

DETAILED ESTIMATE FOR CONSTRUCTION OF WORKING SHED AT KHARONE HORTICULTURE, DISTT KHARGONE SON 2024

SIZE 7.5 MX 7.60M

S. NO	Item of Work	Measurements				UNIT	RATE	AMOUNT	
		NO	L	B	H				QTY
1	SOR Item No. 2.6. Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil								
2	For Vertical Post SOR Item No. 4.1.1.2	8	0.60	0.60	0.6	1.73	Cum	147.00	255.00
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :								
	4.1.1 With 20mm nominal size graded stone aggregate.								
	4.1.1.2 M-20 - Grade concrete								
	For Vertical Post	8	0.50	0.50	0.60	1.20			
	Under Floor of Shed	1	7.50	7.20	0.10	5.40			
	2x1/2=1.00	1	0.50	0.20	11.00	1.10			
	SOR I.No.10.14.1					7.70	Cum	4933.00	37985.00
	Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) trusses/frame work etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes								
		1	1	7.500	7.600	57.00			
						14.65			
						835.05	Kg	117.00	97701.00

4	SOR Item No. 12.15	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.								
5	SOR Item No. 12.16.1	In Shade	1	2	4.40	7.50	66.00	sqm	652.00	43032.00
		Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm + 0.05 % total coated thickness, Zinc coating 120gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :								
		Ridges plain (500 - 600mm).								
		Shade Ridges	1	1	7.50		7.50	rmt	320.00	2400.00
6	SOR Item No. 5.16.6	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing ) etc. complete.								
		5.16.6 TMT ( FE 500 D OR MORE)								
		10mm dia Tor bar For Plinth beam								
		200x200								
		L.W.Panel	2	4.00	7.50	0.617	37.02			
		S.W.Panel	2	4.00	7.60	0.617	37.51			

2

	Under floor strapping 60x20 m.f / l								
	L.W. Panel	2	6.00	0.20	0.20	6.40			
	S.W. Panel	2	6.00	0.20	0.20	6.40			
7	(SOR Item No. 5.1.1)						1.00	sqm	20.00
	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement. All work up to plinth level - M 20 - Grade Concrete								
	For Plinth beam 200x200								
	L.W. Panel	2	7.50	0.20	0.20	8.00			
	S.W. Panel	2	7.20	0.20	0.20	7.60			
8	(SOR Item No. 5.9.2.1)						1.18	Cum	61.53.00
	Centering and shuttering including strutting, propping etc. and removal of form work for Walls (any thickness) including attached pilasters buttressed, plinth beams and string courses etc. 5'9.2" up to Plinth level								
	For Plinth beam 200x200								
	L.W. Panel	2	2.00	7.50	0.20	6.00			
	S.W. Panel	2	2.00	7.20	0.20	5.76			
9	SOR I. No. 2.26						11.76	sqm	219.00
	Supplying and filling in plinth with crusher stone dust / coarse sand under floors including watering, ramming and compacting in layers not exceeding 20cm in depth and dressing complete Note: - Maximum thickness of this layer shall be 20 cm.								
	Under Floor of Shed	1	7.50	7.20	0.10	5.40			
							5.40	Cum	672.00
10	SOR 13.65.								
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: Two or more coats on new work over an under suitable shade with ordinary paint of approved brand and manufacture.								
							25.00	sqm	77.00
									1925.00
									207107.00
									GRAND TOTAL AS PER SOR

**DETAILED ESTIMATE FOR MISCELLANEOUS WORK AT SHASKIYA UPDIYANIKHARGOHE DISTRICT**

S.No.	Name of Item	No.	Measurements			Qty.	Unit	Rate	Amount
			Nos.	L	B				
1	<b>SOR 2.1</b> Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. in all kinds of soil.								
	<b>For Chainlink Fencing</b>								
2	<b>SOR, 2.6</b> Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil		100.00	2.50		250.00	100 Sqr	803.00	2610
	<b>For Posts</b>								
3	<b>SOR, 10.1</b> Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	34	0.30	0.30	0.60	1.84	Cum	147.00	270
	<b>angle 4C*40*5 2.97Kg/m</b>	34	2.40			307.63	Kg	91.00	27995
	<b>SOR, 4.1.2.3</b> Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level : -7.5 Nominal Mix -1 Cement ; 4 Sand ; 8 graded stone aggregate st Base	34	0.30	0.30	0.60	1.84	Cum	3474.00	6378
	<b>R I. NO. 10.34.2</b>								



