

BID DOCUMENT

PART-B

(FINANCIAL BID)

NIT No.01/DTE(UD&PA)/Tech(NULM)/2024-2025 : Dated Aizawl, the 13th September, 2024

**NAME OF WORK : CONSTRUCTION OF PATIENT'S ATTENDANT
SHELTER AT KOLASIB**

ISSUED TO :

GROUP NO :

5 (FIVE)

**DIRECTORATE OF URBAN DEVELOPMENT & POVERTY ALLEVIATION DEPARTMENT
GOVERNMENT OF MIZORAM
MIZORAM: AIZAWL**

BILLS OF QUANTIES FOR CONSTRUCTION OF PATIENT'S ATTENDANT SHELTER AT KOLASIB

NIT NO. 01/DTE(UD&PA)/Tech(NULM)/2024-2025; Dated the 13th Sept, 2024

Tender Amount: Rs 40,70,963.00

Sl. No	Description	Quantity	Unit	Quoted Rate		Amount INR (In figures)
				In figures	In words	
1	Surface dressing of ground including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5m	418.00	Sqm			
	(a) All kinds of soil					
2	Earthwork in excavation over areas (exceeding 30cm in depth,1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.	12.00	Cum			
	(a) Ordinary and Hard Soil					

3	Earthwork in excavation in foundation trenches or drains etc. (not exceeding 1.5m in width or 10sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m including getting out excavated soil and disposal of surplus excavated soil as directed within a lead of 50 metres.	32.23	Cum			
	(b) Hard Soil (pick work)					
4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	10.74	Cum			
5	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:					
	(a) 1:2:4	5.26	Cum			

6	Reinforced cement concrete work in walls including attached pillasters, columns, pillers, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.	7.63	Cum			
	(b) 1:2:4					
7	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement complete.	65.55	Cum			
	(b) 1:2:4					
8	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.					

	(b) Thermo-Mechanically Treated bars of grade Fe-500 or more.	4547.80	Kgs			
9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					
	(a) Foundations, footings, bases of columns etc. for mass concrete.	34.40	Sqm			
	(c) Columns, pillars, piers, abutments, posts and struts.	101.76	Sqm			
	(d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.	280.80	Sqm			
	(e) Suspended floors, roofs, landings, shelves and their support, balconies and chajjaj,etc.	19.02	Sqm			
	(f) Staircases (except spiral staircase) excluding landings.	29.12	Sqm			

10	Half brick masonry with first class brick in foundation and plinth in:	13.78	Sqm			
	(b) in cement mortar 1 : 4					
11	Half brick masonry with first class brick in foundation and plinth in:	312.11	Sqm			
	(a) in cement mortar 1:3					
12	Providing corrugated G.S. sheet roofing fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (upto a pitch of 60 degrees) excluding the cost of purlins, rafters and trusses.	7.25	Sqm			
	(a) 0.80 mm thick with zinc coating not less than 275gm/m ²					

13	Regular coursed rubble masonry with hard stone in foundation upto one storey above and below ground level including curing, etc. complete.	1.50	Cum			
	(a) in cement mortar 1 : 3					
14	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard sections/ other sections of approved make conforming to IS : 733 and IS : 1285 fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ neoprene gaskets etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing /panelling, CP brass /stainless steel screws all complete including fixing of glasses but excluding cost of glasses.					

	(a) Natural colour					
	(i) 2 - track sliding windows/ventilators.	36.80	Sqm			
15	Supplying of glass panes at site.					
	(b) 5mm thick plate sheet glass.	36.80	Sqm			
16	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. (round, square or rectangular hollow tubes etc.)					
	(a) MS tube 40mm @ 3.6 Kg/m	52.92	Kgs			
	(b) GI tube 40mm @ 3.72 Kg/m	13.39	Kgs			
17	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.	0.05	Sqm			

18	Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.					
	(a) 40 mm thick.	14.49	Sqm			
19	15mm cement plaster 1 : 3 (1 cement : 3 fine sand).	651.78	Sqm			
20	Applying priming coat with ready mixed primer of approved brand and manufacture on plaster surface.	651.78	Sqm			
	(a) Ready mix white primer.					
21	Providing and fixing M.S. sliding door bolts (aldrops) bright finished and/ or black enamelled with nuts and screws etc. complete.	6	Nos			
	(a) 300 x 16 mm					

	(b) 250 x 16 mm	6	Nos			
22	Providing and fixing M.S. Tower bolts (socket bolts) bright finished with necessary screws etc. complete.	6	Nos			
	(a) 300 mm					
23	Providing and fixing M.S. handles with necessary screws, etc. complete					
	(a) 150 mm	6	Nos			
	(b) 125 mm	6	Nos			

24	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm uPVC P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:					
	(a) Orrisa pan with integral type foot rests	3	Nos			
	(i) White					
25	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm uPVC P or S trap, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: (Without Cistern)					
	(b) Asian pan with integral type foot rests					

