

Notice Inviting Tender

ELECTRICAL WORKS IN NEW & EXISTING PREMISES OF BAGALKOT RO

Location of the Branch/Office	CANARA BANK RO BAGALKOT
Eligibility of the contractor	Eligible Electrical Contractors empaneled with Circle Office: Hubballi
EMD	₹ 35,000/- Exemption Permitted under MSME Scheme on submission of relevant documents.
Address for submission of sealed tenders	Circle Office: Hubballi
Last date & time for submission of sealed tenders	06.01.2025 up to 3:00 pm
Date & Time of opening of sealed tenders	06.01.2025 up to 3:30 pm
Payment terms	As per IBA norms.
Time limit for execution of work	45 days from the date of work order
Defect liability period	12 months after completion of work
Retention money towards defect liability period	3 % of final bill amount
Date of commencement of work	As per work order
Income Tax &/ other taxes	At applicable rate
Payment	After the completion of the work, as per procedure
Period for submitting final bill by contractor	Within one month from the date of virtual completion of the work
Liquidated damage for non-completion of work in time	1% OF THE TENDERED AMOUNT per week and part thereof for the delayed period maximum of 10%.
Rates quoted by bidder	I. The quoted rate should be inclusive of Cost of materials, transport, loading , unloading charges, cost of installation, all taxes (excluding GST) , wastages, machinery, temporary works such as scaffolding, cleaning, overheads, profit, statutory expenses, incidental charges and all related expenses required for the completion of the work. II. Additional claims other than the quoted amount will not be entertained. III. The quoted rates shall be firm throughout the completion of the project
Insurance	Falls under scope of contractor.
Validity of submitted tender	90 days from the opening of tenders

The sealed tender must be dropped in tender box kept at the Circle Office within the above stipulated time. Tenderers / authorized representative are requested to be present at the time of opening. Canara Bank will not be bound to accept the lowest tender & reserves the right to reject any or all the tenders without assigning any reason thereof.

Signature of Bidder with seal

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Premises & Estate Section,
Circle Office Hubballi
Centrum Building,

T: 08362-2239432/433 /434

Gokul Road, Hubballi-580030

E:pecohub@canarabank.com

To

The Assistant General Manager,
P & E Section,
Canara Bank Circle Office,
Hubballi - 580030.

Dear Sir,

Sub: Electrical works in the premises of RO Bagalkot

I/We hereby declare that I/ We have carefully gone through the conditions laid down in the Notice Inviting Tender, General notes, General Conditions of Contract, Special conditions, Schedule of approximate quantities and rates, Form of Agreement, General Specification, Approved manufacturers/natural source of materials Technical Specifications of schedule of quantities, and clearly understood all the same and on the basis of the same I/ We have quoted our rates in the Schedule of Quantities(i.e. BOQ) attached with the tender documents.

I / We have enclosed herewith a Demand Draft of _____ .Bank & No. _____ dated _____ favoring **Premises & Estate Section, Circle Office, Canara Bank, Hubballi** for ₹ _____ payable at Hubballi, towards E.M.D.

In the event of this Tender being accepted I/ We agree to enter into the agreement and submit the declaration on requisite non-judicial stamp papers as and when required and execute the contract according to your form of Agreement etc., in default whereof, I/ We do hereby bind my-self / ourselves to forfeit the aforesaid deposit.

I / We further agree to complete the work included in the said schedule of quantities within specified time from the date of the work order issued to commence the same.

I / We agree to pay all taxes(except GST), insurance charges as prevailing from time to time, on such items for whom same is to be levied by/ for the government, and the rates quoted by me / us are inclusive of all the same.

Once again knowing fully well the contents of this tender, I / We sign this tender on this _____ Day of _____ month of 2023.

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SPECIAL CONDITIONS & INSTRUCTIONS FOR THE GUIDANCE OF TENDERER

1. The works at the branch/Office premises need to be executed duly taking care of the local bye laws/regulations of the local authorities like Police Dept, Water supply and Sanitary Board, Electricity Board, Central/ State Labor Commission etc. Necessary permissions, licenses, temporary connections if needed shall be obtained by the Contractor and Bank shall not be held responsible for any lapses.
2. The works shall be executed duly taking care of all safety measures and Bank shall be fully indemnified for any 3rd party claims, casualties, mishaps, loss of property etc. related to the undertaking & the execution of the subject work.
3. GST TAXES: As per the new Goods & Services Tax (GST) structure, the tenderers are required to have GSTIN number & Tenderers without GSTIN number are not eligible to participate in the tender process. The details as per the Annexure I attached are to be mandatorily furnished along with the tender. The eligible tenderers are requested to quote the GST separately. The taxes will be deducted at source as per the statutory requirements. While raising the bill, it shall be mentioned as bill to Canara Bank and our Bank's GSTIN number to be mentioned.
4. CANARA BANK'S KARNATAKA STATE GSTIN NUMBER is 29AAACC6106GIZX.
5. Tenderers are requested to submit the EMD in the form of crossed Demand draft only on any of the nationalized Banks/State Bank Drawn in favor of Premises & Estate Section, Circle Office, Canara Bank, Hubballi, payable at Hubballi. Tender with EMD in any other forms shall be rejected.
6. Tenderers are expected to visit the site before quoting the rates and should satisfy themselves as to the nature and conditions of work facilities available etc.
7. The tenderers are required to examine the enclosed general plan, tender form and conditions mentioned in the tender.
8. The tenderers should quote the rates in the figures. The amount for each item should be worked out and the requisite totals shall be given. The total amount shall be written both in figures and words.
9. The rates quoted in the tender shall be for measured finished works and shall include all changes including cost of materials, transportation, freight charges etc. complete.
10. The work is to be completed within stipulated time.
11. The successful tenderers shall give all necessary personal attention to the work during the process of work and also until the expiry date of "Defects Liability Periods" which is **12 months** after the date of completion of the work.
12. The bank reserves the right to reject any portion of the work or material, which is, found unsatisfactory not up to the standard.

