
		Chajja	12	1.20		0.45	6.48			
			1	1.50		0.45	0.68			
		Stair case waist slab	2	2.70		1.05	5.67			
		Side	4	2.70		0.35	3.78			
	Riser	20	1.05		0.15	3.15				
	Cantilever slab	1	2.10		0.75	1.58				
	HLB	2	2.10		0.15	0.63				

Sl. No	Page No & IT / Sl No	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
			1	0.55		2.10	1.16			
		Roof beam	16	4.70		0.30	22.56			
			10	2.70		0.18	4.73			
			4	4.75		2.80	53.20			
		Cantilever beam	10	0.90		0.13	1.13			
			4	4.75		0.90	17.10			
			1	2.10		0.90	1.89			
		Out side of slab	1	26.30		0.43	11.18			
			Total					233.26 m <sup>2</sup>	321.00	74877.26
	15,8a	Brick work with 1 <sup>st</sup> class bricks in cement mortar (1:6)								
		(a) In foundation and plinth	8	4.70	0.25	0.60	5.64			
			2	2.10	0.25	0.60	0.63			
			5	2.70	0.25	0.60	2.03			
		Extra brick work for down level	4	4.70	0.25	0.40	1.88			
			1	2.10	0.25	0.40	0.21			
			Total					10.39 m <sup>3</sup>	5103.00	52994.66
	15,8b	Brick work with 1 <sup>st</sup> class bricks in cement mortar (1:6)								
		b) In super structure ,Ground floor								
		New construction portion	8	4.7	0.25	2.38	22.33			
			2	2.1	0.25	2.38	2.49			
			3	2.7	0.25	2.55	5.16			
		Mumpty room	2	2.1	0.25	2.1	2.21			
			2	2.7	0.25	2.1	2.84			
		Less for shutter	8	1.5	0.25	2.1	-6.30			
		Less window	8	0.9	0.25	0.9	-1.62			
		Less window	1	1.2	0.25	0.9	-0.27			
		Less C. Gate	1	1.8	0.25	2.1	-0.95			
		Old portion	4	4.7	0.25	2.38	11.16			
		Less for shutter	4	1.5	0.25	2.1	-3.15			
		Less window	4	0.9	0.25	0.9	-0.81			
			Total					33.09 m <sup>3</sup>	5325.00	176204.25
	16,16	125 mm th. Brick work with 1st class bricks in cement mortar (1:4) in ground floor.								
		Intermediate partition wall (New portion)	2	2.70		2.55	13.77			
			4	2.75		2.75	30.25			
		Intermediate partition wall (Old portion)	2	2.70		2.55	13.77			
			2	2.75		2.75	15.13			
		Parapet wall	12	4.70		0.30	16.92			
			1	3.60		0.30	1.08			
			Total					90.92 m <sup>2</sup>	701.00	63731.42
	189,1(ii)	Plaster to wall, floor ceiling etc with sand and cement mortar including rounding off or chamfering corners as directed and ranking out joints including throughing, nosing and drip course, scaffolding/staging where necessary with 1:4 cement mortar. 10mm thick. In ground floor.								
		In ceiling	6	4.75	2.75		78.38			
		Verandah	6	4.75	0.9		25.65			
		Stair case waist slab	2	2.7		1.05	5.67			
			2	2.7		0.35	1.89			
			1	2.1		0.75	1.58			
			1	0.55		2.1	1.16			
			1	2.1		0.9	1.89			
		Beam side	16	0.9		0.25	3.60			
			Total					119.81 m <sup>2</sup>	122.00	14616.21

