



LIFE INSURANCE CORPORATION OF INDIA

East Central Zonal Office, Patna

AN ISO 9001:2015 CERTIFIED DEPARTMENT



LIFE INSURANCE CORPORATION OF INDIA
EAST CENTRAL ZONAL OFFICE,
'JEEVAN DEEP', EXHIBITION ROAD, PATNA- 800001.
Phone No :0612-2503013/2503014
Email: ecz_engg@licindia.com:
website :www.licindia.in/tenders

**SUB : ANNUAL RATE CONTRACT FOR ELECTRICAL REPAIR & MAINTENANCE WORKS
INCLUDING ADDITIONS/ALTERATIONS IN LIC PROPERTIES UNDER ECZO, AT PATNA
FOR FY 2023-2024**

TENDER NOTICE

Life Insurance Corporation of India invites e-bids through website <http://www.tenderwizard.com/LIC> from empanelled for the following works as per the details given below:

Bid Documents No.	LIC/ECZO/2023-24/01 Dated 05/04/2023
Description of Works	SUB : ANNUAL RATE CONTRACT FOR ELECTRICAL REPAIR & MAINTENANCE WORKS INCLUDING ADDITIONS/ALTERATIONS IN LIC PROPERTIES UNDER ECZO, AT PATNA FOR FY 2023-2024
Up loading of tender document	05/04/2023
Downloading of tender document	Up to 23.59 hrs on 20.04.2023
Closing of tender	On 20.04.2023, at 23.59 hrs
Submission of EMD on line through NEFT	Till 23.59 hrs on 20.04.2023
Manual submission of E.M.D & tender processing fee if paid through D.D	21.04.2023 UP TO 15.00 hrs
Bid submission closing date & time	20/04/2023 at 23.59 hours
Bid opening date & time	21/04/2023 at 15.30 hours
EMD	Rs.20,000.00 (Refundable)
Tender processing fee	Rs.500/- +18% GST (Non refundable)

Note: Any addendum/corrigendum/sale date extension in respect of above tender shall be Updated on website: <http://www.tenderwizard.com/LIC> only. Bidders are therefore requested to regularly visit the said website to keep themselves updated.

Dated 05.04.2023

54.23
CHIEF ENGINEER

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LIFE INSURANCE CORPORATION OF INDIA

East Central Zonal Office, Patna

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**SUB : ANNUAL RATE CONTRACT FOR ELECTRICAL REPAIR & MAINTENANCE WORKS
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Dated 05.04.2023

CHIEF ENGINEER

LIFE INSURANCE CORPORATION OF INDIA

East Central Zonal Office, Patna

AN ISO 9001:2015 CERTIFIED DEPARTMENT**TENDER CONDITION FOR PAYMENT**

Contractors are requested to furnish below mentioned particulars so that we can refund / release their payments through NEFT / RTGS. This has to be treated as part of the Tender condition.

Sl. No.	Description		Remarks
1.	Name of the beneficiary (vendor name) as in bank records.	:	
2.	Beneficiary's Account Number	:	
3.	Account type (Savings Account, Current Account, etc.)	:	
4.	Beneficiary's Bank - Branch	:	
5.	Bank's MICR code	:	
6.	Beneficiary's Bank IFSC Code	:	
7.	Beneficiary's contact number	:	
8.	Beneficiary's e-mail ID, if any	:	
9.	PAN NO.	:	
10.	GST NO.	:	
		:	

- N.B. i) No payment will be made by Cash/Cheque. Payment will be made only through ECS.
- ii) All new Contractors as well as existing contractors have to submit the Bank details with every tender.
- iii) GST NO. OF LIC OF INDIA, BIHAR IS 10AAACL0582H2ZO

Signature of the Contractor
With date & seal

CHIEF ENGINEER

LIFE INSURANCE CORPORATION OF INDIA

East Central Zonal Office, Patna

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LETTER TO CONTRACTOR FROM CHIEF ENGINEER

Ref: ECZO/ENGG/ARC.

Date:

M/s _____

Dear Sir/s,

**SUB : ANNUAL RATE CONTRACT FOR ELECTRICAL REPAIR & MAINTENANCE WORKS
INCLUDING ADDITIONS/ALTERNATIONS IN LIC/PROPERTIES UNDER ECZO, AT PATNA
FOR FY 2023-2024**

We hereby publish the TENDER on e-tendering Portal (Website) www.tenderwizard.com/LIC in **Electronic mode** hereinafter referred as “e Tendering” and TENDER will be hereunder called as “e Tender”. The e-tender published online through above portal (website) consisting of standard tender conditions , specifications ,schedule of quantities ,drawings (if any) for above referred work .Please note that copy of the above e-tender can be downloaded from above portal (website) and should be mandatorily submitted in **Online Electronic Mode** hereinafter referred as “**Online Offer**”. The submission of Online offer duly Encrypted & Digitally signed on above portal should be in prescribed Electronic Forms (Online) available on above portal for respective tender in Online Envelope(s) on or before **As per the key Dates mentioned in the Tender Notice in this document and online portal for above tender.**

The bidders should submit required: -

2(a) Tender Fee of **Rs.500/-Plus 18% GST = Rs.590/-** (non-refundable) in the form of Demand Draft in favour of “**Life Insurance Corporation of India**” payable at Patna.

1. 2(b) Standing Earnest Money Deposit of **Rs. 20,000** (Rupees Twenty thousand only) in the form of Demand Draft in favour of “**Life Insurance Corporation of India**” payable at Patna. Earnest Money accompanying the tender will be accepted only in the form of Demand Draft/Pay Order/Banker’s Cheque of any Nationalized Bank/Approved Scheduled Bank drawn in favour of “**LIFE INSURANCE CORPORATION OF INDIA**”

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payable at “Patna” or by NEFT mode directly to LIC Account . Any tender, which is not accompanied by Earnest Money Deposit, shall be summarily rejected. No interest will be paid for the period during which the earnest money lies in deposit with the Employer.

2c) Tender document Fee and Earnest Money Deposit may also be paid through NEFT mode directly to LIC Account as detailed below.

1. Name of Bank: : **AXIS BANK LTD.**
2. Branch : **Main Branch, Patna**
3. Account No. : **142010200012704**
4. IFSC No. : **UTIB0000142**
5. Account Type : **Current**
6. **Scan copy of UTR No. and date of NEFT (for the tender cost and EMD remitted online) should be uploaded with the tender documents.**

In case of DD of Tender Fee and Demand Draft EMD shall be uploaded in BID. In addition to that physical submission of the DD for both Tender Fee & Standing EMD along with ‘Condition of Contract’ & Schedule of Rate (BID – I) should be Submitted to the Chief Engineer, East Central Zonal Office , Jeevan Deep, Exhibition Road, Patna-800001 and will be received at the office of Chief Engineer at above address on or before **As per the key Dates mentioned in the Tender Notice** and the e-Tenders will be opened at **As per the key Dates** in the presence of contractors or accredited representatives, who wish to attend the online Tender Opening process . The bidders can view the Tender opening details through their respective Log in IDs on the above mentioned e-tender portal (Website) . The tenderer should ensure that their tender is received **Online Electronically** on or before the due date and time as specified in “**Key Dates**” in the tender document and above mentioned portal(website). **Please note that above e-Tendering system is an automatically time locked system which will be locked immediately as soon as due date and time is over and will not accept any offer after that. So, the tenderer are strictly advised to do their process well before the due date and time to avoid any such instances.**

3. An annexure for guidelines to submit tenders on Electronic Tendering Systems (ETS) is attached in the tender document. The tenderer are advised to carefully read the above document for understanding of e-Tendering system. The above annexure will supersedes all the terms and conditions mentioned for submission of tender in document.

4. The Life Insurance Corporation of India is not bound to accept the lowest tender and reserves the right to reject any or all tenders without assigning any reason thereof.

Yours faithfully,

Chief Engineer

LIFE INSURANCE CORPORATION OF INDIA

East Central Zonal Office, Patna

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LETTER TO CHIEF ENGINEER FROM CONTRACTOR

Date:

To,
The Chief Engineer
Life Insurance Corporation of India
Eastern Zonal Office
Hindusthan Buildings (4th floor)
4, C.R. Avenue
Kolkata – 700 072.

Dear Sir,

**SUB : ANNUAL RATE CONTRACT FOR ELECTRICAL REPAIR & MAINTENANCE WORKS
INCLUDING ADDITIONS/ALTERNATIONS IN LIC/PROPERTIES UNDER ECZO, AT PATNA
FOR FY 2023-2024**

Having examined in details, the tender documents relating to the above works and having visited and inspected the site of the proposed works and having acquired the requisite information relating thereto as affecting the tender invited by you on behalf of the Life Insurance Corporation of India, I/We, the undersigned hereby offer to execute and maintain the proposed works on **Percentage rate basis** for above work or such other sums as may be ascertained in accordance with the said conditions.

