

BIDDING DOCUMENT for BIDDING DOCUMENT for

Construction of Recreation Centre at Babutlang, Zarkawt, Aizawl

VOLUME-II

(Price Bid)

Issued on : 14th November 2024

Invitation for Bids No: No. D. 13024/16/CEO/ASCL

Package No : SASCI/ASCL/RC-Zarkawt/48

State : MIZORAM

Country : INDIA



AIZAWL SMART CITY LIMITED, AIZAWL

Single-Stage: Two-Envelope

Price Bid

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Price Bid.

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FORMLETTER OF FINANCIAL BID

	of Work: ::
	•
То	[Employer] [Address]
Sir,	
We, the	e undersigned, declare that:
1.	We have examined and have no reservations to the Bidding Document including
2.	Addenda. We offer to execute the Works described above and remedy any defects therein in conformity with the Conditions of Contract including Additional Conditions and Special Conditions, Specifications, Drawings, Bill of Quantities accompanying this Bid for Rs (Rupees) only
3.	We undertake to abide by the Final Sum coming out of the correction of arithmetical errors as indicated in the General Conditions of Contract.
4.	We also undertake, if our Bid is accepted, to commence the work within the period as indicated in the Contract Document and to complete the whole work comprised in the Contract within the time stated in the Contract Document.
5.	Our Bid shall be valid for a period of 75 days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
6.	We undertake that unless and until a formal Agreement is prepared and executed, this Bid, together with your written notification of Letter of Acceptance shall constitute a binding contract between us.
7.	·
8.	I/We do hereby submit our Financial Bid, complete with all the required information as stipulated in your Bidding Documents.
Nai Titl	nature of authorized signatory melete.

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Schedules Bill of Quantities

Preamble

(A) General

- 1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Specifications and Drawings.
- 2. For the construction of works, the quantities given in the Bill of Quantities are estimated quantities, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the agreed individual item rates. Bills will be raised monthly. The method of measurement shall be as per norms laid out by the Bureau Of Indian Standard's publication IS: 1200 (Latest Editions with updated amendments).
- 3. A rate or price shall be entered against each item in the Priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a price or rate shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
- 4. The whole cost of complying with the provisions of the contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.
- General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. Reference to relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.
- 6. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out in the Contract. Import duty and excise duty on materials and goods to be imported shall not be included in the Unit Rates
- 7. Arithmetic errors will be corrected by the Employer as follows:
 - a. if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
 - b. if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - c. if there is a discrepancy between words and figures, the Amount (In INR) in words shall prevail, unless the Amount (In INR) expressed in words is related to an

Single-Stage: Two-Envelope

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arithmetic error, in which case the Amount (In INR) in figures shall prevail subject to (a) and (b) above.

8. Rock is defined as all materials that, in the opinion of the Engineer, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for their removal, and that cannot be extracted by ripping with a tractor of at least 150 brake hp with a single, rear-mounted, heavy-duty ripper.

(B) Work Items

The Bill of Quantities contains Schedules as at the next page:

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SUB-HEAD WISE ABSTRACT OF COST

Construction of Recreation Centre at Babutlang, Zarkawt, Aizawl.

The quoted rate and amount are inclusive of taxes, duties and cess including all cost payable by the successful Bidders in executing the contract .

Sub Head No.	Name of Sub Head	Amount (₹)
1	Earth Work	
2	PCC	
3	RCC	
4	Brick work	
5	Stone works	
6	Wood work	
7	Steel works	
8	Aluminium works	
9	Flooring	
10	D&W Fittings	
11	Roofing	
12	Sanitary installation	
13	Water Supply	
14	Plastering	
15	Painting	
16	Wall cladding	
17	Artificial grass	
18	Geotechnical investigation	
19	Dismantling & demolition	
20	Internal electrification	
	G. Total	

Construction of Recreation Centre at Babutlang, Zarkawt, Aizawl.

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
Sub He	ead 1 : Earthwork				
1.1	Earth work in excavation by mechanical excavator)/manual means over areas (excapeth, 1.5 m in width as well as 10 sqm of	eeding 30	cm in		
	getting out and disposal of excavated earth	n lead upto	50 m		
	and lift upto 1.5 m, as directed by Engineer-i	-			
	b) Ordinary Rock				
		404.96	cum		
1.2	Disposal of excavated earth		<u> </u>		
	Disposal at Phunchawng 13km				
	Disposar at Financia Wilg 15km	634.33	cum		
		034.33	cum		
	For remaining 8km, rate is ₹19.59/km/cum				
	To remaining own, rate is \13.39/km/cum	634.33	cum		
		034.33	Cum		
1.3					
1.5	Earthwork in excavation in foundation trend	hes or drain	ns etc.		
	(not exceeding 1.5m in width or 10sqm o	n plan) inc	luding		
	dressing of sides and ramming of bottom	s, lift upto	1.5m		
	including getting out excavated soil and di				
	excavated soil as directed within a lead of 50	metres.			
	h) Hard Cail (mick work)				
	b) Hard Soil(pick work)	1184.13			
		1184.13	cum		
1.4					
1.4	Filling available excavated earth (excluding	rock) in tre	nches,		
	plinth, sides of foundations etc. in layers no	t exceeding	20cm		
	in depth, consolidating each deposited layer	-	ng and		
	watering, lead up to 50 m and lift upto 1.5 m	١.			
		954.76	cum		
		Sub	Head 1	Total	
	ead 2 : PCC		.6.		
2.1	Providing and laying in position cement con	•	L		
	grade excluding cost of centering and shu	ttering - All	work		
	upto plinth level:				
	a) 1:2:4 (1 cement :2 course sand :4 stone	aggregate 2	20mm		
	nominal size)				
		250.58	cum		
2.2	Drouiding and leving in position control	oroto of	oif: s -l		
2.2	Providing and laying in position cement con	•	ŀ		
	grade excluding cost of centering and shu	ttering - All	work		
	upto plinth level:				
	a) 1:3:6(1 cement :3 course sand :6 stone	aggregate 2	20mm		
	nominal size)				
		49.32	cum		
		Sub	Head 2	Total	

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
Sub H	ead 3 : RCC				
3.1	Draviding and laving in position model				
	Providing and laying in position machin				
	machine mixed design mix M-20 grade cen				
	reinforced cement concrete work, using ce				
	per approved design mix, including pumpir				
	site of laying but excluding the cost of cent				
	finishing and reinforcement, including				
	recommended proportions as per IS: 910				
	retard setting of concrete, improve wo	-			
	impairing strength and durability as per dire	_			
	in-charge. "(Note:- Cement content conside				
	@ 330 kg/cum."Excess/ less cement used as	per design	mix is		
	payable/recoverable separately)				
	a) All work upto plinth level.				
		195.68	cum		
					_
	b) All work above plinth level upto floor V lev	vel.			
		1837.38	cum		
2.2	Contaning and shoutening including structu				
3.2	Centering and shuttering including strutti				
	And removal of form for:				
	a) Foundations, footings, bases of columns e		concr	ete.	
		278.14	sqm		
		<u> </u>			
	c) Columns, pillars, piers, abutments, posts a	ind struts.			
	Column				
		2545.03	sqm		
		<u> </u>			
	d) Lintels, beams, plinth beams, girders,	s and			
	cantilevers, etc.	1			
	Beams				
		7809.68	sqm		
	e) Suspended floors, roofs, landings, sh	nelves and	their		
	support, balconies and chajjaj,etc.	,			
		3591.16	sqm		
	k) Vertical and horizontal fins individually	or forming	box,		
	louvres and bends, eaves boards				
		77.19	sqm		
			-		
3.3	Steel reinforcement for DCC	المامانية	on!:		
	Steel reinforcement for RCC work including	-			
	cutting, bending, placing in position and bind	oiete.			
	b) Thermo-Mechanically Treated bars of grad	de Fe-500 ດເ	more		
	,	434814.50			
	1	+3-014.30	_^S		
		Sub	Head 3	3 Total	
	1				

