

**TENDER FOR ANNUAL MAINTENANCE CONTRACT FOR ELECTRICAL
AND FIRE FIGHTING SYSTEMS AT ICTS
SURVEY NO. 151, SHIVAKOTE VILLAGE, HESARAGHATTA HOBLI, BANGALORE
NORTH**

Ref: ICTS/TIFR/2020-21/SER-26

Tender Notice No: 01/AUG/2020

1. NAME OF THE WORK : Annual Maintenance Contract of Electrical and Fire fighting systems including substations at ICTS Campus, Shivakote, Hessarghatta, Bangalore North.
2. ESTIMATED VALUE PUT TO TENDER : Rs. 70 Lakhs
3. EARNEST MONEY DEPOSIT : Rs. 1,40,000/-
4. DOCUMENT DOWNLOAD PERIOD : 26th August 2020 to 28th Sept 2020
5. PRE-BID MEETING DATE & TIME : 11.30 Hrs on 16th Sept 2020
6. TIME & DUE DATE OF SUBMISSION : 15.00 Hrs on 29th Sept 2020
7. TIME & DATE OF OPENING : 15.30 Hrs on 29th Sept 2020

Tender documents will be available for download on CPP Portal and our website www.icts.res.in/tenders up to **17 00 hrs on 28th Sept 2020**.

Important Note: All bidders are requested to attend the online Pre bid meeting on 16th Sept 2020 at 11.30 hrs by joining the link given below:

Join the meeting: <https://guest.lifesize.com/5110298> (supported browser: Google Chrome)

Passcode: 162008#

Other ways to call: <https://call.lifesize.com/otherways/5110298>

Click to call from Mobile (audio only)

India: +91 22 71279563, +91 80 71279432, 000 80 00501761

Meeting extension: 5110298# Passcode: 162008#

Sealed tenders are invited (in 2 Part system) by the Electrical Engineer at the above office from experienced Class-1 Electrical Contractors for operation and maintenance of primary & secondary distribution system along with Indoor substation (11/0.415 kV) equipment, HT & LT switch gears system (like VCB,ACB,MCCB with interlocking system), DG sets (not less than 500 KVA) with

AMF synchronization panels, fire alarm system, fire fighting system etc. Agency/contractor who has done similar type of work (24hrs X 7 days basis) of AMC nature of minimum of three works, each contract value not less than Rs. 28.00 Lakhs or two works, each contract value not less than Rs. 42.00 Lakhs or one work, contract value not less than Rs. 56.00 Lakhs in the last five years period with proven technical and financial capacity possessing required infrastructure for the above work only will be considered.

Tenders shall be submitted in two parts simultaneously in separate sealed covers, superscribed as “COVER-I -Technical Bid” and “COVER-II – Price Bid”

1. **PRICE BID (Cover-II), shall be submitted in separate cover and shall not be placed in TECHNICAL BID (Cover-I)**
2. The indicative manpower is as follows :-

Supervisor	- 2 nos (Highly Skilled)
Sr. Technician	- 4 nos (Skilled)
Technician	- 6 nos (Semi Skilled)
Helper	- <u>6 nos</u> (Unskilled)
Total	- <u>18 Nos</u>

This is the bare minimum manpower requirement, to maintain the system. *However, contractors can specify the manpower deployment pattern they propose to adopt for this work after thoroughly studying the scope of the work and clearly understanding the same by attending the PRE-BID meeting. The vendors shall have all their doubts cleared in the PRE-BID meeting. It is completely the contractor’s responsibility to fix the staff deployment pattern and to fulfill the requirements of ICTS as per EIC.*

COVER - I shall contain the following:

1. **EMD** as specified above in the form of Demand Draft, drawn in favour of **International Centre for Theoretical Sciences, Bangalore**, from a Nationalised/Scheduled Bank shall be submitted. Alternatively a Bank Guarantee from a Nationalised/Scheduled Bank may be provided. No other mode of payment of EMD will be accepted. Bank Guarantee shall be valid for 6 months from the date of opening. MSEs are exempted from payment of EMD subject to furnishing of relevant valid certificate for claiming exemption as per privilege rules of Government of India.
2. Entire tender document (Inclusive of Annexure-A to Annexure-E), duly signed & sealed on every page by the contractor, along with technical information. Any deviations from the tender conditions, specifications, makes etc in Annexure -C.
3. Reference of similar completed & ongoing works, with proof in the form of upto 3 major work orders of highest value for the last 3 years.
4. Confirmation that Schedule 1 & Schedule 2 (Annexure F) is completely filled and kept in price bid.

5. Organization details, proprietorship/ ownership details along with details of organization staff matrix.
6. Valid Registration Certificate of the firm and Electrical Class -1 Contractor's & Supervisory license up to HV.
7. Annual Turnover for the previous year shall be at least 60% or more of the estimated price. Previous year's financial statement of the contractor shall be provided.
8. PF, ESI registration copies.
9. Latest solvency certificate of at least 20 Lakhs issued by the bank.
10. PAN Card and GST Registration Certificate.
11. List of major clients where works of similar nature are carried out in the last 3 years with details of value and period of Work order. Name, address and contact details of the concerned persons, and work competition/performance certificates, if tenure completed.

COVER - II shall contain the following:

1. **Annexure - F -**
SCHEDULE - 1 - Price Bid as per the given format
SCHEDULE - 2 - Commercial bid for consumable items (**optional but mandatory to quote all items**)

TENDER SUBMISSION:

Tenders shall be submitted in the manner aforementioned up to 15.00 hrs on 29th September 2020, at International Centre for Theoretical Sciences, Survey 151, Shivakote, Hessarghatta, Bangalore – North – 560 089

TENDERS SHALL BE DROPPED IN THE 'TENDER BOX' KEPT IN THE RECEPTION AT THE ENTRANCE OF ICTS.

COVER-I of the tender will be opened on the same day at 15.30 hrs in the presence of attending bidders. Opening of COVER-II (Price bid) will be intimated only to those bidders who are qualified after evaluation of Technical Bid.

THE CENTRE RESERVES THE RIGHT to verify the particulars furnished by the applicant independently and accept/ reject the tender without assigning any reason thereof. Short listing of the agencies shall be subject to thorough verification of their credentials and inspection of works carried out by them, through a Technical Evaluation Committee of experts, constituted by ICTS. Centre reserves the right to split the order based on the technical evaluation.

IF ANY INFORMATION FURNISHED by the applicant is found to be incorrect at a later stage, they shall be liable to be debarred from tendering / taking up work in ICTS.

All the intending contractors are urged to visit the ICTS Campus, in order to have a clear idea and to see the area of work and have discussions before submitting the bids.

If clarifications are sought by the contractor during the bidding period the same should be in writing. Both the clarifications from the tenderer and the response to the clarifications from ICTS should be in writing and all such correspondence should be enclosed along with **COVER-I**.

Centre Director, ICTS does not bind himself to accept the lowest or any other tender, and reserves the authority to reject any or all the tenders or to allot parts of the works to different agencies without assigning any reason thereof.

NOTE: Each and every page of the offered bid shall bear the dated signature and seal of the contractor.

QUALIFYING REQUIREMENTS AND TENDER EVALUATION

A. Qualifying Requirements:

The bidder shall meet all the following minimum prerequisites and provide documentary proof for the same in the 'technical bid'-

1. Electrical AMC work experience of three works each of minimum contract value not less than Rs. 28 Lakhs or two works, each contract value not less than Rs. 42 Lakhs or one work, contract value not less than Rs. 56 Lakhs in the last five years period.
2. Valid Registration Certificate of the firm and Class I Electrical Contractors' licence and Supervisory license up to HV .
3. Organization details, proprietorship/ ownership details along with details of organization staff matrix.
4. PAN Card and GST Registration Certificate.
5. PF, ESI registration copies.
6. Annual Turnover for the previous year shall be at least 60% or more of the estimated price. Previous year's financial statement of the contractor shall be provided.
7. Latest solvency certificate of at least 20 Lakhs issued by the bank.
8. Performance Certificates issued by clients for the services rendered by the bidder.
9. List of major clients where works of similar nature are carried out in the last 3 years with details of value and period of Work order. Names, address and contact details of the concerned person, and work competition/performance certificates, if tenure completed.

B. Vendor & Bid Evaluation:

The Vendors and their bids will be evaluated as per the table given below. All the pre-qualification requirements indicated above will be checked. Depending upon the vendors meeting all the basic

prerequisites, their bid will be further evaluated on the 'marks based' system given in the table below. The vendors / bids **scoring 75 or more marks** will be considered for 'price bid' opening.

NOTE:

1. The vendor shall score minimum 75 marks in the evaluation for qualifying for 'price bid opening'. The pre-qualification checks & marks evaluation pattern is given below.
2. Among the price bids opened, the lowest offer will be considered for further processing. No additional weightage will be given for the marks scored in excess of 75.
3. ICTS reserves the right to rearrange the pattern of marks for evaluation and revise the ceiling of qualifying marks as deemed fit in the given situation. Decision of ICTS will be final and binding on all. Aim is to have sufficient proposals to compare, in the event of less than 3 vendors scoring 75 & above.
4. Issuance of tender documents shall not automatically imply qualification of firm for bidding, which shall be determined during bid evaluation.
5. ICTS reserves the right not to accept the lowest rate quoted by a bidder and may reject any or all the tenders without assigning any reason whatsoever.
6. Any addendum / corrigendum / extension, if required, pertaining to the NIT will be posted in ICTS website only and will not be published in Newspapers. Bidders are requested to visit ICTS website regularly for any addendum / corrigendum / extension, till opening of the bid.
7. If the last date of sale of tender or date of submission of tender is declared as holiday, the due dates will be the next working day accordingly.
8. All legal suits arising out of the enquiry and subsequent letter of intent / work order, if any, are subject to jurisdiction in the Court of Law of City of Bangalore, India and no other court.

I	Pre-Qualification checklist – vendor to qualify in all the pre-requisites with sufficient proof.		
A	Registration Certificate of the firm and Class I Electrical Contractors' license and supervisory license up to HV.	Y/N	
B	PAN NUMBER / GST Registration Certificate.	Y/N	
C	Latest solvency certificate issued by the bank.	Y/N	
D	PF, ESI registration copies.	Y/N	
E	Acceptance of all terms and conditions, tender document and all Annexures duly signed on all pages	Y/N	
F	Any technical deviation indicated? If so, are they acceptable to ICTS	Y/N	
G	EMD/ Relevant certificates for exemption enclosed	Y/N	
H	Does the vendor meet the previous minimum work experience criteria?	Y/N	
I	Does the manpower deployment meet the minimum requirement indicated?	Y/N	
J	Does the firm meet all the above minimum criteria to evaluate further?	Y/N	
II	Evaluation of Vendor – Vendor having maximum experience and highest work order values among bidders will be given maximum marks. Vendors meeting the minimum requirement will be given minimum marks and additional experience and value of work orders will be given pro-rata marks.	Min. Marks	Max. Marks
A	Contractor should have a minimum 5 years' experience in AMC of electrical systems including the HT/LT substations in Government / Semi Government Institutions.	25	30
B	The contractor should have executed minimum 3 (three) works contract value of each not less than Rs. 28.00 Lakhs or 2(two) works contract value of each not less than Rs. 42.00 Lakhs or minimum 1(one) work contract value not less than Rs. 56.00 Lakhs in the last five year period. Order Copy and work completion certificate should be enclosed.	25	30
C	Minimum 2 (two) Performance Certificates from two existing clients.	20	20
D	Proposed Qualified technical staff as per tender conditions.	5	10
E	Attended Prebid Meeting	0	10
	TOTAL MARKS	75	100

Annual Maintenance Contract of Electrical and fire fighting systems at ICTS Campus, Shivakote, Hessarghatta, Bangalore North.

1. Scope of Contract

1.1 The Contractor will provide services at International Centre for Theoretical Sciences, Survey No. 151, Shivakote, Hessarghatta, Bangalore North and as per the details laid down in the following annexures:

- a) Annexure – A – Scope of work
- b) Annexure – B – General Terms and conditions.
- c) Annexure – C – Schedule of Deviations
- d) Annexure – D – Statutory Obligation.
- e) Annexure – E - Profile & Undertaking by the tenderer
- f) Annexure – F – Schedule - 1 & Schedule - 2

1.2 The details of rates and the number of personnel required for carrying out the work shall be indicated by the Contractor in the Annexure “E”.

1.3 Once the Work Order is issued, the Contractor will receive instructions from an Officer designated for this purpose (Engineer-in-Charge) or his authorized nominee and the Contractor hereby undertakes to abide by his/her suggestions/instructions, etc. as regards services covered in this contract.

2. Quality and scope of services

2.1 The Contractor shall appoint trained staff having a good bearing and maintain high standards of turnout, maintain adequate staff to ensure there is no hold up of any service for any reason whatsoever. Any deficiency in the number of staff deployed will entail penal reduction from the compensation payable as decided by the Centre. The successful Contractor as soon as the agreement is signed shall submit a list of their workmen / supervisor/ others along with a copy of the appointment order issued to them. As and when there is a change in the staff posted, a revised list shall be submitted along with a copy of the appointment order issued to the new appointee / appointees, simultaneously.

2.2 It is normally understood and agreed between both the parties that Centre will not be responsible or be liable for any laws that are in force / that may come into force from time to time in respect of personnel engaged by the Contractor and he will be solely responsible for the terms and conditions of their services, safety, health, statutory requirement, etc.