I/We, undertake to complete the whole of works within the stipulated time as specified in Appendix to the conditions of contract from the date of issue of an intimation from you that the tender has been accepted and upon receiving possession of the site, I/We, shall be under the obligation to pay the sum as stated in the Appendix to the Conditions of contract for the period the works shall remain incomplete, for damages as compensations subject to the conditions of contract relating to an extension of time.

Yours faithfully,

(SIGNATURE OF THE CONTRACTOR WITH SEAL)

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CONDITIONS OF E-TENDERING

These conditions will over-rule the conditions stated in the tender documents, wherever relevant and applicable.

1. Registration of contractors on E-tendering Portal:-

All Contractors intending to participate in the tenders process online are required to get registered on the Electronic Tendering System on the Portal <https://www.tenderwizard.com/LIC> more details, please see the information on the Registration info link on the home page.

2. Obtaining a Digital Certificate:

- 1.The Bids submitted online should be encrypted and signed electronically with a Digital Certificate to establish the identity of the bidder bidding online. These Digital Certificates are issued by the Controller of Certifying Authorities, Government of India.
2. For DSC related issues please contact to our Help desk No. – **080-4048200/121/133/140, 9686115304, 9686115323**

Address: Antares Systems Limited.

**E-Tender Help Desk,
#24, Sudha Complex,
3rd Stage, 4th Block,
Basaveshwaranagara,
Bengaluru – 560079.**

- 2.3 The contractors may obtain Class-III digital certificate from any Certifying Authority or Sub-certifying Authority authorized by the Controller of Certifying Authorities or may obtain information and application format and documents required for the issue of digital certificate from.
- 2.4 Bid for a particular tender may be submitted online using the digital certificate, which is used to encrypt the data and sign the hash during the stage of bid preparation & hash submission. In case, during the process of a particular tender, the user loses his digital certificate (be it due to virus attack, hardware problem, operating system or any other problem) he will not be able to submit the bid online. Hence, the users are advised to keep a back up of the certificate and also keep the copies at safe place under proper security (for it's use in case of emergencies).
- 2.5 If the digital certificate issued to the authorized user of a firm is used for signing and submitting a bid, it will be considered equivalent to a no-objection certificate/ power of attorney/ lawful authorization to that User. The firm has to authorize a specific individual through an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of the firm in Life Insurance Corporation of India, Patna tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm.

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- 2.6** In case of any change in the authorization, it shall be the responsibility of management/ partners of the firm to inform the certifying authority about the change and to obtain the digital signatures of the new person / user on behalf of the firm / company. The procedure for application of a digital certificate however will remain the same for the new user.
- 2.7** The same procedure holds true for the authorized users in a private/ public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.
- 3 Set up of machine:**
In order to operate on the electronic tender management system, the user's machine is required to be set up. The machine must have running XP service Pack 3 or higher version of Windows like Vista or Window 7. Also need to install Mozilla Fire fox web browser and latest Version of Java. This can also be downloaded from the portal <https://www.tenderwizard.com/LIC>
- 4 Online Viewing of Detailed Notice Inviting Tenders:**
The contractors can view the detailed N.I.T and the time schedule (Key Dates) for all the tenders floated through the electronic tendering system on the portal <https://www.tenderwizard.com/LIC> For Tendering related issues please contact to Helpdesk No. 08040482000/121/133/140
- 5 Download of Tender Documents:**
The tender documents can be downloaded from the Electronic Tendering System through the Portal <https://www.tenderwizard.com/LIC>
- 6 Key Dates:** The contractors are strictly advised to follow dates and times as indicated in the Notice Inviting Tenders. The date and time will be binding on all contractors. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and the time of the stage as defined in the Notice Inviting Tenders.
- 7 Submission of bids** will be preceded by submission of the digitally signed bid seal (Hash) as stated in the time schedule (Key Dates) of the Tender.
- 8 Generation of Super Hash:**
After the submission of Bids (Hash) by the Contractors, the bidding round will be closed and a digitally signed Super Hash will be generated by the authorized officers of Life Insurance Corporation of India. This is equivalent to sealing the tender box.
- 9 Submission of actual online bids:**
Contractors have to submit their encrypted bids online for which they generated the hash at the stage of hash generation & submission after the generation of Super Hash. The process is required to be completed within the date and time as stated in the Notice Inviting

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Tenders (Key Dates). The electronic bids of only those contactors who have submitted their bid seals (Hashes) within the stipulated time, as per the tender time schedule (Key Dates), will be accepted by the system. A contractor who does not submit his bid seal (Hash) within the stipulated time will not be allowed to submit his bid.

Note: - Bidders participating in e-tendering shall check the validity of his/ her Digital Signature Certificate before bidding in the Tenders floated online at e-tendering portal i.e. <https://eprocurement.synise.com/LIC>

- a) No alterations or additions are to be made by the tenderer to the text or the Schedule of these tender papers. Any tender which proposes any alterations to any of the condition/s laid down or which proposes any other conditions of any description whatsoever is liable to be rejected.
- b) The tenderer is required to check the numbers of the pages and should any be found missing or in duplicate, or the figure or writing indistinct, he must inform the Chief Engineer / Issuing Officer at once and have the same rectified. Should the tenderer be in doubt about the precise meaning of any item or figure, for any reason whatsoever, he must inform Chief Engineer in order that the correct meaning may be decided upon before the date for the submission of the tender.
- c) No liability whatsoever will be admitted nor claim allowed in respect of errors in the submitted tender due to missing / duplicate pages, indistinct writing or any other error in the tender documents which should have been rectified in the manner described above.
- d) Tenderer should note that tender should remain open for consideration for a minimum period of THREE MONTHS from the date fixed for the receipt of tenders.
- e) The Life Insurance Corporation of India reserves the right to accept any tender or to accept tenders in part; to reject any or all tenders without assigning reasons thereof.

KEY DATES

S.NO.	ACTIVITES	DATE
1.	Up loading of tender	05.04.2023
2.	Downloading of tender documents	up to 23.59.Hrs on 20.04.2023
3.	Closing of Tender	On 20.04.2023 at 23.59 Hrs
4a.	Submission of EMD on line through NEFT	Till 23.59 Hrs. on 20.04.2023
4b.	Manual submission of EMD, Tender processing fee if paid through DD	up to 15 Hrs on 21.04.2023
5.	Bid submission closing date & time	20/04/2023 at 23.59 hours

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6.	Opening of Price Bid	At 15:30 Hrs. on 21/04/2023
7.	Tender documents fee	Rs.500/- plus 18% GST= Rs.590/-
8.	EMD	Rs. 20,000/-
9.	Standing Security Deposit	Rs.20,000/-

CHIEF ENGINEER

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APPENDIX TO CONDITIONS OF CONTRACT

SUB : ANNUAL RATE CONTRACT FOR ELECTRICAL REPAIR & MAINTENANCE WORKS INCLUDING ADDITIONS/ALTERNATIONS IN LIC/PROPERTIES UNDER ECZO, AT PATNA FOR FY 2023-2024

Sl. No.	Description	Remarks
1	Duration of Contract	Up to 31.03.2024 from the date of acceptance of the tender.
2	Last date for online tender submission.	Up to 23.59 Hrs. on 20.04.2023
3	Last date of physical submission of EMD, Tender Document Fees and (BID – I) signed & sealed by the tenderer in each page	Up to 15:00 Hrs. on 21.04.2023
4	Date of Opening of tender	On 21.04.2023 at 15:30 Hrs.
5	Period of honouring Bill	30 days from date of submission of bill based on joint measurements.
6	Defects Liability Period	Six months from the date of expiry of Annual Contract.
7	Contractor's All Risk Policy inclusive of Third Party Liability	Min. 7.5% of Rs. 5 lac
8	Workman's Compensation Policy	Min. 10% of Rs. 5 lac
9	Security Deposit	Total Security Deposit is Rs 20,000/- (Rupees Twenty Thousand) only . The EMD will be converted to SD and the balance amount is to be deposited by the successful tenderer.

