CANARA BANK

INVITATION TO TENDER

ONLY FOR EMPANELLED CONTRACTORS

OF

CIRCLE OFFICE KOLKATA

TENDER FROM ANY OTHER CONTRACTOR WILL BE SUMMARILY REJECTED

INSTRUCTION TO BIDDERS

AND

GENERAL CONDITIONS OF CONTRACT

FOR

ELECTRICAL WORKS

 \mathbf{AT}

CANARA BANK – KOLKATA PRINCE ANWAR SHAH ROAD BRANCH

	TENDER NO.:	68/24-25/BDS	
NAME OF THE CONT	RACTOR:		
ADDRESS:			 •

NOTICE INVITING THE TENDER

То,		
M/s		
Sealed tenders on item rate basis of Electrical Works at premises of Kolkata Tender Documents may be obtained of Section, Circle Office Canara Bank 01.10.2024 till 09.10.2024.	Pri at f	nce Anwar Shah Road Branch. ree of cost from the Premises & Estate
Earnest Money Deposit	:	NIL
Period of completion	:	20 days
Last date, time and place for Submission of tender	:	On or before 3:00 pm, 09.10.2024 to The Assistant General Manager, Premises & Estate section Canara Bank, Circle Office Kolkata
Time and date of opening of tender	:	3.30 pm on 09.10.2024
The Bank will not be bound to accept to accept or reject any or all the whatsoever.		<u> </u>
		Assistant General Manager Premises & Estate Section Canara Bank, Circle Office Kolkata

Date: 01.10.2024

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GENERAL RULES & INSTRUCTIONS TO TENDERERS

Name of the work: Electrical Works to be carried out at PREMISES OF KOLKATA PRINCE ANWAR SHAH ROAD Branch

The rates quoted shall also be inclusive of materials, labour charges, work contract tax, surcharge and all the taxes except GST.

GST WILL BE PAID EXTRA.

The rates quoted by the tenderer shall hold good till the completion of the work from the date of issue of the "WORK ORDER" and no enhancement in the rates are allowed during the period of execution of the work under any circumstances. The rates quoted shall also cover for the work to be executed before and after office hours and also on holidays.

The time stipulated for the completion of the work is 20 days from the date of issue of the WORK ORDER and the work is to be carried out as per the convenience of occupants without disturbing other occupants of the building.

TENDERS:

The entire set of tender paper issued to the tenderer should be submitted fully priced and also signed on the last page together with initials on every page. Initials / signatures will indicate the acceptance of tender papers by the tenderers.

The schedule of quantities shall be filled in as follows:

- The "rate" column to be legibly filled in ink in both English figures and words.
- 'Amount' column to be filled in for each item and the amount for each sub-head as detailed in the "schedule of quantities".
- All corrections to be initialed.
- o The "Rate" column for all the items shall be filled up.
- The "Amount" column for the items for which the quantities are not mentioned shall not be filled up.
- In case of any errors / omissions in the quoted rates, the rates mentioned in the tender in words shall be taken as correct rates.

No modifications, over-writings or corrections can be made in the tender papers by the tenderer, but may at his option offer his comment or modifications in a separate sheet of paper attached to the original tender papers.

The Bank reserves the right to reject the lowest or any tender or all of the tenders for each section or to split up and distribute any item of work to any specialist firm or firms, without assigning any reason.

The tenderers should note that tender is strictly on the item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct, workable and self – supporting. If called upon by the bank, detailed analysis of any or all the rates shall be submitted. The architects/bank shall not be bound to accept the contractor's analysis.

The Quantity mentioned in the BOQ is approximate measurements. The works will be paid for as "measured work" on the basis of actual work done and not as "lump sum" contract.

All the items of work described in the schedule of quantities are to be deemed and paid as complete works in all respects and details including preparatory and finishing works involved, directly, related to and reasonably detectable from the drawings, specifications and schedule of quantities and no further extra charges will be allowed in this connection. In the case of lumpsum charges in the tender in respect of an item of works, the payment of such items of work will be made for the actual work done on the basis of lump-sum charges as assessed to be payable by the architects/bank.