2.3 The Contractor shall depute such officers and supervisors as proposed by him, who shall be available on site to supervise the contract employees and interact on daily/weekly basis with Engineer-in-Charge regarding delivering the specified services.

2.4 It is understood and agreed that the Contractor will be held responsible for any disciplinary

matters arising out of their employees and the Contractor will take appropriate disciplinary action against those employees found indulging in any act of indiscipline in Centre's premises or in connection with the services referred to herein.

- 2.5 The Contractor will immediately replace any employee found to be unfit in any manner immediately or on receipt of advice from any authorized person in ICTS.
- 2.6 The Contractor shall maintain proper and detailed record for the job carried out by their employees and shall also maintain all records and returns as necessary for carrying out the work smoothly and as provided under the Contract Labour Act, Minimum Wages Act, ESI Act, PF Act, etc, as relevant and applicable from time to time.
- 2.7 The Contractor shall be solely responsible to comply with all legal and statutory requirements that arise out of this agreement and in respect of the employees engaged by the Contractor in fulfillment of the contractual obligations stated herein. An indicative list of these statutory obligations is at Annexure "D". It is understood and agreed that the Contractor will provide suitable uniforms with company insignia, badges/ID cards with photos and safety equipment and shoes to their employees. It is the Contractor's responsibility to have them **periodically checked medically** so as to ensure that medically fit staff only is deployed for the work.
- 2.8 a) The Contract employees should be covered under all statutory requirements like ESI, PF, etc. by the Contractor and the Contractor shall comply with all the formalities in this regard. Copy of challan and Schedule of Contract Employees for payment of ESI/PF/ELI, etc. will be furnished (whether running/monthly or final) by the contractor for reimbursing the same every month.
- b) The Contractor shall pay salary and other allowances/benefits as indicated by the Contractor in their tender and accepted by ICTS. **Such salary shall be well above minimum wages.** If there is a revision on the minimum wages, the same shall be paid by the contractor and it shall be reimbursed from the department on submission of proof of payments.
- c) The Centre will have the right to inspect/call for books/registers, documents in relation to all matters referred to, in this tender or agreed later on. The Centre will also have all rights to make recoveries from the compensation, if any, that any statutory agency imposes upon the Centre due to the Contractor's non-compliance with statutory obligations. A list of these as applicable at present is set out in Annexure 'D' attached. All the Contract employees should be covered under all statutory requirements like ESI, PF, etc. by the Contractor and the Contractor shall comply with all the formalities in this regard. Copy of challan and Schedule of Contract Employees for payment of ESI/PF/ELI, etc. will be furnished by the contractor for reimbursement.
- d) The contractor shall maintain a muster roll, wages register of all men employed by them and all other documents and submit it to the Centre on the 1st of every month for the previous month **or** as necessary for inspection. The Contractor shall provide all facilities for inspection /books / personnel on demand by ICTS or any Statutory Authority.

- e) The contractor should provide PF A/c number, ESI Card and Photo Identity Card to the contract employees posted at ICTS. This should be done **immediately** but not later than 15 days from the date of signing the joint agreement.
- 2.9 It is clearly understood and agreed upon that neither the Contractor nor Contract employees shall have any claim on employment with Centre at any point of time and this arrangement is purely between the Contractor and the Centre for specific services for the period specified.
- 2.10 The successful Contractor shall indemnify/deemed to have indemnified the Centre for all claims/losses arising out of this tender. The Contractor is deemed to have indemnified the Centre against any claim by any authority once the work order is awarded. In the event the Centre has to pay any individual, statutory body or any agency for reasons directly or indirectly attributable to this tender, the Contractor only shall pay such claim/damages and even if the Centre is called upon to pay, such damages/penalties/cost shall be recovered from the contractor's dues /amount payable or shall be paid by the Contractor on demand from ICTS.
- 2.11 The Contractor shall follow all rules as may be existing or may be framed from time to time at ICTS on all aspects covering this tender. Material movement, entry/exit of personnel, identity card, safety, etc. shall be according to procedures existing in ICTS as amended from time to time.
- 2.12 **Bid Validity:** The rates quoted shall remain valid for a period of 180 days from the date of opening of Price Bids.

3. **Tenure & Termination**

- 3.1 The contract with the Centre will be initially for one year and if the services are found to be satisfactory, the contract may be extended for **two more years (one year at a time) on the same terms and conditions**. The Centre reserves the right to terminate the Contract during the pendency of the Contract period if the performance is found unsatisfactory.
- 3.2 Except as provided in Clause 3.6 below, the Contract could be terminated by either side by giving one month's notice in writing. If the notice period is not given or if a shorter notice is given by the Contractor, the entire security deposit would be forfeited. Any other costs and / or damages incurred by the Centre to maintain the services contracted to the Contractor, on account of such short notice will be deducted from the dues payable to the Contractor, or shall be paid by the Contractor on demand if such dues fall short of such costs.
- 3.3 In the case of failure to complete the contract in terms of such contracts within the contract period specified in the tender and incorporated in the contract and if such work is got done by the Centre from any party at a higher rate the Contractor shall be liable to pay the Centre the difference between existing rate and the rate of the new Contract.

3.4 Risk Clause: Notwithstanding the other terms therein, the Centre at its option will be entitled to terminate the contract and to avail service from elsewhere at the risk and cost of contractor either the whole of the contract or any part which the contractor has failed to perform in the opinion of the Centre within the time stipulated or if the same performance is not available, the best and the nearest available substitute thereof. The contractor shall be liable for any loss which the Centre may sustain by reason of such risk in addition to penalty.

3.5 Insolvency and breach of contract: The Centre may, at any time, by notice in writing summarily terminate the contract without compensation to the Contractor in any of the following events:

(a) If the Contractor being an individual or a firm, if any partner in the contractor's firm shall be adjudged insolvent or shall have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition under any insolvency act for the time being in force or make any conveyance or assignment of his effects or enter into an arrangement or composition with his creditors or suspend payment, or if the firm be dissolved under the Partnership Act, or

(b) If the contractor being a company shall pass a resolution or the court shall make an order for the liquidation of its affairs or a receiver or manager on behalf of the debenture holders shall be appointed or circumstance shall have arisen which entitle the court or debenture holders to appoint a receiver or manager, or

(c) If the contractor commits any breach of contract not herein specifically provided always that such determination shall not prejudice any right of action or remedy which shall have then accrued or shall accrue thereafter to the Centre provided also that the contractor shall be liable to pay the Centre for any extra expenditure he is thereby put to but shall not be entitled to any gain on re-tender.

(d) In the event of inadequate or unsatisfactory performance of duties by the Contractor, the Centre shall have the right to bring to the notice of the Contractor the default (s) on their part and the Contractor shall ensure that the said default (s) is / are not repeated and/or are duly remedied, within a period of three days from the receipt of the said notice. Failing such remedial action, or in the event of the said default (s)'s being inadequately corrected, the Centre shall have the right to immediately terminate the agreement.

3.6 Notwithstanding any other clause herein, if there is any act or omission by the Contractor or the Contract employees which jeopardizes the safety / security of the Centre including, but not limited to :

a) Theft or pilferage of property of ICTS

b) Fire, flooding, breakage or damage

c) Violence or physical attack on the Campus

d) Any act or incident which may prove detrimental to the interests of ICTS - the contract would be terminated without any notice. Further, the Contractor would be levied penalties, as appropriate by the deemed authority. The decision of the Centre Director shall be final in such matters.

4. Payment Terms:

- 4.1.1 The contractor shall submit bills after the completion of every calendar month and normally payment will be released within 15 working days from the date of submission of bill, if the bill is complete and correct in all respects and in accordance with the terms and conditions of the contract. All payments will be made after deduction of taxes and duties at source as applicable from time to time.
- 4.1.2 The monthly bills submitted by the contractor shall be only for actual salary, allowances, uniform content and margin. The other benefits like PF, ESI, ELI etc., can be claimed every month separately with proof of documents.
- 4.1.3 PF, ESI and ELI will be reimbursed to the contractor only on production of registration No./ ESI card/payment of ELI premium.
- 4.1.4 **Bonus:** Bonus shall be payable by the contractor to his contract employees once in a year before Diwali or when a contract employee's service is discontinued. The amount of bonus payable is 8.33 % subject to a maximum of Rs. 6,999/- per annum.
- 4.1.5 The monthly running bill of the Contractor will become payable at the end of each month on submission of a monthly claim to the Accounts Officer, and on due certification by the Engineer-in-Charge of satisfactory services against the claim. The Contractor's payment will be released only after disbursing the salary to contract employees every month.
- 4.1.6 The Engineer-in-Charge is authorized to deduct any amounts as determined by the Centre Director from the amounts due to the Contractor for any deficiency in services, provided by the Contractor.
- 4.1.7 Payments to the contract employees shall be transferred to the bank accounts of the **contract employees' by the 7th of the succeeding month.** The Contractor shall notify all his employees / workers of this date in their appointment order, and follow this very strictly, whether the Centre has paid the Contractor's bill or not. The proof of payment of salary and all other benefits such as bonus and overtime to the contract employees shall be submitted to accounts along with the monthly bills.
- 4.1.8 No claims will be entertained in respect of any discrepancy or defect or short claim if such demand is not made within 90 days of payment of the final bill.

4.2 Security Deposit:

The person/persons whose tender(s) may be accepted shall permit ICTS at the time of making any payment to him for work done under the contract to deduct a sum at the rate of 10% of the gross amount of each running bill till the sum along with the sum already deposited as earnest

money, will amount to security deposit of 10% of the tendered value of the work. Such deductions will be made and held by ICTS by way of Security Deposit unless he / they has / have deposited the amount of Security at the rate mentioned above. Alternatively, a Bank Guarantee from a Commercial Bank for 10% of the contract value may be furnished for the period of agreement with a 3 months grace period.

Security Deposit will be released only after the completion of the defect liability period of 3 months after the date of completion of the contract.

Security Deposit will not be refunded till clearance certificate from labour officer is obtained by Contractor. However, if there is genuine difficulty to obtain a clearance certificate, the Engineer – In – Charge will make a reference to the Labour Officer before releasing the Security Deposit. If no reply is received within a reasonable period, say 1 month from the date of such reference then Engineer-In-Charge may make his decision to release based on his discretion.

4.3 It is important for the Contractor to note that the rate quoted shall be inclusive of all taxes and duties/escalation and shall remain valid for the period of the agreement, i.e. 3 years from the date of Work Order. Any increase or decrease in the rates shall be only in respect of statutory duties / levies and such claims shall be valid only with adequate documentary evidence. Any decrease in the duties/levies during the period of agreement, shall entail corresponding reduction in the contract amount. If no details or break-up of taxes, duties/levies, etc. are indicated, it will be assumed that the quote submitted is inclusive of all taxes/levies/duties, etc.

4.4 The Contractor shall pay any claim made by the Centre for any deficiency (both tangible and intangible) in service. Such amount may also be deducted from bills payable to the Contractor. It may be noted that the Centre shall have the right to forfeit the Security Deposit in full or part for any due/damages caused by the Contractor. If the Security Deposit or outstanding bills of the Contractor is found inadequate, then such monetary recoveries shall be effected from any amount payable to the Contractor against this or any other contract until the dues of the Centre are fully settled. If the claim of the Centre could not be met in this manner, the Contractor shall pay up all such claims if a demand is made by ICTS.

5 Safety, Security and Insurance

5.1 The Contractor shall follow all security rules of the Centre and instructions received from time to time regarding personnel identity cards, material movement, etc, of the Contractor.

5.2 During the pendency of the agreement, the contractor shall be liable fully to compensate all concerned for any loss, damage of construction of works, construction, plant & machinery, person, property, etc. including third party risks arising due to causes attributable to the agreement. The decision of the Centre Director will be final & will be binding on both parties.

The contractor shall take Employees Liability Insurance of prescribed value for their employees. It must adequately cover all employees/workers under the Workmen Compensation

Act, 1928 as amended from time to time. Before starting the work, the Contractor shall produce the original insurance policy and the license of the workers where applicable to the Centre.

6 Miscellaneous

6.1 The work mentioned in the schedule is only indicative. The Centre reserves the right to increase or decrease the quantum of work. The contractor shall execute the work on the same terms and conditions and rates throughout the period of agreement.

6.2 The contractor or his supervisor shall meet the designated Officer of the Centre every day to receive the details of issues / complaints to be attended and after attending to these complaints, a report on the same has to be submitted to the concerned Officer.

7 Dispute and Resolution

7.1 Any dispute or differences that may arise between the parties shall be referred to the sole arbitration of the Centre Director or his nominees and the Contractor shall have no right to object to the appointment of the Director or his nominee as the sole arbitrator. The decision of the arbitrator shall be final and binding on the parties. The venue for arbitration shall be Bangalore and no other place. The provisions of the Arbitration and Conciliation act, 1996 as / amended from time to time shall apply. The courts in Bangalore shall have exclusive jurisdiction to deal with any or all disputes between the parties.

8 Primacy of Documents

The tender documents, subsequent communication exchanged, the work order and all annexures shall be part and parcel of this agreement. If there is any discrepancy between the above documents, following order of primacy will apply: any communication issued after the work order, any pre-order correspondence as accepted jointly, followed by work order, tender documents and annexures thereof, i.e. tender documents and annexures have least primacy.

9 Amendments to Work Order / Agreement:

Any amendment to the Work Order/agreement shall be valid only if both parties have agreed to such amendment(s) in writing duly authenticated by authorized personnel of both parties.