CONTRACTOR

CHIEF ENGINEER

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GENERAL TERMS AND CONDITIONS OF CONTRACT

SUB : ANNUAL RATE CONTRACT FOR ELECTRICAL REPAIR & MAINTENANCE WORKS INCLUDING ADDITIONS/ALTERNATIONS IN LIC/PROPERTIES UNDER ECZO, AT PATNA

1)FOR FY 2023-2024

- 2) This rate contract is meant for undertaking (i) Repairing works, (ii) Renovation works, (iii) Addition and alteration work etc in our buildings in Patna and each job will be executed under specific work order for any item/ items of work (mentioned in the attached schedule) irrespective of its/ their quantity.
- 3) LIC reserves its right to accept/ reject tenders at its sole discretion without assigning any reason thereof.
- 4) The Contractors are to quote on percentage rate basis i.e. plus / minus / at par in the attached schedule of rates in words and figures, otherwise tender will not be entertained.
- 5) All quantities unless otherwise specified will be measured net finish and are to include for all cutting and wastage.
- 6) The materials and specifications of all kinds of works must be such as to comply with the LIC standard specifications and to the entire satisfaction of the Executive Engineer or his representative.
- 7) Cement will have to be arranged by the Contractor as per approved brand in Annexure 'U'. Reinforcement steel shall be minimum grade of Fe-500 (TMT bars) conforms to latest IS specification.
- 8) LIC reserves the right to reject any or all the tenders without assigning any reasons and will not be bound to accept neither the lowest tender nor any of the tenders. LIC reserves also the right to delete any item/ items of the tender thereof.
- 9) Rate to include charges for materials, labour, shuttering, curing etc and any kind of taxes, fees and duties (excise duty and Royalty) etc. **(excluding GST)** that are payable, making good the damages to match with existing finish, removal of all debris from site, covering of furniture etc. All rates should hold good irrespective of floors and heights. Works and measurements will be followed as per ISI Codes.
- 10) The Contractor shall be responsible for any damages caused/ done due to accident during the progress of work. In every case in which by virtue of the provisions of section 52, Sub-section (1) of the Workmen's Compensation Act, 1925, LIC is obliged to pay compensation to a workman employed by the Contractor in execution of the works, LIC will recover from the Contractor the amount of the compensation so paid, and without prejudice to the rights of LIC under Section 12, sub-section (2) of the said Act, LIC shall be at liberty to recover such amount or any part thereof by deducting it from the Security Deposit or from any sum due by the LIC to the Contractor whether under this Contract or otherwise.

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- 11) Notwithstanding the above, the Contractor shall have to arrange for necessary Insurance cover that are imperative for the respective jobs and Premium thereof will have to be borne by the Contractor.
LICI shall not be bound to contest any claim made against it under section 12, subsection of the said Act, except on the written request of the Contractor and upon his/ their giving to LICI full security for which LICI might become liable in consequence of contesting such claims.
- 12) Work shall comply with the latest local Municipal Regulations and carried out to our entire satisfaction. If due to violation of local Regulations by the Contractor, LICI has to incur any expenses (e.g. to meet any claims etc.) the same will be deducted from the Contractor's bill.
- 13) Contractors should visit the site before quoting rates for the works.
- 14) Actual quantities shall be measured for payment on the basis of the rates quoted. The quantities are to be read in conjunction with the specification and conditions of contract and the rates quoted shall be for doing all works as per specification complete, whether the same are reiterated or not. Unless otherwise incorporated with the tender as supplementary item/ items the rates quoted shall be inclusive of all costs and charges including arrangement for water supply to be incurred by the successful tenderer and all temporary works in connection thereto shall be deemed to have been provided unless otherwise definitely called up with the tender. In case the job necessitates barricading on the footpath for the reason of security, the Contractor shall have to arrange for the same including taking permission from the appropriate authorities at his cost and risk.
- 15) For wall painting on existing or new sand cement plastered surfaces, the mode of measurement will be net and no co-efficient factor will be considered.
- 16) While doing the painting jobs, the Contractor shall ensure that after completion of the job, floor walls and doors are cleaned properly without asking any extra payment.
- 17) Any extra item/ items that may be found necessary during the execution of the work and not originally incorporated in the schedule may be paid based on the rate analysis for Extra/ Deviated items of work. Co-efficient of labour and material wherever applicable shall be given with latest edition of CPWD rate analysis. Where such co-efficients are not available with CPWD rate analysis, the actual cost of labour/ materials involved and recorded by Suptdg. Engineer/ Executive Engineer in executing the item shall be considered with an addition thereto 15% to cover profit and other overhead charges. Rebate / escalation, if any, offered by the contractor for the group under consideration shall not be considered for rate analysis for Extra/ Deviated items of work. The

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Contractor will have to submit his claims for such extra / deviated items along with actual vouchers to the Competent Authority for verification of rates within seven days from taking up such work in hand.

- 18) The work must be completed in all respects within the specified time from the date of receiving the work order.
- 19) **LIQUIDATED DAMAGES :** If the Contractor fails to complete the work within the stipulated time period or within properly extended period of time and Executive/Superintending/ Dy. Chief Engineer certifies in writing that in his opinion the same ought reasonably so to have been completed, the Contractor shall pay or allow the Employer to recover an amount equal to 1% of the tendered / billed amount per week subject to maximum of 10% of the tendered / billed amount for the period during which the said works shall so remain incomplete. In case the liquidated damages in accordance with the above provision accrue to maximum limit of 10% of the tendered/ billed amount, LIFE INSURANCE CORPORATION OF INDIA shall be at liberty to rescind the contract and get it completed entirely at the risk and cost of the Contractor through any agency it decides to appoint. All extra expenses incurred shall be recoverable from the money due to the Contractor or lying to his credit with LIFE INSURANCE CORPORATION OF INDIA against the present or any other contract. For urgent nature of jobs, LD rates will be decided mutually.
- 20) The rates quoted by the tenderer in the tender must hold good throughout the currency of the contract.
- 21) The LIC reserves the right to entrust any work to any Contractor other than the Lowest Contractor at its sole discretion. Provided the other agencies are ready to work at the lowest contractor rate.
- 22) **Contractor should provide one qualified electrician / wireman on each working day during office hours to receive and attend complaints without cost to LIC. No additional payment shall be made in this regard.**
- 23) The lowest contractor may be awarded work upto the extent of Rs 5.00 lakhs at a single stretch. However LIC reserves the right to invite separate tender for any type of repairs, renovations, additions and alteration works in the LIC buildings irrespective of items in the Rate Contract Schedule. All major external repairs and major paintings are not covered in this Contract.
- 24) If the Contractor fails to attend the office for consecutive 3 (three) days to receive verbal instructions/ work order or if the Contractor, upon receiving written or verbal order does not undertake the work within the next 48 hours or immediately as instructed in case of emergency, the Executive Engineer/ Superintending Engineer / Dy. Chief Engineer shall have liberty to cancel the Rate Contract/ Work Order and employ other agency to get the works done.

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- 25) If any defect is noticed within six months after completion of the work, the Contractor has to rectify the same at his cost and risk, failing which LIC reserves the right to get the defect rectified through any agency and deduct the cost thereof from the Contractors bill.
- 26) The Competent Authority may due to adequate reason as he thinks fit from time to time, terminate the Contract by giving one month notice. The Contractor should then leave the buildings under his group in a decent and workable condition, failing which LIC reserves the right to take any action as deemed fit against the Contractor.
- 27) The Contractor should quote rate keeping in view that the salvage material would be taken away by the Contractor after proper checking by the department concerned and obtaining necessary gate-pass etc. However salvage value for replaced old materials will be deducted at the rate of 5% (five percent) of the value of work done. Unserviceable materials, all sorts of debris etc will have to be removed from the work site to Contractor's own dump at the Contractor's cost and risk immediately after completion of the work or even during the progress of the work in case of huge accumulation as per instruction of the Engineer-in-charges, failing which LIC reserves the right to remove the Debris through any agency and deduct the cost thereof from the Contractor's bill without any reference to him.
- 28) **MINIMUM WAGES ACT:** The Contractor shall pay rates of wages and observe hours of work and conditions of employment according to the existing rules under Minimum Wages Act. Further it shall be Contractors responsibility to ensure that he pays his workmen wages which are not lower than the minimum prescribed by the Union Government and / or State Govt.
- 29) **MEASUREMENTS :**
- A. All works shall be jointly measured with steel tape by LIC measurer on completion of work items in all respect. The Contractor's authorized representative shall sign at the end of the measurement in token of acceptance of measurements. **Contractor shall record measurement in Measurement Sheet after joint measurement with the Concerned Engineer.**
- B. Part or final payment shall be released only after necessary measurement sheets are submitted by the Contractor duly verified by and cross-checked by the Executive Engineer/Suptdg. Engineer.
- C. Contractor shall ensure that the method of measurement is in accordance with the Contract. The precision in measurement shall be as laid down in IS 1200. Any point of disagreement between the Contractor and the concerned Engineer pertaining to measurements shall be promptly referred to for the decision of the Competent Authority.