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13. A retention amount of **3% of the bill amount** will be retained from the final bill and shall be paid to the successful tenderers after the defect's liability period is over and upon the certification of the engineer.
14. Income tax deduction at prevailing / appropriate rates will be retained from each running bill which will be certified by the income tax authorities and a receipt will be given to the contractors.

CONDITIONS OF CONTRACT

1. If any additions and alterations are found necessary, the tenderers will have to do the same within the tendered rates with the prior approval of the bank.
2. The contractor shall employ adequate labor to complete the work within the scheduled time and shall make his own arrangements for housing his materials etc.
3. The contractor shall have to make his own arrangements to house his labor and staff for their services.
4. All tendered rates shall include for the cost of materials, labor, supervision, tools, plant, transportation, contingencies, duties, breakages, wastages, sundries, scaffolding, etc. complete.
5. All instruction regarding the execution of the work shall be received from the officials through consultant/architect only. Any other instructions issued directly to the contractor by anyone else shall not be binding on the bank.
6. The bank shall have the power to omit or cancel any item of work without assigning any reason whatsoever and no claim for compensation for damage will be entertained for such omissions and cancellation.
7. The contractor shall maintain satisfactory progress of work as well as maintain a desired level of workmanship. If in the opinion of the bank the progress is unsatisfactory and / or the workmanship is unsatisfactory then the bank shall take possession of the work **within 7 days** to that effect. The bank shall then complete the entire work and rectify all the defects at the contractor's cost and consequences.
8. In case the bank is not satisfied with the quality of materials used by the contractors, they reserve the right to direct the contractor to procure such materials supplied from agencies they deem fit.
9. The contractors are to be responsible for clearing any, all dirt and rubbish and superfluous materials as they accumulate and everything unnecessary and to leave the premises in a clean and orderly condition on completion and fit for occupation. No extra payment shall be made for doing this.
10. Any work which is not approved by the bank shall have to be removed within 24 hours from the time of order and shall have to be redone by the contractor at his own cost and this cost will be borne by the contractor.

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11. No deviation whatsoever for any reason will be permitted, however, if any deviation becomes necessary, the same should be brought to the immediate notice of the bank and written approval must be obtained for such deviation before proceeding with the execution of work.
12. The bank has got the right to supply any materials required for the work and cost of materials so supplied will be deducted from the bills of the successful contractor.
13. The contractor shall be responsible for safe custody of his materials/materials issued to him by the bank till they are used for the work. He shall make his own arrangements for the safe custody and proper storage and preservation in sound condition till the same are actually used in the work.
14. The tenderers shall extend full co-operation to the other contractor /agencies like electrical, air conditioning, Fire & CCTV, LAN etc. who are also working for the same project and co-ordinate with them in finishing the awarded work within the stipulated time given.
15. The contractor shall have a competent supervisor on the site for all the time.
16. For any new item the rate will be fixed by the bank as per prevailing fair market rate and labor which will be binding on the contractor.
17. In case the brand of materials mentioned in the tender is not available in the market, the alternate brand shall be used only after prior written approval of the bank.
18. The contractor shall be given a single electrical connection at work site. Electrical charges for consumption by the contractor will be charged separately by the bank, contractors have to provide sub-meter.
19. The successful tenderers shall not anticipate any financial help from the bank in the form of adhoc payment / advance for mobilizing and for starting the work.
20. The contractor should strictly adhere to the specifications and make of the materials, mentioned in the annexure. Any deviation will summarily reject the items of the work and not qualify for payment.
21. The successful tenderers shall be ready to carry out works between non-banking hours and even at nights and holidays. The contractor should sign all the pages of the document and the same shall be submitted to us.

Acceptance of contractor for Labor laws

- The successful tenderers / Contractor shall carefully and diligently implement the provisions of the Contract Labor Act & Contract Labor Rules.
- The Bank shall be entitled to deduct from the Contract Consideration, any such amount which the Bank has to pay in accordance with the Contract Labor (Regulation &

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NIT Ref. COHUB: P&E:DPJ:6925:49: 2024-25 dated 26.12.2024

Abolition) Act 1971 and Workmen's Compensation Act, in the event of the Bank having to disburse compensation / effect any payment under the Contract Labor Acts / Rules.

- Please note that as per rule 81(1) of Contract Labor (R&A) Rules, 1971, it is mandatory on the part of the Contractor to display the notice containing the following details at prominent place at the work site.
- Rates of wages.
 - Hours of work.
 - Wage periods.
 - Dates of payment of wages.
 - Names & addresses of the Labor Inspectors having jurisdiction &
 - Date of payment of unpaid wages.