For and on behalf of International Centre for Theoretical Sciences

Administrative Officer

ANNEXURE - A
I- SCOPE OF WORK

Scope of Work for Annual Maintenance Contract of Electrical systems including substations at ICTS Campus, Shivakote, Hesaraghatta hobli, Bangalore North (24Hrs X 365 days)

General Guidelines for Quoting the Tender

ICTS has 76,500 Sqft of Academic, Seminar Room space, residential area, Utility Buildings, Sports and Dining complex, Pump houses, Playgrounds etc., and associated Electrical, Air conditioning, Fire Alarm, Fire fighting Systems, Sewage Treatment Plant and Water Sump Tanks. The Electrical work has been done by M/s J M C and Air-conditioning by M/s JMC, M/s Associated Engineers & M/s Vertex Pipeline. There is also an off campus hostel and a study center in IISc. The Scope of work includes (but not restricted to) the following.

ICTS has critical requirements for Electric power and Air-Conditioning. In no case, outage of power for more than 3 minutes (for critical areas) is acceptable.

Hence, the essence of this contract is to achieve ‘Zero Breakdown’. All efforts are to be made with up to date maintenance in achieving this, by using predictive and proactive maintenance techniques at times, and, by strictly adhering to preventive maintenance practices and schedules. Only Class-1 certified electrical contractors who have carried out similar works with good track records shall be considered for engagement.

Contractors shall engage and deploy experienced technical staff, who have experience in troubleshooting to meet these kinds of requirements and handling power shutdown situations. So engaged supervisors / technicians shall have the ability to read continuous power and control circuit drawing of 30 pages or more, able to do troubleshooting and rectification. The detailed scope of work is as follows;

1. Operation and maintenance of 11 KV substation of 1500 KVA capacity.
2. Operation and routine, preventive and breakdown maintenance of 11KV indoor H.T. Panel, Protective and control devices.
3. Operation and maintenance of 11 KV Ring main unit (ABB Make).
4. Operation and routine, preventive and breakdown maintenance of LT PCC and Distribution panel, Main Panel, Main Distribution Boards, LDB's, PDB in A&R Building, residential quarters, Store Buildings and other places in ICTS and associated off campus hostels along with study center at IISc.
5. Routine and preventive maintenance of electrical switchgear and drives, pertaining to STP and water supply from 4 to 6 lakh litres storage tank.

6. Operation and routine, preventive and breakdown maintenance of 2 Nos. 1250KVA 11KV/433V transformers and controlling/protective accessories.
7. Operation and routine, preventive and breakdown maintenance of 500 KVA DG sets-2 Nos, 100 kVA D.G & Fire Fighting D.G with AMF panels including fuel supply & maintenance of controlling/protective accessories.
8. Operation and routine, preventive and breakdown maintenance of Battery banks.
9. Operation and routine, preventive and breakdown maintenance of Bus Ducts.
10. Operation and routine, preventive and breakdown maintenance of Capacitor Banks.
11. Operation and routine, preventive and breakdown maintenance of HT, LT cables & Wirings.
12. Operation and routine, maintenance of 7 no. Passenger Lift (Johnson).
13. Operation and routine, preventive and breakdown maintenance of Pump Houses.
14. Operation and routine, preventive and breakdown maintenance of Lighting & Power Distribution Systems.
15. All the accessories and spares related to the above equipment have to be supplied and used during maintenance, which shall be paid extra.
16. Operation and routine, preventive and breakdown maintenance of the following Lighting and heating systems.
 - a. Street Lights & Flood Lights : approx. 100 Nos.
 - b. Building Light fittings : approx. 3000 Nos.
 - c. Ceiling fans : approx. 550 Nos.
 - d. Exhaust Fans : approx. 200 Nos.
 - e. Geysers : approx. 150 Nos.
 - f. All related powerpoints : approx. 2500 Nos.
17. Operation and maintenance of safety devices and earth pits.
18. Operation and maintenance of Diesel Sump tank and pumps.
19. Upkeep and emergency operation of Fire Extinguishers.
20. Maintenance of electric switchgear and drives for Basement sump pumps, Rain water pump motor and submersible Borewell motor and STP motors.
21. Liasioning with BESCOM and Electrical Inspectorate, for HT cable breakdown, and any other works related with BESCOM.
22. Operation of wind turbines and its maintenance.
23. Operation and maintenance of a Solar panel of 32 kWp capacity.
24. Operation and maintenance of elec. equipment in ICTS off campus hostel and Study centre.
25. Documentation

26. Fire alarm and Fire fighting system:

- a. Continuous monitoring and debugging of DECAM station (Alarm monitoring system)
 - b. Operation and Maintenance of Extinguishing panels (Control for automatic fire protection equipment)
 - c. Operation and maintenance of Gas/sprinkler (Automatic fire protection equipment)
 - d. Charger/Battery (Power supply equipment)
27. **Addition and Alteration jobs:** All addition & alteration jobs have to be carried out as per requirement at the campus. **No staff in regular shift duties (I, II, III and General shift) shall be used for these works.** If shift staff are used (allowed only in emergencies), only material supply charges will be paid for such executed works.
28. Any additions or alterations made in the system during the tenure of this contract (whether by the AMC contractor or any other firm or by ICTS), have to be maintained by the contractor.
29. All small fabrication works, repairs, servicing of machines / equipment / parts therein shall have to be carried out by the contractor within specified time. Contractor shall never say 'no' to any of the requirements of ICTS, which is in the area of AMC's technical services, as found reasonable to be entrusted onto the contractor by Engineer In charge (Electrical). Reasonable amount shall be paid against bills for such works as certified by Engineer In charge (Electrical)
30. All fire alarm calls and other related functional requirement calls of ICTS shall be attended and followed up in the best interest of the centre and its activities.
31. While carrying out any of the works, if the dust is generated / the same flies and settles in the surrounding area, the same (dust) should be thoroughly cleaned. Vacuum cleaner and wiping materials shall be used in cleaning. If any marking, scars are seen, the same to be neatly wiped off. All attempts to be made in avoiding dust / dirt / markings etc., while working.
32. Providing all kinds of labour and the expertise required to attend to the above work is included in the scope of work. However, consumable, workshop expenses, new addition and alteration work will be paid extra as per actual rate or agreed rate as applicable.

Special Conditions:

1. All works to be carried out in accordance with relevant Indian Standards and as per Indian Electricity rule as amended. The contractor has to obtain necessary clearance from Electrical Inspectorate. Panels, Fittings, Equipment, Systems etc., all the components, accessories, Sub-Assembly, assemblies etc. which are attachments or parts needed for the purpose. Any other work which is incidental or part of the above, but not specifically spelt out will also be included in the scope.

2. To carry out the above job the contractor has to make his own arrangements for tools, tackles and measuring equipment, measuring meters, safety and protective devices for carrying out the work.
3. ICTS is a research institute and has critical power requirements. Please note maintenance should be in such a way that power failure should not be more than 3 minutes in any case.
4. For some of the emergency load points power availability has to be monitored round the clock.
5. Contractor will ensure that the deployed staff should have basic qualifications and are capable of handling work as stipulated in scope of work. Contractors should deploy electrical staff having experience in handling such power shutdown situations and have ability to read continuous drawing of 30 pages or more and capable of troubleshooting and rectification.
6. As the work involved is quite specialized and continuous monitoring is required, absenteeism of the contractor's employees will not be tolerated. **The Electrical Engineer is authorized to make penal deductions in the bills for the absenteeism and non-compliance of the work.** The contractor will ensure proper supervision all the time. In case of deficiency, a penalty will be imposed.
7. It is presumed that contractors will deploy skilled manpower as required. All the labour and expertise are included in the scope of work. No extra payment will be made for carrying out wiring work, routine breakdown and preventive maintenance.
8. All the breakdown calls should be attended immediately. In case frequency / work demands more manpower, Contractor will arrange additional manpower, at no extra cost, so as not to disturb the research activities.
9. It is fully the contractor's responsibility to deploy a qualified Supervisor, Sr. technicians and Technicians & helper with relevant Qualifications, License, hands on experience mentioned in eligibility criteria to handle electrical, Fire alarm System and Equipment specified in the scope of work. They should be well conversant with Indian Standard, Indian Electricity Rule and Acts as applicable and should have knowledge of electrical and Industrial safety practices.
10. Contractor will ensure consistency of work and workforce, correct troubleshooting, good workmanship, follow all safety procedures and will make all necessary efforts to maintain a healthy environment and reliable services.
11. It is purely the contractor's responsibility to get his staff acquainted with the site condition, operation and maintenance procedures, equipment details, safety devices, Scope of work etc.

12. Contractor shall depute adequate number of staff to carry out routine work, wiring work, additional project work, attending fuse call, preventive and breakdown maintenance so as not disturb research activity.
13. Minimum wage of the staff should not be less than minimum Wage Act applicable to the respective category/experience. Contractor will submit the details of minimum wages as per Minimum Wage Act, as applicable to the respective category/Experience at the time of submission of Tender bid.

SCHEDULING

In a broad manner, the AMC work can be scheduled as follows (All at no extra cost)

A) ANNUALLY

1. Preventive maintenance work and servicing of 5 Nos. of 11 KV, VCB panels (Schnieder make) as per manufacturer's recommendations / standard practice, including servicing of VCB and all other panel accessories, updating of relevant records.
2. Preventive maintenance work on HT bus-bar system, updating of relevant records.
3. Preventive maintenance work and servicing of 6 Nos. of LT ACB panels as per manufacturer's recommendation / standard practice, including servicing of ACB and all other panel accessories, updating of relevant records.
4. Preventive maintenance work on LT bus-bar system, PCCS, SFUS etc., updating of relevant records.
5. Preventive maintenance work on 2 Nos. of 1250 kVA, 11/0.433 KV OLTC of transformers
6. Protective relays testing.
7. Preventive Maintenance of the 8 Nos. of RMU for H.T line.

B) HALF YEARLY:

1. Oil BDV testing of Transformer oil of both main tank and OLTC tank, which could be paid extra at agreed prices, updating of relevant records.
2. Earth resistance measurement of all the Earth electrodes of ICTS (about 60 Nos.), at no extra cost, updating of relevant records.

C) QUARTERLY:

1. PDBs and LDBs and associated ELCB checking, maintenance and recording.

D) MONTHLY

1. Billing on residential area, guest house, hostel and any other energy meters and submitting the same to the concerned.
2. Checking, fitting, cleaning and fault rectification and recording of following:
 - a. Street and security lights within the campus and in the road leading to campus (77 W Street light)
 - b. Periphery lights
 - c. Path way lights
 - d. Lights and fans in canteen buildings and cafeteria
 - e. Lecture hall and seminar hall lights
3. Common area lights of B1,B2,B3,B4,B5,B6,B7,B8,B9,B10 and B11 Blocks and the open space lighting.
4. Contractor's running spares makeup and list submission.
5. Battery charger panel testing and recording.
6. Load current record of each LT feeder from sub-station.
7. Capacitor bank load current recording.

E) WEEKLY:

1. Checking of rainwater sump pumps in summer and winter (December to April) and taking corrective action.

F) DAILY:

1. Operation and maintenance of Electrical systems at HT & LT levels having source change-over systems (between BESCOM and standby DG set sources), protection, control and auxiliary equipment.
2. Daily test running, A-check, operation and maintenance of standby DG source in the event of BESCOM supply failure and reverting to BESCOM supply on its resumption (ensuring that the supply is stable) Hourly logging of system parameters and attending to all rectification works.
3. HT yard inspection and recording of BESCOM meter readings.

4. Monitoring of all emergency loads (electrical and air-conditioning) and recording of system parameters and condition. Necessary corrective action to be taken, if things are not found normal.
5. Checking of rain-water sump pumps in the rainy season (May to November) and taking necessary corrective action.
6. Checking of battery charger and battery condition of protective system batteries and DG set batteries, recording the relevant parameters.
7. Diesel stock checking and recording.
8. Updating and maintenance of all other registers.
9. Breakdown maintenance and alteration works (with special importance to critical areas, labs, lecture halls, seminar halls).
10. Attending any other work as entrusted.

Note: These are the tentative works, There may be also others works as per Engineer- in-Charge during the emergency/breakdown situation which should be also supported by the manpower provided by the vendor without any extra cost.

PERSONNEL TO WORK AT ICTS:

The contractor has to manage and execute all the works entrusted, through a dedicated supervisor by deploying the required manpower.

The contractor, after studying and understanding / gauging the requirement of ICTS, shall fix a staff pattern for regular routine works round the clock and general shifts at his/her discretion and strictly adhere to it (which may increase during exigencies). The Contractor should indicate the No. of staff / category wise, proposed to be deployed as indicated in the form of an undertaking. If required, the staff may be deployed on a shift basis (3+1 shifts per day basis with reliever for each category). These staff members shall carry out the works as per the plans & schedules in consultation with the concerned engineer of the department. These staff members shall also carry out all other works as entrusted by the concerned engineer pertaining to Electrical related work of ICTS and shall never say 'no' to any of the relevant requirements of ICTS.

It is fully the responsibility of the contractor to deploy qualified Senior. Technicians with hands on experience, relevant License/permits & wiring license to handle electrical equipment, Fire alarm system equipment, Lifts etc., as applicable. They should be well conversant with Indian Standards, Indian Electricity Rule and act as applicable and should have knowledge of electrical and Industrial safety practices. The minimum requirements are as follows.