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- D. Extra/ deviated items shall be recorded by the Contractor only after duly authorized by the Executive Engineer/Suptdg. Engineer.
- E. The work shall be preferably measured in the same sequence as executed. The measurements shall be signed at the end of each session of measurements on the day of recording, as the case may be, by both the parties (i.e. Measurer / Contractor / Site Engineer).
- 30. CONCEALED WORK:** The Contractor shall give due notice to the Site Engineer whenever any work is to be buried in the earth, concrete or in the bodies of walls or otherwise, becoming hidden later on, in order that the work may be inspected and correct dimensions taken before such concealment, in default whereof the same shall, at the opinion of the Employer be either opened up for measurements at Contractor's expense or no payment made for such work. Should any dispute or difference arise after the execution of any work as to measurements etc. or other matter, which cannot be conveniently tested or checked, the notes of the Site Engineer shall be examined and the decision of Chief Engineer shall be binding on both the parties.
- 31.** The monthly bills of the Annual Rate Contract are to be submitted by the Contractor by 7th of the next month. If they fail to submit their bills by 7th of the next month, then their claims are not liable for settlement unless approved by the Competent Authority.
- 32. CONTRACT LABOUR ACT :** The Contractor shall be responsible to register themselves under the Contract Labour (Regulation and Abolition) Act, 1970 and Building & Other Construction Workers (Regulation of Employment & Condition of Services) Act, 1996 and rules there under and must comply with and carry out all the provisions and obligations under the said Act and Rules and furnish all information to Employer as may be required by it and shall also indemnify the Employer against any penalties claims etc, arising from any default on their art.
- 33. WATER & ELECTRICITY CHARGES :** The charges towards usage of water and electricity provided by Corporation shall be recovered @ 0.50% (zero point five percentage) of gross value of work and shall be recovered from the bills of the Contractor.
- 34. CONTRACTOR'S ALL RISK POLICY INCLUDING THIRD PARTY LIABILITY, DAMAGE TO NEIGHBOURING PROPERTY, LOSS OF MATERIAL AND WORKMEN'S COMPENSATION:**
- 34.1 The Contractor shall be responsible for all injury to persons, animals or things, and for all damage to structural and/or decorative part of property which may arise from the operations or neglect of himself or of any Sub-contractor or any of his Sub-Contractor's employees, whether such injury or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of his Contract. This Clause

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shall be held to include inter-alia, any damage to Building, whether immediately adjacent or otherwise and any damage to roads, streets, footpaths, bridges, or ways as well as all damage caused to the building, and the works forming the subject of this Contract by frost, rain, wind or other inclemency of the weather. The Contractor shall fully indemnify the Employer and hold him harmless in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of all and any claim made in respect of injury or damage under any acts of Government or otherwise and also in respect of any award or compensation or damages consequent upon such claim.

- 34.2 The Contractor shall fully indemnify the employer against any loss, damage or deterioration for whatever reason, of all materials brought at site and especially material supplied by or paid for partly or wholly by the employer.
- 34.3 The Contractor shall reinstate all damage and loss of every sort mentioned in this Clause so as to deliver up the whole of the Contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of the third parties.
- 34.4 The Contractor shall fully indemnify the Employer against all claims which may be made against the Employer by any member of the Public or other third party in respect of anything which may arise in respect of the works or in consequence thereof.
- 34.5 The contractor shall at his own expense arrange to effect from the date of commencement & maintain till the date of virtual completion of contract, with any licensed general insurance company, a POLICY OF INSURANCE (Contractor's All Risk Policy) to cover all such risks detailed above viz. loss, damage & third party liability etc. The policy shall be of an amount as mentioned in Appendix to Conditions of Contract and in the joint names of the employer & contractor and shall be deposited with the employer and renewed as required from time to time during the currency of the contract.
- 34.6 The Contractor shall also fully indemnify the Employer against all claims which may be made upon the Employer, whether under the WORKMEN'S COMPENSATION ACT or any other STATUTE in force during the currency of this Contract or at Common law in respect of any Employee of the Contractor or any Sub-Contractor and shall at his own expense effect and maintain until the Virtual completion of the work, with "licensed General Insurance Company" a POLICY OF INSURANCE of adequate amount in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the employer & renew the same as required from time to time during the currency of the Contract.
- 34.7 The Contractor shall be responsible for anything, which may be excluded from the Insurance Policies above referred to, and also for all other damage to any property arising out of or incidental to the negligence or defective carrying out of the Contract.

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- 34.8 The amount of insurance to be taken for the above policies will be 7.5% for All Risk Policy and 10% for Workmen Compensation Policy on the maximum value of work to be awarded as per clause No. 23 above and to be obtained before the date of commencement of work in the joint names of LIC and the contractor.
- 34.9 In default of the Contractor insuring as provided above, or having insured failing to renew the same as required the Employer on his behalf may so insure/renew and may deduct the premiums paid from any monies due or which may become due to the Contractor together with penalty as the CE deems appropriate.
- 34.10 The Contractor shall also fully indemnify the Employer in respect of any costs, charges or expenses arising out of any claim or proceedings at law and also in respect of any award of compensation of damages arising there from.
- 34.11 The Employer shall be at liberty and is hereby empowered to deduct fully the amount of any damages, compensation costs, charges and expenses arising or accruing any such claim of damage from any sum or sums due or to become due to the Contractor.
- 34.12 No coefficient for external painting on plastered surface shall be considered in case of rough surface.
- 34.13 Salvage value of fittings & fixtures (Fixed):-

Sl no	Description of item	Salvage value(Rs)
1	Battery up to 17 AH of any type	300.00
2	Battery above 17 AH of any type	500.00
3	Inverter up to 5 KVA of any make	500.00
4	Ceiling fan/wall fan/Exhaust fan/Pedestal fan/cabin fan	150.00
5	Instant type geyser of any capacity & make	100.00
6	Storage type geyser of any capacity	350.00
7	Light fitting of any capacity & any make	50.00

35. TAXES, DUTIES, LEVIES AND DEDUCTION AT SOURCE:

- 35.1 Deduction at source of Income Tax, Labour Welfare Cess etc on works contract shall be made by LIC of India as per the provisions prevailing from time to time from the Running Account or Final Bills and remitted to the concerned Taxation Authorities/State Government on behalf of the contractor.

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- 35.2 The invoices submitted by the vendor should have their GST no. clearly printed on it. The tax amount should be clearly shown in the invoice. The vendor should also mention LIC's GSTIN no on the invoice uploaded by them on GST portal.

FOR BIHAR GSTIN NUMBER : 10AAACL0582H2Z0
FOR JHARKHAND GSTIN NUMBER: 20AAACL0582H1Z0
FOR ODISHA GSTIN NUMBER : 21AAACL0582H1ZY

- 35.3 The vendor needs to display the invoice on the GST portal and remit the tax to the Govt. within specified period.
- 35.4 The measurement Sheet along with the abstract are to be checked, corrected and accepted by the vendor and then only invoice with zero correction will be raised and uploaded by the vendor on GST portal.
- 35.5 **The vendor should quote their rate considering all taxes/duties/levies/labour welfare cess etc. which are not subsumed in GST but excluding GST on works contract as applicable which will be paid extra at the rate prevailing at the time of billing. It is also advised to quote the rate after considering the input tax credit advantage and adjusting / deducting the same in the quoted rate/amount.**
- 35.6 **GST on works contract will be paid extra along with Bill payment as per applicable rate of GST at the time of billing.**
36. The Contractor's offer should be reasonably fair enough to execute the items of work. If the offer is not found to be reasonable and workable, the tender is liable to be canceled and Earnest Money Deposit be forfeited.
37. **ACCOMMODATION:**
The contractor shall be required to make his own arrangement of accommodation for his workers/staff and storage for materials.
38. For wall painting on existing or new sand faced/rough cost cement plastered surfaces, the mode of measurements will be net and no co-efficient factor will be considered for payment.

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39. TERMINATION OF THE CONTRACT:

The Competent Authority may due to adequate reason as he deems fit, terminate the Contract by giving one months notice. The Contractor should then leave the premises in a descent and workable condition. Any defect or damage found shall be made good at his cost or otherwise the defects will be rectified through some other agencies and the cost involved will be deducted from his bill and/or Security Deposit lying pending with LIC of India.

Contractor's signature _____

Address _____

Date :

Seal :

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SPECIAL CONDITION

1. The validity of tender beyond contract period may be extended at accepted rates and terms & conditions for one more year based on performance of contractor with mutual understanding but at the discretion of LIC.

2. Work shall be given to lowest tenderer. However incase lowest tenderer is not available/unable to attend the work in specified period of time for any reasons, then the work may be offered to others tenders i.e. L2, L3, L4 etc. at the lowest accepted rates who are willing to carry out work at these rates.

3. Engagement of Electrician

Contractor has to engaged trained & Experience Electrician having valid Electrical License (Supervisory) for monitoring all the electrical switch gear/ Electrical appliance/ fire alarm system etc. in main panel room & different floor. The electrician is well conversion to safe care of any type of unwanted occurrence of Electrical and fire system failure and restore the same as per advise. No additional payment shall be made in this regards.

CONTRACTOR

CHIEF ENGINEER

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ANNEXURE ' A '

LIST OF LIC BUILDINGS / PROERTIES UNDER ECZO

SL. NO.	NAME OF THE BUILDING / PROPERTY	ADDRESS
(a)	JEEVAN DEEP BUILDING	EXHIBITION ROAD, PATNA.
(b)	JEEVAN JYOTI BUILDING	EXHIBITION ROAD, PATNA.
(c)	BIHAR BIMA BHAWAN	KADAMKUAN, PATNA.