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
Cb. I.I.a	and A. Brighmank				
Sub He	ead 4 : Brickwork				
4.1	Half brick masonry with first class brick above plinth level upto floor V level.				
	b) in cement mortar 1 : 4 (1 cement : 4coars	se sand)			
		2632.78	sqm		
4.2	Extra for providing and placing in position 2 bars at every third course of half brick maso		ia. MS		
	Quantity vide item no 4.1	2632.78	sqm		
		2632.78	sqm		
				_	
		Sub	Head 4	Total	
Cula IIIa	and F. Characterist				
SUD HE	ead 5 : Stone work				
5.1	Regular coursed rubble masonry with foundation upto one storey above and be including curing, etc. complete.		ne in I level		
	b) in cement mortar 1 : 4 (1cement : 4 fine s	and)			
		24.99	cum		
		6.1			
		Sub	Head 5	Total	
Sub He	l ead 6 : Wood work				
6.1	Providing Ist class teak wood dressed in fra for doors, windows, clerestory windows fixe				
		1.70	cum		
6.2	Providing and fixing readymade door (Maso quality) including M.S. butt hinges with complete.	•			
	a) 35mm Readymade White primer Door				
		51.80	sqm		
C. I		Sub	Head 6	Total	
Sub He	ead 7 : Steel work				
7.1		<u> </u>			
7.1	Steel work in built up tubular (round, squa	_			
	hollow tubes etc.)trusses etc., including	_			
	fixing in position and applying a priming steel primer, including welding and bol shaped washers etc. complete.				
		11279.04	kg		
			<u>s</u>		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
	Steel work welded in built up sections/fram				,
	cutting, hoisting, fixing in position and apply				
	of approved steel primer using structural ste				
	b) In a grating, frames, guard bar, ladders,		ckets.		
	gates & similar works.		,		
		35485.81	kg		
		Sub	Land 7	' Total	
Sub Ha	l ead 8 : Aluminium work	300	leau /	Total	
<u>Jub ne</u>					
8.1					
0.1	Providing and fixing anodised aluminium	work for o	doors,		
	windows, ventilators and partitions with ϵ	extruded bu	ilt 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	_			
	up of gaps at junctions, at top, bottom				
	required PVC/ neoprene gaskets etc. Alumin				
	be smooth, rust free, straight, mitre				
	mechanically wherever required includi	•			
	aluminium snap beading for glazing /pai	_			
	/stainless steel screws all complete includin	_			
	but excluding cost of glasses.	6			
	but excluding cost of glasses.				
	b) Anodised				
	ii) 3 - track sliding windows/ventilators.				
	-	111.84	sqm		
			·		
8.2	Supplying of glass panes at site.				
	b) 5mm thick plate sheet glass.				
	System thick place sheet glassi	111.84	sqm		
		111.04	34III		
8.1					
0.1	Branding and fining almosining many for	مانده مده	مبييمام		
	Providing and fixing aluminium work for				
	ventilators and partitions with extruded k	•			
	tubular and other sections of approved ma		-		
	IS: 733 and IS: 1285, anodised transpa	•			
	required shade according to IS : 1868. (
	coating of grade AC 15), fixed with rawl plu	•			
	with fixing clips, or with expansion hold f		-		
	necessary filling up of gaps at junctions, at	•			
	sides with required PVC/neoprene felt				
	sections shall be smooth, rust free, stra	_			
	jointed mechanically wherever required incl	-			
	Aluminium snap beading for glazing / pane				
	·	stainless steel screws, all complete as per architectural			
	drawings and the directions of Engineer-ir				
	and paneling to be paid for separately). For				
		Τ	1		
	b) Anodised				
		72.76	sqm		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
	For shutters of doors, windows & ven- providing and fixing hinges/ pivots and mal fixing of fittings wherever required including neoprene gasket required. (Glazing to be pai	on for PVC /			
	b) Anodised				
		5.76	sqm		
	Providing and fixing glazing in aluminium ventilator shutters and partitions etc. with gasket etc. complete as per the architectuthe directions of engineer-in-charge.	n PVC/ neo	prene		
	b) With glass panes of 5.00 mm thickness.				
		72.76	sqm		
		Sub	Head 8	3 Total	
Sub He	ead 9 : Flooring				
<u>Jub He</u>	au J : Hooring				
9.2	Providing and ceramic glazed floor tiles of or more (thickness to be specified by the 1st quality conforming to IS: 15622 of approximate colours, shades, except white, ivory, grey, furning on 20mm thick cement mortar 1:4 (1ceme) including pointing the joints with whomatching pigments etc. complete. as per descended by Matt/Antiscratch Providing and fixing Ist quality ceramic conforming to IS: 15622 (thickness to emanufacaturer), of approved make, in all wxcept burgundy, bottle green, black of any by Engineer-in-Charge, in skirting, risers of over 12mm thick bed of cemunt mortar	manufactur roved make e red brown nt : 4 course ite cement igned colou 60.56 glazed wall specified b colours, s size as app steps and c	er) of in all in, laid e sand t and r. sqm I tiles by the hades roved dados,		
	coarse sand) and jointing with cement slusqm, including pointing in white cement mix of matching shade complete. Toilet walls				
9.3			<u> </u>		
	Providing & fixing vinyl tile in flooring and ski pattern on a smooth and damp proof be based adhesives of approved quality as (Armstrong or equivalent) including rolling v	ase using r nd manufa	ubber cturer		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
•	roller weighting about 5kg all complete	as directe	da by	,	
	engineer-in-charge, in approved colour and s				
	a) General				
		45.19	sqm		
9.4	 Chequerred precast cement concrete tiles	22 mm th	ick in		
	footpath & courtyard, jointed with neat cen				
	with pigment to match the shade of tiles,	including ru	ıbbing		
	and cleaning etc. complete, on 20 mm thic	ck bed of ce	ement		
	mortar 1:4 (1 cement: 4 coarse sand).				
	a) Light shade using white cement.				
		191.10	sqm		
		1) (:			
9.5	20mm cement plaster 1 : 4 (1 cement : 4 fi with a floating coat of neat cement.	ne sand) fir	iisned		
	Ground floor				
	5.54m4 m55.	3216.66	sqm		
		Head 9	Total		
Sub He	ead 10 : D&W Fittings				
10.1		/			
10.1	Providing and fixing brass sliding door bolt	bright			
	finished with nuts and screws etc. complete.				
	a) 300 x 16 mm	23	nos		
			1103		
10.2	Providing and fixing Brass Tower Bolts (So	cket Bolts)	bright		
	finished with necessary screws etc. complete	<u>.</u>			
	c) 200 mm				
		45	nos		
		Ch.I	land 1	O Total	
		Sub F	lead 1	0 Total	
Sub He	l ead 11 : Roofing		\vdash		
11.1	Described Transport		·		
	Providing Trapezoidal Polyester Coated				
	Sheets Roofing of any colour of 1.06m w including fitting and fixing ridging with s				
	tapping screws, EPDM washers etc. comple	_			
	cost of purlin, rafter and trusses.				
		<u> </u>			
	ii) For 0.50 mm thick :	E70 43			
		579.42	sqm		
		lead 1	1 Total		
		30.01			
Sub He	ead 12 : Sanitary Installation				
12.1	Providing and fixing water closet squatting	nan (Indiar	ı tyne		
	W/ C nant with 100 mm upl/C D or S tran				

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
	white P.V.C. flushing cistern, including				
	manually controlled device (handle lever) c				
	7231, with all fittings and fixtures complete,	_			
	and making good the walls and floors where	d:			
	(b) Asian pan with integral type foot rests				
	i) White	0			
		9	nos		
12.2					
	Providing and fixing vitreous china pedestal				
	(European type W.C. pan) with seat and lid,				
	white P.V.C. flushing cistern, including manually controlled device (handle lever), o				
	7231, with all fittings and fixtures complete,	_			
	and making good the walls and floors where	_	- 1		
	i) White	2	nos		
			nos		
12.3	Providing and fixing vitreous china Urinal Fla	ı nt Back Larg	e 59 x		
	37.5 x 39cm of Parryware/ Hindware/ Cer	_			
	make with flush valve/spray with C.I or R.S I	•			
	size of G.I flush pipe and C.P brass spre				
	unions and G.I clamps complete including p	ittings			
	and brackets, cutting and making good the	walls and	floors		
	wherever required.				
	i) White				
		4	nos		
	Providing and fixing vitreous Division Plate 6	0 v 30 cm s	ize for		
12.4	Urinals.	3 X 30 CIII 3	126 101		
	i) White				
		4	nos		
	Providing and fixing Health faucet with flex	kible tube ι	upto 1		
12.5	metre long and holder of quality and make	e as approv	ed by		
	Engineer - in - charge.		-		
	i) White				
	7	11	nos		
12.6	Providing and fixing White vitreous ch	ina wash	hasin		
	Standard of Parryware/ Hindware/ Cera and				
	with R.S. or C.I. brackets, 15mm C.P. bras				
	brass chain with rubber plugs, 32mm C.P				
	standard pattern, 32mm C.P. brass traps and				
	including painting of fittings and brackets, cu				
	good the walls wherever required.	-			
				+	