The bank has power to add or delete any work or described in specifications or included in schedule of quantities and intimates the same in writing but no addition, omissions or variation shall be made by the contractor without authorization from the bank. No variation shall vitiate the contract. The bank reserves the right to delete any of the items in the tender without assigning any reasons whatsoever.

The tenderer shall note that his tender shall remain open for consideration for a period of 90 days from the date of opening of tender.

AGREEMENT

The successful contractor is required to sign agreement as may be drawn up to suit the local conditions and shall pay for all the stamps and legal expenses incidental thereto. The original will be kept with the Bank and duplicate with contractor.

EARNEST MONEY AND SECURITY DEPOSIT:

There is NO Earnest Money Required to deposite/ submit along with the bids. Retention Money shall be deducted from the final bill at 5% of the gross value of bill. The Retention amount will be refunded to the contractor 15 days after the end of defects liability period provided he has satisfactorily carried out all the work and attended to the entire defect in accordance with the condition of the contract. No interest is allowed on Retention Money.

A part of the Security Deposit if and as decided by the constituent bank can also be furnished in the form of a Bank Guarantee on the bank other than that of the constituent bank.

CONTRACTOR TO PROVIDE EVERYTHING NECESSARY:

The contractor shall provide everything necessary for the proper execution of the work according to the intent and meaning of the drawings, schedule of the quantities and specifications taken together weather the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred there from and if the contractor finds any discrepancies therein he shall immediately and in writing, refer the same to the Architects/Bank whose decision shall be final and binding.

The rates quoted against individual items will be inclusive of everything necessary to complete the said items of works within the contemplation of the contract, and beyond the unit price. No extra payments will be allowed for incidental or contingent labour and/or materials inclusive of all taxes and duties whatsoever except for specific items, if any, stipulated in tender documents

The contractor shall supply, fix and maintain at his own cost, for the execution of any work, all tools, tackles, machineries and equipments and all necessary scaffolding, staging and lighting by night as well as by day required not only for proper execution and protection of the said work.

The contractor shall take down and remove any or all such scaffoldings as occasion shall be required or when ordered to do so, and shall fully reinstate and make good all matters and things disturbed during the execution of work to the satisfaction of architect/bank.

The contractor shall all times give access to workers employed by the bank or any men employed at site and to provide such parties with proper sufficient and if required, special scaffolding and ladder and provide them lighting as may be required to enable such workmen to inspect the work, lay or fix pipes, electrical wiring, special fittings etc. The quoted rates of tenderers shall accordingly include all these above-mentioned contingent works.

LIQUIDATED DAMAGES:

Should the work be not completed to the satisfaction of bank within the stipulated period, the contractor shall be bound pay the bank a sum calculated as given below by way of Liquidated Damages after the expiry of completion date

.1.00% of the estimated amount shown in the tender per week subject to a ceiling of 10% of the accepted contract sum.

TIME PERIOD FOR COMPLETION: 20 days from the date of award of work.

FINAL PAYMENTS

The final bill shall be accompanied by a certificate of completion from the Occupant/Bank Officials. Payments of the final bill shall be made after deduction of retention money as specified in clause 9 of these conditions which sums shall be refunded after the completion of the defects liability period after receiving the banks certificate that the contractor has rectified all defects to the satisfaction of the banks. The acceptance of payments of the final bill by the contractor would indicate that he would have no further claims in respect of the work executed.

ESCALATION:

The rates quoted shall be firm throughout the tenure of the contract [including extension of time, if any granted] and will not be subject to any fluctuation due to increase in cost of materials, labour, sales tax, octroietc, unless specifically provided in these documents.

CONTRACTORS EMPLOYEES:

The contractor shall employ technically qualify and competent supervisors for the work who shall be available [by turn] throughout the working hours to receive and comply with the instructions of the bank officials. The contractor shall engage at least one experienced engineer, as site in-charge for the execution of the work the contractor shall employ in connection with the work persons having appropriate skill or ability to perform their job efficiently. The contractor shall employ local labours on the work as far as possible. No laborers below age of 16 and who is not an Indian national shall be employed on the work. Any laborers supplied by the contractor to be engaged on the work on day-work basis either wholly or partly under the direct order or control of bank or its representative shall be deemed to a person employed by the contractor.