CONTRACTOR

CHIEF ENGINEER

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SPECIFICATION

1 SUB : ANNUAL RATE CONTRACT FOR ELECTRICAL REPAIR & MAINTENANCE WORKS INCLUDING ADDITIONS/ALTERNATIONS IN LIC/PROPERTIES UNDER ECZO, AT PATNA FOR FY 2023-2024

2 PREAMBLES :

- b) Unless mentioned otherwise, all works/ items shall comply with the specifications as applicable, of the Tender for original works of the LIC buildings.
- c) Description of items considered for execution or as per direction and to the approval of the Executive Engineer.
- d) All items of providing / supplying and fixing include for removal of the existing from the location, where directed, and disposal of the same, as per Conditions of Contract.
- e) All items of should be used as per approved make and work should be completed as per direction of engineer.

Signature of the contractor.

CHIEF ENGINEER

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SL. NO.	MAKES/AGENCIES/BRANDS	SL. NO.	MAKES/AGENCIES/BRANDS
1.	COPPER CONDUCTOR PVC INSULATED FR, 1.1 KV GRADE WIRE/CABLE.	2.	PVC/XLPE INSULATED ALUMINUM/ COPPER CONDUCTOR ARMOURED CABLE (HT/ LT).
	30) <u>FINOLEX</u> 31) <u>HAVELLS</u> 32) <u>RR KABLE</u> 33)V GAURD		1) <u>FINOLEX</u> 2) <u>FORT GLOSTER</u> 3) <u>CCI</u> 4) <u>RR KABLE</u> 5) DELTON
3.	MAIN SWITCH WITH HRC FUSES.	4.	MAIN SWITCH WITH REWIREABLE FUSES.
	i) <u>L&T</u> j) <u>SIEMENS</u> k) <u>GE</u> l) <u>ENGLISH ELECTRIC</u> m) <u>HAVELLS</u> n) STANDARD		1. <u>L&T</u> 2. <u>CROMPTON GREAVES</u> 3. <u>HAVELLS</u> 4. STANDARD
5.	MCCB	6.	MCB/ELCB/ELMCCB/DB
	1) <u>LEGRAND</u> 2) <u>SCHNIDER ELECTRIC</u> 3) <u>L&T</u> 4) SIEMENS		7 <u>LEGRAND</u> 8 <u>SCHNIDER ELECTRIC</u> 9 <u>HAGGER</u> 10 SIEMENS
7.	CHANGE OVER SWITCH/ SWITCH FUSE UNIT UP TO 100 AMP.	8.	CHANGE OVER SWITCH/ SWITCH FUSE UNIT ABOVE 100 AMP.
	1. <u>L&T</u> 2. <u>HAVELLS</u> 3. <u>SIEMENS</u> 4. <u>HPL</u> 5. <u>STANDARD</u>		1) <u>L&T</u> 2) <u>SIEMENS</u> 3) HPL

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SL. NO.	MAKES/AGENCIES/BRANDS	SL. NO.	MAKES/AGENCIES/BRANDS
9.	RISING MAINS	10.	PVC CONDUIT & ACCESSORIES. (ISI MARKED)
	1) <u>ENGLISH ELECTRIC</u> 2) <u>GEC</u> 3) <u>SCHNIDER ELECTRIC</u>		(5) <u>PRECISION</u> (6) <u>AVON PLAST</u> (7) <u>ESSARKE</u> (8) <u>SUDHAKAR</u> (9) <u>KALINGA</u> (10) <u>AKG</u>
11.	PVC CASSING CAPPING (ISI MARKED)	12.	M.S.CONDUIT & ACCESSORIES.
	1) <u>PRECISION</u> 2) <u>SUDHAKAR</u> 3) <u>KALINGA</u> 4) <u>AKG</u> 5) <u>DIAMOND</u>		(1) <u>SUPREME</u> (2) <u>BIC</u> (3) <u>NIC</u> (4) <u>AKG</u>
13.	FLOOR TRUNKING SYSTEM	14.	G.I. PIPE
	4 <u>LEGRAND</u> 5 <u>MK ELECTRIC</u> 6 <u>PRECISION</u> 7 <u>MODI</u>		1 <u>TATA</u> 2 <u>JINDAL</u> 3 <u>SENITH</u> 4 <u>PRAKASH</u> 5 <u>GST</u> 6 <u>APOLLO</u>
15.	MODULAR SWITCHES, ACCESSORIES & ELECTRONIC REGULATOR	16.	NON MODULAR SWITCHES, ACCESSORIES & ELECTRONIC REGULATOR
	1) <u>ANCHOR ROMA</u> 2) <u>SSK</u> 3) <u>LEADER</u> 4) <u>CRABTREE</u> 5) <u>MK</u> 6) <u>L&T</u> 7) <u>Havells</u>		1) <u>ANCHOR</u> 2) <u>LEADER</u> 3) <u>SSK</u> 4) <u>CPL</u>

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SL. NO.	MAKES/AGENCIES/BRANDS	SL. NO.	MAKES/AGENCIES/BRANDS
17.	INDUSTRIAL PLUG & SOCKETS.	18.	CEILING/ EXHAUST/ WALL FAN
	1) <u>LEGRAND</u> 2) <u>HAGER</u> 3) <u>HAVELLS</u> 4) <u>CROMPTON GREAVES</u> 5) <u>STANDARD</u>		1) <u>USHA</u> 2) <u>BAJAJ</u> 3) <u>CROMPTON GREAVES</u> 4) <u>ORIENT</u> 5) <u>ALMONARD</u>
19.	INDOOR LIGHT FITTINGS	20.	OUTDOOR LIGHT FITTINGS
	1. <u>PHILLIPS</u> 2. <u>WIPRO</u> 3. <u>CROMPTON GREAVES</u> 4. GE		f) <u>PHILLIPS</u> g) <u>WIPRO</u> h) <u>CROMPTON GREAVES</u> i) <u>GE</u> j) <u>K-LITE</u>
21.	CABLE GLANDS	22.	CABLE LUGS
	a) <u>COMET</u> b) <u>DOWELLS</u> c) <u>BRACO</u> d) SIEMENS		1) <u>DOWELLS</u> 2) COMET
23.	CONNECTORS	24.	FLUROSCENT LAMPS
	<u>ELMEX</u> <u>CONNECT WELL</u> PHONEIX		10 <u>PHILLIPS</u> 11 <u>OSRAM</u> 12 <u>CROMPTON GREAVES</u> 13 <u>BAJAJ</u> 14 GEC
25.	COMPACT FLUROSCENT LAMPS	26.	MOTOR STARTERS
	1) <u>PHILLIPS</u> 2) <u>OSRAM</u> 3) <u>HAVELLS</u> 4) WIPRO		1) <u>SIEMENS</u> 2) <u>L&T</u> 3) CROMPTON GREAVES

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SL. NO.	MAKES/AGENCIES/BRANDS	SL. NO.	MAKES/AGENCIES/BRANDS
27.	MONOBLOCK PUMPS	28.	LIGHTENING ARRESTORS
	a) <u>KIRLOSKAR</u> b) <u>CROMPTON GREAVES</u> c) CRI		1) <u>PACTIL</u> 2) <u>HECO</u> 3) <u>ATLAS</u> 4) G.K.ELECTRICALS
29.	TRANSFORMER UP TO 500 KVA	30.	TRANSFORMERS ABOVE 500 KVA
	a) <u>PACTIL</u> b) <u>EMCO</u> c) <u>CROMPTON GREAVES</u> d) <u>KIRLOSKAR</u> e) <u>GEC</u> f) TESLA		a) <u>KIRLOSKAR</u> b) GEC
31.	A.B. SWITCH & DO FUSE	32.	SELECTOR SWITCH
	1) <u>PACTIL</u> 2) <u>JENCO</u> 3) <u>CROMPTON GREAVES</u> 4) ATLAS		1) <u>KAYCEE</u> 2) <u>SIEMENS</u> 3) C&S
33.	INDICATING LAMPS	34.	CONTACTORS
	f) <u>VAISHNO</u> g) <u>ESSEN</u> h) PHILLIPS		2) <u>SIEMENS</u> 3) <u>L&T</u> 4) <u>ABB</u> 5) SCHNIDER ELECTRIC
35.	MEASURING INSTRUMENTS	36.	PF IMPROVEMENT CAPACITOR & APFC PANEL
	1. <u>AMP</u> 2. <u>MECO</u> 3. <u>AE</u> 4. <u>ENERCON</u> 5. PROK-DV's		7) <u>EPCOS</u> 8) <u>NEPTUNE</u> 9) <u>L&T</u> 10) CROMPTON GREAVES
37.	RELAY FOR AUTOMATIC PF IMPROVEMENT	38.	CURRENT TRANSFORMER