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
	c) Vitreous China corner Wash basin 450	with			
	single 15 mm C.P. brass pillar taps				
	i) White				
		10	nos		
12.7	Providing and fixing vitreous china tall pedes	tal of Parry	ware/		
	Hindware/ Cera and equivalent make	for wash	basin		
	completely recessed at the back for the re				
	and fittings.				
	i) White				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9	nos		
12.8	Providing and fixing Stainless Steel A ISI 30)4 (18/8) ki	tchen		
	sink as per IS: 13983 with C.I. brackets and s		r		
	40 mm, including painting of fittings and bra				
	making good the walls wherever required	- r			
	equivalent)				
	b) Single Sink 610x510 mm bowl depth 200m	ım			
	s, single sink sisks is nim sow departies.	1	nos		
12.9	Providing and fixing 600x450mm bevelled	odgo mir	or of		
	superior glass (of approved quality) complet	_			
	asbestos sheet ground fixed to cleats with				
	and washers.	C.F. DI 633 3	CIEWS		
	and washers.				
		9	nos		
12.10	Providing and fixing Glass shelf	Diplomat	of		
12.10	Providing and fixing Glass shelf Essline/Omkar/Agmeco or equivalent make	Diplomat			
	brackets and guard soil complete fixed to we				
	C.P. brass screws.	Jouen cleat	3 WILII		
	c) Glass shelf Diplomat 600mm				
	c) diass shell diplomat oddinin	1	nos		
			1103		
12 11	Providing anf fixing anodised alluminium to	wel rail wit	h two		
12.11	anodised alluminium brackets to wooden				
		II C.FI			
	brass screws.	cicats wit	11 C.F		
	brass screws. b) 600x20mm size.	cicuts with	II C.F		
	brass screws. b) 600x20mm size.	2	nos		
12.12					
12.12	b) 600x20mm size.	2			
12.12	b) 600x20mm size. Providing and fixing toilet paper holder.	2			
12.12	b) 600x20mm size. Providing and fixing toilet paper holder. (b) Plastic toilet paper holder of standard size	2			
12.12	b) 600x20mm size. Providing and fixing toilet paper holder. (b) Plastic toilet paper holder of standard size	2	nos		
12.12	b) 600x20mm size. Providing and fixing toilet paper holder. (b) Plastic toilet paper holder of standard sizi) White	2 e.	nos		
	b) 600x20mm size. Providing and fixing toilet paper holder. (b) Plastic toilet paper holder of standard size. i) White	2 e. 11 vith C.P. bra	nos nos		
	b) 600x20mm size. Providing and fixing toilet paper holder. (b) Plastic toilet paper holder of standard size) White Providing and fixing liquid soap container wand brackets fixed to wooden cleats with C.F.	e. 11 vith C.P. bra	nos nos		
	b) 600x20mm size. Providing and fixing toilet paper holder. (b) Plastic toilet paper holder of standard size) White Providing and fixing liquid soap container v	e. 11 vith C.P. bra	nos nos		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
12.14	Providing and fixing on wall face SWRPVC so	d vent			
	pipes including jointing with rubber lubrican	t/cement s	olvent		
	complete.				
	a) 110mm dia.				
		150.00	rm		
	b) 75mm dia.				
		150.00	rm		
12.15	Providing and fixing SWRPVC plain bend of	required de	gree (
	87.50°) including jointing with rubber	lubricant/co	ement		
	solvent complete.				
	a) 110mm dia.				
		50	nos		
	b) 75mm dia.				
		50	nos		
12.16	Providing and fixing SWRPVC plain bend of	required o	degree		
	(45°) including jointing with rubber lubrican				
	complete.	.,			
	· ·		1		
	a) 110mm dia.	30	nos	+	
		30	nos	+	
	b) 75mm dia.			+	
	b) / Shilli dia.	30	nos		
		30	1103		
12 17	Providing and fixing SWRPVC bend with	access do	or of		
12.17	required degree including jointing				
	lubricant/cement solvent complete.	VVICII I	ubbei		
	'			+	
	a) 110mm dia SWRPVC bend with access doc		\vdash		
		10	nos		
	b) 75mm dia SWRPVC bend with access door				
		10	nos		
40.5					
12.18	Providing and fixing single equal SWRPVC	plain junct	ion of		
	required degree (T-junction) .				
	a) 110x110x110mm.				
		15	nos		
	b) 75x75x75mm.				
		15	nos		
12.19	Providing and fixing SWRPVC plain junc	tion of red	guired		
	degree with access door (Y-junction) include				
	rubber lubricant/cement solvent.	jemini			
	·				
	a) 110 mm Y-junction of SWRPVC with acc				
		5	nos		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
	h) 75 mm V innetion of CM/DD//C with access	door			
	b) 75 mm Y-junction of SWRPVC with access	5	nos		
			1103		
12.20	Providing and fixing SWRPVC socket included rubber lubricant/cement solvent.	ling jointing	g with		
	a) 110mm dia socket.		1		
	a, 110mm and 500keti	20	nos		
	b) 75 mm dia socket.				
		20	nos		
12.21	Providing and fixing W.C. connection ber (SWRPVC) including jointing with rubber I cement.				
		2	nos		
12.22	Providing and fixing 125/110 S-trap SWRPVO with rubber lubricant/ solvent cement.	Cincluding j	oining		
		9	nos		
12.23	Providing and fixing uPVC multi floor trap grating including jointing with rubber lu cement complete.				
		18	nos		
		Sub F	lead 1	2 Total	
		3001	lead 1	2 TOtal	
Sub He	ead 13 : Water Supply				
13.1	Providing and placing on terrace (at	all floor l	evels)		
	polyethylene water storage tank, with co	ver and su	iitable		
	locking arrangement and making necessar	-			
	outlet and overflow pipes but without fitting support for tank.	ngs and the	base		
	a)Sintex or quivalent				
		6000.00	lit		
13.2	Providing and fixing 15 mm nominal bore stop cock for basin mixer and geyser po quality conforming to IS:8931.		-		
	b) Class-II				
		24	nos		
42.2					
13.3	Providing and fixing 15mm nominal bore brass bib cock of approved quality.	chromium	plated		
	b) Class-II				
		3	nos		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
13.4	Providing and fixing chromium plated bras cock of approved quality.	s long neck	pillar		
	b) 15mm nominal bore. Element				
	,	1	nos		
13.5	Providing and fixing chromium plated brass 15 or 20mm inlet.	shower ros	e with		
	a) 100mm dia CP brass shower rose.				
		1	nos		
13.6	Providing and fixing chromium plated brass nominal bore of approved make with nincluding cutting and making good the wall.				
	iii) Wall Mixer with L-Bend (provision for OH	Shower)			
		1	nos		
13.7	Providing and fixing Chlorinated Polyvinyl pipes, having thermal stability for hot & continuity including all CPVC plain & brass threaded fixing the pipe with clamps at 1.00 m space jointing of pipes & fittings with one step CPV and testing of joints complete as per direction Charge. Internal work - Exposed on wall	old water s fittings, inc ing. This ind 'C solvent co	upply, luding cludes ement		
	b) 20mm dia nominal bore				
	b) 2011111 dia Horrimai bore	100.00	rm		
		100.00			
	c) 25mm dia nominal bore.				
	·	150.00	rm		
13.8	Extra for concealed in brick and RCC works upto 7.5x7.5cm in walls and making good housing pipes, etc.	,			
	b) 20mm dia nominal bore				
		100.00	rm		
13.9	Making connection of Astral CPVC pipes di by providing and fixing reducing Tee with complete including cutting and making good	jointing, t			
	a) 25x25x20mm				
		9	nos		
13.10	Making connection of Astral CPVC pipes di by providing and fixing Brass FPT Tee with complete including cutting and making good	n jointing, t			
	b) 20x20x15mm				
		50	nos		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
13.11					
13.11	Making connection of Astral CPVC pipes di				
	by providing and fixing Elbow 90o with complete including cutting and making good		esting		
	,		ı		
	b) 20mm dia.	100	nos		
		100	1103		
	c) 25mm dia.				
		50	nos		
13.12					
10.11	Making connection of Astral CPVC pipes di				
	by providing and fixing Elbow 450 with complete including cutting and making good		esting		
	b) 20mm dia.				
		30	nos		
	c) 25mm dia.				
	(c) 23.1111 d.d.	30	nos		
13.13	 Making connection of Astral CPVC pipes di	stribution b	ranch		
	by providing and fixing Brass Elbow 90o wit	h jointing, t	esting		
	complete including cutting and making good	etc.			
	a) 20x15mm				
		30	nos		
13.14					
10.1	Making connection of Astral CPVC pipes di				
	by providing and fixing Male Adaptor (Bra testing complete including cutting and makir		-		
	b) 20mm dia.				
		20	nos		
13.15					
	Making connection of Astral CPVC pipes di				
	by providing and fixing Female Adaptor (Bratesting complete including cutting and making				
	b) 20mm dia.				
		20	nos		
40 : 5					
13.16	Making connection of Astral CPVC pipes di	stribution b	ranch		
	by providing and fixing Socket/Coupling with	-	esting		
	complete including cutting and making good	etc.			
	b) 20mm dia.				
		30	nos		
	c) 25mm dia.				
	C) ZJIIIII uia.	30	nos		
L					