Currently, to maintain the existing Electrical systems, the following workforce is envisaged.

Supervisor	- 2 nos (Highly Skilled)
Sr. Technician	- 4 nos (Skilled)
Technician	- 6 nos (Semi Skilled)
Helper	- <u>6 nos</u> (Unskilled)
Total	- <u>18 Nos</u>

This is the bare minimum manpower requirement, to maintain the system. *However, contractors can specify the manpower deployment pattern they propose to adopt for this work after thoroughly studying the scope of the work and clearly understanding the same by attending the PRE-BID meeting. The vendors shall have all their doubts cleared in the PRE-BID meeting. It is completely the contractor's responsibility to fix the staff deployment pattern and to fulfill the requirements of ICTS. The figure mentioned above is indicative only.*

The following are the qualification & experience prerequisites of the staff to be deployed:

Supervisor: Engineering in Electrical with 2 years' experience/ Diploma in Electrical with minimum 6 years' experience/ ITI with minimum 14 years' experience in the relevant field/ knowledge and experience in substation of 500 KVA is required. Experience in vacuum and Air circuit breaker, DG operation and transformer maintenance is mandatory. Knowledge of underground cable fault location etc is necessary.

Sr. Technicians: Diploma in Electrical with 2 to 5 years' experience/ ITI with minimum 4-6 years' experience in the relevant field, mainly substation operation and maintenance. Knowledge of operating panels located at different locations, troubleshooting etc is necessary.

Technicians: ITI with 3 to 4 years' experience with NCVT Apprentice with valid wireman license or higher degree with 1-2 year of experience.

Helper: Minimum SSLC passed (wireman license is added advantage)

***Note:** All staff proposed to be deployed by the vendor shall be examined and approved for such deployment/replacement by the Engineer in Charge.

The contractor has to provide the following mandatory enlisted items of ISI standards to each deployed staff at no extra cost for workplace safety.

Table - Uniform & PPE Kits

S No.	Item Description	Quantity
1	Uniform	2 Sets per year
2	Electrical Safety Shoes	1 Pair Per Year
3	Transparent Safety Goggles	1 Pair Per Year
4	5kV Grade L.T Gloves	1 Pair Per Year
5	Mechanical hand gloves	1 pair once in 6 Months
6	Inhalation Mask	1 per Month
7	Hand Nerve Safety Cover	1 Pair Per Year
8	Reflective Jacket	1 in 6 Months
9	PVC ID Card(Computer printed)	1 per Year

If any of the staff members appointed by Contractor is found to be ‘not competent’, he has to be replaced by a right person within a stipulated time as instructed by Electrical Engineer- In-charge, ICTS.

All the relevant documents pertaining to staff deployed, like copies of job appointment order with the contractor, address proof, photocopy of ID card etc., and other details as sought shall be provided to ICTS, by the contractor under his responsibility for the correctness.

Wages of the staff deployed should not be less than that mentioned in Minimum Wage Act applicable to the respective category/experience, as on date. The ESI, PF, ELI, bonus etc., labour law, other rules and norms as found required for contracts of this nature should be met. The same details shall be submitted along with technical bids.

In no case, the contractor or his/her employees shall claim job / employment with ICTS. No transport facility shall be provided for the contractor or his employees.

It is purely contractor’s responsibility to get his staff acquainted/trained with the site conditions, operation and maintenance procedure, equipment detail, safety devices, scope of work etc.,

In case of delay, repetition of work, non compliance, inadequate staff etc., penalty will be imposed as per the clause mentioned.

1. Contractor must visit the site, understand the site condition, type of work involved, availability of specialized or general equipment, tools etc., for carrying out works listed herein. You may contact an Electrical Engineer or his nominee for this purpose.
2. Contractor should have class-I Government Electrical Contractor License, supervisory license up to HV, PF, ESIC, labour license and experience in similar fields as mentioned in scope of work.
3. For carrying out the above job the contractor has to make his own arrangements for men, tools, tackles, testing and measuring equipment, safety and protective gear/devices for carrying out the work.
4. Running the system under abnormal conditions or in risky circumstances will attract penalties.
5. Contractor will be responsible for any act of sabotage, misdeed, indiscipline, and negligence on the part of the contractor or his employees. Penalty or legal action, as decided by the Director, ICTS shall be imposed on the contractor.

Penalty Clause:

- a) **Absenteeism:** In case of absence of any staff, penalty will be imposed at double the rate of wages or salary for the day he remains absent.
- b) **Non- Compliance of work:** In the event of failure of compliance of awarded work in stipulated time penalty will be imposed as per double of actual expenditure incurred in attending to the same by another Agency.

Any accident due to negligence in following safety procedures is purely the responsibility of the Contractor. Department is not responsible for any accidents/damages/deaths. Safety of all the staff of the Contractor is the sole responsibility of the Contractor.

Contractor shall submit a staff pattern & general scheme to carry out the above work along with the bid.

TESTING, MEASURING EQUIPMENTS, TOOLS & TACKLES:

All the tools required for carrying out the work stipulated in this document shall be provided by the Contractor at site with no extra cost/charges. But, the following minimum is a must at all times:-

All the Senior Technicians/Technician should be given the following:

1. One test lamp set (3ph. & 1 Ph.)
2. One screwdriver (910) with insulated handles.
3. One line tester inbuilt screwdriver set equivalent to taparia
4. One combination plier, 500V grade with insulated handles.
5. One live line tester, 500V
6. Wire Stripper
7. Knife for wire skinning
8. Nose Plier
9. Tool kit Pouch
10. Continuity Tester

Note: All above mentioned tools and accessories should be of standard make.

Following calibrated and well maintained instruments should be available at site:

1. AC/DC tong testers/Clamp meter - 2 Nos
2. Multimeter - 2 Nos
3. 500V Digital Megger / IR tester with kit - 1 Nos
4. Earth resistance measurement instrument (0.1 Ohm LC) with kit -1 Nos
5. Phase sequence meter- 1 Nos.
6. Battery Impedance Tester -1 Nos

Note: All above mentioned tools and accessories should be standard make.

Following tools should always be available at site:

1. 6-7 to 30 – 32 size 9 metric 0 double end open spanner- 2 Set
2. 6-7 to 30 – 32 size (metric) double end ring spanner- 2 Set
3. Insulated adjustable wrenches (12 inch)- 2 Nos
4. 0.5 to 16 sq.mm hand crimping tools- 2 Nos
5. Allen keys inch/mm- 2 Set
6. Box Spanner 6-7 to 30 – 32 size- 1 Set
7. Star screwdriver set- 1 Nos
8. Flat Screwdriver set- 1 Nos
9. Heavy Duty Star & Flat Screw Drive- 2 Nos Each
10. Hexa Frame- 1 nos
11. Two Nos. of hammers (1lb & 2lb)- 2 nos each
12. One soldering gun with lead & flux - 1 set
13. Impact electric drill machine with drill bits (up to 13mm drill bits for SS grade)-1 set
14. Hammering Electrical drill Machine with bit (Up to 25 mm)- 1 set
15. 15kV grade Hand gloves- 2 Pairs

All these shall be suitably kept at site, with contractors own security arrangement.

NOTE: Brief details and general guideline of the above works are given in Schedule- I

ANNEXURE – B

GENERAL TERMS AND CONDITIONS OF CONTRACT

Note:

1. The employees/ workers employed shall be trained and experienced to handle the services as per the Scope of work mentioned in the Annexure 'A'. If such experienced hands are not available, either because the service is extremely specialized and only in house training is possible, at least a certain percentage of employees/workers shall be experienced / trained who shall be able to impart training / expertise to others.
2. The Contractor shall provide the name and details of his personnel. A list of all the names shall be submitted at the beginning of the contract, along with a copy of each appointment order and whenever there is a change. No personnel will be changed unless ICTS has asked for it or without advance approval of ICTS.
3. The Contractor shall ensure that no contract employees nor anyone from his side use ICTS transport to come to the work spot or return. The Contractor shall use emergency services like medical help and emergency vehicles of ICTS in the event of any accident or emergency to his employees, though all responsibility for such accidents and any injury / death and or loss / damage will fully rest with the Contractor.
4. At any point of time, there must be a minimum of 90% workers attendance per day. In any case 100% daily attendance is to be ensured. Any absence or shortage beyond this may be managed by giving over time; shortage or absenteeism beyond this percentage will be penalized including termination of the contract. Payment will however be restricted to the actual number of people as physically provided in each month.
5. The Tenderer must indicate the deviation in Annexure – C, with reasons thereof and only if such deviation (s) is/are part of the work order issued by ICTS, will the deviation (s) become part of the agreement.
6. The rates quoted shall be valid for **3 years from the date of Work Order followed by joint agreement.**

ANNEXURE – C
SCHEDULE OF DEVIATIONS

Sl. No.	Requirement of the Centre	Sl. No. As per schedule	Deviation Proposed

Name and Address of the Tenderer

Signature of the Tenderer

ANNEXURE – D

STATUTORY OBLIGATIONS:

The Contractor will strictly observe and follow the following statutory regulations/acts as well as any new rules / changes as applicable, during the period of this contract. He shall be solely responsible for failure to fulfill these statutory obligations. The successful bidder shall indemnify / is deemed to have indemnified ICTS against all such liabilities which are likely to arise out of the Contractor's failure to fulfill such statutory obligations. All documents, registers pertaining to this contract shall be maintained meticulously and shall be provided periodically for inspection. The salient features of the statutory regulations/acts are listed below and it is the responsibility of the selected Contractor that these regulations/acts and their amendments from time to time are strictly adhered to in totality. Even if the Contractor appointed for this contract may be exempt from any or all of the following employee-friendly legislation, it is incumbent on all Contractors to cover all their employees / workmen covered by this tender with these covers / benefits.

1. The Contract Labour (Abolition & Regulations Act, 1970):

The Contractor shall obtain and produce a license from the Labour Commissioner's office. They will maintain and submit to us for inspection on demand such records as Muster Roll, Payment Register, Advance Register, Fines Register, etc.

2. Payment of Wages Act:

It is necessary that the Contractor's employees are paid their wages payable for one month of working by 7th of the succeeding calendar month. The Contractor will receive payment from us only after you have disbursed in full the wages payable to his employees. The wages shall be distributed in our premises and one of the representatives from the Centre will be nominated to witness the disbursement of the wages, and sign the disbursement report.

3. Provident Fund Act:

The selected bidder shall cover their employees under the Provident Fund Scheme. The premia shall be paid as per existing rule partly deducted from their employees and the balance shall be by contribution from the successful bidder as indicated in Annexure B. Proof of such payment shall be submitted (including employee's and employer's contribution) every month as provided under Section 12 of the Act.

4. Employees State Insurance Scheme:

The contractor shall cover all your employees under Employees State Insurance Scheme as provided for under the relevant rules and shall remit the premium without default.

5. Minimum Wages Act (Central):

The contractor shall pay well above the minimum wages central to each of their employees. Such rates shall be the rate implied or agreed between ICTS and the Contractor.

6. Workmen's Compensation (ELI):

All employees/ workers shall be covered for injury / death under Workmen's Compensation Act 1923 by an Employer's Liability Insurance in the name of the Contractor to cover all employed by the Contractor in ICTS. ELI premia is of the order of 3% on salary + DA as per the statutory laws and amendment.

7. Payment of Bonus Act, 1965:

Bonus shall be paid to all employees who have worked for a minimum of 30 days in the relevant accounting year shall be paid bonus. Bonus will be limited to 8.33% of total salary earned in the relevant accounting year. Bonus shall be paid every year or monthly as mutually agreed upon.

8. Karnataka Labour Welfare Fund Act 1965.

9. General:

Contribution towards PF, ESI & ELI shall be paid to the Contractor only in succeeding months on submission of proof of having paid the premium / subscription. Premia towards ELI shall be paid to the Contractor on a pro-rata basis every month on submission of original policy and receipt. All premia/ contribution / subscription collected towards such benefits shall be/shall have been promptly paid towards the purpose for which it is collected. If for any reason this has not been possible, the Contractor shall promptly inform ICTS, which will suggest ways and means to put such unpaid amounts to proper use.

Miscellaneous

We will not be responsible for death, accident or injury to the Contractor's employees engaged by him, which may arise in the course of their duty at our premises, nor shall we be responsible and be liable to pay damages or compensation to such persons or to third parties. The Contractor shall at all times indemnify and keep ICTS indemnified against all claims which may be under the Workmen's Compensation Act, 1923, or any statutory modifications thereof or otherwise for or in respect of any damages or compensation payable in consequence of any accident or injury sustained by any workman or other person/ persons at the Centre or premises, building,

equipments etc. is attributable to the Contractor or his workmen, such damages shall be made good by the Contractor or his workmen.

“CONTRACTOR”

ANNEXURE – E

PROFILE OF EXPERIENCE

(PLEASE ATTACH ADDITIONAL SHEET, WHEREVER NECESSARY)

1. Name and status of the Proprietor / Director/ Partner :
2. Qualification :
3. Average age of the workmen :
4. Do you have experience of running a Contract of similar nature put to tender. If yes, please give details :
5. Have you provided All Risk Policy, Employees Liability Insurance, etc. in any of your contracts? If yes, give details. :
6. Any other information :

UNDERTAKING BY THE TENDERER

1. I /we intend to carry out the subject work by resorting to engage..... Nos. of work force in a month.

Sl. No.	Details of Operations	No of Persons Proposed
1	Annual Maintenance Contract of the Operation & Maintenance of the 11/0.415KV Substation with Primary & Secondary distribution System of ICTS-TIFR and associated off-campus hostel along with study center a. Supervisor b. Senior Technician c. Technician d. Helper	
Total		

2. I/We undertake to pay the wages well above the minimum wages as applicable (Wages fixed by the Ministry of Labour, Government of India (or) Government of Karnataka (or) Department recommended wages whichever is higher).
3. I/We undertake to contribute for workers towards PF, ESI, and ELI from the employer's side as fixed by the relevant authorities.
4. I/We undertake to pay the Bonus at the rate of 8.33 % of the total wages or Rs. 6,999/- whichever is less.