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	VII) <u>EPCOS</u> VIII) <u>CONZERVE</u> IX) <u>L&T</u>		ii) <u>AE</u> iii) <u>RISHAB</u> iv) <u>KUPPA</u> v) <u>L&T</u>
39.	DATA CABLES & FACTORY MADE PATCH CORDS	40.	INFORMATION OUTLET/ RJ-45 CONECTORS/RJ-11 SOCKETS
	1. <u>LEGRAND</u> 2. <u>D-LINK</u> 3. <u>FINOLEX</u> 4. <u>MOLEX</u> 5. AMP		1) <u>D-LINK</u> 2) <u>LEGRAND</u> 3) <u>MOLEX</u> 4) <u>SYSTEMAX</u> 5) AMP
41.	TELEPHONE WIRES	42.	RG 6 CABLE FOR TV
	1. <u>FINOLEX</u> 2. <u>DELTON</u> 3. <u>HAVELLS</u> 4. RR KABLE		1) <u>FINOLEX</u> 2) <u>DELTON</u> 3) NATIONAL
43.	JACK PANEL	44.	RACK
	1. <u>D-LINK</u> 2. <u>LEGRAND</u> 3. <u>MOLEX</u> 4. <u>SYSTEMAX</u> 5. <u>VALRACK</u> 6. AMP		1. <u>VALRACK</u> 2. <u>DIGITRON</u> 3. <u>HCL</u> 4. A LINK
45.	FIRE ALARM PANEL	46.	SMOKE & HEAT DETECTORS
	1) HONEYWELL 2) CARMEL 3) ZICOM 4) NOTIFIER 5) MIRCOM/SECUTRON 6) MORLEY IAS		1) APPOLO 2) MORLEY IAS 3) EDWARD 4) SYSTEM SENSOR 5) HONEYWELL 6) MIRCOM/SECUTRON
	MANUAL CALL POINTS/ HOOTER/ RESPONSE INDICATOR	47.	48.
	1) <u>HONEYWELL</u> 2) <u>ZICOM</u> 3) <u>NOTIFIER</u> 4) <u>SIMPLEX</u> 5) <u>CARMEL</u> 6) MIRCOM/ SECUTRON		1) <u>PHILLIPS</u> 2) <u>WIPRO</u> 3) <u>CROMPTON GREAVES</u>

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PART (A) (WORK WITH REQUIRED MATERIALS)

SECTION A: INTERNAL ELECTRICAL WIRING & ACCESSORIES			
Item No.	Description	Rate	Unit
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 3x1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed Steel conduit , with piano type switch , phenolic laminated sheet, suitable size MS/ PVC box and earthing etc. as required.	862	Point
2	Wiring for twin control light point with 3x1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed Steel conduit , 2 way piano type switch , phenolic laminated sheet, suitable size MS box and earthing the point with 1x 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	1257	Point
3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 2x1.5 sq.mm FRLS PVC insulated copper conductor point with 1x1.5 sq.mm FRLS PVC insulated copper single core cable in surface / recessed Steel conduit , with conductor modular switch , modular plate , suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	887	Point
4	Wiring for twin control light point with 3x 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit , 2 way modular switch , modular plate , suitable size MS box and earthing the point with 1x1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	1354	Point

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Item No.	Description		Unit
5	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single/ multi core cable in surface/ recessed PVC conduit (FRLS-Medium Class) , along with 1 No. 2.5 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	279	Metre
6	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single/ Multi core cable in surface/ recessed PVC conduit (FRLS-Medium Class) along with 2 Nos. 2.5 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	411	Metre
7	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor , single/ multi core cable in surface/ recessed PVC conduit (FRLS-Medium Class) as required.		
a	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	219	Metre
b	2 X 2.5 sq. mm + 1 X 1.5 sq. mm earth wire	276	Metre
c	2 X 4 sq. mm + 1 X 2.5 sq. mm earth wire	374	Metre
d	2 X 6 sq. mm + 1 X 4 sq. mm earth wire	447	Metre
e	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	582	Metre
f	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	355	Metre
g	4 X 2.5 sq. mm + 2 X 1.5 sq. mm earth wire	355	Metre
h	4 X 4 sq. mm + 2 X 2.5 sq. mm earth wire	426	Metre
i.	4 X 6 sq. mm + 2 X 4 sq. mm earth wire	555	Metre
j	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	703	Metre
k	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	993	Metre

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8	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit (FRLS), with piano type switch , phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required.	728	Point
9	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit(FRLS) , 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	1023	Point
10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor point with 1.5 sq.mm FRLS PVC insulated copper single core cable in surface / recessed medium class PVC conduit(FRLS) , with conductor modular switch, modular plate , suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	753	Point
11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC condui(FRLS)† , 2 way modular switch , modular plate , suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	1109	Point
12	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit(FRLS) alongwith 1 No. 2.5 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	210	Metre

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13	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit(FRLS) alongwith 2 Nos. 2.5 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	323	Metre
14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single/ Multi core cable in existing conduit/ casing capping.		
a	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	153	Metre
b	2 X 2.5 sq. mm + 1 X 1.5 sq. mm earth wire	175	Metre
c	2 X 4 sq. mm + 1 X 2.5 sq. mm earth wire	210	Metre
d	2 X 6 sq. mm + 1 X 4 sq. mm earth wire	261	Metre
e	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	344	Metre
f	2 X 16 sq. mm + 1 X 6 sq. mm earth wire	440	Metre
g	4 X 2.5 sq. mm + 2 X 1.5 sq. mm earth wire	244	Metre
h	4 X 4 sq. mm + 2X 2.5 sq. mm earth wire	323	Metre
i	4 X 6 sq. mm + 2 X 4 sq. mm earth wire	413	Metre
j	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	570	Metre
k	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	789	Metre
15	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single/ Multi core cable and 1.5 sq.mm FRLS PVC insulated conductor single core cable as earth wire in existing surface/copper recessed steel/PVC conduit including dismantling as required.	437	Point

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16	Rewiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.	671	Point
17	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single/ multi core cable in the existing surface/ recessed steel/ PVC conduit as required.		
a	1 x 1.5 sq. mm	39	Metre
b	2 x 1.5 sq. mm	61	Metre
c	3 x 1.5 sq. mm	83	Metre
d	4 x 1.5 sq. mm	105	Metre
e	2 x 2.5 sq. mm	86	Metre
f	3 x 2.5 sq. mm	120	Metre
g	4 x 2.5 sq. mm	155	Metre
h	2 x 4 sq. mm	128	Metre
i	3 x 4 sq. mm	180	Metre
j	4 x 4 sq. mm	241	Metre
k	5 x 4 sq. mm	295	Metre
l	2 x 6 sq. mm	189	Metre
m	3 x 6 sq. mm	266	Metre
n	4 x 6 sq. mm	352	Metre
o	5 x 6 sq. mm	430	Metre
	Telephone Wiring		
18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC required.conduit as required.		

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a	1 Pair	27	Metre
b	2 Pair	33	Metre
c	Supply and fixing RJ 11 socket on suitable size GI box with modular cover & plate on surface/recess complete including connection painting etc as required.	279	Each
d	Same as above but dual type	334	Each
e	Supply, installation, testing & commissioning of 10 Pair MDF Krone modules with lock & key arrangement to be fixed on surface/recess as directed including connections as required.	243	Each
19	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	34	Metre
<u>Conduit and Accessories</u>			
20	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.	0	
a	20 mm	195	Metre
b	25 mm	224	Metre
c	32 mm	285	Metre
d	40 mm	412	Metre
e	50 mm	512	Metre

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21-A	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.		
a	20 mm	112	Metre
b	25 mm	127	Metre
c	32 mm	161	Metre
d	40 mm	200	Metre
e	50 mm	249	Metre
21-B	Supply & Fixing of following size PVC casing & Capping on the surface of wall / partition, including accessories		
	(a) 20 x 12mm	28.00	Metre
	(b) 25 x 12mm	33.00	Metre
	(c) 32 x 12mm	42.00	Metre
21-C	Supply & laying of 100mm x 100mm size PVC cable tray on the surface of the wall.	164.00	Metre
24-D	Supply & laying of ¾ " size PVC flexible conduit	25.00	Metre
22	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.		
a	75 mm X 75 mm X 60 mm deep	156	Each
b	100 mm X 100 mm X 60 mm deep	183	Each
c	150 mm X 75 mm X 60 mm deep	189	Each
d	150 mm X 150 mm X 60 mm deep	273	Each
e	180 mm X 100 mm X 60 mm deep	215	Each
f	200 mm X 125 mm X 60 mm deep	283	Each
g	200 mm X 150 mm X 60 mm deep	311	Each

