

DETAILED ESTIMATE FOR
PROPOSED CFC SHED
AT GARMURH, MAJULI

ABSTRACT OF COST

Sl. No.	Description	Amount
1	Total Cost of Civil works	
2	Total Cost of Sanitary works	
3	Total Cost of water supply works	
4	Total Cost of internal electrification	
	Total	

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NAME OF PROJECT:

Detailed Estimate for "PROPOSED CFC SHED ATGARMURH, MAJULI"

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs./unit)	Amount (Rs.)
1	EARTHWORK				
1.01	Earthwork in excavation for foundation trenches of walls, retaining walls, footing of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.				
	(A) Up to a depth of 2.00m below the existing ground level (a) In ordinary soil	Cum	37.20		
2	PLAIN CEMENT CONCRETE WORKS				
2.01	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).				
	(a). In prop. 1:3: 6 (1 cement:3 coarse sand : 6 coarse agg. by volume (using mixture machine)	Cum	1.76		
3	REINFORCED CEMENT CONCRETE WORKS				
	Providing and laying plain/reinforced cement concrete works in prop 1:1.5:3 (1 cement :1.5 coarse sand :3 graded stone chips, 20mm down) including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (i)In substructure up to plinth level				
3.01	Foundation, footing, column with base, tie and plinth beam, grade beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick.	Cum	15.68		

3.02	B) Super-structure from plinth level upto 1st floor level. ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.b) M20 or Prop. 1:1.5:3	Cum	39.49		
4	ANTI-TERMITE TREATMENT				
	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 (imidachloprid 30.5% SC) and water i.e.0.07% solution	sqm	23.52		
6	SHUTTERING				
	Providing form work of ordinary timber planking so as to give a rough finish including centering, shattering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in situ reinforced concrete plain concrete work in:				
6.01	Foundation, footings, base of columns, pile cap, raft and mass concrete works etc.	sqm	9.60		
6.02	Sides of tie beams, plinth beams, grade beams etc. at or below plinth level. Using 25mm thick plank	sqm	61.36		

6.03	Columns, pillars, posts & strut Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face Using 25mm thick plank	sqm	87.84		
6.04	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. Using 25mm thick plank	sqm	74.83		
6.05	Flat surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like. Floors etc. upto 200mm in thickness. Using 25 mm thick plank	sqm	139.23		
6.06	Staircase with sloping or stepped soffits including risers and stringers but excluding Landing. (Using 38mm thick plank)	sqm	12.75		
7	BRICKWORK				
7.01	Providing brick soling in foundation and under floor with stone/best quality picked jhama brick, sand packed and laid to level and panel after preparing the sub-grade as directed including all labour and materials and if necessary dewatering, complete.				
	Brick on flat soling.	Sq.m	36.46		
7.02	112 mm thick 1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embedded in cement mortar and will be measured and paid separately)				
	a) In cement mortar in proportion 1:4 (1 cement : 4 sand)				
	(i) In super structure up to 1st floor level	Sq.m	81.67		
8	PLASTERING				

8.01	15 mm thick Cement plaster in single coat on rough side of single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm in girth and finished even and smooth including curing complete as directed. (a). In cement mortar in proportion 1:4.(1 cement:3 sand)	Sq.m	93.59		
8.02	15 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. (a). In cement mortar in proportion 1:3.(1 cement:3 sand)	Sq.m	118.16		
8.03	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20 G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete (up to 1st floor level).	QT	88.87		
9	Floor finish				
9.01	40 mm thick cement concrete floor consisting of 25 mm under layer of cement concrete in prop. 1:3:6 (1cement : 3 coarse sand : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed.	Sq.m.	111.39		
9.02	Cement plaster skirting with cement mortar in prop.1;3 finished with a floating coat of neat cement including rounding junction with floor. (a) 15 mm thick	Sq.m.	6.60		
10	PAINTING				

10.01	Providing two coats of J.K Wall Putty (White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)	Sq.m	211.74		
10.02	Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	Sq.m	211.74		
10.03	Wall painting (two coats) with Plastic emulsion paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.				
	(a).Plastic Emulsion Paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	Sq.m	211.74		
10.04	Applying priming coat over new wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter , sand papering and knotting.(b). With ready mixed paint , wood primer (white).	Sq.m	10.42		

10.05	<p>Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt,dust and other foreign matter sand papering and slopping.</p> <p>i) Surfaces over 100mm in width or girth. a)General purpose (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).</p>	Sq.m	10.42		
11	DOORS/ WINDOWS & FITTING				
11.01	<p>Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevant I.S code including oxidized iron butt hinges (100mm× 75mm×3.5mm) 6 nos. with necessary wood screws.</p>				
	a) Decorative type face panel and block board core.				
	(ii) 35mm thick.	Sq.m	4.10		
11.02	<p>Providing wood work in frame (chowk aths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embeded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified.</p> <p>a). (c). With Bonsum/Sundi wood</p>	cum	0.10		
11.03	a) Providing , fitting & fixing anodised aluminium sliding windows and ventilators of standared sections of approved brand .				
	b) 3 track				
	iv) 5 mm clear glass	sq.m.	35.24		
12	RAILLING & grill				