Name and Address of the Tenderer

Signature of the Tenderer

ANNEXURE – F
PRICE BID

Schedule- 1

TABLE A

<i>Sl No</i>	<i>Statutory Benefits</i>	<i>% to be collected from employee</i>	<i>% to be collected by the Contractor</i>	<i>Total %</i>
1	PF	As per the statutory law in force		
2	ESI	As per the statutory law in force		
3	Bonus	-	8.33*	8.33*
4	ELI(Workmen's Comp)	Optional		

* The amount of bonus payable is 8.33% subject to a maximum of Rs. 6,999 per annum. The eligibility limit for payment of Bonus from the Salary or Wage of Rs. 21000/- per month as per Section 2 (13) of Bonus Act, 1965

Total bid amount per month inclusive of all taxes and duties as per Scope of Work and other details as contained in the tender document (please furnish in table below based on scope of work as shown in Annexure-A):

The minimum wage indicated at Sl No. 1 is as applicable on 01 October 2019 vide order No. F. No. 1/36(3)/2019-LS-II dtd 23/09/2019, Ministry of Labour & Employment, Office of the Chief Labour Commissioner (C) New Delhi. The specified minimum wages (basic + VDA) for:

Supervisor	: Rs. 831
Sr. Technician	: Rs. 764
Technician	: Rs. 695
Helper	: Rs. 629

TABLE B

Sl No	Description	General shift/Shift (24/7hrs)			
		Supervisor	Sr. Technicians	Technicians	Helpers
1	Total Salary per month (Basic +VDA)	(831*26) 21606	(764*26) 19864	(695*26) 18070	(629*26) 16354
2	Accommodation allowance (Max 7% on Sl No. 1)				
3	Other Allowances				
4	Uniform, safety shoes, ID cards, washing etc.	800	800	800	800
5	Sub Total (1+2+3+4)				
6	Consolidated Monthly Service/ Admin Charges/ Contractor's Margin (to be quoted as percentage of Sl No. 5) (Pl mention both as % and amount)	%	%	%	%
7	Total direct expenditure per month (5+6)				
	Reimbursable Expenditure				
8	PF (13% on Sl No. 1)				
9	Bonus (8.33% on Basic or 6,999/- whichever less), as per existing norms.	583	583	583	583

10	ESI (3.25% on SI No. 1)				
11	ELI (Workmen compensation) (3% on SI No. 1 - Optional)				
12	Total Reimbursable expenditure (8 to 12) pm				
13	Total Expenditure (7 + 12)				
14	GST as applicable on SI no. 13				
15	Expenditure per person/per month (13+14)				
16	No.of employees proposed				
17	Total expenditure per month (15*16)				
18	Total expenditure per year = (12 months * Expenditure indicated in row 17)				
		A	B	C	D
	Total p.a (A+B+C+D)				

- Specify designation and experience in the field with level for each column.
- Please specify and attach separate sheets, if necessary.
- All efforts have been made to indicate our requirement. However it is the responsibility of the contractor to fulfill the scope of work as per our requirement without any extra cost. Therefore adequate care must be taken before bidding to ensure that all items are covered.
- In order that the bidders have a clear idea, it is important that the prospective contractors visit ICTS to see the area and work and have discussions before submitting the bids.

All amounts in Table-B to be indicated in figures. In the event of any discrepancy/erasures only the lowest figure will be considered.

The Contractor shall supply the items listed in Table - Uniform & PPE Kits within a month of award of contract and a fresh set will be issued if the contract is renewed beyond one year by the 13th month if renewed for 2nd year.

The monthly and periodical premium /subscription on all the above shall be paid by the Contractor and the quantum to be paid by the employee shall be collected from each employee by the Contractor or deducted from their salary.

Total amount in words (A+B+C+D) :

(SIGNATURE OF THE CONTRACTOR)

(DATE)

(COMPANY SEAL)

Schedule 2
Commercial Bid for Consumable items
(Optional but Mandatory to quote)
(Format to be filled up by the Agency)

1. **Name of Firm/Bidder:** _____
2. **Address :** _____
3. **Phone/Fax/Mobile/Email:** _____

Please quote per unit rate for each of the following items.

Sl. No.	Item Description	Category	Prefered Make	Unit	Rate per unit
1	Anchor Bolt 6Mm With Hook/Without	Anchor fastener	Hilti/ Bosch/ Fischer or equivalent		
2	Anchor Bolt 8Mm With Hook/Without	Anchor fastener	Hilti/ Bosch/ Fischer or equivalent		
3	Anchor Bolt 10 Mm With Hook/Without	Anchor fastener	Hilti/ Bosch/ Fischer or equivalent		
4	Anchor Bolt 12 Mm With Hook/Without	Anchor fastener	Hilti/ Bosch/ Fischer or equivalent		
5	Anchor Bolt 16 Mm With Hook/Without	Anchor fastener	Hilti/ Bosch/ Fischer or equivalent		

6	Anchor Bolt 18-30 Mm With Hook/Without	Anchor fastener	Hilti/ Bosch/ Fischer or equivalent		
7	G.I Wire 8 Gauge	Bare Conductor	ISI Standard		
8	G.I Wire 10-12 Gauge	Bare Conductor	ISI Standard		
9	Copper Strip Up to 4X 25 mm	Bare Conductor	ISI Standard		
10	Copper Bare Conductor Up To 8 Gauge	Bare Conductor	ISI Standard		
11	Aluminium Strip Up To 4X 25 Mm	Bare Conductor	ISI Standard		
12	Distilled Water	Batteries	ISI Standard		
13	Battery Hydro Meter	Batteries	ISI Standard		
14	Battery Room Thermometer	Batteries	ISI Standard		
15	Distilled Water Suction Tool/Pump	Batteries	ISI Standard		
16	Apron Acid Proof	Batteries	ISI Standard		
17	Batteries , 9 Volt	Batteries	Duracell or Equivalent		
18	Batteries 12V A 23 Type	Batteries	Duracell or Equivalent		
19	Battery 12 Volt, 2.5Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		
20	Battery 12 Volt, 7Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		
21	Battery 12 Volt, 18Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		
22	Battery 12 Volt, 25Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		
23	Battery 12 Volt, 35Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		

24	Battery 12 Volt, 42Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		
25	Battery 12 Volt, 100Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		
26	Battery 12 Volt, 120Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		
27	Battery 12 Volt, 150Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		
28	Battery 12 Volt, 180Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		
29	Battery 12 Volt, 200Ah Smf	Batteries	Exide/ Quanta/ Luminous or Equivalent		
30	Battery 2V 100 Ah Vrla	Batteries	Exide/ Quanta/ Luminous or Equivalent		
31	Battery 2V 300 Ah Vrla	Batteries	Exide/ Quanta/ Luminous or Equivalent		
32	Battery 2V 100 Ah Vrla Connector	Batteries	Exide/ Quanta/ Luminous or Equivalent		
33	Battery 2V 300 Ah Vrla Connector	Batteries	Exide/ Quanta/ Luminous or Equivalent		
34	Battery Terminal	Batteries	ISI Standard		
35	Battery Cap/Float	Batteries	ISI Standard		
36	Battery Petroleum Jelly	Batteries	ISI Standard		
37	Drill Bit Concrete (4-10Mm) Titanium Coated	Bit	Hilti/BOSCH/ Taparia or equivalent		
38	Drill Bit Concrete (>10-18Mm)Titanium Coated	Bit	Hilti/BOSCH/ Taparia or equivalent		

39	Drill Bit Concrete (>18-32Mm)Titanium Coated	Bit	Hilti/BOSCH/ Taparia or equivalent		
40	Drill Bit Through Hole Concrete (8-25Mm)Titanium Coated	Bit	Hilti/BOSCH/ Taparia or equivalent		
41	Drill Bit Metal Ms/Ss Titanium Coated (2-8Mm)	Bit	Hilti/BOSCH/ Taparia or equivalent		
42	Drill Bit Metal Ms/Ss Titanium Coated (>8-18Mm)	Bit	Hilti/BOSCH/ Taparia or equivalent		
43	Wall Cutting Blade	Blade	Hilti/BOSCH/ Taparia or equivalent		
44	Metal Cutting Blade	Blade	Hilti/BOSCH/ Taparia or equivalent		
45	Hexa Blade	Blade	Hilti/BOSCH/ Taparia or equivalent		
46	1.5 Sqmm 2 Core Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
47	1.5 Sqmm Frs 3C Cable	Cable	Polycab/Finolex/K EI or equivalent		
48	2.5 Sqmm 2 Core Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
49	2.5 Sqmm Frs 3C Cable	Cable	Polycab/Finolex/K EI or equivalent		
50	2.5 Sq Mm 4 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
51	2.5 Sq Mm 5 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
52	4 Sq Mm 4 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
53	4 Sq Mm 5 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
54	6 Sqmm 3 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		

55	6 Sqmm 4 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
56	6 Sqmm 5 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
57	10 Sqmm 4 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
58	10 Sqmm 5 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
59	16 Sqmm 4 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
60	16 Sqmm 5 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
61	25 Sqmm 4 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
62	25 Sqmm 5 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
63	35 Sqmm 4 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
64	35 Sqmm 5 Core Cable Flexible Cable	Cable	Polycab/Finolex/K EI or equivalent		
65	4.0 Sqmm Frs 3C Cable	Cable	Polycab/Finolex/K EI or equivalent		
66	Cable Tie 100-150Mm	Cable Tie	Tycab or Equivalent		
67	Cable Tie 160- 250 Mm	Cable Tie	Tycab or Equivalent		
68	Cable Tie 300-450Mm	Cable Tie	Tycab or Equivalent		
69	Cable Tie Base	Cable Tie	Tycab or Equivalent		
70	Fan Capacitor	Capacitor	ISI Standard		
71	Motor Capacitor Up To 5 Kw	Capacitor	ISI Standard		
72	PLL Lamp Clamp	Clamp	ISI Standard		
73	Painting Brush 12 Mm	Cleaning	ISI Standard		
74	Painting Brush 25 Mm	Cleaning	ISI Standard		
75	Painting Brush 100 Mm	Cleaning	ISI Standard		

76	Metal Brush To Remove Grease/ Petroleum Jelly	Cleaning	ISI Standard		
77	Wd-40 Spray	Cleaning	ISI Standard		
78	Nc Thinner	Cleaning	ISI Standard		
79	Emery Paper	Cleaning	ISI Standard		
80	Enamel Thinner	Cleaning	ISI Standard		
81	Crc Spray	Cleaning	ISI Standard		
82	Cotton Waste (Banian Type)	Cleaning	ISI Standard		
83	Crocodile Clip	Clip	ISI Standard		
84	Hms Conduit 25 Mm	Conduit	Anchor Panasonic or Equivalent		
85	Hms Conduit, 40 Mm	Conduit	Anchor Panasonic or Equivalent	NOS	
86	Hdpe Pipe, 32 Mm	Conduit	Duraline or Equivalent	KG	
87	Hdpe Pipe, 40 Mm	Conduit	Duraline or Equivalent	PKT	
88	Hdpe Pipe, 50 Mm	Conduit	Duraline or Equivalent	NOS	
89	Cable Management Pvc 50X100Mm	Conduit	MK/Legrand /GM or Equivalent	NOS	
90	Cable Management Pvc 50X150Mm	Conduit	MK/Legrand /GM or Equivalent	NOS	
91	Cable Management Pvc 50X200-250Mm	Conduit	MK/Legrand /GM or Equivalent	NOS	
92	Cable Management End Cap Pvc 100-250 Mm	Conduit	MK/Legrand /GM or Equivalent	NOS	
93	Cable Management Metal 50X100Mm	Conduit	MK/Legrand /GM or Equivalent	NOS	
94	Cable Management Metal 50X150Mm	Conduit	MK/Legrand /GM or Equivalent	NOS	
95	Cable Management Metal 50X200-250Mm	Conduit	MK/Legrand /GM or Equivalent	NOS	
96	Cable Management End Cap Metal 100-250 Mm	Conduit	MK/Legrand /GM or Equivalent	NOS	
97	Hdpe Pipe End Cap Up To 60 Mm	Conduit	ISI Standard	NOS	

98	Casing Capin 12 Mm To 40 Mm	Conduit	ISI Standard	NOS	
99	Bend HMS	Conduit	ISI Standard	NOS	
100	Coller HMS	Conduit	ISI Standard	NOS	
101	T Shape HMS	Conduit	ISI Standard	NOS	
102	L Shape HMS	Conduit	ISI Standard	NOS	
103	HMS Junction Box	Conduit	ISI Standard	NOS	
104	2*36 W Electronic Choke	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
105	2*28 W Electronic Choke	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
106	1*28 W Electronic Choke	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
107	1*54 W Electronic Choke	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
108	2*54 W Electronic Choke	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
109	70W M.H Choke With Ignitor	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
110	150 W Mh Choke With Ignitor	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
111	2 *28 W Dildimable Choke	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
112	Led Drive Up To 10Watt	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
113	Led Drive 11-20 Watt	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
114	Led Drive 21-35 Watt	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	