The notice containing the above details shall be displayed without fail at the work site.

- The Contractor shall not engage any workmen for wages, less than the minimum wages prescribed under the notification issued by the Central Government.
- The contractor should follow all labor laws/guidelines laid down by central /state government from time to time.
- ABNORMALLY HIGH AND LOW RATED ITEMS :

For item rate tenders if, the rates quoted by the lowest bidder for certain items of the Bill of Quantities of the tender are found to be abnormally high or low in comparison to the market rate analysis of the item done by the Architects/Bank and or in comparison to Architect/Bank's method of working out market rate justification for the items, the same shall be governed as under in order to avoid financial loss to the Bank in the event of default of Bidders.

- For abnormally high rated items (AHR), the progressive payment shall be 80% (eighty percent) of the payment due to the Bidder against execution of the AHR item. The balance withheld 20% payment shall be released after 75% of total value of the original contract is complete in financial terms or this 20% withheld payment can be released to the Bidder on submission of an unconditional bank guarantee of equivalent amount in the proforma of Bank. Further deviation limit for AHR items shall be nil on plus side and Bank reserves the right to restrict, substitute or not execute the AHR items during execution. The decision of the Architect/Bank's Engineer in this regard shall be final and binding on the Bidder.
- For abnormally low rated (ALR) items the Bidder shall submit Bank Guarantee of difference in total of amount of ALR item(s) and the total amount of corresponding items at market rate of the Architect/Bank. This bank guarantee shall be valid till completion of the project. In exceptional circumstances, the amount of Bank Guarantees (BG) may be reduced or BG released earlier than completion period if, in view of Architect/Bank's Engineer, all ALR items as provided in the contract are executed as per terms of contract and/or not required to be executed.

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Notwithstanding what is contained in Para i) & ii) above, the provisions of Para (i) and (ii) shall not be applicable on tenders invited on percentage rate basis.

The decision of the Bank on identification/ marking of AHR and ALR item are final and binding on the Bidder. In case the Bidder do not agree for furnishing of Bank Guarantee as above towards ALR items, at the time of award of works, the EMD/Performance guarantee of the Bidder shall be forfeited and decision of Architect in this regard shall be final and binding on the Bidder.

CERTIFICATE

I/ WE HAVE READ, FULLY UNDERSTOOD THE ABOVE-MENTIONED REGULATIONS OF LABOUR LAWS/GUIDELINES AND ACCEPT THE SAME IN TOTO. I ALSO UNDERTAKE TO FOLLOW ALL LABOUR LAWS/GUIDELINES LAID DOWN BY CENTRAL /STATE GOVERNMENT FROM TIME TO TIME & INDEMNIFY THE BANK AUTHORITIES.

ANNEXURE I (TO BE MANDATORILY FURNISHED)

1.	Name of the Contractor under the Contract Labor (Regulation and Abolition) Act, 1970 (37 of 1970) (if applicable)	
2.	LIN / PAN No	
3.	Email Id	
4.	Mobile No.	
5.	No. & date of Certificate of Registration/ License*	
6.	Name of Person in charge of work	
7.	LIN / PAN No. of the person in charge of work	
8.	Email Id of the person in charge of work	
9.	Mobile No. of the person in charge of work	

* Please strike off whichever is not applicable

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APPROVED LIST OF MATERIALS

SL NO	ITEMS	MAKES
1	MCCB / MCB - C Curve (All 10 kA Category)	Legrand, L & T, Merlin Gerin, Hager, GE, C&S, Schneider Electric.
2	ISOLATOR	LEGRAND
3	SWITCHES , SOCKETS (MODULAR) & MODULAR BOX	LEGRAND (MYRIUS / ARTEOR) / ANCHOR-WOODS//SCHNEIDER (ZENCELO), Anchor Panasonic - Vision, M,K India Wraparound
4	CHANGE OVER SWITCH	L&T/ C&S/HPL
5	INSULATED WIRES (FRLS) CABLES	ANCHOR / FINOLEX / HAVELS/RR Kabel/Polycab
6	CABLE GLANDS & LUGS	SIEMENS
7	POWER CABLES	Finolex/ Polycab /HAVELS
8	LIGHT FITTINGS	HAVELL'S /WIPRO/ PHILIPS
9	FAN	(CROMPTON / HAVELL'S ') (WHITE COLOUR)
10	16" WALL FAN	ALMONARD/ CROMPTON/HAVELLS/ USHA (WHITE COLOUR)
11	12"/9" EXHAUST FAN	CROMPTON / ALMONARD with double ball bearing only
12	DBS	Hager, Merlin Gerin, Legrand, GE, C & S
13	TIMER	LEGRAND Model: 649 915 / SIEMENS
14	ELECTRONIC REGULATORS	ANCHOR ROMA
15	CASING CAPPING	MODI'S, GEMINI with ISI MARK
16	PVC conduit Pipe White/grey colour FRLS pipes only.	Avon Plast, Precision, Polycab, G.M with ISI mark
17	G.I. B-CLASS PIPES (ISI)	ITC, PRAKASH
18	Telephone Wires/Cables	Delton, Finolex/ R.R Kabel (0.5 mm dia)
19	MEASURING INSTRUMENTS	A.E., IMP, MECCO, SIEMENS
20	DOUBLE RJ 11	ANCHOR ROMA / LEGRAND

NOTE: Any brands indicated under the item's specifications in the Bill of quantities will prevail over the above indicated makes. Apart from the above makes, any further equivalent make as approved by the Bank, can also be used with prior permission from the Bank and the consultant. Samples are to be approved by Bank and the Consultant if any.