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
	·	•		, ,	, ,
13.17	Making connection of Astral CPVC pipes di by providing and fixing Union Socket with				
	complete including cutting and making good	-			
	b) 20mm dia.				
		10	nos		
	c) 25mm dia.				
	c) 25mm dia.	10	nos		
13.18	Providing & Fitting Powder coated meta	l Strap/ h	olding		
	clamps/ Clips with necessary metal fastener	s and screw	vs etc.		
	complete.	T			
	a) 15/20/25mm dia.	450			
		150	nos		
13.19	Providing and fixing CPVC Ball valve/ Glob	l pe/Stop & \			
10.13	valve/ Boiler drain etc. Complete.	, o to p			
	c) 25mm dia.				
		3	nos		
13.20	Providing and placing in position electric approved manufacture including connection complete with accessories.	-	· -		
	b) 750 watts				
		1	nos		
10.01					
13.21	Providing and placing polyethylene septic excluding fittings and the base support for ta		cover-		
		2700	lit		
		Sub F	lead 13	3 Total	
6 1 11	Land Bloom in				
Sub He	ead 14 : Plastering				
14.1	20mm cement plaster 1 : 4 (1 cement : 4 fine	 - sand	-		
		5265.56	sqm		
		3203.30	34		
14.2	6mm cement plaster to ceiling 1:3 (1 ceme	nt : 3 fine sa	nd)		
	Ceiling				
	-	1666.24	sqm		
		Sub F		1 Total	
Sub He	ead 15 : Painting				
45.1					
15.1	Distempering with oil bound washable dister				
	brand and manufacture to give an even s	hade: New	work		
	(one or more coats)				
		6931.80	sqm		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
15.2	Applying priming coat with ready mixed pir	ık or Grev	orimer		_
15.2	of approved brand and manufacture on woo				
	soft wood) & Plywood.	a work (na	ra ana		
		103.60	sqm		
		103.00	34111		
15.3			1		
	Painting with synthetic enamel paint of app				
	manufacture in all shades on new work (two	or more co	ats).		
		103.60	sqm		
		103.60	sqm		
		Sub	Head 1	5 Total	
C 11	- 146 W.II				
SUD HE	ead 16 : Wall I				
16.1	Droviding & fiving External well cladding with	h dosorati:	o biah		
10.1	Providing & fixing External wall cladding wit pressure laminated sheet of approved q		· ·		
	(Greenlam or equivalent) to frame, backing	•			
	screws etc. complete (Frames, backing or st		- I		
	separately).		e para		
	a) 6 mm thick				
		745.96	sqm		
		Sub	Head 1	6 Total	
Sub He	ead 17 : Articial grass				
171	Providing and fixing in position artificial g	race of any	royad		
17.1	quality and make.	iass or app	noveu		
	,	894.24	sqm		
		Sub	Head 1	7 Total	
	ead 18 : Getechnical investigation				
l .	gical investigation rate are as per the sch	-	- I		
	ned by Govt. of Mizoram vide No. 1901/51/	94-IND, the	28th		
Sept, 2					
18.1	Drilling of 2 bore holes of 15m depth	20.00	T		
		30.00	rm		
18.2	Cost of making core boxes for 2 bore holes				
10.2	COST OF HIGHING COTE DONES TO 2 DOTE HOTES	20.00	rm		
		20.00	''''		
18.3		<u> </u>	1		
	Cost of transportation of drilling machine &				
	drilling accessories from G&M complex to c	Irill sites in	clusive		
	of labour charges etc (to & fro)				
		1.00	LS		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
18.4	Construction of water pit	-		, ,	
		1.00	LS		
18.5	Geological logging of bore holes	25.00	l rm		
		25.00	rm		
18.6	Preparation of report		-		
		1.00	LS		
18.7	Performance of Direct Shear test	4.00			
		4.00	nos		
18.8	Standard Proctor test (OMC, Unit weight, MI	DD)	-		
	, , ,	4.00	nos		
18.9	Performance of Atterberg Limit Test	4.00			
		4.00	nos		
18.10	Performance of Point Load / UCS Test		-		
	·	9.00	nos		
18.11	Slake durability Test				
		9.00	nos		
		Sub I	lead 1	8 Total	
		3481		5 TOTAL	
Sub He	ead 19 : Dismantling and demolition				
Block 1	1: Engineers Club I				
19.1	Demolishing R.C.C. work manually/ by m	echanical i	means		
	including stacking of steel bars and disposal material within 50 metres lead as per direct				
	in- charge.	tion of Engi	11661 -		
		216.66	cum		
		210.00			
19.2	Boundisting heid and an all / h				
	Demolishing brick work manually/ by m including stacking of serviceable material				
	unserviceable material within 50 metres lead	-	Sai Oi		
		133.74	cum		
19.3			\Box		
19.3	Dismantling doors, windows and clerestory v				
	wood) shutter including chowkhats, architra		ts etc.		
	complete and stacking within 50 metres lead	1:			
	a) Of area 3 sq. metres and below				
		80	nos		
40.4	Disposed of disposed at DCC hald at				
19.4	Disposal of dismantled RCC, brick etc. Disposal at Phunchawng 13km				
	Dishosal at Limitriamile Tokili	350.40	cum		
		330.40	Juili		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
	For remaining 8km, rate is ₹19.59/km/cum				
Diagle 3) Overter	350.40	cum		
	2 : Quarter				
19.5	Demolishing R.C.C. work manually/ by m				
	including stacking of steel bars and disposal			+	
	material within 50 metres lead as per direction-charge.	tion of Engi	neer -		
		157.85	cum	+	
19.6			•		
	Demolishing brick work manually/ by m				
	including stacking of serviceable material	-	sal of		
	unserviceable material within 50 metres lead	1:			
		95.05	cum		
19.7	 Dismantling doors, windows and clerestory	windows (st	teel ort		
	wood) shutter including chowkhats, architra				
	complete and stacking within 50 metres lead		.5 0.0.		
		-			
	a) Of area 3 sq. metres and below				
		42	nos		
19.8	Disposal of dismantled RCC, brick etc.				
	Disposal at Phunchawng 13km	252.00			
		252.90	cum	+	
	For remaining 8km, rate is ₹19.59/km/cum				
	Torremaining own, race is \$15.557 king carri	252.90	cum		
		252.90	cum		
Block 3	3 : Recreation Centre				
19.9	Demolishing R.C.C. work manually/ by m	echanical ı	means		
	including stacking of steel bars and disposal	of unservi	ceable		
	material within 50 metres lead as per direct	tion of Engi	neer -		
	in- charge.				
		145.91	cum		
10.10					
19.10	Demolishing brick work manually/ by m	echanical i	means		
	including stacking of serviceable material	and dispo	sal of	+	
	unserviceable material within 50 metres lead	d:			
		114.65	1 011100		
		114.65	cum		
19.11					
19.11	Dismantling doors, windows and clerestory v				
	wood) shutter including chowkhats, architra		ts etc.		
	complete and stacking within 50 metres lead	l:			
	a) Of area 3 sq. metres and below				
<u> </u>	,		1		
		56	nos		

S/No	Description	Qtty	Unit	Rate (₹)	Amount (₹)
19.12	Disposal of dismantled RCC, brick etc.				
	Disposal at Phunchawng 13km				
	For first 5km				
		260.56	cum		
	For remaining 8km, rate is ₹19.59/km/cum				
		260.56	cum	156.72	
		Sub	 Head 19	9 Total	
Sub He	ead 20 : Internal electrification				
20.1	Detailed estimates enclosed at the ATTACHN	1ENT			
		Sub	Head 20) Total	
			G	rand total	

ATTACHMENT

INTERNAL ELECTRIFICATION FOR RECREATION CENTRE AT BABU TLANG, ZARKAWT.

ABSTRACT OF COST

The quoted rate and amount are inclusive of taxes, duties and cess including all cost payable by the successful Bidders in executing the contract.

SL NO	NAME OF FLOOR / ESTIMATE	ESTIMATE AMOUNT
1	Ground floor	
2	First floor	
3	Second floor	
4	Third floor	
5	Top floor	
6	Earthing & Lightning arrestor	
7	Main panel	
	TOTAL	

Name of works: INTERNAL ELECTRIFICATION FOR RECREATION CENTRE AT BABU TLANG. EARTHING & ARRESTOR

Sl. No.	Description	Unit	Qnty	Rate	Amount
	EARTHING AND LOOP EARTHING				
1	Earthing with Copper Earth Plate 600mm provding masonery enclosure with cover provding the cover provding th	olate having	locking a		
	,	Sets	1		
2	Providing and fixing of 20mmx3mm copp required.	er strip on s	surface or	in recess for c	onnection etc. as
	20mmx3mm Copper Tape (1.0 Kg/M)	Kg	5		
3	Providing and fixing of 8 SWG Copper W alongwith the existing surface/recess cond				
	8 SWG Copper Wire (4mm dia)	Kg	12		
	LIGHTNING ARRESTOR				
4	Earthing with Copper Earth Plate 600mm provding masonery enclosure with cover provding to the cover provding the coverage of the coverage provding the coverage provdi	olate having	locking a	-	
		Sets	1		
5	Providing and fixing of 20mmx3mm copp required.	er strip on	surface or	in recess for c	onnection etc. as
	20mmx3mm Copper Tape (1.0 Kg/M)	Kg	5		
6	Providing and fixing of 8 SWG Copper W alongwith the existing surface/recess cond				
	8 SWG Copper Wire (4mm dia)	Kg	36		
	LIGHTNING CONDUCTOR				
7	Providing & fixing of lightning conductor fit heaving single prong at the top, with 85mi etc. complete as required.			· ·	•
		Each	12		
				TOTAL	