115	Led Drive 36-50 Watt	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
116	Led Drive 51-80 Watt	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
117	Led Drive 81-120 Watt	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
118	Led Drive 121-200 Watt	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
119	Led Drive 201-350 Watt	Driver	Philips/Bajaj/Osram /Wipro or equivalent	NOS	
120	Cdmt Led Driver	Driver	Philips/ Bajaj/ Osram or equivalent	NOS	
121	Led Drive 50 -150 Watts	Driver	Philips or Equivalent	NOS	
122	Wood Charcoal	Earthing	ISI Standard	NOS	
123	Salt For Earthing	Earthing	ISI Standard	NOS	
124	Earthing Funnel	Earthing	ISI Standard		
125	Exhaust Fan Pvc 150-180Mm	Fan	Philips/Crompton/B ajaj/ Havells	NOS	
126	Exhaust Fan Pvc 200-250Mm	Fan	Philips/Crompton/B ajaj/ Havells	LTR	
127	Ceiling Fan 1200 - 1400 Mm	Fan	Philips/Crompton/B ajaj/ Havells	NOS	
128	Noise Less Pedestal Fan 400 - 600 Mm	Fan	Philips/Crompton/B ajaj/ Havells		
129	Ferrules Up To 6 Sqmm Alphabetical	Ferrules	ISI Standard	NOS	
130	Ferrules Up To 6 Sqmm Numericals	Ferrules	ISI Standard	NOS	
131	Gland Dori Any Size	Fire	ISI Standard	COIL	
132	Fire Lip Washer	Fire	ISI Standard	COIL	
133	Fire Hydrant Handle	Fire	ISI Standard	COIL	

134	Fireproof Pvc Flexible Pipe	Fire	ISI Standard	COIL	
135	Fire Proof Metal Flexible Pipe	Fire	ISI Standard	COIL	
136	Hms Pipe 40 Mm	Fire	ISI Standard	COIL	
137	Hms Pipe 40 Mm Collar	Fire	ISI Standard	COIL	
138	Hms Pipe 40 Mm Bend	Fire	ISI Standard	COIL	
139	Hms Pipe 40 Mm L Shape	Fire	ISI Standard	COIL	
140	Hms Pipe 40 Mm T Shape	Fire	ISI Standard	COIL	
141	Hms Pipe 40 Mm Junction Pipe	Fire	ISI Standard	COIL	
142	Fire Hydrant Couple Cap	Fire	ISI Standard	COIL	
143	Rubber Gasket Roll	Fire	ISI Standard	COIL	
144	Paper Gasket Roll	Fire	ISI Standard	COIL	
145	Fire Hydrant Valve Small	Fire	ISI Standard	NOS	
146	Oil Can	Fire	ISI Standard	NOS	
147	Grease Gun	Fire	ISI Standard	NOS	
148	Fire Hydrant Valve Big	Fire	ISI Standard	COIL	
149	Fire Hydrant Shadle 25 Mm	Fire	ISI Standard	COIL	
150	Fire Hydrant Shadle 40 Mm	Fire	ISI Standard	Kg	
151	Fire Hydrant Gland	Fire	ISI Standard	Kg	
152	Fire Hydrant Chain	Fire	ISI Standard	Kg	
153	Fire Hydrant Glass	Fire	ISI Standard	Kg	
154	Fire Hydrant Paint Red Colour	Fire	ISI Standard	BOX	
155	Fire Hydrant Black Colour Paint	Fire	ISI Standard	Meter	
156	Fire Hydrant White Colour Paint	Fire	ISI Standard		
157	Fire Hydrant Box	Fire	ISI Standard		
158	Fire Hydrant Nozzle	Fire	ISI Standard		
159	Nut Bolt Upto 25 Mm With Washer Ss	Fire	ISI Standard		
160	Fire Hydrant Hose Pipe	Fire	ISI Standard		
161	Fire Bucket With Stand	Fire	ISI Standard		
162	Smoke Detector Cover	Fire	ISI Standard		
163	Sand 1 Tractor Load	Fire	ISI Standard		
164	Fire Extinguisher Co2 4.5 Kg	Fire	Safex or Equivalent		
165	Fire Extinguisher Dcp 9Kg	Fire	Safex or Equivalent		

166	Fire Extinguisher Foam 9 Kg	Fire	Safex or Equivalent		
167	Fire Extinguisher Hose Pipe 12 Mm	Fire	IS Standard		
168	Pvc Nylon Braided Hoses Pipe 25Mm	Fire	IS Standard		
169	Geysers 25 litre Horizontal/ Vertical	Geysers	Racold or equivalent		
170	Instant Geysers up to 5 Ltr	Geysers	Racold or equivalent		
171	Geysers Safety Valve	Geysers	ISI Standard		
172	Thermostat	Geysers	ISI Standard		
173	Thermo Control	Geysers	ISI Standard		
174	Geysers 2 Kw Coil	Geysers	ISI Standard		
175	Geysers Indicator	Geysers	ISI Standard		
176	Instant Geysers Accessories Set	Geysers	ISI Standard		
177	70 W Mh Holder	Holder	ISI Standard		
178	150 W Mh Holder	Holder	ISI Standard		
179	500 W Halogen Holder	Holder	ISI Standard		
180	1000 W Halogen Holder	Holder	ISI Standard		
181	PLL Holder 2/4 Pin	Holder	ISI Standard		
182	PLC Holder 2Pin/4 Pin	Holder	ISI Standard		
183	150 W Cdmt Holder	Holder	ISI Standard		
184	70 W Cdmt Holder	Holder	ISI Standard		
185	T5 Holder Bottom press Type, Back Press Type	Holder	ISI Standard		
186	T8 Holder	Holder	ISI Standard		
187	Ic Lamp Holders Thread Type /Pin Type	Holder	ISI Standard		Kg
188	Calling Bell Normal	Hooter	ISI Standard		
189	Calling Bell Wireless	Hooter	ISI Standard		
190	Hooter Up To 150 Db	Hooter	ISI Standard		
191	U.G Cable Joint Kit Up To 4 Cx25Sqmm	Jointing Kit	Raychem/3M or equivalent		
192	U.G Cable Joint Kit 4 Cx35Sqmm	Jointing Kit	Raychem/3M or equivalent		

193	U.G Cable Joint Kit 4 Cx50Sqmm	Jointing Kit	Raychem/3M or equivalent		
194	U.G Cable Joint Kit 4 Cx70Sqmm	Jointing Kit	Raychem/3M or equivalent		
195	U.G Cable Joint Kit 4 Cx95Sqmm	Jointing Kit	Raychem/3M or equivalent		
196	U.G Cable Joint Kit 4 Cx120Sqmm	Jointing Kit	Raychem/3M or equivalent		
197	U.G Cable Joint Kit 4 Cx150Sqmm	Jointing Kit	Raychem/3M or equivalent		
198	U.G Cable Joint Kit 4 Cx185Sqmm	Jointing Kit	Raychem/3M or equivalent		
199	U.G Cable Joint Kit 4 Cx225Sqmm	Jointing Kit	Raychem/3M or equivalent		
200	U.G Cable Joint Kit 4 Cx240Sqmm	Jointing Kit	Raychem/3M or equivalent		
201	U.G Cable Joint Kit 4 Cx300Sqmm	Jointing Kit	Raychem/3M or equivalent		
202	U.G Cable Joint Kit 4 Cx400Sqmm	Jointing Kit	Raychem/3M or equivalent		
203	Cable/Wire Connector Set	Jointing Kit	ISI Standard		
204	28 W T5 Tube Light White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
205	54 W T5 Tube Light White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
206	14 W T5 2 feet Tube Light White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
207	18W 2Pin Plc Lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
208	18W 4Pin Plc Lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
209	26W 4Pin Pll Lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
210	36W 4Pin Pll Lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
211	60W I.C Lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		

212	6-9W Led Lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
213	10 -15 W Led Lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
214	15-20 W Led Lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
215	70 W Mh Lamp	Light	Philips/Bajaj/Osram or equivalent		
216	150W Cdmt Lamp	Light	Philips/Bajaj/Osram or equivalent		
217	150 W Mh Lamp	Light	Philips/Bajaj/Osram or equivalent		
218	70 W Cdmt Lamps	Light	Philips/Bajaj/Osram or equivalent		
219	36 W Tube T8 White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
220	42 W Plc White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
221	6-15 Watts Plc Led 2Pin / 4 Pin White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
222	16-28 Watts Plc Led 2Pin / 4 Pin White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
223	14-22 Watts 4 Pin PLC Led White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
224	6-15 Watts PLL Led 2Pin / 4 Pin White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
225	16-28 Watts PLL Led 2Pin / 4 Pin White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
226	14-22 Watts 4 Pin PLL Led White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
227	6-15 WattsBLL Led 2Pin / 4 Pin White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
228	16-28 Watts BLL Led 2Pin / 4 Pin White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
229	14-22 Watts 4 Pin BLL Led White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
230	18 Watt PLL 2 Feet LED White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		

231	T8 18- 25 Watts Led Tube Light White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
232	T5 5-17 Watts Led Tube Light White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
233	T5 18-25 Watts Led Tube Light White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
234	5-8 Watts Study Lamp Led White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
235	Up to 10 Watts Led Recessed/ wall mount Fitting Round/Square White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
236	2*2 Feet Led Grid Light Recessed/Wall Mount White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
237	2 Feet Led Tube Light Recessed/Wall Mount White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
238	Cdmt Led equivalent to 70 w old lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
239	Cdmt Led equivalent to 150 w old lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
240	MH Led equivalent to 70 w old lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
241	MH Led equivalent to 150 w old lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
242	LED Flood Light 40-90 Watts White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
243	Led Flood Light 100 Watts To 200 Watts White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
244	Led Flood Light > 200 Watts To 300 Watts White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
245	Led Flood Light > 300- 400 Watts White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
246	Led Flood Light > 400- 500 Watts White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
247	Spot Light Round/Square Recessed 25-60Mm dia White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		

248	Spot Light Round/Square Recessed >60-250 Mm White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
249	Led Batten Tube Light 2 Feet Up To 14 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
250	Led Batten Tube Light 2 Feet Up To >14- 30Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
251	Led Batten Tube Light 4 Feet Up To 14 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
252	Led Batten Tube Light 4 Feet Up To >14- 30Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
253	Led Batten Tube Light 4 Feet Up To >30- 50 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
254	Led Batten Tube Light 4 Feet Up To >50-80Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
255	Led Batten Tube Light 4 Feet Up To >80-120 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
256	Swimming Pool Water Proof Lights LED White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
257	Mirror Light 1 -2 Feet LED White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
258	Track Light Up To 15 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
259	Track 1Meter	Light	Philips/Bajaj/Osram or equivalent		
260	5Watts Table Lamp White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
261	LED Batten tube light 1 feet up to 10 watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
262	Led Tube Light, T5. 18 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
263	Led Tube Light, T5. 20 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		

264	Led Tube Light, 28 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
265	Led Tube Light, 30 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
266	Led Tube Light, 36 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
267	Led Tube Light, 9 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
268	Led Flood Light , 250 Watt White/ Warm White	Light	Philips/Bajaj/Osram or equivalent		
269	5Watts Step Lights White/ Warm White	Lights	Philips/Bajaj/Osram or equivalent		
270	Cove Lights White/ Warm White	Lights	Philips/Bajaj/Osram or equivalent		
271	1.5 Sq Mm Pin/Ring Type Lugs	Lugs	Comet or Equivalent		
272	2.5 Sq Mm Pin/Ring Type Lugs	Lugs	Comet or Equivalent		
273	4.0 Sq Mm Pin/Ring Type Lugs	Lugs	Comet or Equivalent		
274	6.0 Sq Mm Pin/Ring Type Lugs	Lugs	Comet or Equivalent		
275	10 Sq Mm Pin/Ring Aluminium Lugs	Lugs	Comet or equivalent		
276	10 Sqmm Pin/Ring Copper Lugs	Lugs	Comet or equivalent		
277	16 Sq Mm Pin/Ring Aluminium Lugs	Lugs	Comet or equivalent		
278	16 Sqmm Pin/Ring Copper Lugs	Lugs	Comet or equivalent		
279	25 Sq Mm Pin/Ring Copper Lugs	Lugs	Comet or equivalent		
280	25 Sq Mm Pin/Ring Aluminium Lugs	Lugs	Comet or equivalent		
281	35 Sq Mm Pin/Ring Aluminium Lugs	Lugs	Comet or equivalent		
282	35 Sq Mm Pin/Ring Copper Lugs	Lugs	Comet or equivalent		