COLOUR CODING: Color coding of wires to be followed strictly and all the DB boards to be named RED - Phase, BLACK - Neutral, GREEN - Earth

WARRANTY OF ABOVE ITEMS to be specified

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Certificate to be submitted by the contractor on completion of works

Format of Installation Test Certificate

(To be submitted by the contractor on completion of works)

- I This is to certify that work is carried out confirming to IE rules and code of practice.
- II Test report is under
- a Insulation resistance test
- | | | |
|-----|-----|--------|
| R-N | ___ | M Ohms |
| Y-N | ___ | M Ohms |
| B-N | ___ | M Ohms |
- b Load test
- | | | |
|-------------|-------------|------------|
| 5 A-1000 W | power point | 15 minutes |
| 15 A-3000 W | power point | 15 minutes |
- c Earth resistance for each electrode
- | | | |
|---|------------|-----|
| 1 | | ohm |
| 2 | | ohm |
| 3 | | ohm |
| 4 | -N-E Volts | |
- d Wiring continuity test
- e Earth continuity test
- f Certificate of makes of material used in the work
- g Circuit diagram
- h Certified that the electrification work has been carried out under the supervision of licensed electrical supervisor
- i Certified that the earthing plate / pipe has been verified and placed at correct depth confirming to IE rules.

Signature of Electrical Supervisor

Name:

License No.

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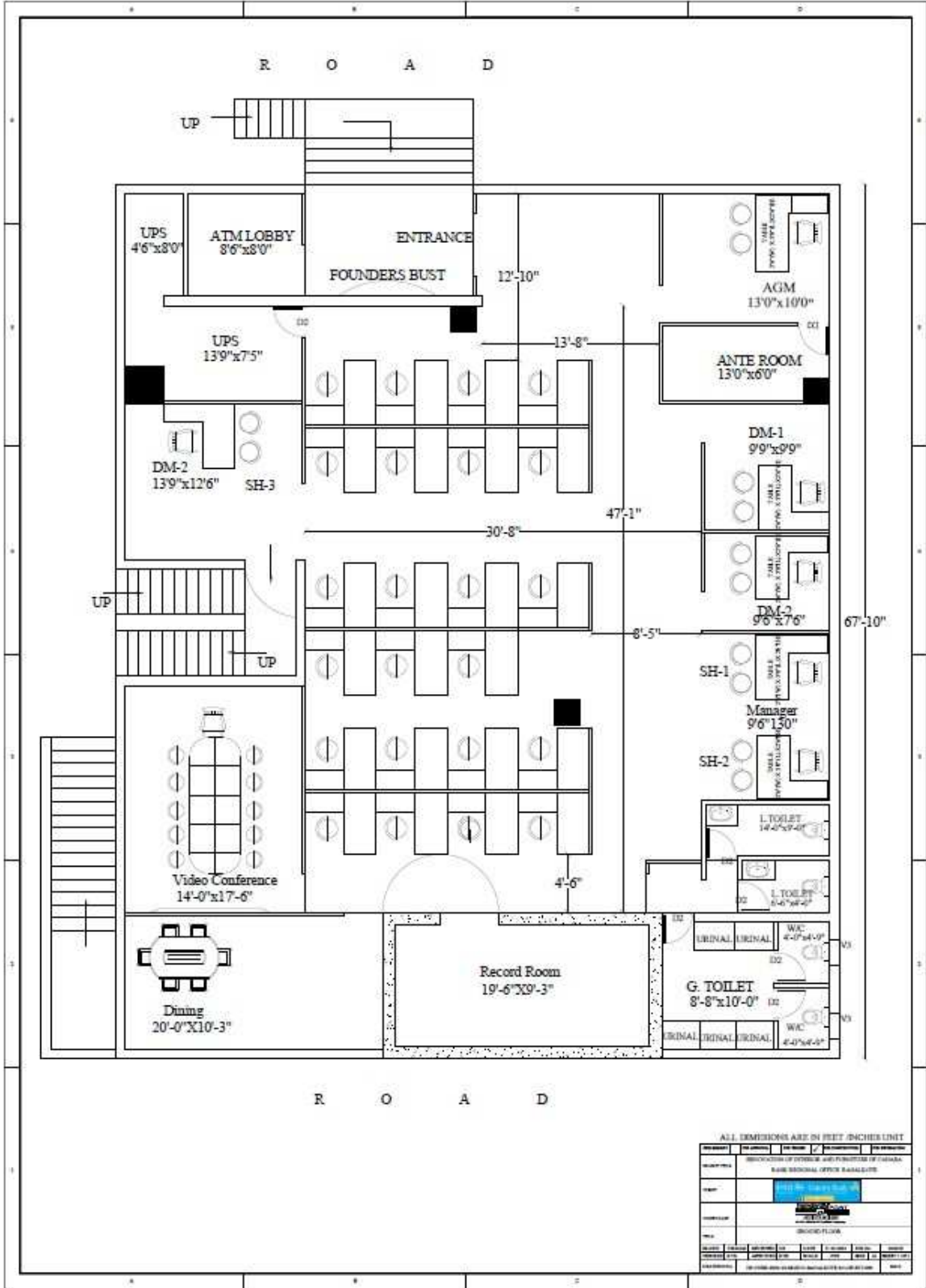
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NIT Ref. COHUB: P&E:DPJ:6925:49: 2024-25 dated 26.12.2024