Sl. No	Page No & IT / SI No	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)	
11	189,1(ii)	Plaster to wall, floor ceiling etc with sand and cement mortar including rounding off or chamfering corners as directed and ranking out joints including throughing, nosing and drip course, scaffolding/staging where necessary with 1:4 cement mortar. 15mm thick. In ground floor.								
		Out side wall	2	32.70		4.05	264.87			
			1	3.300		4.05	13.37			
		Less for door shutter	12	1.500		2.10	-37.80			
		Less for C. Gate	1	1.800		2.10	-3.78			
		Chajja	24	1.200		0.45	12.96			
			2	1.500		0.45	1.35			
		Less for W	12	0.900		0.90	-9.72			
	Less for W1	1	1.200		0.90	-1.08				
			Total				240.17	m <sup>2</sup>	150.00	36024.75
12	189,1(i)	Plaster to wall, floor ceiling etc with sand and cement mortar including rounding off or chamfering corners as directed and ranking out joints including throughing, nosing and drip course, scaffolding/staging where necessary with 1:6 cement mortar. 20mm thick. In ground floor.								
		Inside wall	12	4.88		2.88	168.19			
			26	2.75		2.88	205.56			
			2	2.10		2.50	10.50			
			2	2.70		2.50	13.50			
		Less door	1	1.00		1.95	-1.95			
			Total				395.80	m <sup>2</sup>	152.00	60161.60
13	48, 6(ii)	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/sq.m all complete including all materials and labour.								
		In ground floor. 3 mm. thick topping (High polishing grinding on this item is not permitted with ordinary cement). Using grey cement 25 mm th.								
			6	4.75	2.75		78.38	m <sup>2</sup>		
			1	2.1	2.75		5.78			
				Total				84.15	m <sup>2</sup>	267.00
14	106,19 (a)	Supplying fitting and fixing steel rolling shutter profile type with 18 BG of approved type steel latch section 75 mm wide, fitted with coil wire spring to necessitate the fitting of required nos of CI pulleys on heavy type solid drawn seamless steel tube complete with locking arrangements both inside and outside specially built up side guide channels including providing a hood for the steel rolling shutter in the room, painting two coat of approved aluminium paint over a coat of red lead primer complete. (Measurement will be made on the area of opening covered by the rolling shutter corrected upto 2 decimal)								
			12	1.5		2.1	37.80	m <sup>2</sup>		
			Total				37.80	m <sup>2</sup>	2170.00	82026.00

Sl. No	Page No & IT / Sl No	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)			
15	114, 1(h)(i)	Wood work in door and window frame fitted and fixed complete including protective coat of painting at the contract surface of frame...& MS Clamp(The quantam should be corrected upto three decimals)										
		(i) Other Local Wood.										
		For W	12	4.5	0.1	0.08	0.41					
		For W1	1	5.1	0.1	0.08	0.04					
		For mumpy roof frame work	8	2.7	0.075	0.08	0.12					
			5	3.5	0.05	0.05	0.04					
Total							0.61	Cum	36302.00	22089.77		
16	123, 10(A)(iv)	Z-batten shutters of door and window as per design havings tongued and groove-half lap jointed as per direction of the Engineer-in-Charge including fitting and fixing shutter in position, but excluding the cost of hinges and other fittings in ground floor.										
		For Window(A) Shutter with 25mm thick planks, 19mm thick battens	12	0.78		0.78	7.30					
		(iv) Other Local Wood	1	1.035		0.78	0.81					
		Total							8.11	Sqm	1739.00	14099.99
17	106, 18	Collapsible gate with 40 mm x 40 mm x 6 mm Tee as top and bottom guide rail, 20 mm x 10 mm x 2 mm vertical channels 100 mm apart in fully stretched position 20 mm x 5 mm MS flats as collapsible bracing properly rivetted and washered including 38 mm steel rollers including locking arrangements, fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc in walls, floors etc and making good damages complete....In Ground floor .										
		Collapsible gate	1	1.8		2.1	3.78					
		Total							3.78	Sqm	3402.00	12859.56
18	194, 1(c)	White washing including cleaning and smoothening surface thoroughly. All floors...Three coats (On new work only).										
		Qty as per Item no.-10,12	Total				742.45	sqm	20.01	14856.36		
19	197, 15(iii)	Applying decorative cement based paint of approved quality after preparing the surface including scraping the same thoroughly (plastered or concrete surface) as per manufacturer's specification....In Ground floor. Two coats										
		Qty as per Item no.-11	Total				365.76	sqm	49.00	17922.00		
20	200, 1(b)	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surface by sand papering etc.										
		For Window	12	0.9		0.9	9.72					
			1	1.2		0.9	1.08					
							4.86					
		Total							15.66	m <sup>2</sup>		
Considering M.F 1.6							Total		25.06	m <sup>2</sup>	38.00	952.13