Name of works: INTERNAL ELECTRIFICATION FOR RECREATION CENTRE AT BABU TLANG. TOP FLOOR

Sl. No.	Description	Unit	Qnty	Rate	Amount
	FOR LIGHT POINT, CEILING FAN POIN	T,EXHAUS	ST FAN P	OINT ETC (MO	DULAR TYPE)
1	Wiring in looping system with PVC wire she IS:694(1990) and Halogen Free Flame Ret wire stranded copper running inside PVC c the wall/ceiling/floor as per convenience in ways from control switch to the light point of the strands.	ardant (HF asing & ca _l cluding jun	FR) 1100 pping (Gr- ction box	voltage graded I) 20mm dia fix	copper flexible ed, surface on
а	Very short point	Each	1		
b	Short point	Each	1		
С	Medium point	Each	2		
2	FOR POWER PLUG/SOCKET POINT 15/16	AMPERES ((MODULA	R TYPE)	
	Wiring in looping system with PVC wire sh IS:694(1990) and Life shield- Halogen Free (HFFR) 1100 voltage graded copper flexib capping (Gr-I) 30x12mm fixed, surface on junction box having required numbers of water. as required:	Flame Re le wire stra the wall/ce	tardant Inded cop illing/floor	per running insi as per conveni	de PVC casing & ence including
	Medium point	Each	1		
	·				
3	SUPPLYING AND FIXING OF SWITCH BO fixing of Modular switch board of the following PVC/Steel boxes, modular plate and necessary with necessary painting if necessary	ng sizes/m	odules or	surface/reces	s including
	Four module				
а	4S (Cost for 1 SB)	Nos	1		
b	2S + 1 R (2M)	Nos	1		
4	MCBs SP/SP&N/DP/TP/TP&N/FP:Supplying volts, B-series, Maniature Circuit Breaker State MCB DB complete with connections, testing	Single Pole	s (SP)of t	he following siz	es in the existing
	5 Amps' to 32 Amps' rating,SP, MCB B- series	Each	5		
5	MCBs SP/SP&N/DP/TP/TP&N/FP: Supply series, Maniature Circuit Breaker Double FDB complete with connections testing & co	ole (DP)of	the follow	ing sizes in the	
	6-32 Amps' rating,DP, MCB B- series	Each	1		
6	6-32 Amps' rating,DP, MCB B- series MCB DISTRIBUTION BOARD Supplying, sheet steel,Phosphatised powder painted Norail conforms to IS:13032,IS:8623,BS:5486 connection,painting etc, as required	fitting,&fixi ICB DBs w	ng of 8-W vith Bus B	ar, Neutral link,	earth bar and din
6	MCB DISTRIBUTION BOARD Supplying, sheet steel, Phosphatised powder painted National conforms to IS:13032, IS:8623, BS:5486 connection, painting etc, as required	fitting,&fixi ICB DBs w 240 Volts	ng of 8-W vith Bus B 50 Hz, on	ar, Neutral link,	earth bar and din
6	MCB DISTRIBUTION BOARD Supplying, sheet steel, Phosphatised powder painted National conforms to IS:13032, IS:8623, BS:5486	fitting,&fixi ICB DBs w	ng of 8-W vith Bus B	ar, Neutral link,	earth bar and din
6	MCB DISTRIBUTION BOARD Supplying, sheet steel, Phosphatised powder painted National conforms to IS:13032, IS:8623, BS:5486 connection, painting etc, as required	fitting,&fixi ICB DBs w 240 Volts Each	ng of 8-W vith Bus B 50 Hz, on	ar, Neutral link, surface/recess	earth bar and din including inter-
	MCB DISTRIBUTION BOARD Supplying, sheet steel, Phosphatised powder painted National conforms to IS:13032, IS:8623, BS:5486 connection, painting etc, as required 8-ways MCB DB SP&N Single Door Supplying, fitting and fixing of (Syska) 18 was	fitting,&fixi ICB DBs w 240 Volts Each	ng of 8-W vith Bus B 50 Hz, on	ar, Neutral link, surface/recess	earth bar and din including inter-

Name of works: INTERNAL ELECTRIFICATION FOR RECREATION CENTRE AT BABU TLANG. THIRD FLOOR

Sl. No.	Description	Unit	Qnty	Rate	Amount
1	FOR LIGHT POINT, CEILING FAN POIN				
	Wiring in looping system with PVC wire sl				
	IS:694(1990) and Halogen Free Flame Re				
	wire stranded copper running inside PVC				
	the wall/ceiling/floor as per convenience	· · ·		naving required	numbers of
	ways from control switch to the light point	etc as requi			
а	Very short point	Each	6		
b	Short point	Each	6		
С	Medium point	Each	16		
d	Long point,	Each	2		
2	FOR POWER PLUG/SOCKET POINT 15/16	AMPERES (MODULA	R TYPE)	
	Wiring in looping system with PVC wire sl				ires as per
	IS:694(1990) and Life shield- Halogen Fre	e Flame Re	tardant		•
	(HFFR) 1100 voltage graded copper flexi				
	capping (Gr-I) 30x12mm fixed, surface or		-	•	_
	junction box having required numbers of v	vays from D	B to the p	ower plug/socke	et 15/16A poin
	etc. as required :-	<u> </u>			1
а	Medium point	Each	4		
b	Long point	Each	3		
3	MAIN TO SUB-MAIN IN COPPER WIRE Wiring in looping system with PVC wire sl IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G	neathed star ee Flame Ref	ndard copp tardant fle	per conductor/wi exible wire stran	ires as per ded copper
3	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen Fremunning inside PVC Casing & capping (Gathe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/S	neathed star ree Flame Ref rade-I) of all ncluding jund	ndard copplardant fleat available strong box b	per conductor/wi exible wire strand sizes diameter t naving required	ires as per ded copper fixed,surface of numbers of
3	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen From From Its in the wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required:-	neathed star re Flame Ref rade-I) of all ncluding jund n/DB to SDB	ndard copplardant fleat available strong box b	per conductor/wi exible wire strand sizes diameter t naving required	ires as per ded copper fixed,surface of numbers of
3	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen From tunning inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required:- 2X 6 Sqmm copper conductor/cable + 1:	neathed star re Flame Ref rade-I) of all ncluding jund n/DB to SDB	ndard copplardant fleat available strong box b	per conductor/wi exible wire strand sizes diameter t naving required	ires as per ded copper fixed,surface on numbers of
3	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen From From Its in the wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required:-	neathed star ree Flame Ref rade-I) of all ncluding jund n/DB to SDB	ndard copplardant fleatant fle	per conductor/wi exible wire strand sizes diameter t naving required	ires as per ded copper fixed,surface on numbers of
3	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen Fremuning inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required:- 2X 6 Sqmm copper conductor/cable + 1:6 Sqmm earthwire	neathed star ree Flame Ref rade-I) of all ncluding jund n/DB to SDB	ndard copplicated available setion box I	per conductor/wi exible wire strand sizes diameter the naving required tich boards/SDB	ires as per ded copper fixed,surface of numbers of to switch
4	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen From tunning inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required:- 2X 6 Sqmm copper conductor/cable + 1:	neathed star ree Flame Ref rade-I) of all ncluding jund n/DB to SDB Meter BOARDS (Marging sizes/marging)	tardant fle available s ction box h /SDB/Swite 28	per conductor/wi exible wire strand sizes diameter to naving required tich boards/SDB	ires as per ded copper fixed,surface of numbers of to switch Supplying an including
	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required: 2X 6 Sqmm copper conductor/cable + 1 to 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Fixing of Modular switch board of the follow PVC/Steel boxes, modular plate and nece	neathed star ree Flame Ref rade-I) of all ncluding jund n/DB to SDB Meter BOARDS (Marging sizes/marging)	tardant fle available s ction box h /SDB/Swite 28	per conductor/wi exible wire strand sizes diameter to naving required tich boards/SDB	ires as per ded copper fixed,surface of numbers of to switch Supplying an including
	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required:- 2X 6 Sqmm copper conductor/cable + 1:6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Fixing of Modular switch board of the follow PVC/Steel boxes, modular plate and neces with necessary painting if necessary	neathed star ree Flame Ref rade-I) of all ncluding jund n/DB to SDB Meter BOARDS (Marging sizes/marging)	tardant fle available s ction box h /SDB/Swite 28	per conductor/wi exible wire strand sizes diameter to naving required tich boards/SDB	ires as per ded copper fixed,surface of numbers of to switch Supplying an including
4	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required: 2X 6 Sqmm copper conductor/cable + 1 in 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH of fixing of Modular switch board of the follow PVC/Steel boxes, modular plate and neces with necessary painting if necessary Two modules	neathed star ree Flame Ref rade-I) of all ncluding jund n/DB to SDB Meter BOARDS (Market Ma	tardant fle available s ction box h /SDB/Swi 28 28 ODULAR odules on es,plug/so	per conductor/wi exible wire strand sizes diameter to naving required tich boards/SDB	ires as per ded copper fixed,surface of numbers of to switch Supplying an including
4 a	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required:- 2X 6 Sqmm copper conductor/cable + 1:6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Fixing of Modular switch board of the follow PVC/Steel boxes, modular plate and neces with necessary painting if necessary Two modules 2 S Three modules	meathed star ree Flame Ref rade-I) of all ncluding jund n/DB to SDB Meter Mosessary switched Nos	tardant fle available s ction box h /SDB/Swi 28 28 ODULAR odules on es,plug/so	per conductor/wi exible wire strand sizes diameter to naving required tich boards/SDB	ires as per ded copper fixed,surface of numbers of to switch Supplying an including
4	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required: 2X 6 Sqmm copper conductor/cable + 1:6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Fixing of Modular switch board of the follow PVC/Steel boxes, modular plate and nece with necessary painting if necessary Two modules 2 S Three modules 3S (Cost for 1 SB)	neathed star ree Flame Ref rade-I) of all ncluding jund n/DB to SDB Meter BOARDS (Market Ma	available setion box h /SDB/Swith	per conductor/wi exible wire strand sizes diameter to naving required tich boards/SDB	ires as per ded copper fixed,surface of numbers of to switch Supplying an including
4 a b	Wiring in looping system with PVC wire stills:694(1990) and Life shield- Halogen Frequencial PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required:- 2X 6 Sqmm copper conductor/cable + 1:6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Fixing of Modular switch board of the follow PVC/Steel boxes, modular plate and neces with necessary painting if necessary Two modules 2 S Three modules 3S (Cost for 1 SB) Four module	meathed star ree Flame Ref rade-I) of all ncluding jund n/DB to SDB Meter BOARDS (Mater BOARDS (Mater BOARDS (Mater BOARDS (Mater)	available setion box h /SDB/Swith	per conductor/wi exible wire strand sizes diameter to naving required tich boards/SDB	ires as per ded copper fixed,surface of numbers of to switch Supplying an including
4 a b c	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required: 2X 6 Sqmm copper conductor/cable + 1 to 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH of fixing of Modular switch board of the follow PVC/Steel boxes, modular plate and nece with necessary painting if necessary Two modules 2 S Three modules 3S (Cost for 1 SB) Four module 1S (2M) + 1 SOC (Cost for 1 SB)	meathed star ree Flame Ref rade-I) of all ncluding junc n/DB to SDB Meter BOARDS (Meter BOARDS (Meter Nos Nos Nos	andard copplicated available section box if some section is some section as a section box if some section is some section in the section box if some section is section box if some section is section in the section is section box if some section is section box if some section is section in the section is section box if some section is section box if section is section in the section is section box if section is section box if section is section box if section is section in the section in the section is section in the section in the section is section in the section in the section is section.	per conductor/wi exible wire strand sizes diameter to naving required tich boards/SDB	ires as per ded copper fixed,surface of numbers of to switch Supplying an including
4 a b	Wiring in looping system with PVC wire stills:694(1990) and Life shield- Halogen Frequencing inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required:- 2X 6 Sqmm copper conductor/cable + 1:6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Fixing of Modular switch board of the follow PVC/Steel boxes, modular plate and necewith necessary painting if necessary Two modules 2 S Three modules 3S (Cost for 1 SB) Four module 1S (2M) + 1 SOC (Cost for 1 SB) 2S + 1 R (2M)	meathed star see Flame Ref rade-I) of all ncluding jund n/DB to SDB Meter BOARDS (Meter BOARDS (Meter Nos Nos Nos Nos Nos	available setion box hetion box h	per conductor/wiexible wire strandsizes diameter thaving required the boards/SDB TYPE) grade-I surface/recess cket, and fan reg	ires as per ded copper fixed, surface of numbers of to switch Supplying an including gulators etc.
4 a b c	Wiring in looping system with PVC wire start IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required: 2X 6 Sqmm copper conductor/cable + 1 to 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH of fixing of Modular switch board of the follow PVC/Steel boxes, modular plate and nece with necessary painting if necessary Two modules 2 S Three modules 3S (Cost for 1 SB) Four module 1S (2M) + 1 SOC (Cost for 1 SB)	meathed star ree Flame Rei rade-I) of all ncluding junc n/DB to SDB Meter BOARDS (Mater BO	adard coppliardant fletardant fle	per conductor/wiexible wire strandsizes diameter to aving required to boards/SDB TYPE) grade-I surface/recess cket, and fan reger to 32 Amps' ne following size	ires as per ded copper fixed, surface of numbers of to switch Supplying an including gulators etc.
4 a b c d	Wiring in looping system with PVC wire starts: 1S:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience ways from Main to Sub-Main/DB/Sub-Main boards as required: 2X 6 Sqmm copper conductor/cable + 1 in 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Fixing of Modular switch board of the follow PVC/Steel boxes, modular plate and nece with necessary painting if necessary Two modules 2 S Three modules 3S (Cost for 1 SB) Four module 1S (2M) + 1 SOC (Cost for 1 SB) 2S + 1 R (2M) MCBs SP/SP&N/DP/TP/TP&N/FP:Supply volts, B-series, Maniature Circuit Breaker	meathed star ree Flame Rei rade-I) of all ncluding junc n/DB to SDB Meter BOARDS (Mater BO	adard coppliardant fletardant fle	per conductor/wiexible wire strandsizes diameter to aving required to boards/SDB TYPE) grade-I surface/recess cket, and fan reger to 32 Amps' ne following size	ires as per ded copper fixed, surface on numbers of to switch Supplying an including gulators etc.