The contractor shall comply with provision of all labour legislation including the requirements of

- a. Payments of minimum wages act
- b. Employers liabilities
- c. Workmen's compensation act
- d. Contract labour (regulation and abolition) act, 1970 and central rules 1971
- e. Apprentices act 1961
- f. Any other act or enactment relating thereto and rules framed there under from time to time

The contractor shall keep the bank saved harmless and indemnified against claims if any of the workmen and all costs and expenses as may be incurred by the bank in connection with any claim that may be made by any workmen.

The contractor shall comply at his own cost with the order of requirement of any health officer of state or any local authority or of the bank regarding the maintenance of proper environmental sanitary condition of the area.

The contractor shall arrange to provide first aid treatment to the laborers engaged on the works. He shall within 24 hrs of occurrence of any accident at or about the site or in connection with execution of work, report such accidents to the bank and also the competent authority where such report is required by law.

The contractor shall obtain all Risk Insurance Policy at their cost within 7 days of commencement of work, for the laborers/workmen working at the site including the work till the work is completed. The policy shall be in the joint name of the Bank and contractor and Bank's name shall appear First.

PAYMENTS:

The contractor, in the form prescribed by the bank shall prepare all the bills and submit the same to Bank with measurement of work. Normally one interim bill shall be prepared each month. Bank may release payment within 15 days of receipt of bills/after check measurement, after deduction of retention money, Income Tax etc.The contractor shall have a competent engineer at site for the supervision of the work.

The contractor shall have to make his own arrangements for watch and ward of the work/building, till the work is handed over to the bank.

The decision of the bank will be final and binding with regard to the quality of work is concerned.

The contractor is responsible for procuring the required materials for the work and stores the same at site at his cost and risk.

The amount stated in the interim certificate shall be the 75% of total value of the work executed up to date of the bill, less the amount to be retained by the bank as retention money. If the bank has supplied any materials or goods to the contractors, the cost of such materials will be progressively deducted from the amount due to the contractor on accordance with the quantities consumed in the work. All the interim payments shall be regarded as payments by way of advance against the final payment only and not as payments for works actually done and completed and shall not preclude the requiring of bad, unsound or imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the due performance of the contract or any part there of if any respect or accruing of any claim nor shall it conclude, determine of effect in any way the power if the bank under conditions or any of them add to the final settlement and adjustment of the accounts or otherwise or in any other way or affect the contract.

The contractor shall submit the final bill within one month from the date of completion of the work. A certificate of completion from the bank shall accompany the final bill. The payment of the final bill shall be made after deduction of retention money as specified elsewhere in these documents.

ARBITRATION:

All disputes or differences of any kind whatsoever which shall at any time arise between the parties here to touching or concerning the works or the execution or maintenance thereof of this contract or the rights touching or concerning the works or the execution of maintenance thereof of this contractor or the construction remaining operation or effect thereof or to the rights or liabilities of the parties are arising out of or in relation thereto whether during or after determination foreclosure or branch of the contract[other than those in respect of which the decision of any person is by the contract expressed to be final and binding] shall after written notice by either party to the contract to the other of them and to the employer hereinafter mention to deal referred for adjudication to a sour arbitrator to be appointed as hereinafter provided.

For the purpose of appointing the sole arbitrator referred to above, the employer will send within 30 days of receipt of the notice, to the contractor a panel of 3 names of persons who shall be presently unconnected with the organization for which the work is executed.

The contractor shall on receipt of the names as aforesaid, select, anyone of the person's name to be appointed as a sole arbitrator and communicate his name to the employer within 30 days of the receipt of the names. The employer shall thereupon without any delay appoint the person as the sole arbitrator. If the contractor fails to communicate such selection as provided above within the period specified, the competent authority shall make the selection and appoint the selected person as the sole arbitrator.

If the employer fails to send to the contractor the panel of 3 names as a foresaid within the period specified, the contractor shall send to the employer a panel of 3 names of persons who shall be unconnected with either party. The employer shall on receipt of the name as a foresaid select anyone of the person's names and appoint him sole arbitrator. If the employer fails to select the person and appoint him as a sole arbitrator within 30 days of the receipt of the panel and inform the contractor accordingly, the contractor shall be entitled to appoint one of the persons from the panel as the sole arbitrator and communicate his name to the employer.

If the arbitrator as appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever another sole arbitrator shall be appointed as aforesaid.