Sl. No	Page No & IT / Sl No	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Rate (Rs.)	Amount (Rs.)
21	200, 2(a)	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary :							
		With other than hi-gloss of approved quality							
		2 coat (with any shade except white)							
		Qty same as item no.-19	Total			25.06	m <sup>2</sup>	75.00	1879.20
22	81, 9(i)(a)	Galvanised corrugated iron sheet work (excluding the supporting frame work) fitted and fixed with 10 mm dia J or L hook bolts, limpet and bitumen washer .. Putty complete with 150 mm end lap and one corrugation minimum side lap.(Payment to be made on area of finished work) GCI sheet to be supplied by contractor.							
		In roof with 0.6 mm th. Sheet							
		At Mumpty roof	1	3.5	2.7		9.45		
			Total			9.45	m <sup>2</sup>	619.00	5849.55
<b>TOTAL COST (A)</b>									<b>1384585.00</b>
Add GST@ 12%(B)									1,66,150.20
Cost of civil works excluding labour welfarecess(C=A+B)									15,50,735.20
Labour welfare cess (on Sl.no C)@1.0% D									15,507.35
Cost of civil works including labour welfarecess(E=C+D)									<b>15,66,243.00</b>
Add Contingency (on Sl.no C) @3.0% Rs.									46,522.06
<b>TOTAL ESTIMATED COST</b>									<b>16,12,765.00</b>
<b>TOTAL ESTIMATE (IN WORD)-SIXTEEN LAKHS TWELVE THOUSANDS SEVEN HUNDRED SIXTY FIVE ONLY</b>									

RATE ANALYSIS											
ANNEXURE-II											
FORMAT-A											
(Format for Rate Analysis of Cement Concrete items)											
Cement Concrete 1:1.5:3											
Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes P-26, IT no-10 of PWD Building Schedule of Rates								4248.00	A		
Gradation of Stone Metal			10 mm graded aggregates				20 mm graded aggregates				
Cost of material Pakur variety (P-308) T-1 from midnapore Railway Yard, Distance=20 Km.			1569.00				1700.00				
Carriage		T-2, P - 310									
Upto 5km				124.00							
5-10km		10.90 X5		54.50							
10-20km		10.10X10		101.00							
20-50km		9.50X00		0.00							
50-100		8.40X50		0.00							
100-150		7.90X50		0.00							
		C		279.50				1569.00			
								1700.00			
Cost of 20 mm grades aggregates (P-B-60)			0.86	cum	0.573	1700.00	974.10				
Cost of 10 mm grades aggregates (P-B-60)			0.86	cum	0.287	1569.00	450.30				
							1424.40	B			
Cost of 20 mm grades aggregates (P-B-60)			0.86	cum	0.573	279.50	160.15				
Cost of 10 mm grades aggregates (P-B-60)			0.86	cum	0.287	279.50	80.22				
							240.37	C			
Loading & Unloading (D)T-3, P - 311			0.86	cum		58.00	49.88	D			
						A+B+C+D	5962.65				
Cement Concrete 1:2:4											
Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes P-24, IT no-4 of PWD Building Schedule of Rates								3647.00	A		
Gradation of Stone Metal			10 mm graded aggregates				20 mm graded aggregates				
Cost of material Pakur variety (P-308) T-1 from			1569.00				1700.00				
Carriage		T-2, P - 310									
Upto 5km				124.00							
5-10km		10.90 X5		54.50							
10-20km		10.10X10		101.00							
20-50km		9.50X00		0.00							
50-100		8.40X50		0.00							
100-150		7.90X50		0.00							
		C		279.50				1569.00			
								1700.00			
Cost of 20 mm grades aggregates (P-B-60)			0.88	cum	0.66	1700.00	1122.00				
Cost of 10 mm grades aggregates (P-B-60)			0.88	cum	0.22	1569.00	345.18				
							1467.18	B			
Cost of 20 mm grades aggregates (P-B-60)			0.88	cum	0.66	279.50	184.47				
Cost of 10 mm grades aggregates (P-B-60)			0.88	cum	0.22	279.50	61.49				
							245.96	C			
Loading & Unloading (D)T-3, P - 311			0.88	cum		58.00	51.04	D			
						A+B+C+D	5411.18				