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h	200 mm X 150 mm X 75 mm deep	318	Each
i	200 mm X 250 mm X 60 mm deep	410	Each
j	200 mm X 250 mm X 75 mm deep	428	Each
k	200 mm X 150 mm X 100 mm deep	361	Each
l	200 mm X 250 mm X 100 mm deep	444	Each
m	200 mm X 300 mm X 60 mm deep	460	Each
n	200 mm X 300 mm X 100 mm deep	492	Each
o	250 mm X 300 mm X 60 mm deep	532	Each
p	250 mm X 300 mm X 100 mm deep	572	Each
23	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.		
a	5/6 amps switch	46	Each
b	2 way 5/6 A switch	56	Each
c	15/16 A switch	106	Each
d	3 pin 5/6 A socket outlet	60	Each
e	6 pin 15/16 A socket outlet	120	Each
f	Telephone socket outlet	96	Each
g	TV antenna socket outlet	83	Each
h	Bell push	73	Each
24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
a	5/6 amps switch	90	Each
b	2 way 5/6 A switch	130	Each
c	15/16 A switch	137	Each
d	3 pin 5/6 A socket outlet	107	Each
e	6 pin 15/16 A socket outlet	173	Each
f	Telephone socket outlet	130	Each
g	TV antenna socket outlet	130	Each

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h	Bell push	123	Each
25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	323	Each
26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	35	Each
27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.		
a	1 or 2 Module (75mmX75mm)	261	Each
b	3 Module (100mmX75mm)	287	Each
c	4 Module (125mmX75mm)	301	Each
d	6 Module (200mmX75mm)	352	Each
e	8 Module (125mmX125mm)	398	Each
f	12 Module (200mmX150mm)	480	Each
28	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.		
a	1 or 2 Module	117	Each
b	3 Module	132	Each
c	4 Module	139	Each
d	6 Module	160	Each
e	8 Module	185	Each
f	12 Module	238	Each

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29	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 A socket outlet and 5/6 A piano type switch , connections, painting etc. as required.	314	Each
30	Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required.	428	Each
31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch , connections etc. as required.	418	Each
32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	514	Each
33	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	76	Each
34	Supplying and fixing brass batten/ angle holder including connection etc. as required.	187	Each

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35	Installation ,Testing, Commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.	104	Each
36	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	87	Each
37	Providing and fixing plain 16/0.20mm (0.50sqmm) twin flat flexible, FRLS PVC insulated, copper conductor cable, in PVC sleeve of suitable size on the floor/ wall, or side of the table/ door etc. as required.	39	Each
38	Providing and fixing plain 16/0.20mm (0.50sqmm) twin circular flexible FRLS PVC insulated, PVC sheathed copper conductor cable direct on the wall with PVC clips etc. as required.	35	Each
39	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required. Each 168	181	Each

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40	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types , complete with all accessories and tube/lamp etc., including supplying and fixing ball and socket arrangement, 2 Nos. down rods of 20 mm dia X 1.6 mm thick steel conduit upto 30 cm length, painting and wiring the down rods and connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	413	Each
41	Installation, testing and commissioning of ceiling fan , including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	187	Each
42	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	297	Each
43	Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.	5	Each
44	Installation of exhaust fan in the existing opening , including making good the damage, connection, testing, commissioning etc. as required.		
a	Upto 450 mm sweep	381	Each
b	510 mm sweep	549	Each
44.1	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	176	Each

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44.2	Supply & installation of a set consisting of 3 Nos. 10 Amps 5 pin moduler multi socket & 2 Nos. of 10 Amps Modular switch including suitable depth modular type PVC recessed type / surface type switch box(8 module) & modular range faceplate & inner cover of same make to be concealed in partition / wall / work station etc including all connection & earthing with electrical wiring 2 x 2.5 + 1 x 1.5 sq. mm PVC insulated Cu. wires up to 4.0 mtrs length.	1450	Each
	Data Net work		
44.3	SITC of E CAT 6 UTP cable for the data circuit through the existing PVC/MS conduit. Rate is included for termination on either end or as directed.	38	RM
44.4	Supplying and fixing 1 Mtr long factory fabricated patch cord with RJ 45 jacks on either end.	174	Each
44.5	Supplying and fixing 2 Mtr long factory fabricated patch cord with RJ 45 jacks on either end.	199	Each
45	Supplying and fixing 5 Mtr long factory fabricated patch cord with RJ 45 jacks on either end.	456	Each
46	Supply and fixing RJ 45 Information outlet socket on suitable size GI box with modular cover & plate on surface/recess complete including connection painting etc as required.	472	Each
47	S/F of RJ-45 Connector	56	Each

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48	SITC of 19" Modem Rack including supply of Tray, Cable Manager, Main Power Distribution Unit etc. with all necessary connection / termination for Cat-6 UTP cable. (Make : D-Link, VALRACK, HCL VEROPRESIDENT).		
A	12 U Rack	8361	Set
B	9 U Rack	7184	Set
C	6 U Rack	6008	Set
49	Supply installation testing commissioning of 24 port patch panel for CAT 6 UTP cable in existing modem rack including connection as required.	4455	Set
	SECTION- B : ELECTRICAL FITTING, FIXTURES & ACCESSORIES	0	
50	Supply and delivering to site the following electrical luminaries complete with all the accessories as required.		
a)	1x40 W box type surface mounted fluorescent light fitting complete with high power factor copper ballast and tube. (Comparable to Phillips Cat. No. TMS021 1xTL-D36W IC)	590	Each
b)	1x28 W box type surface mounted fluorescent light fitting complete with high power factor electronic ballast and T-5 tube.	586	Each
51	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types , with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core multistrand cable and earthing etc. as required.	104	Each

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52	Installation, testing and commissioning of pre-wired, fluorescent fitting/ compact fluorescent fitting of all types, with all accessories and tube etc., including supplying and fixing ball and socket arrangement, 2 no. down rods of 20 mm dia X 1.6 mm thick steel conduit upto 30 cm length, painting and wiring the down rods and connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc as required.	192	Each
53	Installation, testing and commissioning of pre-wired, fluorescent fitting/ compact fluorescent fitting/LED 2' x2' light fitting of all types, with all accessories and tube etc., including suspending arrangement with 2 no. chains of required length, fixing in the existing opening in false ceiling and connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc as required.	172	Each
54	Installation, testing and commissioning of pre-wired, down lighter fitting of all types, with all accessories and lamp etc., including fixing in the existing opening in false ceiling and connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing with proper support from ceiling etc as required.	113	Each
55	- DO - as above but with proper support from true ceiling with chain, fastner etc as required. (DELETED)	DELETED	
56	Supply and replacement of following spares in the existing light fittings complete as required.		
a)	Vacuum pressure impregnated copper ballast suitable for 1x36W/ 40 W FTL.	395	Each

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b)	Vacuum pressure impregnated copper ballast suitable for 1x18W/ 20W	265	Each
c)	Electronic ballast for T-5 28/36 W. FTL	438	Each
d)	2x18W copper ballast	488	Each
e)	Starter suitable for 1x 36 W/40 W FTL.	28	Each
f)	Rotary holder for starter/tube suitable for 1x36 W/40 W FTL.	32	Each
g)	Lamp holder/adapter suitable for 18/36 W PL lamp.	43	Each
h)	Electronic ballast suitable for 1x36 W/40 W FTL	367	Each
i)	Electronic ballast (high power factor) suitable for 1x36 W PL Lamp.	367	Each
j)	Electronic ballast (high power factor) suitable for 2x36 W PL Lamp.	662	Each
k)	Vacuum pressure impregnated copper ballast suitable for 1x18 W PL lamp.	265	Each
57	Supply and replacement of following lamps in the existing light fittings complete as required.	0	
a)	14/28 W T-5 fluorescent tube	123	Each
d)	11 - 18W PL lamp	158	Each
c)	36 W PL Lamp	193	Each
i)	36/40 Watt tube light.	83	Each
j)	20 Watt tube light.	76	Each
k)	15/25/40/60/100 Watt GLS lamp	32	Each
l)	Lamp holder for 18 - 40 Watt FTL & 14 - 28 Watt T-5 tubelight.	28	Each
m)	Starter Holder	28	Each
58.a)	Supply & fixing of 1x36/40 Watt fluorescent tube ROD in Street light fitting.	97	Each
b)	Supply & fixing of 18/20 Watt copper choke for tube light in Street light fitting.	265	Each

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c)	Supply & fixing of 36/40 Watt copper choke for tube light in Street light fitting.	395	Each
d)	Supply & fixing of 18 - 40 Watt starter for tube light in Street light fitting.	43	Each
e)	DO - as above but for lamp holder/ starter holder	43	Each
59.a	LED TUBE LIGHT FITTINGS ON WALL:-Supply, installation, testing and comissioning of Ultra modern minimum 24 Watt LED tubelight type luminaire of approved make including 01 no 24 watt LED Tube light mounted directly on wall with PVC round block including all connection . The model number of CROMPTON make is LCCLB24-CDL or its equivalent make in PHILIPS and WIPRO etc.	1201	Each
b	LED TUBE LIGHT FITTINGS ON WALL:-Supply, installation, testing and comissioning of Ultra modern minimum 08 Watt LED tubelight type luminaire of approved make including 01 no 08 watt LED Tube light mounted directly on wall with PVC round block including all connection . The model number of CROMPTON make is LCCLB08-CDL or its equivalent make in PHILIPS and WIPRO etc.	625	Each