The work under contract shall, however, continue during arbitration proceedings and payment due or payable to the contractor shall be withheld on account of such proceedings.

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The arbitrator shall be deemed to have entered on the reference the data he issued notice to both the parties fixing the date of the first hearing.

The arbitrator may from time to time, with the consent of parties, enlarge the time or making and publishing the award.

The arbitrator shall give a separate award of each disputes or difference referred to him. The arbitrator shall decide each dispute in accordance with the terms of the contract and give a reasonable award. The venue of arbitration shall be such place as may be fixed by the arbitrator in his sole discretion.

The fee, if any, of the arbitrator shall, if required to be paid before the award is made and published, be half and half by each of the parties. The cost of the reference and of the award including the fees, if any, of the arbitrator who may direct to and by whom and in what manner, such costs or any part thereof shall be paid and may fix or settle the amount of costs to be so paid.

The award of the arbitrator shall be final and binding on both the parties.

Subject to aforesaid the provision of the arbitration act 1940 or any statutory modification or reenactment thereof and the rules made there under, and for the time being in force, shall apply to the arbitration proceeding under this clause.

The employer and the contractor hereby also agree that arbitration under the clause shall be a condition precedent to action under the contract with regard to the matters hereby expressly agreed to be so referred to arbitration.

Date:	Signature of the Contractor
	With seal and address

SCHED BRANC	ULE FOR ELECTRICAL WORKS TO BE DONE AT K	OLKATA	PRINCE	ANWAR	SHAH ROAD
ITEM	DESCRIPTION	QNTY	UNIT	RATE	AMOUNT
NO.				RS.	RS.
1.0	SWITCH/ MCB				
1.1	Supply & erection of 415V/230V equipment				
	individually on wall housed in MS enclosure with				
	metal front cover for the following:				
1.1.1	100A FP SFU with HRC fuse links as main incomer	1	Each		
	with cable entry box.				
		_			
1.1.2	63 A TPN Isolator with cutout DB(for Master	1	Each		
	switch for contolling Lights, Acs.,		1		
	power point excluding UPS ,Server & CCTV wiring distribution at				
	Branch Entrance location				
	D. G. C. Elinano io Ganoli				
1.1.3	40A DP RCCB (MAKE :LEGRAND/L&T)	1	Each		
		-			
1.1.4	32A 20KA 230-400V, 50/60HZ FP SURGE	1	SET		
	PROTECTION DEVICE(HAGER MAKE)				
1.1.5	63 A DP MCB for UPS INPUT	2	Each		
			<u> </u>		
1.1.6	32A DP MCB for UPS OUTPUT	2	Each		
1.1.7	TPN Busbar chamber having 4 nos. 25x6mm CU	1	Each		
1.1./	Bars fixed on insulators.	1	Euch		
	bals fixed off filsolators.				
1.1.8	2 x 10A SPMCB with enclouser for continous	1	Each		
	supply of server & CCTV LINE				
2.0	DISTRIBUTION BOARD				
2.1	Supply & erection of 415V, TPN wall mounting DB				
	housed in Horizontal Double door DB box				
	consisting of the following:-		1		
2.2.1	MDB:		1		
۲.۲.۱	i) Incomer- 1 No - 63A 4P MCB (10KA).		+		
	ii) Outgoing- 7 Nos 32 SP MCB (10KA).		+		
	(UPS supply and LDB supply)	1	Set		
	(c. c coppi) and LDD coppi))	•			
2.2.2	PDB / AC DB:				
	i) Incomer -1 No- 100A 4P MCB Isolator.				
	ii) Outgoings- 10 nos16/20 SP MCB (10KA).	1	Set		
	, , , , , , , , , , , , , , , , , , , ,		1		
3.0	Supply & erection of 230V SPN Wall mounting DB				
	housed in SPN double door DB box consisting of				