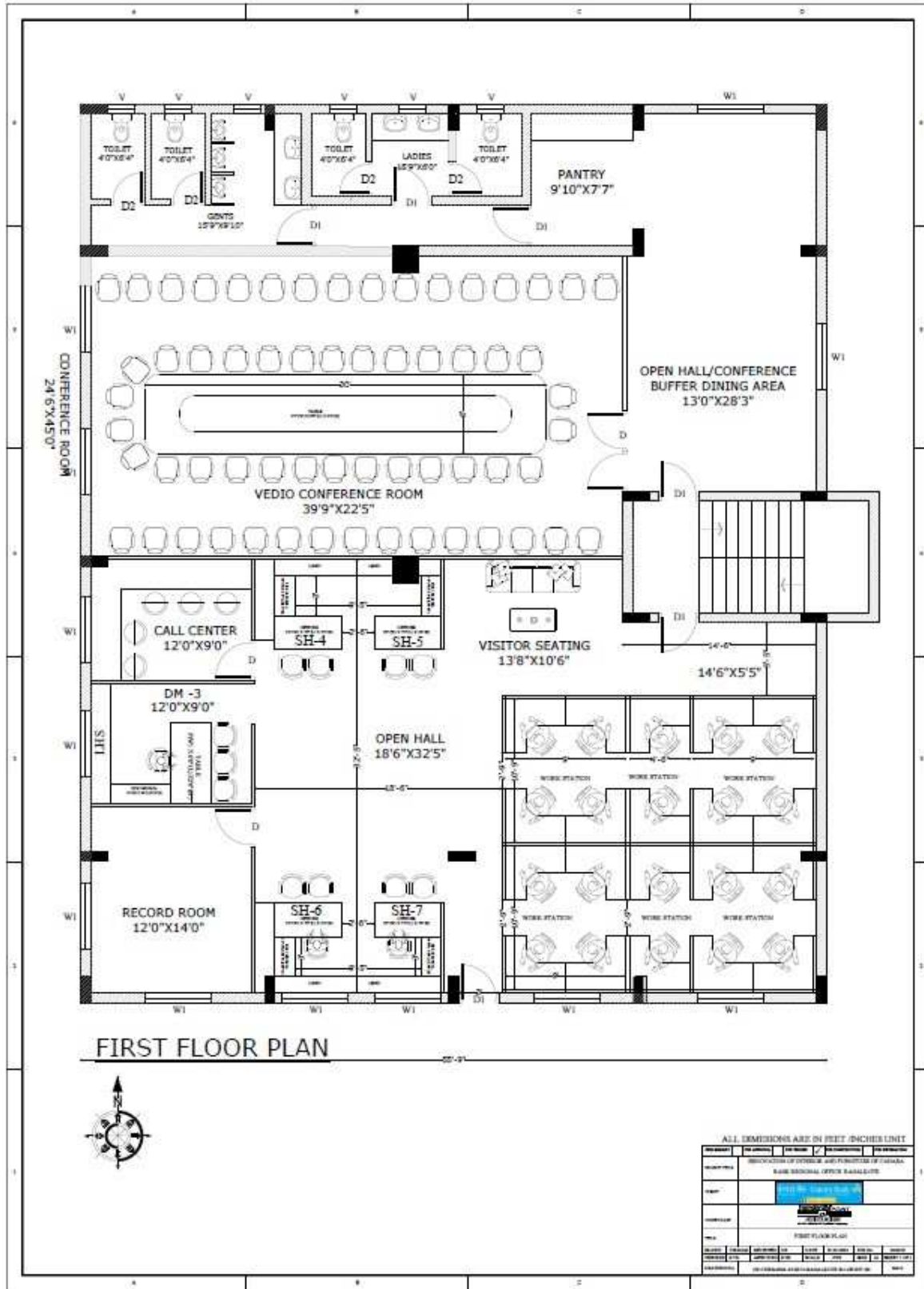


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NO	DESCRIPTION OF ITEM OF WORKS	UNIT	QTY	RATE(INR)	AMOUNT(INR)
A	POINT WIRING USING COPPER WIRE WITH SWITCH				
1	Supply and wiring adopting loop system in the existing PVC conduit/casing capping using 1100V grade, copper conductor flexible multistrand FRLS PVC insulated 2x1.5sq.mm cable confirming to the GTP, with 6Amps flush type SP control switch shall be fixed on the existing MS box, the other end of the wires shall be terminated with sufficient loose length in a PVC round block, complete for each outlet. NOTE: The length of light points where ever exceeding the specified length, the additional quantity is considered in the wiring for lighting/power circuits section.				
	Point wiring using class A materilas				
1.1	Short point upto 3mts from tapping point to outlet via switch	Pts	3.00		
1.2	Medium point above 3mts upto 6mtr from tapping point to outlet via switch	Pts	9.00		
1.3	Long point above 6mts upto 10mtr from tapping point to outlet via switch	Pts	30.00		
1.4	Two outlet in a row above 3mts upto 6mts from tapping point to outlet via switch box	Pts	5.00		
1.5	Three outlet in a row above 6mts upto 10mts from the tapping point to outlet via switchs box	Pts	2.00		
2	Supply and flush mounting powder coated metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in brick/stone/C.C wall				
2.1	1-3Way	Each	45.00		
2.2	4-5Way	Each	1.00		
2.3	6Way	Each	10.00		
2.4	8Way	Each	18.00		
2.5	10-12Way	Each	4.00		
2.6	16-18Way	Each	2.00		
3	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos of machine screws, bolts nuts etc., complete on existing metal box				
3.1	1 to 3 Module	Each	42.00		
3.2	4 Module	Each	1.00		
3.3	6 Module	Each	10.00		
3.4	8 Module	Each	18.00		
3.5	12 Module	Each	4.00		
3.6	16-18 Module	Each	2.00		
4	Supply & fixing of modular type switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS3854 and IS 1293				
4.1	6 amps one way switch	Each	65.00		
4.2	6 amps two way switch	Each	2.00		