Sl. No.	Description	Unit	Qnty	Rate	Amount	
6	MCBs SP/SP&N/DP/TP/TP&N/FP: Supplying, and fixing of 6-32 Amps' DP rating 240 volts, B-series, Maniature Circuit Breaker Double Pole (DP)of the following sizes in the existing MCB DB complete with connections testing & commissioning etc, as required.					
	6-32 Amps' rating,DP, MCB B- series	Each	2			
7	MCB DISTRIBUTION BOARD Supplying, sheet steel, Phosphatised powder painted National conforms to IS:13032, IS:8623, BS:5486 connection, painting etc, as required	ICB DBs w	ith Bus Ba	ar, Neutral link,ea	arth bar and din	
	8-ways MCB DB SP&N Single Door	Each	2			
8	ALLUMINIUM BUS BAR AND BUS BAR CHAMBER					
	Supplying, and fixing of Bus Bar Chamber with 4- strips bus bar of length 1200mm made of alluminium alloy or wrought alluminium suitable for 300 amps' capacity (where rating should be more than one ampere per one Sqmm) complete with all accessories including connection earthing the body etc, as required:-					
		Each	1			
9	Supplying, fitting and fixing of (Syska) SSK-T company make completed with connectio				SI) certified	
		Each	18			
	Supplying, fitting and fixing of (Syska) SSK-5	watt LED I	Bulb surfa	ce type (ISI) ce	rtified company	
10	make completed with connection, etc. in c	ompleted.			•	
		Each	4			
				TOTAL		

Name of works: INTERNAL ELECTRIFICATION FOR RECREATION CENTRE AT BABU TLANG. SECOND FLOOR

SI No.	Description	Unit	Qnty	Rate	Amount	
1	FOR LIGHT POINT, CEILING FAN POINT	EXHAUST		NT ETC (MODU	ILAR TYPE)	
'	·					
	Wiring in looping system with PVC wire she IS:694(1990) and Halogen Free Flame Ref				•	
	wire stranded copper running inside PVC casing & capping (Gr-I) 20mm dia fixed, sur					
	the wall/ceiling/floor as per convenience in			naving required	numbers of	
	ways from control switch to the light point			<u> </u>		
<u>а</u>	Very short point	Each	11			
b	Short point	Each	6			
C	Medium point	Each	6			
d	Long point ,	Each	8			
e	Very long point	Each	8			
f	Extra ordinary long point	Each	14			
	FOR DOWER BLUC/SOCKET BOINT 15/16	ANADEDES /	MODIII A	D TVDE\		
2	FOR POWER PLUG/SOCKET POINT 15/16 Wiring in looping system with PVC wire sh				ires as per	
	IS:694(1990) and Life shield- Halogen Free			per conductor/w	nies as pei	
	(HFFR) 1100 voltage graded copper flexib			er running insid	e PVC casing &	
	capping (Gr-I) 30x12mm fixed, surface on					
	junction box having required numbers of w	ays from D	B to the p	ower plug/socke	et 15/16A point	
	etc. as required :-	- 1			ı	
a	Medium point	Each	5			
b	Long point	Each	5			
3	MAIN TO SUB-MAIN IN COPPER WIRE GRAI	DE-LSURFA	CF (SINGI	 F PHASE TWO V	 NIRES)	
	Wiring in looping system with PVC wire she					
	IS:694(1990) and Life shield- Halogen Free				•	
	running inside PVC Casing & capping (Gra	,				
	the wall/ceiling/floor as per convenience in			•		
	ways from Main to Sub-Main/DB/Sub-Main boards as required:-	/DB 10 2DB	/SDB/SWI	ich boards/SDB	to switch	
	2X 6 Sqmm copper conductor/cable + 1 x				<u> </u>	
а	6 Sqmm earthwire	Meter	42			
b	4X 6 Sqmm copper conductor/cable	Meter	22			
	SUPPLYING AND FIXING OF SWITCH B					
4	fixing of Modular switch board of the follow	-			-	
	PVC/Steel boxes,modular plate and necessivith necessary painting if necessary	sary switche	es,piug/so	cket, and fan re	gulators etc.	
	Two modules				<u> </u>	
a	28	Nos	3			
	Three modules					
b	3S (Cost for 1 SB)	Nos	1			
	Four module					
С	1S (2M) + 1 SOC (Cost for 1 SB)	Nos	10			
d	2S + 1 R (2M)	Nos	1			
	Six modules					
е	6S	Nos	2			
	Twelve modules					
f	12 S with indicator (Cost for 1 SB)	Nos	3			

SI No.	Description	Unit	Qnty	Rate	Amount	
	MCBs SP/SP&N/DP/TP/TP&N/FP:Supplying	ng, and fixir	ng of 5 Am	nps' to 32 Amps'	SP rating 240	
5	volts, B-series, Maniature Circuit Breaker					
	MCB DB complete with connections, testing	g & commi	ssioning e	tc, as required.		
	5 Amps' to 32 Amps' rating, SP, MCB B-					
а	series	Each	14			
	MCBs SP/SP&N/DP/TP/TP&N/FP: Supply	ing, and fixi	ng of 6-32	2 Amps' DP ratin	g 240 volts, B-	
6	series, Maniature Circuit Breaker Double F					
	DB complete with connections testing & co	mmissionir	ng etc, as	required.		
а	6-32 Amps' rating, DP, MCB B- series	Each	2			
b	50/63 Amps' rating,FP, MCB C- series	Each	1			
	MCB DISTRIBUTION BOARD Supplying	fitting &fivir	og of 8-\//	ave MCR DR ein	ale door in	
	sheet steel, Phosphatised powder painted M					
7	rail conforms to IS:13032,IS:8623,BS:5486					
	connection, painting etc, as required		,		3	
	9 wove MCP DP SD8N Single Door	Fach	2			
	8-ways MCB DB SP&N Single Door	Each				
	MCP DISTRIBUTION BOARD Supplying	fitting Ofivir	og of 12 \	Joya MCP DP ai	nglo door in	
	MCB DISTRIBUTION BOARD Supplying, fitting, & fixing of 12-Ways MCB DB single door in sheet steel, Phosphatised powder painted MCB DBs with Bus Bar, Neutral link, earth bar and din					
8	rail conforms to IS:13032,IS:8623,BS:5486					
	connection, painting etc, as required.	210 1010	JO 112, 011		nordanig intor	
	12-ways MCB DB SP&N Single Door	Each	1			
9	ALLUMINIUM BUS BAR AND BUS BAR		₹			
	Supplying,and fixing of Bus Bar Chamb	er with 4- s	trips bus k	oar of length 120	00mm made of	
	alluminium alloy or wrought alluminium sui					
	be more than one ampere per one Sqmm)	complete w	ith all acc	essories includir	ng connections,	
	earthing the body etc, as required:-		1			
		Each	1			
	Panasonic 150W LED Flood light, BVP176	Voltage (44	0V) prote	ction, 6500K Wa	arm white.	
10		Each	10			
	40Watt 2 x 2 LED panel light, cool white light	tht (6500 K)			
11	, - 5 ,	Each	20			
	Supplying, fitting and fixing of (Syska) SSK-T		!	surface type //	SI) cartified	
12	company make completed with connection			• • • •	or certified	
12	company make completed with connection				Γ	
		Each	18			
	Supplying, fitting and fixing of (Syska) SSK- 9	watt LED	Bulb surfa	ce type (ISI) ce	rtified company	
13	make completed with connection, etc. in o	completed.				
		Each	4			
			!	TOTAL		
				IOIAL		

