

DETAILED ESTIMATE FOR
PROPOSED WORK SHED (4 NOS)
AT GARMURH, MAJULI

NAME OF PROJECT:**Detailed Estimate for "PROPOSED WORK SHED AT GARMURH, MAJULI"**

SL. NO.	CPWD SOR NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs./unit)	Amount (Rs.)
1		EARTHWORK				
1.1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
	2.6.1	(a)All kind of soil	Cum	18.50		
2		PLAIN CEMENT CONCRETE WORKS				
2.01	4.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).				
	4.1.5	(a). In prop. 1:3: 6 (1 cement:3 coarse sand : 6 coarse agg. by volume (using mixture machine)	Cum	0.88		
3		REINFORCED CEMENT CONCRETE WORKS				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
3.01	4.1.2	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	7.55		
3.02	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing :				

	4.2.2	1:1½:3 (1 cement : 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	14.82		
4		ANTI-TERMITE TREATMENT				
	26.1.1	Pre construction anti-termite treatment with aqueous emulsion having concentration 1:19 with chloropiropose solution (trichel or equivalent) and water. This provides emulsion containing 1% chloropiropose solution (by weight)- at the bottom of foundation pits and walls on either side up to a height of 300mm from bottom of the excavation made for column, plinth beam, wall, trenches etc. by applying the emulsion @ 5 liters per square meter of the surface area before starting construction work (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.				
4.01		b) with aqueous emulsion having concentration 1:499 with Premise 350 SC (imidachlopid 30.5% SC) and water i.e.0.07% solution	sqm	48.60		
5		SHUTTERING				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	5.9.1	Foundation, footings, base of columns, pile cap, raft and mass concrete works etc.	sqm	4.80		
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	27.36		
	5.9.6	Columns, pillars, piers, abutments, posts and struts.	sqm	43.92		
	5.9.5	5) Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	29.07		
	5.9.3	3) Suspended floor, roofs, landing, balconies and access platform	sqm	67.32		
	5.9.70	Stairs, (excluding landings) except spiral-staircases	sqm	12.26		
6		BRICKWORK				
6.01	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				

	6.1.1	Cement mortar 1:4 (1cement: 4coarse sand).	CUM	0.86		
6.02	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
	6.13.1	Cement mortar 1:3 (1 cement :3 coarse sand)	Sq.m	16.56		
	24.2	Bamboo slit walling in timber frame with bambooslit fitted in to the grooves of timber frame and stiffened by means of double bamboo slits 25mm wide and not less than 6mm thick spaced at intervals of not more than 400mm apart one slit attached on each side and tied together by the means of cane slit/ galvd. tying wire including 20mm thick cement plaster in prop.1 cement : 6 fine sand on both sides in two coats with curing etc. complete.	Sq.m	75.96		
7		PLASTERING				
7.01	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix : 13.2.1 1:4 (1 cement: 4 fine sand)	Sq.m	16.56		
8.02	13.1	12 mm cement plaster of mix : 13.1.1 1:4 (1 cement: 4 fine sand)	Sq.m	16.56		
8.03	5.22.A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. 5.22A.6 Thermo-mechanically treated bars.	kg	3649.00		
9		Floor finish				
9.01	4.1.	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size).	cum.	1.94		

9.02	13.7	12 mm cement plaster finished with a floating coat of neat cement of mix : 13.7.2 1:4 (1 cement: 4 fine sand)	Sq.m.	4.14		
10		PAINTING				
10.02	13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : 13.43.1 Water thinnable cement primer.	Sq.m	33.12		
10.03	13.42	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
		13.42.1 Two or more coats on new work	Sq.m	33.12		
10.04	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. 13.85.1 With ready mixed pink or grey primer on wood work(hard and soft	Sq.m	7.26		
10.05	13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : 13.62.1 Two or more coats on new work over an under coat of suitable shade	Sq.m	7.26		
11		DOORS/ WINDOWS & FITTING				
11.01	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
		9.20.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sq.m	2.52		

11.02	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 9.1.2 Sal wood	cum	0.04		
12		DOORS/ WINDOWS & FITTING				
12.01	9	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
	9.74.1	b) Tower bolts i) 250mm x 10mm	NO	2.00		
	9.81	Providing and fixing bright finished brass handles with screws etc. complete:				
	9.81.1	125 mm	NO	2.00		
13.01	8.1.18	Providing bamboo roof truss with whole ruas bamboo and kamis, ruas placed at 150 mm apart and kamis 200mm to 230mm apart including tying all members with galvd tying wire.	sq.m	75.48		
13.02	8.1.19	Providing bamboo jaffri over thatch roof with 200mm sq.m. mesh bamboo slips of 35mm width.	sq.m.	75.48		
TOTAL						

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ELECTRIFICATION WORKS

CPWD SOR NO.	ITEM DESCRIPTION	UNIT	RATE	QNTY	AMOUNT
1.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
1.1.1	Group A	Point		8	
1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
1.14.6	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	Metre.		45	
1.17	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
1.17.11	2 x 2.5 sq. mm	Metre.		40	
1.17.20	2 x 4 sq. mm	Metre.		53	
1.22	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.				
1.22.2	100 mm X 100 mm X 60 mm deep	Each		2	
1.22.3	150 mm X 75 mm X 60 mm deep	Each		2	
1.22.4	150 mm X 150 mm X 60 mm deep	Each		2	

1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
1.27.1	1 module	Each		2	
1.27.1	2 module	Each		2	
1.27.2	3 module	Each		2	
1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each		6	
1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each		6	
1.42	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc., including supplying and fixing ball and socket arrangement, 2 Nos. down rods of 20 mm dia X 1.6 mm thick steel conduit upto 30 cm length, painting and wiring the down rods and connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each		4	
1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
1.24.1	5/6 A switch	Each		2	
1.24.3	15/16 A switch	Each		2	
1.24.4	3 pin 5/6 A socket outlet	Each		2	
2.1	Providing and fixing following capacity TP&N disconnecter fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required.				

	315 A, TP&N	Each		1	
24.10	Supplying including fitting and fixing of the following CFL lamp Twister/Tornado/Mbianle/ Essential/Genie etc. complete as directed and specified by the deptt. (Philips or equivalent)				
	Essential HPF 23 W WW E-27-220-240 V ICT/12	Each		4	
6.8	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required	Metre		25	
6.7	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required.	Metre		40	
1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each		2.00	
	Supplying including fitting fixing of following star rated A.C. Ceiling fan complete with all accessories like down rod, canopy etc. of following sweeps with making necessary connection cable, as approved by the Deptt.s etc. as required complete and as directed by the Department [Without regulator]. (ORIENT PSPO make / Usha make/ CROMPTON make/ Havells/ ATC/ V GAURD make)				
	Energy efficient 5-star 54" sweep. ORIENT PSPO / Usha / CROMPTON / Havells/ ATC or equivalent make	Each		2.00	
	TOTAL AMOUNT				