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4.3	6 amps 3way sockets	Each	25.00		
4.4	Stepped fan regulator's- Double Pole type	Each	2.00		
4.5	16A one way switch	Each	25.00		
4.6	6/16 Amps universal sockets	Each	15.00		
4.7	32A DP switch	Each	2.00		
5	Extra length of GI pipe of class B 19mm for fan down rod	Each	6.00		
6	Supplying and fixing of 230Volts Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws.				
6.1	Ding Dong Bell	Each	1.00		
6.2	Remote	Each	1.00		
7	Supplying and fixing of 20Amps metal socket set of 2pole and earth plugs and plug top for incorporating SP and DP MCB(with MCB) . The entire plug & socket shall be mounted in powder coated metal box & wired completely	Each	1.00		
8	Supplying and fixing of metal socket set of 4pole and earth plugs and plug top for incorporating TPN MCB 32A FP MCB with plug top (Rate shall be inclusive of 40A FP MCB).The entire plug & socket shall be mounted in powder coated metal box & wired completely	Each	1.00		
9	Supplying and installation 4P metal enclosure for Master control	Each	1.00		
TOTAL OF POINT WIRING					
B CONDUIT AND CIRCUIT WIRING					
10	Supplying and fixing of PVC CASING AND CAPPING ... dia fixing on the wall or ceiling using necessary materials like bends, screws at an intervals of every 300mm etc as required.				
10.1	25 mm dia	Rmt	50.00		
10.2	32 mm dia	Rmt	50.00		
11	Supplying PVC/GI flexible conduit pipe ... mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an intervals of 300mm using NF screws and on either end of the pipe terminated completely				
11.1	20 mm dia	Rmt	50.00		
11.2	25 mm dia	Rmt	30.00		
11.3	32 mm dia	Rmt	30.00		
12	Supplying heavy gauge PVC conduit pipe 19/20/25/32/40mm dia 2/2.5mm thick confirming to IS2509 with suitable size bends, metal junction boxes adhesive paste etc., and running the conduit before concreting the slab/ clamping to truss with clamps. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary.				
12.1	19/20 mm dia 2mm thick	Rmt	380.00		
12.2	25 mm dia 2mm thick	Rmt	700.00		
12.3	32 mm dia 2.5mm thick	Rmt	50.00		
13	Supplying heavy gauge PVC conduit pipe 19/20/25 dia 2mm thick with suitable bend, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface with mesh and run with 18SWG GI fish wire run throughout the conduit wherever necessary				

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13.1	19/20 mm dia 2mm thick	Rmt	200.00		
13.2	25 mm dia 2mm thick	Rmt	125.00		
13.3	32 mm dia 2mm thick	Rmt	10.00		
	LIGHTING/ POWER CIRCUITS				
14	Supplying amf laying FRLS PVC insulated 1100V grade, multistrand copper with low conductor resistance single core wire in open or concealed wiring system with specified IS-694:1990 & confirming to GTP. NOTE: 1. Wiring for lighting circuits using 2runs 1.5sqmm and 1x1.5sqmm 2. Wiring for Power circuits for 16A plug circuits using 2runs 4sqmm and 1x2.5sqmm				
14.1	1.5 Sq.mm	Rmt	380.00		
14.2	2.5 Sq.mm	Rmt	800.00		
14.3	4 Sq.mm	Rmt	380.00		
14.4	6 Sq.mm	Rmt	125.00		
14.5	10 Sq.mm	Rmt	20.00		
15	Supplying and installing tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes				
15.1	1.5 sq.mm	Each	70.00		
15.2	2.5 sq.mm	Each	50.00		
15.3	4 sq.mm	Each	50.00		
15.4	6 sq.mm	Each	15.00		
15.5	10 sq.mm	Each	40.00		
	TOTAL OF CONDUIT AND CIRCUIT WIRING				
C	DISTRIBUTION BOARDS & MV PANELS				
16	Supplying and fixing regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting etc., Made out of 14SWG MS enclosure. Double Door				
16.1	16way SP &N	Each	2.00		
16.2	4way TP &N	Each	2.00		
16.3	6way TP &N	Each	2.00		
16.4	8way TP &N	Each	2.00		
17	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board.				
17.1	40Amps 2 pole	Each	2.00		
17.2	40Amps 4 pole	Each	1.00		
17.3	63Amps 4 pole	Each	2.00		
18	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required. confirming to IEC 60898.				
18.1	5-32A SP MCB	Each	35.00		
18.2	5-32A TPN MCB	Each	2.00		