	(i) White	3	Nos			
26	Providing and fixing on wall face SWRPVC soil, waste and vent pipes including jointing with rubber lubricant/cement solvent complete.	60.00	Rm			
	(a) 110mm dia.					
27	Providing and fixing SWRPVC plain bend of required degree (45°) including jointing with rubber lubricant/cement solvent complete.	15	Nos			
	(a) 110mm dia.					
28	Providing and fixing Health faucet with flexible tube upto 1 metre long and holder of quality and make as approved by Engineer - in - charge..	4	Nos			

29	Providing and fixing White vitreous china wash basin Standard of Parryware/ Hindware/ Cera and equivalent make with R.S. or C.I. brackets, 15mm C.P. brass pillar taps, C.P. brass chain with rubber plugs, 32mm C.P. brass waste of standard pattern, 32mm C.P. brass traps and union complete including painting of fittings and brackets, cutting and making good the walls wherever required.					
	(b) Vitreous China Wash basin Compact 450 x 300 mm with single 15 mm C.P. brass pillar taps	3	Nos			
30	Providing and fixing vitreous china tall pedestal of Parryware/ Hindware/ Cera and equivalent make for wash basin completely recessed at the back for the reception of pipes and fittings.	3	Nos			
	(i) White					

31	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : (Hindware or equivalent)					
	(a) Single Sink 610x510 mm bowl depth 200mm	6	Nos			
32	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick asbestos sheet ground fixed to cleats with C.P. brass screws and washers.	2	Nos			
33	Providing and fixing C.P. brass towel rail with two C.P. brass brackets to wooden cleats with C.P. brass screws.	3	Nos			
	(a) 750x20mm size.					

34	Providing and fixing anodised aluminium towel rail with two anodised aluminium brackets to wooden cleats with C.P brass screws.	3	Nos			
	(a) 750x20mm size.					
35	Providing and fixing toilet paper holder.	3	Nos			
	(a) C.P. brass toilet paper holder of standard size.					
36	Providing and fixing liquid soap container with C.P. brass lid and brackets fixed to wooden cleats with C.P. brass screws.	4	Nos			
	(b) Soap dish chromium plated with brackets.					
37	Providing and fixing soap dish fixed with C.P. brass screws.	2	Nos			

38	Providing and fixing on wall face SWRPVC soil, waste and vent pipes including jointing with rubber lubricant/cement solvent complete.					
	(a) 110mm dia.	15.00	Rm			
	(b) 75mm dia.	15.00	Rm			
39	Providing and fixing SWRPVC plain bend of required degree (87.50°) including jointing with rubber lubricant/cement solvent complete.					
	(a) 110 mm dia.	20.00	Rm			
	(b) 75mm dia.	20.00	Rm			
40	Providing and fixing single equal SWRPVC plain junction of required degree (T-junction) .					
	(b) 75x75x75mm.	15.00	Rm			

41	Providing and fixing G.I. pipes complete with G.I. fitting and clamps, including cutting and making good the walls etc. (internal works- exposed on wall).	25.00	Rm			
	(a) 20mm dia nominal bore					
42	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid seperately).	3	Nos			
43	Providing and fixing G.I. pipe complete with G.I. fitting including trenching and refilling etc. (external work).	10.00	Rm			
	(a) 15mm dia nominal bore.					
44	Providing and fixing brass bib cock of approved quality.	4	Nos			
	(a) 15mm nominal bore					

45	Providing and fixing brass stop cock of approved quality.	4	Nos			
	(a) 15mm nominal bore					
46	Providing and fixing PVC pipes complete with fittings and clamps, including cutting and making good the walls etc. (internal work).	18.00	Rm			
	(a) 15mm nominal bore					
47	Providing and fixing PVC bib cock of approved quality, colour and make.	4	Nos			
	(a) 15mm nominal bore					
48	Painting G.I pipes and fittings with two coats of anti corrosive bitumastic paint of approved quality.	10.00	Rm			
	(b) 20mm dia pipe					

49	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, 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.	3000.00	Litres			
	(a) Sintex or quivalent					
						TOTAL A
	B. ELECTRICAL WORKS					
	Light points, ceiling fan points, exhaust fan point etc. (GRADE - III) Modular					

50	Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per IS:694(1990) and Flame retardant (FR) 1100 voltage graded copper flexible wire stranded copper 1.5 sq.mm running inside PVC casing & capping (Gr-II) 20mm dia fixed, surface on the wall/ceiling/floor as per convenience including junction box having required numbers of ways from control switched to the light point etc as per required:-					
	TO LIGHT POINT					
	(B) Short point (Modular)	8	Nos			
	(C) Medium point (Modular)	10	Nos			
	(D) Long point (Modular)	20	Nos			
	TO CEILING/WALL FAN POINT					
	(C) Medium point (Modular)	5	Nos			