<p>Providing and fixing G.I. or PVC coated G.I. wire chain link fabric fencing of required width and mesh size including strengthening with 2mm dia wire or nuts, bolts and washers as required complete with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x60cm of mix 1:5:10 (Cement :5 sand :10 graded stone aggregate 40mm nominal size) every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and struts embedded in cement concrete blocks 70x45x50cm of the same mix, as per the direction of Engineer-in-charge. (Cost of post, painting earthwork &amp; c.c. to be paid separately)</p>									
Made of G.I. wire.									
2.55 KG/Sqm M									
SOR 18.28 /552		100.00		1.80	459.00	Kg	133.00		61047
SOR 18.28/552 Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 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 Rate 7.0									
		6000.00			4000.00	LITR	7.00		28000
							A		

MAIN GATE

2.6									
Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas(exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed.(No extra lift is payable if work is done by mechanical means) All kinds of soil									
Gate column	2	1.50	1.50	1.50	6.75				
Below beam	1	6.00	0.40	0.15	0.36				
					7.11	Cum	147.00		1045
4.1.1.4									

Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level M-10 Nominal (Mix-1 Cement : 3 sand : 6 graded stone aggregate)									
Gate column	2	1.50	1.50	0.15	0.68				
Below beam	1	6.00	0.40	0.15	0.36				
<b>5.16.6</b>					1.04	Cum	3090.00		1026
Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing ) etc. complete. (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")									
Thermo-Mechanically Treated bars FE 500 conforming to IS 1786.									
Double column footing zali 12mm dia	2	11	1.70	0.888	33.21				
12mm dia	2	11	1.70	0.888	33.21				
Gate column 16 mm dia bar	2	8	3.60	1.580	91.01				
Ground Beam 12mm dia bar	1	8	6.60	0.888	46.89				
8 mm dia bar column ring	2	20	1.40	0.395	22.12				
8 mm dia bar ground beam ring	1	40	1.40	0.395	22.12				
<b>5.9.1</b>					248.56	Kg	77.00		19139
Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for concrete upto plinth level									
Gate column	4	2		1.30	0.50	5.20			
<b>5.1.1</b>					5.20	Sqm	190.60		991

RCC upto plinth Providing and laying in position specified grade of reinforced cement concrete (nominal / design mix with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level M-20 Grade Concrete										
Gate column		2	1.30	1.30	0.50	1.69	Cum	6153.00	10399	
5.9.1										
Centering and shuttering including strutting, propping etc. and removal of form for: Foundations, footings, bases of columns, etc. for concrete upto plinth level										
Gate column	2	4		0.85	0.40	2.72	Sqm	190.60	518	
5.1.1										
RCC upto plinth Providing and laying in position specified grade of reinforced cement concrete (nominal / design mix with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :M-20 Grade Concrete										
Gate column	2	18	6.20	0.30	0.85	1.84	Cum	6153.00	11297	
5.9.6										
Centering and shuttering including strutting, propping etc. and removal of form for: Columns, P i l l a r s , Piers, Abutments, Posts and Struts.										
Gate column	2	4		1.80	0.40	5.76				
5.2.1						5.76	Sqm	471.20	2714	
Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, M-20 Grade Concrete										
Gate column		2	0.40	0.40	1.80	0.58	Cum	6231.00	3589	
5.9.2.1										
Centering and shuttering including strutting, propping etc. and removal of form for: Walls (any thickness) including attached pilasters butter esses, plinth beams and string courses etc. Uptoplinthlevel.										