283	50 Sq Mm Pin/Ring Copper Lugs	Lugs	Comet or equivalent		
284	50 Sq Mm Pin/Ring Aluminium Lugs	Lugs	Comet or equivalent		
285	70 Sq Mm Aluminium Lugs	Lugs	Comet or equivalent		
286	70 Sq Mm Copper Lugs	Lugs	Comet or equivalent		
287	95 Sq Mm Aluminium Lugs	Lugs	Comet or equivalent		
288	95 Sq Mm Copper Lugs	Lugs	Comet or equivalent		
289	120 Sq Mm Aluminium Lugs	Lugs	Comet or equivalent		
290	120 Sqmm Copper Lugs	Lugs	Comet or equivalent		
291	150 Sq Mm Aluminium Lugs	Lugs	Comet or equivalent		
292	150 Sqmm Copper Lugs	Lugs	Comet or equivalent		
293	185 Sq Mm Aluminium Lugs	Lugs	Comet or equivalent		
294	185 Sqmm Copper Lugs	Lugs	Comet or equivalent		
295	240 Sq Mm Aluminium Lugs	Lugs	Comet or equivalent		
296	240 Sq Mm Copper Lugs	Lugs	Comet or equivalent		
297	300 Sq Mm Aluminium Lugs	Lugs	Comet or equivalent		
298	300 Sq Mm Copper Lugs	Lugs	Comet or equivalent		
299	400 Sq Mm Aluminium Lugs	Lugs	Comet or equivalent		
300	400 Sq Mm Copper Lugs	Lugs	Comet or equivalent		
301	4 Sq Mm Fork Type Lugs	Lugs	Comet or Equivalent		

302	2.5/4.0/6 Sq Mm Fork Type Lugs	Lugs	Comet or Equivalent		
303	2.5 Sqmm Male/Female lugs	Lugs	Comet or Equivalent		
304	Multimeter, 600 V, Cat Iv	Machine	Fluke/ Kyoritsu or Equivalent		
305	AC/DC Clampmeter	Machine	Fluke/ Kyoritsu or Equivalent		
306	Heat Gun	Machine	BOSCH/Stainley or equivalent		
307	Drilling Machine (Impact Type Up To 600 W)	Machine	Hilti/Bosch/Dewalt or equivalent		
308	Drilling Machine (Heavy Duty Hammering)	Machine	Hilti/Bosch/Dewalt or equivalent		
309	Dry Cutter Hand Grinding Machine	Machine	Hilti/Bosch/Dewalt or equivalent		
310	Chipping Machine Up To 1500 W With Bit	Machine	Hilti/Bosch/Dewalt or equivalent		
311	Blower	Machine	BOSCH/Stainley or equivalent		
312	Wall cutting machine for underground wiring	Machine	Hilti/Bosch/Dewalt or equivalent		
313	Cable Wall Scanner	Machine	BOSCH/Stainley or equivalent		
314	Non-Contact Voltage Detector	Machine	Fluke/ Kyoritsu or Equivalent		
315	Line Tester	Machine	Taparia or Equivalent		
316	Phase Sequence Meter	Machine	Fluke/Kyoritsu or Equivalent		
317	Digital Insulation Resistance Meter Up To 1-3Kv	Machine	Megger/Fluke/Kyoritsu or Equivalent		
318	Battery Impedance Tester	Machine	Megger/Fluke/Kyoritsu/Meco or Equivalent		
319	Laser Temperature Meter	Machine	Fluke/Kyoritsu or Equivalent		

320	Continuity Tester	Machine	ISI Standard		
321	Self Earth Tester	Machine	Megger/Fluke/Kyoritsu or Equivalent		
322	Hydraulic Trolley	Machine	ISI Standard		
323	Wet & Dry Vacuum Cleaner	Machine	Roots/KENT/Taski or Equivalent		
324	Diesel Filling Pump Manual Metal	Machine	ISI Standard		
325	Double Brazing Torch	Machine	ISI Standard		
326	Breezing Gun	Machine	ISI Standard		
327	Inverter Welding Machine	Machine	ISI Standard		
328	Dol Starter 5 To 10 Hp	Machine	L&T/Havells or equivalent		
329	Star Delta Starter Upto 5Hp	Machine	L&T/Havells or equivalent		
330	Star Delta Starter 5Hp To 10 Hp	Machine	L&T/Havells or equivalent		
331	Stabilizer Up To 2Kva	Machine	V Gaurd or Equivalent		
332	Spray Paint Any Colour	Paint	ISI Standard		
333	Epoxy Painting	Paint	ISI Standard		
334	Enamel Painting > 90 Micron	Paint	ISI Standard		
335	Industrial Plug Top Male / Female Up To 40 A, 1- 3 Phase	Plug top	Neptune or Equivalent		
336	Industrial Plug Top Male / Female > 40 - 120A, 1- 3 Phase	Plug top	Neptune or Equivalent		
337	Industrial Socket Male / Female Up To 40 A, 1- 3 Phase	Plug top	Neptune or Equivalent		
338	Industrial Socket Male / Female U> 40 - 120A, 1- 3 Phase	Plug top	Neptune or Equivalent		
339	6A Plug Top 3 pin	Plug top	Anchor/Bajaj/GM or Equivalent		
340	16A Plug Top 3 pin	Plug top	Anchor/Bajaj/GM or Equivalent		
341	C13/14 Plugtop/ connector male female	Plug top	ISI Standard		
342	Lock Out Tag Out Set	PPE	3M or Equivalent		

343	Caution Board Radium Based	PPE	3M or Equivalent		
344	Caution Sticker Radium Based	PPE	3M or Equivalent		
345	Caution Tape	PPE	3M or Equivalent		
346	Caution Tape Yellow & Black Strip	PPE	3M or Equivalent		
347	Transparent Safety Goggles	PPE	3M or Equivalent		
348	Electrical Safety Hand Gloves L.T Rating 5Kv	PPE	3M or Equivalent		
349	Electrical Safety Hand Gloves H.T Rating 15Kv	PPE	3M or Equivalent		
350	Mechanical Hand Gloves	PPE	3M or Equivalent		
351	Chemical Proof Nitrile Rubber Hand Gloves	PPE	3M or Equivalent		
352	Safety Rope Fireproof	PPE	3M or Equivalent		
353	Safety Helmet Yellow	PPE	3M or Equivalent		
354	Safety Helmet Blue	PPE	3M or Equivalent		
355	Safety Helmet White	PPE	3M or Equivalent		
356	Safety Helmet With Shield	PPE	3M or Equivalent		
357	Ear Muff Reusable	PPE	3M or Equivalent		
358	Inhalation Mask	PPE	3M or Equivalent		
359	Chemical Proof PVC Apron	PPE	3M or Equivalent		
360	Gumboot	PPE	3M or Equivalent		
361	Safety Belt Full harness with double rope with scaffolding hook	PPE	3M or Equivalent		
362	Hand Nerve Safety Cover (Arm Sleeve)	PPE	3M or Equivalent		
363	Fire sand Bucket	PPE	ISI Standard		
364	Reflective Jacket	PPE	3M or Equivalent		
365	Key Chest Upto 50 Nos	Rack	ISI Standard		
366	Storage Rack With Lock	Rack	ISI Standard		
367	Tools Rack with lock	Rack	ISI Standard		
368	Slotted Angle Rack	Rack	ISI Standard		
369	Wooden Screw 1",1.25",0.75"	Screw	ISI Standard		
370	Tin Screw 1",1.25",0.75"	Screw	ISI Standard		

371	Wood Ghatta	Screw	ISI Standard		
372	PVC Gatta	Screw	ISI Standard		
373	Brass Nut Bolt Any Size With Washer	Screw	ISI Standard		
374	Ms Nut Bolt Any Size With Washer	Screw	ISI Standard		
375	POP Screw	Screw	ISI Standard		
376	Clamps Up To 18Mm	Screw	ISI Standard		
377	Clamps 25 Mm	Screw	ISI Standard		
378	Clamps 30- 40 Mm	Screw	ISI Standard		
379	Coach Screw Up To 75Mm	Screw	ISI Standard		
380	Sealant Silicon	Sealant	Dr. Fixit or Equivalent		
381	Puff Refill	Sealant	Hilti or equivalent		
382	Glue Gun Refill Stick	Sealant	ISI Standard		
383	Soldering Lead	Sealant	ISI Standard		
384	Soldering Paste	Sealant	ISI Standard		
385	Grease	Sealant	ISI Standard		
386	Fixing solvent solution (Normal)	Sealant	Araldite or Equivalent		
387	Fixing solvent solution (Quick)	Sealant	Araldite or Equivalent		
388	SS Mesh	Sealant	ISI Standard		
389	Water Level Sensor	Sensor	ISI Standard		
390	Pressure Limit Switch	Sensor	ISI Standard		
391	Panel Door Limit Switch	Sensor	ISI Standard		
392	Scaffolding Service	Services	ISI Standard		
393	Meter Calibration	Services	ISI Standard		
394	Transformer Oil Filtration	Services	ISI Standard		
395	Bdv Test	Services	ISI Standard		
396	Olte Oil Filtration	Services	ISI Standard		
397	Acidity Test Transformer Oil Test	Services	ISI Standard		
398	Motor Rewinding Upto 5 Kw	Services	ISI Standard		
399	Olte Servicing.	Services	ISI Standard		

400	Rmu Servicing / Inspection	Services	ISI Standard		
401	Fire Fighting Servicing	Services	ISI Standard		
402	Diesel Transportation Charges Per 1000 Litres	Services	ISI Standard		
403	Tractor For 100 Kva Dg Pulling For Any Where In Icts Campus	Services	ISI Standard		
404	Battery Impedance Test	Services	ISI Standard		
405	Transformer Winding Test	Services	ISI Standard		
406	Winding Resistance Test	Services	ISI Standard		
407	Polarity Test	Services	ISI Standard		
408	Voltage Ratio Test	Services	ISI Standard		
409	Transformer Vector Test	Services	ISI Standard		
410	Insulation Resistance And Dielectric Ratio Test	Services	ISI Standard		
411	Tan Delta Test	Services	ISI Standard		
412	Ammeter Calibration	Services	ISI Standard		
413	Voltmeter Calibration	Services	ISI Standard		
414	Multi-Function Meter Calibration	Services	ISI Standard		
415	Kwh Meter Calibration	Services	ISI Standard		
416	Current Transformer Test	Services	ISI Standard		
417	Master Trip Relay Test	Services	ISI Standard		
418	Tcs Relay Test	Services	ISI Standard		
419	Auxiliary Relay Test	Services	ISI Standard		
420	Feeder Protection Relay Test	Services	ISI Standard		
421	Transformer Protection Relay Test	Services	ISI Standard		
422	Transformer Fault Relay Test	Services	ISI Standard		
423	Earth Fault Relay Test	Services	ISI Standard		
424	Transparent / Coloured Acrylic Sheet Up To 4 Mm	Sheet	ISI Standard		
425	Bakelite Sheet Up To 4Mm	Sheet	ISI Standard		
426	2M Concealed Box	Switch	Legrand or Equivalent		
427	2M Front Plate	Switch	Legrand or Equivalent		

428	3M Concealed Box	Switch	Legrand or Equivalent		
429	3M Front Plate	Switch	Legrand or Equivalent		
430	4M Concealed Box	Switch	Legrand or Equivalent		
431	4M Front Plate	Switch	Legrand or Equivalent		
432	6M Concealed Box	Switch	Legrand or Equivalent		
433	6M Front Plate	Switch	Legrand or Equivalent		
434	8M Concealed Box	Switch	Legrand or Equivalent		
435	8M Front Plate	Switch	Legrand or Equivalent		
436	12M Concealed Box	Switch	Legrand or Equivalent		
437	12M Front Plate	Switch	Legrand or Equivalent		
438	6M Pvc Legrand Box	Switch	Legrand or Equivalent		
439	8M Pvc Legrand Box	Switch	Legrand or Equivalent		
440	Screw Type Socket 6/16A (Normal Type)	Switch	GM/Havells/Anchor or Equivalent		
441	2M Fan Regulator Legrand	Switch	Legrand or equivalent		
442	Waterproof 6M Pvc Box (Modular)	Switch	Legrand or Equivalent		
443	Waterproof 4M Pvc Box (Modular)	Switch	Legrand or Equivalent		
444	Key Card Switch	Switch	Legrand or equivalent		
445	6A Switch	Switch	Legrand or Equivalent		

446	16A Switch	Switch	Legrand or Equivalent		
447	Dp Switch Up To 32A	Switch	Legrand or Equivalent		
448	16A Spin Universal Socket	Socket	Legrand or Equivalent		
449	6A 3 pin Spin Socket	Socket	Legrand or Equivalent		
450	16A 3 pin Spin Socket	Socket	Legrand or Equivalent		
451	Spike Buster Up To 4 Socket Up To 3 Meter Wire 6/16 A As Per Standard Rating	Socket	Belkin/GM or Equivalent		
452	Spike Buster Up To 4 Socket 4 To 6 Meter Wire 6/16 A As Per Standard Rating	Socket	Belkin/GM or Equivalent		
453	Spike Buster Up To 6 Socket 4 To 6 Meter Wire 6/16 A As Per Standard Rating	Socket	Belkin/GM or Equivalent		
454	Spike Buster With 4 Industrial Socket Up To 10 Meter Wire 1/3 Phase As Per Standard Rating	Socket	Belkin/GM or Equivalent		
455	Spike Buster With 8 Industrial Socket Up To 15-20 Meter Wire 1/3 Phase As Per Standard Rating	Socket	Belkin/GM or Equivalent		
456	Spike Buster With 12 Industrial Socket Up To 25-40 Meter Wire 1/3 Phase As Per Rating As Per Standard Rating	Socket	Belkin/GM or Equivalent		
457	Spike Buster With 15 Industrial Socket Up To 25-40 Meter Wire 1/3 Phase Per Rating As Per Standard Rating	Socket	Belkin/GM or Equivalent		
458	Spike Buster With 18-20 Industrial Socket Up To 40-60 Meter Wire 1/3 Phase As Per Standard Rating	Socket	Belkin/GM or Equivalent		
459	C13 Power Cable With Plug Top And Connector Up To 2M Wire	Socket	ISI Standard		