	the fellowing.			
	the following:-			
3.1.1	LDB:			
	i) Incomer- 1 No- 32A 2P MCB(10KA)			
	ii) Outgoing-10 nos6A/10A SP MCB(10KA)	1	Set	
3.1.2	CDB:for BRANCH & ATM			
	i) 1 no - 25A DP MCB(10KA)			
	ii) 2 nos 10A SP MCB(10KA)			
	iii) 6 nos 6A SP MCB(10KA)	2	Set	
	III) 6 1105 6A SF MCB(TORA)		361	
1.0				
4.0	DISTRIBUTION CABLE / WIRE			
4.1	Supply & lay 1.1 KV grade PVCA AL/CU cable			
	on wall having MS /HDP pipe protection near			
	floor level and clamping as required for the			
	following:-			
4.1.1	50 Sq mm 4 core Al with 2 nos 10 SWG GI wire	40	Mtr	
4.1.2	20 Sq mm 4 core Al with 2 nos 10 SWG GI wire	35	Mtr	
4.1.3	10 sq mm 4 core Al with 2 nos 12 SWG GI wire	30	Mtr	
			1	
4.1.4	6 sq mm 4 core Al with 2 nos 12 SWG GI wire	30	Mtr	
7.1.7	o sq min 4 core Ar wini 2 nos 12 swo or wire		/****	
4.1.5	2.5 sq mm 2 core CU for UPS Plate Earthing	30	Mtr	
			1	
4.1.6	4 nos. 16 sq. mm. CU flexible wire through GI			
4.1.0	flexible pipe complete with end termination	10	Mtr	
	with CU sockets.	10	/V\Tr	
	(Meter loop connection with Main SFU &			
	Busbar)			
	Busbarj		+	
4.0	Marking and towning the of 1.1 KV grands DVCA			
4.2	Making end termination of 1.1 KV grade PVCA			
	AI/CU cable with supply of cable end box ,			
	brass Gland, CU crimping socket & jointing			
401	materials as required for the following:-		 	
4.2.1	50 Sq mm 4 core Al	2	Each	
4.2.2	16 Sq mm 4 core Al	2	Each	
4.2.3	10 sq mm 4 core Al	6	Each	
4.2.4	6 sq mm 4 core Al.	4	Each	
		-		
4.2.5	4 sq mm 2 core CU	10	Each	
7.2.5	7 39 IIIII 2 COIE CO	10	Lucii	
- C	1/A DAW DOWED OUTLET DOUGLE WIDING	2	F 1 P	
5.0	16A RAW POWER OUTLET POINT WIRING	3	Each	
	Wiring for Power outlets from DB with 1.1 KV			

	grade 2x 2.5+1x1.5 PVC insulated copper				
	conductor wire (FRLS) through suitable size PVC				
	conduit complete with 1 no 6/16A socket with				
	16A control switch in suitable size modular box				
	with front plates (Cabtree Legrand), junction				
	box, circular box elbows etc and all other				
	accessories surfaced on wall above false				
	ceiling and concealed by chase cutting on wall				
	& making connection complete. (Maximum 2				
	nos. sockets cluster in one circuit connecting by				
	looping method).				
6.1	A.C. POWER POINT WIRING	7	Each		
	A.C. power point wiring from PDB with 1.1KV				
	grade 2 nos. single core 4.0 sq. mm + 1 no. 2.5				
	sq mm (Green colour for Earthing) PVC				
	insulated copper conductor wire (FRLS)through				
	suitable size PVC pipe on wall / ceiling surface				
	with all wiring accessories. The work includes				
	supply & fixing by chase cutting on wall, North				
	West /Cabtree make Starter 18-25A (MS				
	housed) unit with 25A socket & matching Plug				
	top complete with all interconnections for				
	1.0/1.5/2 Ton ACs.				
7.0	Wiring /cabling with 660/1100 V grade PVC				
	insulated multi stranded copper				
	wire/cable(FRLS) through ISI marked minimum				
	2-20 mm (max) thick PVC conduit with junction		`		
	box, circular box, elbows, bends, couplers and				
	other accessories concealed (below the false				
	ceiling) or by chase cutting on wall/floor or on				
7.1.1	surface by bar saddles.	100			
7.1.1		180	Mtr		
	Supply)				
710	1V/ COMM CII wire for a militim	100	AAL		
7.1.2	1X6 SQMM CU wire for earthing	180	Mtr		
7.1.3	2X2.5 + 1x1.5 sq mm. (for UPS & Raw power	170	Mtr		
7.1.3	Circuit & Continous	170	/٧١١١		
	supply for server & CCTV line)				
	JUPPIN TOT SELVET & COLVENIE				
7.1.4	4X6 + 1X 2.5 sq mm. (FOR UPS POWER INPUT	50	Mtr		
7.1.4	WIRING)	30	/٧١//		
7.1.5	2X6 + 1X 2.5 sq mm. (FOR UPS POWER OUTPUT	150	Mtr		
7.1.5	WIRING & Lighting on & Off Invertor line wiring)	150	IVVII		
	wiking & Lighting on & On inventor line witing)				
8.0	POINT WIRING:				
8.1	Supply & wiring with 3x1.5 sq. mm 1.1 KV grade				
	PVC S/C multistrand CU wire (FRLS) in suitable				
		1	1	L	1