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18.3	40-63A TPN MCB	Each	2.00		
19	Supply and installation of TPN 8 way Lighting DB (double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral. With provision for the following.	Nos	1		
19.1	S & I INPUT- 40A, 30mA 4 Pole RCBO	Nos	1		
19.2	S & I OUTPUT - 10/16/A SP MCB	Nos	18		
TOTAL OF DISTRIBUTION BOARDS AND MV PANELS					
D	ELECTRICAL FIXTURES				
20	Supply of 4'-LED PVC square batten 20W with high quality diffuser with life of 25000 hours & 70% lumen maintainence with CRI > 80. Power input: 220-240V @50Hz & power factor >0.9 along with CE approved drivers. 5 years warranty against any manufacturing defect working under standard electrical condition. MAKE: PHILIPS/ HAVELLS/ CROMPTON GREAVES	Each	5.00		
21	Supply of 2'x2'LED recessed/ surface luminaire with 36Watts system wattage, housing shall be with pressure die cast aluminium alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100v to 270v 50/60 Hz with short circuit, overload & mis wiring protection. Lumen maintainence of 70% at 5000Hrs. Injectionmoulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree celsius. Driver is on constant current driver@ 0.06A with PF>0.92 with line voltage @220-240V @ 50/60Hz, driver efficiency> 75lm/w with CRI>75 with injection moulded polycarbonate lens with < 80mm depth. 5 years warranty against any manufacturing defect working under standard electrical condition. MAKE: PHILIPS/ HAVELLS/ CROMPTON GREAVES	Each	28.00		
22	Supplying of recess/ surface mount 18watts down light luminaire made out of single piece powder coated CRCA sheet stel accomadating all electrical accessories like energy saving electronic ballast suiatable to operate on 230V, 50Hz AC supply with 18W PLL-compact flourscent lamp, prewired up to terminal block with bright anodized aluminium reflector & p5 paralite louvers with spring loaded dropped glass. MAKE: PHILIPS/ HAVELLS/ CROMPTON GREAVES	Each	18.00		
23	Supply of heavy duty Exhaust Fan sweep area: 230 MM ; Noise level: (40 - 45) dB; Fan body dimension (Length x Width x Depth): 290MM x 290MM x 200MM With bird guard to protect the fan in running condition, Air flow rate: 510 cmh , Speed: 1350 RPM , Sweep size: 230 mm , Guard: 29 Spokes. Rated frequency : 50 Hz., Powder coated metallic finish, Adjustable upward. Sturdy steel bird guard with specially designed metal blade, to protect the fan in running condition. MAKE: ATOMBERG/ BAJAJ/CROMPTON GREAVES/ ALMONARD	Each	4.00		
24	Supplying of 400mm wall fan with swing feature with remote control and all necessary clamps required to install the fan. The fand details is given below Elegantly designed fan base.	Each	10.00		

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	120 ribs guard. oscillation degree : 60°. Pull cord control for speed and oscillation on-off, Remote control option - No. Aerodynamically designed and balanced blades. Speed: 1350 RPM. Rated voltage 230 V. Air Delivery: 72 CMM. Blade: Aerodynamically designed & balanced blades ; TOP: Thermal overload protector (TOP) helps in protecting the motor in case of any high voltage fluctuation ; Guard: 120 Spokes ; Motor speeds (No.): 3 ; Noise level: 63.2 dB ; Power consumption: 50 W, Rated voltage: 230 V, Rated frequency: 50 Hz ; Items Included: Motor ,mounting accessories kit, blade, guard set, guard ring,guarantee card.				
25	Supplying and fixing of approved 5 Star brushless dc motor ceiling fan. Sweep: 1200mm. blades: 03no.s. Input: 230v. Power at max speed: 32w maximum. Warranty: minimum 2 year. Speed: 370 rpm/higher Colour of Banks choice, ceiling fan without regulators but with all other standard accessories, 3 core wire etc as per requirement.	No	5.00		
26	Supplying and fixing of modular type 2M size EME electronic fan regulator, stepped type, noiseless, humming free complete with all accessories.	No	5.00		
27	Fixing on wall/ ceiling fan of all capacities and all types to the existing hook together with supplying and fixing 5A ceiling rose, necessary length of 23/0.0076 inch PVC insulated twin twisted copper wire and wiring complete	Each	15.00		
28	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and a 5A, ceiling reose with sufficient length of 23/0.0076 inch PVC insulated twin case wire of approved make	Each	3.00		
TOTAL OF ELECTRICAL FIXTURES					
E	TELEPHONE AND NETWORKING				
29	Supply, laying and connection of high Conductivity Solid Annealed Bare Copper industrial 2 Pair 0.5 sq mm dia Telephone Cables with High Density Polyethylene Insulation, Paired, Polyester and Sheathed with High Oxygen Index, Fire Retardant, PVC Compound, Grey Outer Sheath generally conforming ITD Specification. the scope of work inclusive of all fixing accessories & laying in a suitable ISI medium PVC conduit. The scope of work extends to Supply and Fixing of modular type RJ11 Telephone outlet with anodized GI box and front plate complete as required	No	10.00		
30	Supply, installation, testing & commissioning of 20 Pair Telephone Krone DB in an MS powder coated enclosure in suitable location	Each	1.00		
31	Supplying and laying of approved make (D Link/ Comscope AMP/Finolex/Legrand) Cat - 6 category data cable as perrequirement.	Rmt	340.00		
32	Supplying and fixing of cat 6, Rj - 45 single I/O point withface plate, box and all accessories and termination of wire in the data jack. Molex/Digi-link or equalent	No	10.00		
33	Supplying and fixing of Cat 6, Rj - 45 data dual I/O pointwith mounting box, face plate and all accessories andtermination of wire in the data jack. Molex/Digi-link or equalent	No	5.00		

