

BILL OF QUANTITY

Name of work :- Construction of 50 MT Rural Godown at PACS under KVV, 2023-24 at Kangpokpi District.

SI No	Description of items	Qty	Unit	Rate (in rupees)	
				(in figure)	(in words)
1	2	3	4	5	6
SH: EARTH WORK					
1	Earthwork in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m All kind of soil	10.68	cum		
2	Filling available excavated earth (e/c rock) in trenches, plinth sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering lead upto 1.5 m	3.56	cum		
3	Supplying and filling in plinth with sandy soil under floors including watering ramming, consolidating and dressing complete.	44.65	cum		
SH: CEMENT CONCRETE WORK					
4	Providing and laying in position cement concrete of specified grade excluding the cost of cantering and shuttering - All work upto plinth level: a) 1:5:10 (1 cem :5 c/sand :10 graded stone aggregate 40 mm nom size)	3.23	cum		
SH: RCC WORK					
5	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement-All work upto plinth level : 1:1.5:3 (1 cem : 1.5 c/sand : 3 graded stone aggregate 20 mm nom size)	10.17	cum		

6	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level upto floor five level excluding cost of centering, shuttering, finishing and reinforcement :				
	1:1.5:3 (1 cem : 1.5 c/sand : 3 graded stone aggregate 20 mm nom size)	4.46	cum		
7	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level upto floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with				
	1:1.5:3 (1 cem : 1.5 c/sand : 3 graded stone aggregate 20 mm nom size)	9.84	cum		
8	Reinforcement for R.C.C. work including bending, binding and placing in position complete				
	TMT bars	2924.36	kg		
SH: FORM WORK					
9	Centering and shuttering including strutting, propping etc. and removal of form for:				
	i) Foundations, footings, bases of columns, etc. for mass concrete	15.09	sqm		
	ii) Columns, Pillars, Piers, Abutments, Posts and Struts.	52.58	sqm		
	iii) Lintels, beams, plinth beams, girders, bressumers and cantilevers	68.50	sqm		
SH: BRICK WORK					
10	2nd class (local 1st class) brick work in foundation & plinth in cement mortar 1:3 (1cement: 3 f/s)	11.04	cum		
11	Half brick masonry with 1st class common burnt clay F.P.S. (non modular) bricks in superstructure above plinth level upto floor v level in cement mortar 1:4 (1 cement: 4 coarse sand)	192.35	sqm		
SH: STEEL WORK					

12	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters.				
	80x1.25mm M.S. laths with 1.25 mm thick top cover	12.96	sqm		
13	Steel work in built up tubular (round, square or rectangular tubes etc.) trusses etc., including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, including welding and bolted including special shaped washers etc. complete.				
	a) Hot finished welded type tubes	1882.73	kg		
SH: ROOFING & CEILING					
14	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) with zinc coating 120 grams per sqm 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 during 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 55 mm) 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 with				
	Precoated galvanised iron profile sheets 0.50 mm thick	111.11	sqm		
SH: ALUMINIUM WORK					

15	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required EPDM rubber/ Neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately):				
	For fixed portion.				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	13.20	kg		
16	For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)				
	Shutter section (18mm)	16.32	kg		
17	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	With float glass panes of 8 mm thickness	3.65	sqm		
SH: FLOORING WORK					

18	52 mm thick cement concrete flooring with concrete hardener topping under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume .hardening compound is mixed @ 2 litre per 50kg of cement or as per manufacturers specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete	83.14	sqm		
19	Cement plaster skirting (upto 30 cm height) with cement mortar 1:3 (1 cement : 3coarse sand) finished with a floating coat of neat cement 18 mm thick	2.43	sqm		
SH: FINISHING WORK					
20	12 mm cement plaster 1:3 (1 cem : 3 f/sand)	200.99	sqm		
21	15 mm cement plaster 1:3 (1 cem : 3 f/sand)	221.25	sqm		
22	Providing and applying white cement based putty of average thickness 1mm,of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	422.24	sqm		
23	Painting with synthetic enamel paint of approved brandand manufacture to give an even shade.	422.24	sqm		
24	Finishing walls weather shield paint of approved quality on new work (three or more coats) to give an even shade.	221.25	sqm		
Internal Electricfication Installation					
25	Wiring for Light point/Fan point/Exhaust Fan point/Call Bell point with 1.5mm ² P.V.C insulated copper conductor single core cable in P.V.C casing capping with modular type switch, modular plate size, G.I. Box and earthing the point with 1.5mm ² P.V.C insulated copper conductor single core cable etc. as regd.				
i) Group A		10	pt		

26	Wiring for circuit and sub-main wiring along with earth wire with (the following sizes) of FR P.V.C insulated wire with (the following sizes) of FR P.V.C insulated copper conductor single core cable in P.V.C casing and capping etc. as regd.				
	i) $2 \times 1.5\text{mm}^2 + 1 \times 1.5\text{mm}^2$ earth wire	125.00	mtr.		
27	Supplying and fixing 5amp to 32amp rating 230V 'B' series MCB for lighting and other load of (following poles) in the existing MCB DB complete with connection testing and commissioning etc. as regd.				
	i) Single pole & neutral	3	Each		
28	Wiring for Light point/Power plug with $2 \times 4\text{mm}^2$ P.V.C insulated copper conductor single core cable in P.V.C casing capping along with 1 no. 4mm^2 P.V.C insulated copper conductor single core cable for loop earthing etc. as regd.	10	pt		
29	S/F (following way) 3 pole and neutral, sheet steel, MCB distribution board 415V on surface/recessed complete with tinned copper bus bar neutral bus bar, earth bar, din bar detachable gland plate, interconnection, phosphatized and powder painted including earthing etc. as regd. (but without MCB/RCCB/Isolator).				
	i) 4 way (4+12 Double door horizontal type)	1	Each		
30	S/F Luker high bay LED indoor light 40W White LHBYC40	10	Each		