460	C14 Power Cable Plug Top And Connector Up To 2M Wire	Socket	ISI Standard		
461	Solar Panel Male/Female Connector Set	Solar Socket	ISI Standard		
462	Hms Pipe Bending Spring	Spring	Elephnat or Equivalent		
463	Diesel Barrel Metal/Plastic	Storage	ISI Standard		
464	Bucket 20 Litres	Storage	ISI Standard		
465	Screw Type Switch 6/16 A (Normal Type)	Switch	GM/Havells/Anchor or Equivalent		
466	Neutral link bset brass	Switchgear	ISI Standard		
467	PPI Kit	Switchgear	ABB/Legrand/Schneider or equivalent		
468	Mcb, 6 Amps, Single Pole	Switchgear	ABB/Legrand/Schneider or equivalent		
469	Mcb, 10 Amps, Single Pole	Switchgear	ABB/Legrand/Schneider or equivalent		
470	Mcb, 16 Amps, Single Pole	Switchgear	ABB/Legrand/Schneider or equivalent		
471	Mcb, 32 Amps, Single Pole	Switchgear	ABB/Legrand/Schneider or equivalent		
472	Mcb, 10-16 Amps, Double Pole	Switchgear	ABB/Legrand/Schneider or equivalent		
473	Mcb, 20-32 Amps, Double Pole	Switchgear	ABB/Legrand/Schneider or equivalent		
474	Mcb, 32-63 Amps, Three Pole	Switchgear	ABB/Legrand/Schneider or equivalent		
475	Mcb, 32-63 Amps, Four Pole	Switchgear	ABB/Legrand/Schneider or equivalent		
476	Elcb, 32-63Amps, Four Pole 30 milliamps	Switchgear	ABB/Legrand/Schneider or equivalent		
477	Elcb 25-32 Double pole, 30 Milliamps	Switchgear	ABB/Legrand/Schneider or equivalent		
478	Contactor No/Nc 4 Pole AC/DC	Switchgear	ABB/Legrand/Schneider or equivalent		
479	Contactor No/Nc 3 Pole AC/DC	Switchgear	ABB/Legrand/Schneider or equivalent		

480	Contactora No/Nc 2 Pole AC/DC	Switchgear	ABB/Legrand/Schneider or equivalent		
481	Contactora No/Nc 1 Pole AC/DC	Switchgear	ABB/Legrand/Schneider or equivalent		
482	Addon Block No/Nc 4 Pole	Switchgear	ABB/Schneider/Siemens or Equivalent		
483	Addon Block No/Nc 3 Pole	Switchgear	ABB/Schneider/Siemens or Equivalent		
484	Addon Block No/Nc 2 Pole	Switchgear	ABB/Schneider/Siemens or Equivalent		
485	Addon Block No/Nc 1 Pole	Switchgear	ABB/Schneider/Siemens or Equivalent		
486	No/NC Push Button	Switchgear	IS Standard		
487	Relay O/V, U/v Etc 3 Phase	Switchgear	Minilec/ABB/Schneider/ Siemens or Equivalent		
488	Timer Star Delta	Switchgear	Minilec/ABB/Schneider/ Siemens or Equivalent		
489	Timer No/Nc Normal Digital	Switchgear	Minilec/ABB/Schneider/ Siemens or Equivalent		
490	Timer No/Nc Digital Modular Advanced	Switchgear	Minilec/ABB/Schneider/ Siemens or Equivalent		
491	Change Over Switch Up To 63A	Switchgear	ABB/Schneider/L&T/ Hager or Equivalent		
492	Change Over Switch Up To 63-120A	Switchgear	ABB/Schneider/L&T/ Hager or Equivalent		
493	DC MCCB Up To 180 A	Switchgear	ABB/Schneider/Legrand / Hager or Equivalent		

494	Dc Mcb Dp Up To25 Amps	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
495	Dc Mcb Dp 26 - 63 Amps	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
496	Dc Mcb Sp Up To25 Amps	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
497	Dc Mcb Sp 26 - 63 Amps	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
498	Mcb Box Sp Metal	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
499	Mcb Box Dp Metal	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
500	Mcb Box Fp Metal	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
501	Spn Db Up To 8 Way Metal	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
502	Spn Db 8 To 12 Way Metal	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
503	Tpn-Db 4-6 Way Metal	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
504	Tpn-Db >6-12 Way Metal	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
505	Tpn-Db >12-24 Way Metal	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		
506	Vtpn-Db 4-6 Way Metal	Switchgear	ABB/Schneider/Le grand / Hagger or Equivalent		

507	Vtprn-Db >6-12 Way Metal	Switchgear	ABB/Schneider/Le grand / Hager or Equivalent		
508	Vtprn-Db >12-24 Way Metal	Switchgear	ABB/Schneider/Le grand / Hager or Equivalent		
509	Vtprn Db 25-30Way Metal	Switchgear	ABB/Schneider/Le grand / Hager or Equivalent		
510	Vtprn Db 31-40Way Metal	Switchgear	ABB/Schneider/Le grand / Hager or Equivalent		
511	Vtprn Db >40 -50 Way Metal	Switchgear	ABB/Schneider/Le grand / Hager or Equivalent		
512	T&C Switch	Switchgear	Legrand/GM or Equivalent		
513	Hrc Fuse up to 40 A	Switchgear	ABB/Schneider/ L&T or Equivalent		
514	Selector Switch	Switchgear	ABB/Schneider/ L&T or Equivalent		
515	Panel Indicator 110 Volts /240 Volts	Switchgear	ISI Standard		
516	Mccb Rotary Set	Switchgear	ABB/Schneider/ L&T or Equivalent		
517	Glass Fuse Upto 20 Amp	Switchgear	ISI Standard		
518	Varistor Upto 50 Amp	Switchgear	Epcos or Equivalent		
519	Glass Fuse Holder	Switchgear	ISI Standard		
520	Panel Handle	Switchgear	ISI Standard		
521	Panel Locks	Switchgear	ISI Standard		
522	Dg Door Locks	Switchgear	ISI Standard		
523	Industrial Neptune Box Up To 100A, 1-3 Phase	Switchgear	Neptune or Equivalent		
524	Multi Function Digital Meter Ct Based	Switchgear	Schneider/ L&T or Equivalent		
525	Energy Meter 3 Phase Ct Based	Switchgear	Schneider/ L&T or Equivalent		

526	Street Light Timer	Switchgear	Legrand or Equivalent		
527	Insulation Tape Red, Yellow, Black, Blue, Green	Tape	3M/Steelgrip/Scotch/Anchor or equivalent		
528	Single Sided Tape Up To 50 Mm	Tape	3M or Equivalent		
529	Single Double Sided Tape Up To 50 Mm (Thin/Thick)	Tape	3M or Equivalent		
530	Heat Sink Sleeve/Insulation Up To 50 Sqmm	Tape	3M or Equivalent		
531	Cotton Sleeve Heat Resistance	Tape	3M or Equivalent		
532	Waterproof Insulation Tape	Tape	3M or Equivalent		
533	Masking Tape Up To 75 Mm	Tape	3M or Equivalent		
534	Sleeve (Red, Yellow, Black, Blue, Green) up to 6 sqmm	Tape	3M or Equivalent		
535	Measurement Tape 5m	Tools	3M/Taparia or Equivalent		
536	Measurement Tape 15m	Tools	3M/Taparia or Equivalent		
537	Filer Flat	Tools	Taparia or equivalent		
538	Filer Half Round	Tools	Taparia or equivalent		
539	Filer Full Round	Tools	Taparia or equivalent		
540	Hammer Up To 150 Gm	Tools	Taparia or equivalent		
541	Hammer 200- 250 Gm	Tools	Taparia or equivalent		
542	Gland Cutter Set M.S	Tools	Hilti/Bosch/Dewalt or equivalent		
543	Gland Cutter Set S.S	Tools	Hilti/Bosch/Dewalt or equivalent		
544	Electrical Wiring Hard Spring	Tools	Elephant or equivalent		
545	Hexa Frame	Tools	Taparia or equivalent		

546	Fiberglass Tape Reel Puller Conducting Ducting Rodder Pulling Wire Cable 30 M	Tools	ISI Standard		
547	Puff Generator Gun	Tools	Hilti or equivalent		
548	Sealant Gun	Tools	ISI Standard		
549	Soldering Gun	Tools	ISI Standard		
550	Crimping Tool 1.5 - 16 Sqmm	Tools	ISI Standard		
551	Crimping Tool >16 To 95 Sqmm	Tools	ISI Standard		
552	Crimping Tool >95-400 Sqmm	Tools	ISI Standard		
553	Heater Gun	Tools	Bosch/Stanely or Equivalent		
554	Table Wise Big	Tools	ISI Standard		
555	Table Wise C Clamp	Tools	ISI Standard		
556	C Clamp	Tools	ISI Standard		
557	Mallet	Tools	ISI Standard		
558	Solar Panel Cleaning Accessories Set	Tools	ISI Standard		
559	Barrel Opener Metal	Tools	ISI Standard		
560	Jug With Measurement Mark Up To 2Ltr	Tools	ISI Standard		
561	Funnel	Tools	ISI Standard		
562	Chessel Up To 25 Mm Dia	Tools	ISI Standard		
563	Drill Bit Metal Punch	Tools	ISI Standard		
564	F Rod	Tools	ISI Standard		
565	5 Feet Ladder weightless	Tools	ISI Standard		
566	8 Feet Ladder weightless	Tools	ISI Standard		
567	4 Feet Stool	Tools	ISI Standard		
568	Cast Iron/ Ms/Ss Welding Rod	Tools	ISI Standard		
569	Rain Coat	Tools	ISI Standard		
570	Heavy Duty Umbrella	Tools	ISI Standard		
571	Heavy Duty Torch	Tools	ISI Standard		
572	Ratchet Box Small	Tools	Taparia/ Stanley/ Equivalent		
573	Ratchet Box Big	Tools	Taparia/ Stanley/ Equivalent		

574	Alenky Set Mm/Inch	Tools	Taparia/ Stanley/ Equivalent		
575	Spanner Open End /Double End /Ratchet Type Set Up To 23	Tools	Taparia/ Stanley/ Equivalent		
576	Spanner Open End /Double End /Ratchet Type Set >23-40	Tools	Taparia/ Stanley/ Equivalent		
577	Spanner Insulated Open End /Double End /Ratchet Type Set Up To 23	Tools	Taparia/ Stanley/ Equivalent		
578	Spanner Insulated Open End /Double End /Ratchet Type Set >23-40	Tools	Taparia/ Stanley/ Equivalent		
579	Adjustable Insulated Spanner	Tools	Taparia/ Stanley/ Equivalent		
580	Tool Pouch	Tools	Taparia/ Stanley/ Equivalent		
581	Nose Plier	Tools	Taparia/ Stanley/ Equivalent		
582	Circlip Plier	Tools	Taparia/ Stanley/ Equivalent		
583	Nut Drive	Tools	Taparia/ Stanley/ Equivalent		
584	Electrical Impact Spanner Wrench Machine	Tools	Hilti/ Bosch/ Dewalt/Stanley or Equivalent		
585	Universal Spanner Socket	Tools	Hilti/ Bosch/ Dewalt/Stanley or Equivalent		
586	Drill Tools Flexible Shaft	Tools	Hilti/ Bosch/ Dewalt/Stanley or Equivalent		
587	Right Angle Drill Attachment Adaptor	Tools	Hilti/ Bosch/ Dewalt/Stanley or Equivalent		
588	Earthing Rod	Tools	ISI Standard		
589	Transformer Oil	Transformer	ISI Standard		
590	Silica jelly	Transformer	ISI Standard		

591	Portable Online Ups Upto 1 Kva	UPS	Vertiv/APC/Delta/Luminous or Equivalent		
592	Portable Online Ups 1.5- 2 Kva	UPS	Vertiv/APC/Delta/Luminous or Equivalent		
593	Spring Washer Up To Up to 25 Mm	Washer	ISI Standard		
594	1.5 Sqmm Frls Copper Wire (Red, Yellow, Blue, Black, Green)	Wire	Polycab/Finolex/K EI or equivalent		
595	2.5 Sqmm Frls Copper Wire (Red, Yellow, Blue, Black, Green)	Wire	Polycab/Finolex/K EI or equivalent		
596	4.0 Sqmm Frls Copper Wire (Red, Yellow, Blue, Black, Green)	Wire	Polycab/Finolex/K EI or equivalent		
597	6.0 Sqmm Frls Copper Wire (Red, Yellow, Blue, Black, Green)	Wire	Polycab/Finolex/K EI or equivalent		
598	10.0 Sqmm Frls Copper Wire (Red, Yellow, Blue, Black, Green)	Wire	Polycab/Finolex/K EI or equivalent		
599	16.0 Sqmm Frls Copper Wire (Red, Yellow, Blue, Black, Green)	Wire	Polycab/Finolex/K EI or equivalent		
600	25.0 Sqmm Frls Copper Wire (Red, Yellow, Blue, Black, Green)	Wire	Polycab/Finolex/K EI or equivalent		
601	0.5 Sqmm Single Core Wire Al	Wire	Polycab/Finolex/K EI or Equivalent		
602	0.5 Sqmm Single Core Wire Cu	Wire	Polycab/Finolex/K EI or Equivalent		

(SIGNATURE OF THE CONTRACTOR)

(DATE)

(COMPANY SEAL)