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34	Supply of patch cords of following lengths	No			
34.1	1 metre	No	-		
34.2	2 metre	No	-		
35	Supplying and fixing of 9U/12 U networking rack with wiremanager, power strip with surge arrestor, all accessories for installation of switch and jack panel, glass door with lock and key arrangement complete with all requirements.	No	-		
36	Supplying and fixing of additional 24 port approved makefully loaded jack panel with all accessories complete with all requirements.	No.	-		
37	Providing and laying PVC conduit of 2mm thick 25mm dia of Uniplast, VIP makes on wall/ floor	Rmt	-		
38	Providing and laying PVC conduit of 2mm thick 19mm dia of Uniplast, VIP makes on wall/ floor.	Rmt	-		
39	Charges for providing warrantee certificate from the manufacturer.	No	-		
40	Charges for testing the circuit and submitting the penta scanning report	No	-		
TOTAL OF TELEPHONE AND NETWORKING					
F	LT CABLES & EARTHING				
41	Supplying, fixing, wiring, earth electrode for grounding of lifts, Transformer, DG, sets etc using 40mm dia 2.90 thick 2.5 mtr long GI pipe with funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150 mm all-round with alternate layer of salt & charcoal from the bottem of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. The rate shall be inclusive of 8" block work around the earth electrode with plastering and 450x450mm cast iron plate with naming the earth pit and testing the earth electrode.	Each	2.00		
42	Supplying and running of 25x3mm GI strips for grounding connections, using necessary fixing materials as required.	Rmt	15.00		
43	Supplying of 3.5Core 50sqmm LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class	Rmt	16.00		
44	Labour charges for laying of 1.1 KVclass UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall/ on pole as required.				
44.1	16 to 50Sqmm on wall/structure	Rmt	30.00		
45	Supplying and fiixing of 50mm dia heavy duty cable glands suitable for UG cable of 1.1 KVclass (metal only)	Each	2.00		
46	Supplying 50Sqmm Long Barrel tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes	Each	8.00		
TOTAL OF LT CABLES & EARTHING					
G	CABLE TRAY/ RACEWAYS/ PVC TRUNKING SYSTEM				
47	Supply and installation of PVC trunking 105x50mm with single compartment including brackets, couplers for joining and corner joints with all necessary accessories and complete as required (Legrand make)	Rmt	10.00		

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48	Supply & installation of MS angel for suspending cable trays with anchor fastners & all accessories to complet installtion.	Kgs	20.00		
49	Supplying and fixing 300X50mm, 2mm thick ladder/perforated cable tray with powder coated paint on exiting MS angle support using necessary GI bolts,nuts and washer or welding as required	Rmt	10.00		
50	Supply and fixing of pre fabricated factory made ladder type cable tray. The tray shall be fabricated out of 2.5mm thick pre galvanised for indoor and hot dip galvanised steel sheet conforming to IS1079:1973 and IS513: 1994. The ladder type tray shall comprise of 'C' type side runners, bolted slotted rungs at 300mm interval. The tray shall be in standard length of 2.5m.	Rmt	10.00		
51	Supplying and installation of Rubber Mat 1Mtrx2Mtr - 10mm Thick	Each	2.00		
TOTAL OF CABLE TRAY/ RACEWAYS/ PVC TRUNKING SYSTEM					
F	SUPPLYING AND INSTALLATION OF P.A SYSTEM EQUIPMENTS				
52	Supplying and fixing Ahuja make CS - 6081 T Ceiling mounting type speaker with LMT having 8 watts (RMS) power input, 8/6/ 4 / 2.0 watts power taps on 100 volt and a frequency response of 60 - 15000 Hz complete with all accessories as per requirement.	Set	7.00		
53	Supplying, installing, testing and commissioning approved make Control desk with 5 Zone selector facility with all call / call back facility and goose neck micro phone with stand, power supply unit etc., The panel shall be made of not less than 1.6mm thick CRCA sheet powder coated in approved colour with locking arrangement.	Set	1.00		
54	Supply, installation, testing and commissioning approved make Solid state amplifiers in amplifier rack. Amplifier shall be of 600W RMS output, with complete wiring and controls, accessible from the front and with proper locking arrangement.	Set	1.00		
55	Supplying, fixing, testing and commissioning approved make 6W wall mounted loud speakers with talk back facility in stove enamelled M.S. sheet steel housing etc., all complete as required.	Set	2.00		
TOTAL OF SUPPLYING AND INSTALLATION OF P.A SYSTEM EQUIPMENTS					
65	Supplying and installation of 63A 4 pole surge protector	Each	2.00		
Total Excluding GST					

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