Name of works: INTERNAL ELECTRIFICATION FOR RECREATION CENTRE AT BABU TLANG. FIRST FLOOR

SI. No.	Description	Unit	Qnty	Rate	Amount		
1	FOR LIGHT POINT, CEILING FAN POI	NT,EXHAU	ST FAN F	OINT ETC (MC	DULAR TYPE)		
	Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per IS:694(1990) and Halogen Free Flame Retardant (HFFR) 1100 voltage graded copper flexible wire stranded copper running inside PVC casing & capping (Gr-I) 20mm dia fixed, surface on the wall/ceiling/floor as per convenience including junction box having required numbers of ways from control switch to the light point etc as required:						
а	Very short point	Each	6				
b	Short point	Each	8				
С	Medium point	Each	16				
d	Long point ,	Each	12				
е	Very long point	Each	10				
2	FOR POWER PLUG/SOCKET POINT 15/16	AMPERES	(MODUL	AR TYPE)			
	Wiring in looping system with PVC wire shall IS:694(1990) and Life shield- Halogen Free copper flexible wire stranded copper runn fixed, surface on the wall/ceiling/floor as numbers of ways from DB to the power p	ee Flame Re ning inside F per conveni	etardant (l PVC casin ence inclu	HFFR) 1100 vol g & capping (Golding junction bo	ltage graded r-I) 30x12mm ox having required		
а	Medium point	Each	7				
b	Long point	Each	6				
3	MAIN TO SUB-MAIN IN COPPER WIRE Wiring in looping system with PVC wire sh IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G	neathed sta	indard copetardant f	oper conductor/ lexible wire stra	wires as per inded copper		
3	Wiring in looping system with PVC wire sh	neathed sta ee Flame Re rade-I) of al ncluding jur	andard copetardant following the learn dank fo	oper conductor/ lexible wire stra sizes diamete having require	wires as per inded copper ir fixed,surface on ed numbers of		
3 a	Wiring in looping system with PVC wire st IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G the wall/ceiling/floor as per convenience i ways from Main to Sub-Main/DB/Sub-Mai	neathed sta ee Flame Re rade-I) of al ncluding jur	andard copetardant following the learn dank fo	oper conductor/ lexible wire stra sizes diamete having require	wires as per inded copper ir fixed,surface on ed numbers of		
	Wiring in looping system with PVC wire st IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G the wall/ceiling/floor as per convenience i ways from Main to Sub-Main/DB/Sub-Mai boards as required:- 2X 6 Sqmm copper conductor/cable + 1	neathed state Flame Regrade-I) of all ncluding jurn/DB to SDI Meter BOARDS (I	etardant f I available nction box B/SDB/Sw 45 MODULA nodules o	pper conductor/ lexible wire stra sizes diamete having require vitch boards/SD R TYPE) grade n surface/reces	wires as per anded copper r fixed, surface on the distribution of		
а	Wiring in looping system with PVC wire st IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G the wall/ceiling/floor as per convenience i ways from Main to Sub-Main/DB/Sub-Mai boards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH E fixing of Modular switch board of the follow PVC/Steel boxes,modular plate and neces	neathed state Flame Regrade-I) of all ncluding jurn/DB to SDI Meter BOARDS (I	etardant f I available nction box B/SDB/Sw 45 MODULA nodules o	pper conductor/ lexible wire stra sizes diamete having require vitch boards/SD R TYPE) grade n surface/reces	wires as per anded copper r fixed, surface on the distribution of		
а	Wiring in looping system with PVC wire st IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G the wall/ceiling/floor as per convenience i ways from Main to Sub-Main/DB/Sub-Mai boards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Fixing of Modular switch board of the follow PVC/Steel boxes,modular plate and necewith necessary painting if necessary	neathed state Flame Regrade-I) of all ncluding jurn/DB to SDI Meter BOARDS (I	etardant f I available nction box B/SDB/Sw 45 MODULA nodules o	pper conductor/ lexible wire stra sizes diamete having require vitch boards/SD R TYPE) grade n surface/reces	wires as per anded copper r fixed, surface on the distribution of		
a 4	Wiring in looping system with PVC wire st IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G the wall/ceiling/floor as per convenience i ways from Main to Sub-Main/DB/Sub-Mai boards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH E fixing of Modular switch board of the follow PVC/Steel boxes,modular plate and necewith necessary painting if necessary Two modules	neathed state Flame Regrade-I) of all ncluding jurn/DB to SDI Meter BOARDS (I) wing sizes/nssary switch	etardard copetardant for available action box B/SDB/Sw 45 MODULA nodules ones, plug/s	pper conductor/ lexible wire stra sizes diamete having require vitch boards/SD R TYPE) grade n surface/reces	wires as per anded copper r fixed, surface on the distribution of		
a 4	Wiring in looping system with PVC wire st IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G the wall/ceiling/floor as per convenience i ways from Main to Sub-Main/DB/Sub-Mai boards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Fixing of Modular switch board of the follow PVC/Steel boxes,modular plate and necewith necessary painting if necessary Two modules 1 S 2M	meathed state Flame Regrade-I) of all ncluding jurn/DB to SDI Meter BOARDS (I wing sizes/n ssary switch Nos	andard copetardant for available notion box B/SDB/Sw 45 MODULA nodules ones, plug/s 11	pper conductor/ lexible wire stra sizes diamete having require vitch boards/SD R TYPE) grade n surface/reces	wires as per anded copper r fixed, surface on the distribution of		
a 4	Wiring in looping system with PVC wire st IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G the wall/ceiling/floor as per convenience i ways from Main to Sub-Main/DB/Sub-Mai boards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH E fixing of Modular switch board of the follow PVC/Steel boxes,modular plate and necewith necessary painting if necessary Two modules 1 S 2M 2 S	meathed state Flame Regrade-I) of all ncluding jurn/DB to SDI Meter BOARDS (I wing sizes/n ssary switch Nos	andard copetardant for available notion box B/SDB/Sw 45 MODULA nodules ones, plug/s 11	pper conductor/ lexible wire stra sizes diamete having require vitch boards/SD R TYPE) grade n surface/reces	wires as per anded copper r fixed, surface on the distribution of		
a 4 a b	Wiring in looping system with PVC wire st IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G the wall/ceiling/floor as per convenience i ways from Main to Sub-Main/DB/Sub-Mai boards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH E fixing of Modular switch board of the follow PVC/Steel boxes,modular plate and necewith necessary painting if necessary Two modules 1 S 2M 2 S Three modules	meathed state Flame Regrade-I) of all ncluding jurn/DB to SDI Meter BOARDS (I wing sizes/n ssary switch Nos Nos	andard copetardant for available notion box B/SDB/Sw 45 MODULA nodules ones, plug/s 11	pper conductor/ lexible wire stra sizes diamete having require vitch boards/SD R TYPE) grade n surface/reces	wires as per anded copper r fixed, surface on the distribution of		
a 4 a b	Wiring in looping system with PVC wire st IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G the wall/ceiling/floor as per convenience i ways from Main to Sub-Main/DB/Sub-Mai boards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Fixing of Modular switch board of the follow PVC/Steel boxes,modular plate and necewith necessary painting if necessary Two modules 1 S 2M 2 S Three modules 3S (Cost for 1 SB)	meathed state Flame Regrade-I) of all ncluding jurn/DB to SDI Meter BOARDS (I wing sizes/n ssary switch Nos Nos	andard copetardant for available notion box B/SDB/Sw 45 MODULA nodules ones, plug/s 11	pper conductor/ lexible wire stra sizes diamete having require vitch boards/SD R TYPE) grade n surface/reces	wires as per anded copper r fixed, surface on the distribution of		
a 4 b c	Wiring in looping system with PVC wire st IS:694(1990) and Life shield- Halogen Fre running inside PVC Casing & capping (G the wall/ceiling/floor as per convenience i ways from Main to Sub-Main/DB/Sub-Mai boards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Efixing of Modular switch board of the follow PVC/Steel boxes,modular plate and necewith necessary painting if necessary Two modules 1 S 2M 2 S Three modules 3S (Cost for 1 SB) Six modules 4 S (3S+1S with indicator) + 1 R (Cost	meathed state Flame Regrade-I) of all ncluding jurn/DB to SDI Meter BOARDS (I wing sizes/n ssary switch Nos	andard copetardant of a vailable action box B/SDB/Sw 45 MODULA nodules ones, plug/s 11 7 1 2 ing of 5 A es (SP)of	pper conductor/lexible wire strates diamete having require vitch boards/SD graden surface/reces ocket, and fan remps' to 32 Ampthe following size	wires as per anded copper or fixed, surface on the domination of the surface on the surface of t		
a 4 b c	Wiring in looping system with PVC wire shall IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Gothe wall/ceiling/floor as per convenience in ways from Main to Sub-Main/DB/Sub-Main boards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH Entiting of Modular switch board of the follow PVC/Steel boxes, modular plate and necewith necessary painting if necessary Two modules 1 S 2M 2 S Three modules 3S (Cost for 1 SB) Six modules 4 S (3S+1S with indicator) + 1 R (Cost for 1 SB) MCBs SP/SP&N/DP/TP/TP&N/FP: Supply volts, B-series, Maniature Circuit Breaker	meathed state Flame Regrade-I) of all ncluding jurn/DB to SDI Meter BOARDS (I wing sizes/n ssary switch Nos	andard copetardant of a vailable action box B/SDB/Sw 45 MODULA nodules ones, plug/s 11 7 1 2 ing of 5 A es (SP)of	pper conductor/lexible wire strates diamete having require vitch boards/SD graden surface/reces ocket, and fan remps' to 32 Ampthe following size	wires as per anded copper or fixed, surface on the domination of the surface on the surface of t		