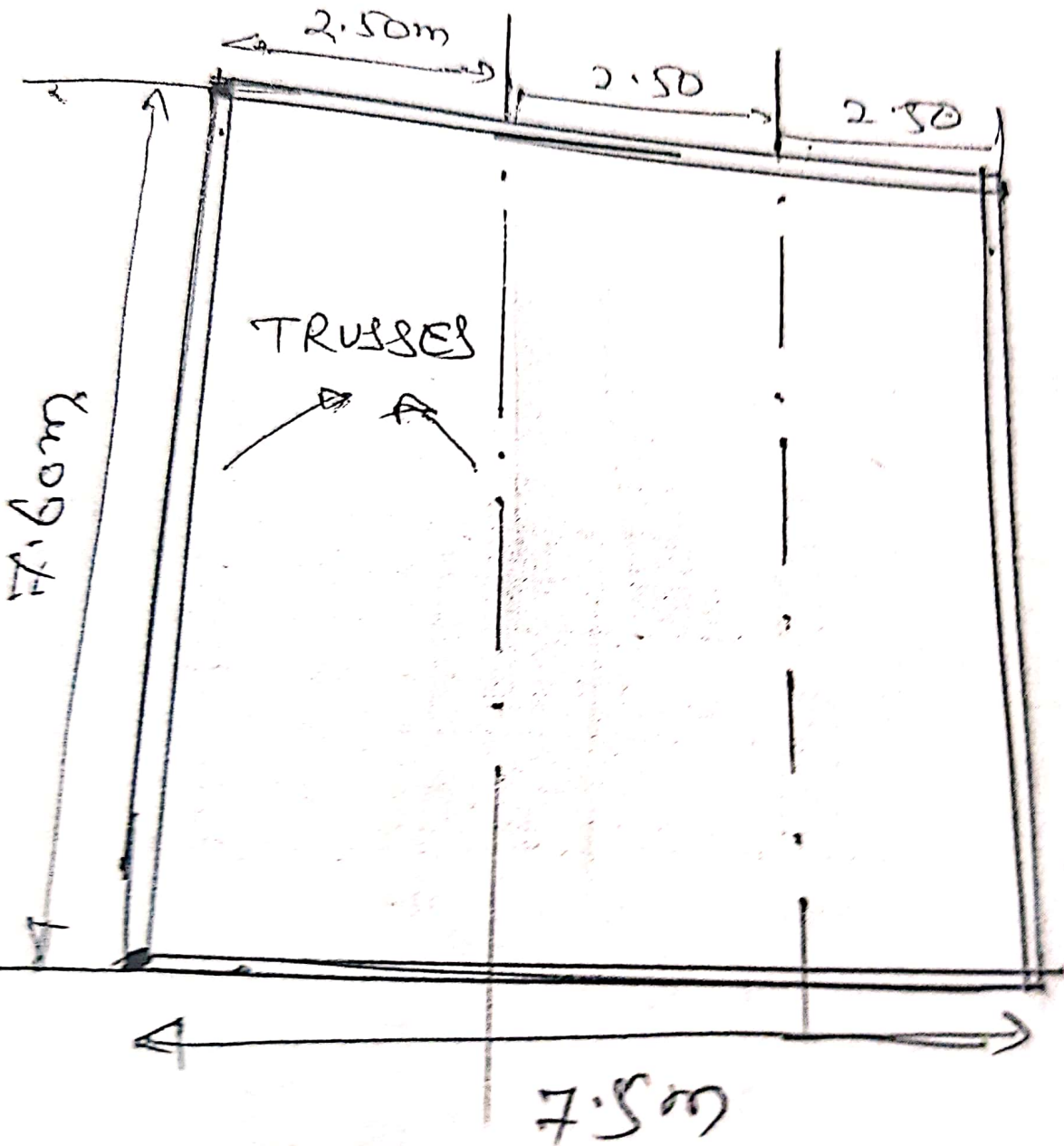
Ground Beam Shuttering:										
5.1.1	RCC upto plinth Providing and laying in position specified grade of reinforced cement concrete (nominal / design mix with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level M-20 Grade Concrete	2	6.00		0.30	3.60	Sqm	219.00	710	
Ground Beam										
10.15	M.S structural steel Design, supply, fabrication, transportation and erection of structural steel/mild steel built-up sections for steel building in column, rafter, truss, floor joist, wind bracings, tie beam, foundation bolts, fasteners etc. Including two coats of Epoxy paint and one coat of primer. These structural steel/built-up sections shall be manufactured using advanced CNC Plasma/Oxy Acetylene cutter and H Beam Welding line. Welding shall be in full depth on both sides of the plate adopting relevant I.S Code.	1	6.00	0.30	0.30	0.54	Cum	6153.00	3323	
Main Gate		1		400.00		400.00	Kg	132.00	52800	
13.2.2	15 mm cement plaster on the rough side of single or half brick wall of mix 1:6 (1 cement : 6 sand)									
Column		2	4		0.40	1.80	5.76	Sqm	168.00	968
13.53	Finishing walls by any mechanical or manual means with Premium Acrylic Smooth exterior paint (Premium exterior) of required shade including all scaffolding. New work (Two or more coat applied @1.67ltr/10sqm over and including one coat undiluted exterior waterproofing coating @ 2.39 litre/10 sqm with crack bridging ability of upto 0.5mm on horizontal surfaces with an elongation of 150% and water proofing of upto 3 bars on vertical surface)									
						5.76	Sqm	130.00	749	

6

13.64									
Synthetic enamel paint on new work Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work.									
Main Gate	1.25	6.60		1.60	13.50	Sqm	31.00		710
2.27.1									
Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete. With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)									
Gate to office levelling	1	70.00	3.00	0.30	63.00	Cum	390.00		1479
							2,72,000.00		254221



WORKING SHED - KUALA LUMPUR



Qsk