	size BVC conduit & accessories having control			
	size PVC conduit & accessories having control			
	board with modular switch mounted on suitable			
	front plate and housed in recessed MS box. The			
	point wiring also include circuit			
	wiring with 1.1 KV grade 2 nos. single core 2.5			
	sq. mm +1 no. single core (green colour for			
	Earth) PVC insulated flexible copper conductor			
	wire through suitable size PVC conduit from DB			
	to Switch board, interconnection and mending			
	good all damages to original finish. (Max.8-10			
	points or 700- 800Watts per Circuit is allowed).		<u> </u>	
8.1.1	One Light controlled by 6A switch	25	Each	
8.1.2	Two Light controlled by 6A switch	10	Each	
8.1.3	Exhaust Fan point with 6A switch	5	Each	
	-			
8.1.4	Bracket fan point /Ceiling Fan point with 6A	15	Each	
	switch			
8.1.5	Modular type 6A switch, 1 no. 6A 5 pin socket	11	Each	
0.1.0	point mounted on suitable front plate on	• •	Lacii	
	separate switch board other than light / fan			
	switch board. (Power to be tapped from nearest			
	S.B/ LDB).			
	3.5/ £55j.			
8.1.6	Call bell point with bell push and bell (for	1	Each	
0.1.0	manager's Chamber).	'	Euch	
	managers chamber).			
9.0	COMPUTER POWER OUTLET CLUSTER POINT			
7.0	WIRING			
9.1				
7.1	Computer socket outlet cluster point wiring with			
	1.1KV grade 2x 2.5 + 1x1.5 sq. mm. PVC			
	insulated flexible copper conductor wire(FRLS)			
	through suitable size PVC conduit with all			
	accessories up to connection of 2/3 nos.			
	sockets cluster in one circuit connecting by			
	looping method. The work includes supply and			
	fixing of sockets outlet cluster components as			
	detailed below:-			
	1 nos 16A modular type switch.			
	3 nos 6/16A 5 pin modular type socket		-	
	1 each no Front plate & MS box.			
	(for Each Table & counters)	11	Each	
10.0	FAN & EXHAUST FAN			
10.1	Supply, erection and connection of 400 mm			
	230V oscillating type full Metal body wall	15	Each	
	mounted bracket Fan.			

10.2	Supply, erection and connection of 225 mm 1400 rpm, 230V Heavy duty exhaust Fan with wire guard net including wall cutting and finishing.	4	Each	
11.0	Call Ball			
11.0	Call Bell Supply and fixing of call bell with modular type			
	push complete with plate & box to be fixed (1 each in Floor)	1	Each	
12.0	LIGHT FITTINGS			
	Supply, erection and connection of fluorescent			
	/ compact fluorescent / mini halogen fitting			
	with lamp , ballast / Transformer and other			
	accessories for the following as per approved			
12.1.1	Brand/Make of Materials. 42W 2 X 2 LED LIGHTS	21	Each	
12.1.1	15 W LED DOWN LIGHTERS	6	Each	
12.1.3	20 W LED TUBE LIGHT	18	Each	
13.0	TELEPHONE CABLE			
	Supply, lay and connect PVC insulated CU conductor and armoured 10 pair Telephone cable for the following:-	80	Mtr	
14.0	TELEPHONE POINT			
14.1	Telephone point wiring with 2 pair PVC insulated	6	Each	
	CU conductor (0.5mm) telephone wire drawn through PVC conduit.			
140				
14.2	Supply and erection of modular type telephone outlet RJ11 mounted on suitable front plate housed in recessed MS box.	6	Each	
15.0	EARTHING			
15.1.1	Supply and election Earth station with 600			
	x600x3mm GI Plate with earth strip / wire			
	connecting arrangement including excavation and back filling with 25 mm dia GI pipe for watering.(for UPS & LIGHT FAN Earthing)	2	Each	
15.1.2	Supply and erection of masonry pit for each	2	Each	
	Earth station having CI/RCC inspection cover.			
16.0	Supply and erection of earth bus on wall (min. length 0.3 mtr.) on insulator with drilled holes on the bus with GI bolt , nut , washer etc for the following:-			
16.1.1	With (25x6) mm GI flat	2	Each	