12.01	Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ opening with M.S. flats at required spacing in frame all round, square or round M.S. bars with round headed bolts and nuts or screws.				
	II. Ornamental grill. C) fixed to brick work /P.C.C/R.C.C.	KG	352.35		
13	DOORS/ WINDOWS & FITTING				
13.01	Supplying, fitting, fixing brass fittings of approved make, reasonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary c.p. brass screws etc. complete.(bright natural matt & satin finished).				
	b) Tower bolts i) 300mm x 10mm	NO	4.00		
	c) Door handles (iii)150 mm	NO	4.00		
14	TRUSS				
14.01	Providing fitting, hoisting and fixing of roof trusses including purlins fabricated out of M.S. black-tubes conforming to relevant I.S. code, as per approved design and drawings including providing M.S. cleats, base plates, bolts and nuts and one coat of red oxide Zinc Chromate primer and two coats of approved enamel paints complete including fitting necessary cleats etc. for fixing ceiling joists as per design and drawing as directed. b) Using other ISI marked approved circular hollow section	Qtl	13.40		
15	ROOF				
15.01	Providing corrugated galvenised iron sheet roofing TATA SHAKTEE/SAIL/DYNA including fitting and fixing necessary galvanised J or I hooks, bolts and nuts of 8mm dia. With bitumen washer 25 mm dia x3mm thick and 1.6 mm thick limpet washer complete excluding cost of roof truss, purlins etc. (a) 0.45 mm thick	sq.m	177.50		

15.02	Providing coloured corrugated galvenised iron (TATA SHAKTEE/ SAIL/DYNA) ridging including supplying and fixing necessary galvanised screws/ washer etc. complete as specified and directed. (a) 150 mm lapping	rm	31.95		
16	CEILLING				
	supplying fitting ,fixing and painiting where necessaryM/F SUSPENDEd CEILLING as per design				
	i)9.5 mm thk.	sq.m	111.39		
17	Providing, fiting and fixing anodised aluminium partition walls of standard sections of approved brand [hindalco\nalco\balco/jindal/other equivalent primary producer] joints metered and welded[manufactured to relevan I.S. specification] and provinding and fitting angle cleat, rubber gasket, bolting devics screws etc. at all levels. (vi) 5mm clear glass	sq.m	8.10		
TOTAL					Rs.

Water Supply works

Sl.No.	Description of Items.	Unit	Rate	Qty.	Amount.
	PP-R PIPES				
1	Providing and fixing S.F.M.C. Brand 3 layer (Outer green coloured UV Stabilised, middle black coloured UV Stabilised and innermost layer white coloured with antimicrobial property) Fusion welded PP-R (Poly propylene- random copolymer) Pipes, SDR 7.4 having thermal stability for hot and cold water supply including all plain PP-R fittings and brass threaded PP-R fitting and clamping, cutting and making good to the damages.				
	Concealed pipe with cutting chases & making good the walls				
	a) PN-16 Pipe,16mm OD,SDR-7.4	rm		8.00	
	b) PN-16 Pipe,20 mm OD,SDR-7.4	rm		8.00	
	c) PN-16 Pipe,25 mm OD,SDR-7.4	rm		8.00	
	f) PN-16 Pipe,50 mm OD,SDR-7.4	rm		8.00	
2	Supplying, fitting and fixing pipes plain/bevel ended for casing, conforming to relevant IS codes of practice including supplying and fitting of tube well accessories, lowering of assembly pipes concentrically in the borehole followed by supplying and packing of pea gravel free from dirt, dust and other foreign materials in the annular space between the borehole and assembly pipes complete as directed by the Department.				
	G.I. Pipe				
	(a) TATA/ SAIL (medium) (sockets should be welded to the pipes)				
	(vi) 150mm diameter	rm		6.00	
	(iv)100mm diameter	rm		6.00	
	PVC Pipe				
	(a) Supreme Brand				
	(vi) 140mm diameter	rm		7.00	
	VALVE				
3	Supplying and fitting gun metal country pit valve (full way valve) I.S.I. Make as specified and directed.				
	a) 50mm dia	each		2.00	
	d) 20 mm dia.	each		2.00	
	d) 40 mm dia.	each		2.00	
				Total Rs.	
				=	