	LIGHT PLUG/SOCKET POINT 5/6 AMPS (MODULAR TYPE)					
51	Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per IS:694(1990) and flame retardant (FR) 1100 voltage graded copper flexible wire stranded copper 2.5 Sq.mm running inside PVC casing &capping (Gr-II) 20x12mm fixed, surface on the wall/ceiling/floor as per convenience including junction box having required number of ways from DB to the light plug/socket 5/6A point etc. as required:-	2	Nos			
	(D) Long point (Modular)					
	POWER SOCKET/ PLUG POINT 15/16A (MODULAR TYPE)					

52	Wiring in looping system with PVC wire sheathed standard copper conductors/wires as per IS:694(1990) and Flame retardant (F) 1100 voltage graded copper flexible wire stranded copper 4.0 Sq.mm running inside PVC casing & capping (Gr-II) 30x12mm fixed,surface on th wall/ceiling/floor as per convenience including junction box having required number of ways from DB to the power plug/socket 15/16A point etc as required:-	18	Nos			
	(C) Medium point (Modular)					
	MAIN TO SUB-MAIN WIRING GRADE III SURFACE(SINGLE PHASE TWO WIRE)					

53	Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per IS:694(1990) and flame retardant (FR) 1100 voltage graded copper flexible wire stranded copper of different sizes as mentioned below running inside PVC Casing & capping (Grade-II) of all available sizes diameter fixed, surface on the wall/ceiling floor as per convenience including junction box having required numbers of ways from Main to sub-main/DB/Sub-Main/DB to SDB/Switch Boards/SDB to switch boards as required:-					
	(A) 2x2.5 Sq.mm Copper Conductor+1x2.5 Sq.mm earth wire	21.608	Rm			
	(C) 2x6 Sq.mm Copper Conductor+1x6 Sq.mm earth wire	12.00	Rm			
	LIGHTING FIXTURES AND FANS					

54	(2045) Ceiling fan 900mm sweeps ISI marked 3 blades	5	Nos			
55	Installation,testing&commissioning of ceiling fan and regulator, including wiring down the rod of standard length (upto 30cm) with 2X1.5 Sq.mm PVC insulated copper conductor single core cable etc, as required.	5	Nos			
56	(1547) LED Batten fitting 1X12W Linea 2' with LED tube(Philips/Havells/Bajaj)	24	Nos			
57	(1814) Adore LED 0.5W B22/E14 Base	14	Nos			

58	Installation, testing & Commissioning of pre-wired flourescent Light/LED fittings of all types, with all accessories and tubes etc, directly on ceiling/wall, including connection with 1.5 Sqmm copper conductor single core cable etc as required.	38	Nos			
	EARTHING AND LOOP EARTHING					
59	Advance maintenance free chemical earthing Copper 2000x80mm with 1 bag back filing compound for all type of transformer PLC Machineries, Lighning conductors, multistoreyed building, industries, lift, generator etc	1	Set			
60	Extra for using Back filling compound I for G.I. Or copper Maintennance free electrode as required SBE back Filling Compound.	1	Set			

61	Providing and fixing of 8 SWG Copper wire or in recesses for lopp earthing alongwith the existing surface/recess conduit PVC casing and capping etc. As required.	20.00	Rm			
	MAIN DISTRIBUTION, SWITCH BOARDS ETC.					
62	Supplying and fixing of different ways MCB Distribution board (DB) double door, SP&N, TP&N in sheet steel phosphatised powder painted MCB DB Bus Bar Neutral link, Earth Bar and Din rail conforms to IS:13032, IS:8623, BS:5486 240/415 volts 50Hz. AC supply on surface including interconnection, painting etc, in completed.					
	(02) 8 ways MCB DB SP&N SD	2	Nos			
	MANIATURE CIRCUIT BREAKER					

63	Supplying and fixing of all types and rating MCBs, RCCBs, ELCBs etc, 240/415 Volts 50 Hz AC supply in the existing MCB DB complete with connections, testing & commissioning etc in completed:-					
	(01) 5-32 Amps' SP MCB B-series	12	Nos			
	(25) 32 Amps' DPMCB Isolator	2	Nos			
	SUPPLYING AND FIXING OF SWITCH BOARDS (MODULAR TYPE) GRADE III					
64	Supplying and fixing of Modular switch board of the following sizes/modules on surface/recess including PVC/Steel boxes, modular plate and necessary switches, plug/socket, and fan regulators etc. with painting if necessary					

	A.ONE MODULE					
	(01) 1S	10	Nos			
	B.TWO MODULES					
	(13) 2S	4	Nos			
	D. FOUR MODULES					
	(61) 2SOC	9	Nos			
	E.SIX MODULES					
	(83) 3S+1SOC+1BKP	2	Nos			

	(97) 4S+1R	1	Nos			
	F. EIGHT MODULES					
	(145) 4S+2R(2M)	3	Nos			
						TOTAL B
						GRAND TOTAL (A+B)
	TOTAL AMOUNT IN WORDS					