16.1.2	With (25x3) mm CU flat	2	Each	
17.0	Supply and lay GI flat for earthing underground /on wall including connection for the following:-			
17.1	(25x3)mm GI flat	70	Mtr	
Α	TOTAL EXCLUSIVE OF GST			
В	DISCOUNT IF ANY			
С	TOTAL AFTER DISCOUNT (A-B)			
D	GST			
E	TOTAL INCLUSIVE OF GST (C + D)			

APPR	OVED MAKE OF MATERIALS	
1	Switch fuse units (HRC)	LEGRAND / INDO-ASIAN / HAVELLS
2	Timer (TSQ 100)	L & T / HAVELLS
3	Voltmeter & Ammeter	A. E. /
4	Voltmeter & Ammeter selector switches	KAYCEE / L & T
5	Phase indicating lamp	Vaishno / SIEMENS / ROSS controls
6	Capacitor	CROMPTON/SIEMENS
7	HRC fuses	GE power / SIEMENS / L & T / SCHNEIDER
8	Power Cable : XLPE	GLOSTER/POLYCAB/HAVELLS / NICCO
9	HRC fuse base & carriers.	GE power / SIEMENS / L & T / SCHNEIDER
10	1.1 KV grade PVC insulated armoured aluminium cable (ISI marked)	GLOSTER / NATIONAL / NICCO / HAVELLS
11	1.1KV / 600V grade PVC insulated & sheathed / insulated copper wire & flexible cords (ISI marked).	FINOLEX / HAVELLS
12	RCCB / ELCB / MCCB	LEGRAND / INDO-ASIAN / HAVELLS
13	Moulded case circuit breaker	LEGRAND / INDO-ASIAN / HAVELLS
14	RCCB / ELCB	LEGRAND / INDO-ASIAN / HAVELLS
15	Switch fuse with rewirable fuses. (6A & 32A TPN)	LEGRAND / INDO-ASIAN / HAVELLS
16	Isolator	LEGRAND / INDO-ASIAN / HAVELLS
17	Changeover switch (on load type)	LEGRAND / INDO-ASIAN / HAVELLS
18	MCB distribution board	LEGRAND / INDO-ASIAN / HAVELLS
19	6/16 Amp modular type switch / flushed type plug socket	ANCHOR (Roma) / CRABTREE / INDO- ASIAN
20	6/16 Amp modular switch / socket, module plate & mounting M.S. / PVC box.	ANCHOR (Roma) / CRABTREE / INDO- ASIAN
21	16/25 Amp., 2 module electronic regulator	ANCHOR (Roma) / CRABTREE / INDO- ASIAN
22	Ceiling rose	KAY / EPP / ANCHOR / JJ

23	Holder	KAY / EPP / ANCHOR / JJ
24	Alarm bell	KHERAJ / GETCO
25	Black enamelled Steel conduits (conforming to IS in all respects)	BEC / SUPREME / AKG
26	Compression type brass gland	DOWELLS / JOHNSON / COMET
27	Cable termination socket	DOWELL'S
28	Light fitting & lamps	PHILLIPS / HAVELLS
29	Ceiling / Wall Mounted Fan (metal blade)	CROMPTON / POLAR / KHAITAN / HAVELL'S
30	Exhaust fan	CROMPTON / POLAR / KHAITAN / HAVELL'S
31	Industrial type socket & top	HAVELL'S / CROMPTON / LEGRAND
32	Telephone wire	FINOLEX / RRK/NATIONAL
33	Starters	NORTH WEST / CABTREE
34	All other items not covered above	As per sample approved by Employer/Consultant