Sl. No.	Description	Unit	Qnty	Rate	Amount	
5	MCBs SP/SP&N/DP/TP/TP&N/FP: Supplying, and fixing of 6-32 Amps' DP rating 240 volts, B-series, Maniature Circuit Breaker Double Pole (DP)of the following sizes in the existing MCB DB complete with connections testing & commissioning etc, as required.					
	6-32 Amps' rating,DP, MCB B- series	Each	3			
6	MCB DISTRIBUTION BOARD Supplying, fitting, & fixing of 8-Ways MCB DB single door in sheet steel, Phosphatised powder painted MCB DBs with Bus Bar, Neutral link, earth bar and dirail conforms to IS:13032, IS:8623, BS:5486 240 Volts 50 Hz, on surface/recess including interconnection, painting etc, as required					
	8-ways MCB DB SP&N Single Door	Each	3			
7	ALLUMINIUM BUS BAR AND BUS BAR CHAMBER					
	Supplying, and fixing of Bus Bar Chamber with 4- strips bus bar of length 1200mm made of alluminium alloy or wrought alluminium suitable for 300 amps' capacity (where rating should not be more than one ampere per one Sqmm) complete with all accessories including connections earthing the body etc, as required:-					
		Each	1			
8	Supplying, fitting and fixing of (Syska) SSK-T5T 18 watt LED tube surface type (ISI) certified company make completed with connection, etc. in completed.					
		Each	25			
9	Supplying, fitting and fixing of (Syska) SSK- 9 watt LED Bulb surface type (ISI) certified compar make completed with connection, etc. in completed.					
		Each	4			
10	Supplying, fitting and fixing of (Syska) 18 w completed with connection, etc. in comp		led type	(ISI) certified co	mpany make	
		Each	26			
				TOTAL		

Name of works: INTERNAL ELECTRIFICATION FOR RECREATION CENTRE AT BABU TLANG. GROUND FLOOR

SI. No.	Description	Unit	Qnty	Rate	Amount			
1	FOR LIGHT POINT, CEILING FAN POINT, EXH	AUST FAN I	POINT ETC	(MODULAR	ТҮРЕ)			
	Wiring in looping system with PVC wire she							
	IS:694(1990) and Halogen Free Flame Retardant (HFFR) 1100 voltage graded copper flexible							
	wire stranded copper running inside PVC casing & capping (Gr-I) 20mm dia fixed, surface on							
	the wall/ceiling/floor as per convenience including junction box having required numbers of							
	ways from control switch to the light point	 		ı				
a	Short point	Each	4					
b	Medium point	Each	13					
С	Long point,	Each	12					
d	Very long point	Each	4					
е	Extra ordinary long point	Each	5					
2	FOR POWER PLUG/SOCKET POINT 15/16	AMPERES (MODULAI	R TYPE)				
	Wiring in looping system with PVC wire sho				/wires as per			
	IS:694(1990) and Life shield- Halogen Free							
	copper flexible wire stranded copper runni		•	,	0 0			
	fixed, surface on the wall/ceiling/floor as p			· ·	•			
	required numbers of ways from DB to the	power plug/	socket 15	/16A point etc	as required :-			
а	Medium point	Each	7					
b	Long point	Each	7					
3	MAIN TO SUB-MAIN IN COPPER WIRE GRADE-I SURFACE (SINGLE PHASE TWO WIRES)							
3	MAIN TO SUB-MAIN IN COPPER WIRE	Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per						
3			-	per conductor	/wires as per			
3		eathed stan	dard copp		•			
3	Wiring in looping system with PVC wire should be should	eathed stan e Flame Ret ade-I) of all	dard copp ardant fle available s	exible wire stra sizes diamete	anded copper er fixed,surface			
3	Wiring in looping system with PVC wire should be should	eathed stan e Flame Ret ade-I) of all ce including	dard copp ardant fle available s junction b	exible wire stra sizes diamete ox having re	anded copper er fixed,surface quired numbers			
3	Wiring in looping system with PVC wire should be should	eathed stan e Flame Ret ade-I) of all ce including	dard copp ardant fle available s junction b	exible wire stra sizes diamete ox having re	anded copper er fixed,surface quired numbers			
3	Wiring in looping system with PVC wire she IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Graon the wall/ceiling/floor as per convenience of ways from Main to Sub-Main/DB/Sub-Ma	eathed stan e Flame Ret ade-I) of all a ce including ain/DB to SE	dard copp ardant fle available s junction b	exible wire stra sizes diamete ox having re	anded copper er fixed,surface quired numbers			
3 a	Wiring in looping system with PVC wire she IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Graon the wall/ceiling/floor as per convenience of ways from Main to Sub-Main/DB/Sub-Maboards as required:- 2X 6 Sqmm copper conductor/cable + 1 x	eathed stan e Flame Ret ade-I) of all a ce including ain/DB to SE	dard copp ardant fle available s junction b	exible wire stra sizes diamete ox having re	anded copper er fixed,surface quired numbers			
	Wiring in looping system with PVC wire she IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Graon the wall/ceiling/floor as per convenience of ways from Main to Sub-Main/DB/Sub-Maboards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire	eathed stan e Flame Ret ade-I) of all a ce including ain/DB to SI Meter	dard copp ardant fle available s junction b DB/SDB/S	exible wire stra sizes diamete ox having red witch boards/	anded copper er fixed,surface quired numbers SDB to switch			
	Wiring in looping system with PVC wire she IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Graon the wall/ceiling/floor as per convenience of ways from Main to Sub-Main/DB/Sub-Maboards as required:- 2X 6 Sqmm copper conductor/cable + 1 x 6 Sqmm earthwire SUPPLYING AND FIXING OF SWITCH B	eathed stan e Flame Ret ade-I) of all a ce including ain/DB to SE Meter	dard copp ardant fle available s junction b DB/SDB/S 36	exible wire strasizes diamete ox having rewitch boards/	anded copper er fixed, surface quired numbers SDB to switch			
	Wiring in looping system with PVC wire she IS:694(1990) and Life shield- Halogen Free running inside PVC Casing & capping (Graon the wall/ceiling/floor as per convenience of ways from Main to Sub-Main/DB/Sub-Ma	eathed stander Retade-I) of all actions in the second standard sta	dard copp ardant fle available s junction b DB/SDB/S 36 ODULAR odules on	exible wire strasizes diamete ox having receivitch boards/	anded copper er fixed, surface quired numbers SDB to switch			
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Sl. No.	Description	Unit	Qnty	Rate	Amount
6	MCBs SP/SP&N/DP/TP/TP&N/FP: Supply series, Maniature Circuit Breaker Double FDB complete with connections testing & co	Pole (DP)of	the followi	ng sizes in the	
	6-32 Amps' rating,DP, MCB B- series	Each	6		
7	MCB DISTRIBUTION BOARD Supplying sheet steel, Phosphatised powder painted Min rail conforms to IS:13032, IS:8623, BS:5 inter-connection, painting etc, as required	/ICB DBs wi	th Bus Ba	r, Neutral link	earth bar and
	8-ways MCB DB SP&N Single Door	Each	2		
8	ALLUMINIUM BUS BAR AND BUS BAR CHAMBER				
	Supplying, and fixing of Bus Bar Chamber with 4- strips bus bar of length 1200mm made of alluminium alloy or wrought alluminium suitable for 300 amps' capacity (where rating should not be more than one ampere per one Sqmm) complete with all accessories including connections, earthing the body etc, as required:-				
		Each	1		
9	Supplying, fitting and fixing of (Syska) SSK-T5T 18 watt LED tube surface type (ISI) certified company make completed with connection, etc. in completed.				
		Each	38		
10	Supplying, fitting and fixing of (Syska) SSK- scompany make completed with connection			ce type (ISI)	certified
10				ce type (ISI)	certified

Name of works: INTERNAL ELECTRIFICATION FOR RECREATION CENTRE AT BABU TLANG. GRID MAIN PANEL

Sl. No.	Description	Unit	Qnty	Rate	Amount
	Out door type Grid main panel: Main panel with fitting of volt and ampere meter, 400A 3Ph aluminium bus bar, 400A,35KA FP MCCB as grid incomer and 4 nos of 250A, 25KA FP MCCB for each floor grid supply distributor		Lump Sun	n	
				TOTAL	