SANITARY WORKS

Sl.No.	Description of Items.	Unit	Rate	Qty.	Amount.
1	PVC PIPES, BENDS, JUCTIONS, TEES ETC.				
	Supplying fitting and fixing PVC single 'Y' with door of (Supreme/Prince) or other ISI approved including joining, fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.				
	a) In exposed surfaces or in trenches.				
	(i) 110mm dia.	each		8.00	
	(ii) 75 mm dia.	each		8.00	
	Supply fitting and fixing PVC socket plug of (Supreme/ prince) or other ISI approved including joining, fitting and fixing with long screw fitting, H.W. clamps etc. completed at all levels including bellow G.L. as directed and specified.				
	i) 110mm dia.	Each		8.00	
	ii) 75mm dia.	Each		8.00	
3	COWEL				
	Providing fitting and fixing 100mm dia PVC cowel of ISI make complete as direction and specified.	Each		1.00	
4	EUROPEAN TYPE WATER CLOSET				
	Providing and fixing white vitrious china squatting plate of size 450mmx350mm with automatic flushing cistern of similar colour and an integral longitudinal flushing pipe of Parryware make with standard size PVC flush pipe for back and front flush with standard spreader pipes with fittings G.I. clamps etc. complete including painting of fittings and brackets cutting and making good the walls and floors wherever required.				
	(A) (a)white				
	(i)	each		1.00	
5	WASH BASIN				
	Providing vitreous China wash basin of size 630mm x450mm of Parryware make with CI/MS brackets, 32mm CP brass waste coupling of standard pattern,C.P stop cock,C.P brass chain with plug,PVC waste pipe including painting of fittings and brackets, cutting and making good the walls				

	wherever required.				
	(A) (a) White				
	(iii)	each		1.00	
6	MIRROR				
	Providing fitting and fixing mirror with plastic frame of sizes 500x400mm complete as directed and specified.				
	(a) Size 800mmx600mm	each		1.00	
7	SOAP TRAY,SOAP DISH,LIQUID SOAP DISPENSER AND LIQUID SOAP CONTAINER				
	Providing, fitting and fixing recessed soap tray of Hindware make complete as specified and directed.				
	(A) White				
	(i) Size 285mm x 145mm	each		2.00	
8	TOWEL RAIL				
	Providing, fitting and fixing chrome plated (CP) towel rail of Jaquar make complete as specified and directed.				
	(a)(i) Continental Accessories (600mm long)	each		1.00	
9	BOTTLE TRAP				
	Providing fitting and fixing C.P. bottle trap Indian type with outlet pipe and wall flange of following size Ark Sona make for basin etc. complete as directed and specified.				
	(a) (I)	each		2.00	
				Total Rs. =	

ELECTRIFICATION WORKS

ITEM DESCRIPTION	UNIT	RATE	QNTY	AMOUNT
Wiring for light/ fan/ call bell point with 3x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable HFFR/ZHFR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 2 mm thick 20mm dia rigid low halogen SFT PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including ceiling rose etc. complete				
Short point up to 3.00 metre. Length.	Each		135	
Wiring for circuit wiring with P.V.C. insulated single core unsheathed industrial (Multistrand) cable HFFR/ZHFR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco or Equivalent Make as approved by the Deptt.) cable in surface/ recessed PVC 2 mm thick rigid low halogen SFT PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.				
With 3 x 1.5 sq. mm. cable in 20 mm dia. rigid low halogen SFT PVC IS: 9537 Part - III conduit	Metre.		155	
Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable HFFR/ZHFR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco or Equivalent Make as approved by the Deptt.) in PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) with earth continuity in surface/ recessed 2 mm thick rigid low halogen SFT PVC IS: 9537 Part - III conduit wiring system.				
(a) with 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. rigid low halogen SFT PVC IS: 9537 Part - III conduit.	Metre.		35	

b) with 2 x 4 sq. mm. + earth continuity with 1x2.5 sq. mm. in 20 mm. dia. rigid low halogen SFT PVC IS: 9537 Part - III conduit	Metre.		35	
Supplying including and fixing of following Metal boxes for MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE in surface/ recessed system complete as per direction of department.				
1-2 module type Metal	Each		6	
3 module type Metal	Each		6	
4-5 module type Metal	Each		6	
Supplying including fitting fixing of following front plate of suitable colour MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE as per direction of department.				
1 module	Each		5	
2 module	Each		5	
3 module	Each		5	
Supplying including installation of socket outlet 6/16 Amps 3/5 pin combine shuttered complete , MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each		5	
Supplying including installation of socket outlet 6 Amps 3 pin combine shuttered complete , MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each		5	
Supplying with fitting fixing of 16 amp one way modular clip in switch, MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each		8	

Supplying with fitting fixing of 6 amp one way modular clip in switch, MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each		5	
Supplying with fitting and fixing MCCB income and MCB outgoing sheet steel, phosphatised, powder painted double door IP-43 surface mounting vertical TPN MCB DB incorporated with bas-bar up to 250A, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.				
(C&S, Havells, Indo Asian, HPL, V-Guard or equivalent make as approved by the Deptt.)				
4 way TPN (4+12) double door	Each		1	
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		10	
Supply and fixing of 19 mm dia 1.50mm to 2.00mm average wall thickness heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) on surface system including painting etc as required:	Metre		22	
Supply and fixing of 25 mm dia 1.50mm to 2.00mm average wall thickness heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) on surface system including painting etc as required:	Metre		18	
Supplying including fitting fixing of following A.C. Exhaust fan in the existing hole on the wall of following sweeps with making necessary connection as approved by the Deptt.)as required complete and as directed by the Department..				
Domestic				

Heavy Duty 450 mm sweep 900 RPM Single phase (ORIENT make)	Each		1.00	
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		6.00	
TOTAL AMOUNT				Rs.