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60.a	LED TUBE LIGHT FITTINGS ON WALL:-Supply, installation, testing and comissioning of Ultra modern minimum 18 Watt LED tubelight type luminaire of approved make including 01 no 18 watt LED Tube light mounted directly on wall with PVC round block including all connection . The model number of CROMPTON make is LCTL-18-CDL or its equivalent make in PHILIPS and WIPRO etc	543	Each
b	LED TUBE LIGHT FITTINGS ON WALL:-Supply, installation, testing and comissioning of Ultra modern minimum 09 Watt LED tubelight type luminaire of approved make including 01 no 09 watt LED Tube light mounted directly on wall with PVC round block including all connection . The model number of CROMPTON make is LCTL-9-CDL or its equivalent make in PHILIPS and WIPRO etc.	501	Each
61 a	LED lamp of 5W capacity suitable for batten holder	143	Each
b	Do- but 7W capacity	152	Each
c	Do- but 9W capacity	161	Each
d	Do- but 12W capacity	170	Each
e	Supply and fixing of LED 18 Watt	249	Each

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62.a	RECESSED LED 2 X 2 FT FITTINGS:- Supply, installation, testing and commissioning of LED recessed fittings Of 36 watt system power suitable for 2 x 2 tile of armstrong/grid/pop ceiling complete with separate electronic driver . The fitting will provide glare free illumination with longer life and less maintenance. The model number of CROMPTON make is LCTRLN-36-FO-CDL or its equivalent make in PHILIPS and WIPRO etc.	2422	Each
b	LED 2 X 2 FT FITTINGS:- Supply, installation, testing and commissioning of LED recessed fittings Of 40 watt system power suitable for 2 x 2 tile of armstrong/grid/pop ceiling complete with separate electronic driver . The fitting will provide glare free illumination with longer life and less maintenance of Wipro make model no. D414065 or its equivalent make in PHILIPS and Crompton etc.	3181	Each
c	LED 1 X 1 FT FITTINGS:- Supply, installation, testing and commissioning of LED recessed fittings Of 18 watt system power suitable for armstrong/grid/pop ceiling complete with separate electronic driver . The fitting will provide glare free illumination with longer life and less maintenance. The model number of CROMPTON make is LCDSPLN-18-CDL or its equivalent make in PHILIPS and WIPRO etc.	1425	Each

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d	Supply, installation, testing and commissioning of outdoor type LED light fittings with LED light of 20 watt comparable to Philips make BRPO22 LED 21 CW MR S1 PSU GR. The rate is inclusive of fixing the fittings in existing pole/wall with suitable size pipe, clamps etc., alongwith connection by 3x1.5 sq mm FR PVC wire.	3934	Each
e	RECESSED LED 1 X 1 FT FITTINGS:- Supply, installation, testing and commissioning of LED recessed fittings Of 18 watt system power suitable for armstrong/grid/pop ceiling complete with separate electronic driver . The fitting will provide glare free illumination with longer life and less maintenance. The model number of CROMPTON make is LCTRLN-18-CDL or its equivalent make in PHILIPS and WIPRO etc.	2043	Each
f)	DOWN LIGHTER LED FITTINGS:- Supply, installation, testing and commissioning of LED recessed ROUND DOWN LIGHTER fittings Of 20 watt system complete with electronic driver. The fitting will provide glare free illumination with longer life and less maintenance. The model number of WIPRO make is DG12027 or its equivalent make in PHILIPS and CROMPTON etc.	1109	Each
g)	DOWN LIGHTER LED FITTINGS:- Supply, installation, testing and commissioning of LED recessed ROUND DOWN LIGHTER fittings Of 09 watt system complete with electronic driver. The fitting will provide glare free illumination with longer life and less maintenance. The model number of CROMPTON make is LCDE-09-CDL or its equivalent make in PHILIPS and WIPRO etc.	631	Each

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h)	DOWN LIGHTER LED FITTINGS:- Supply, installation, testing and commissioning of LED recessed ROUND DOWN LIGHTER fittings Of 18 watt system complete with electronic driver. The fitting will provide glare free illumination with longer life and less maintenance. The model number of CROMPTON make is LCDE-09-CDL or its equivalent make in PHILIPS and WIPRO etc.	804	Each
63	DOWN LIGHTER LED FITTINGS:- Supply, installation, testing and commissioning of LED recessed ROUND DOWN LIGHTER fittings Of 06 watt system complete with electronic driver. The fitting will provide glare free illumination with longer life and less maintenance. The model number of CROMPTON make is LCDE-06-CDL or its equivalent make in PHILIPS and WIPRO etc.	543	Each
64	Cleaning of Wall mounted/ suspended light fittings.	20	Each
65	Dismantling and shifting of wall mounted/ suspended light fitting from one bldg. to other bldg. complete with connections as directed.	91	Each
66	Dismantling of T.L. sets & handing over to LICl.	61	No.
67	Shifting of T.L.set from one place to another place(same building) with connection. .	81	No.
68	Replacement of clear acrylic of 1x40 W street light fittings including dismantling the old defective cover	395	Each
69	Replacement of clear acrylic of 2x40 W street light fittings including dismantling the old defective cover	527	Each

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	SECTION - C : ELECTRICAL FITTING, FIXTURES & ACCESSORIES	0	
70	Supply & transporting to site following dimensions of ceiling fans complete with standard down rod, condenser canopy as required.	0	
	Note: The contractor has to submit the copy of the warranty card along with the bill.	0	
a)	48" (1200 mm) sweep	1631	Each
b)	56" (1400 mm) sweep	1925	Each
71	Supply & transporting to site following dimensions of exhaust fans complete with all accessories.	0	
a)	9" dia.(225 mm Sweep).	1542	Each
72	Supply & transporting to site following dimensions of exhaust fans complete with all accessories		
a))	12" dia.(305).	1651	Each
73	18" dia.(450 mm Sweep), heavy duty, single phase Exhaust fan.	5653	Each
	Note: The contractor has to submit the copy of the warranty card along with the bill)		
74	Supply & transporting to site 400 mm sweep wall mounting fan (oscillation type) with metal body & blades with pull cord for speed regulation and all necessary accessories.	3200	Each
	<i>Note: The contractor has to submit the copy of the warranty card along with the bill)</i>		
75	Supply & installation of 300 mm Exhaust fan (Heavy duty) on the existing circular opening with aluminium louvers and all necessary connections of crompton/orient/bajaj/ushaq make.	3439	Each

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76	Supply & transporting to site 400 mm sweep pedestal fan (oscillation type), plastic body & blades with speed regulation and all necessary accessories.	2043	Each
	<i>Note: The contractor has to submit the copy of the warranty card along with the bill)</i>	0	
78	Installation, testing and commissioning of ceiling fan (48"/56" dia.), including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.	148	Each
79	Installation, testing and commissioning of ceiling fan (48"/56" dia.), including wiring the down rods of standard length (upto 40 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	176	Each
80	Supplying and fixing extra down rod of G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required.	27	Metre
81	Supplying and fixing extra down rod of G.I. pipe, 20 mm dia, heavy gauge including painting etc. as required.	30	Metre
82	Installation of exhaust fan up to 450 mm sweep in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.	143	Each
83	Supply and fixing the louvers/ shutters complete with frame for an exhaust fan of all sizes.	346	Each

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84	Installation, testing & commissioning of wall bracket fan/ pedestal fan of all sizes completes with all accessories including connection etc. as required.	72	Each
85	Installation, testing & commissioning of exhaust fan of all sizes on appropriate size of plywood 12 mm thick with center hole completes with all accessories including connection etc. as required.	280	Each
86	Rewinding of ceiling fans/ exhaust fans/ wall mounted fans/ cabin fans with varnished copper wire of standard size, varnishing, baking etc. including dismantling from site, reinstalling, overhauling, testing and commissioning complete as required.	0	
a)	Ceiling fan 48" (1200 mm) sweep	555	Each
b)	Ceiling fan 56 "(1400 mm) sweep	555	Each
c)	Cabin fan/ Wall mounting fan/Pedestal fan 400 mm sweep	672	Each
d)	Exhaust fan 9" (225mm)sweep	614	Each
e)	Exhaust fan 12" (305mm) sweep	614	Each
f)	Exhaust fan 18" (450 mm) sweep	1084	Each
87	Supplying and fixing ball bearing of SKF, NBC or NORMA make only including dismantling existing Ball bearings for all sizes of fans (Rate per no.)	257	Each
88	Supplying and fixing condenser only including dismantling existing condenser for all sizes of fans	75	Each
89	Supply and fixing bush bearing of all sizes including dismantling existing bush bearing.	150	Each

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90	Painting of ceiling fan/ exhaust fans of all sizes with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent oiling/ greasing etc as required.	142	Each
91	Overhauling of ceiling fans/ exhaust fans/pedestal of all sizes including cleaning the surface, oiling/ greasing etc as required.	86	Each
92	Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.	51	Each
93	Dismantling and re-fixing of ceiling fan from one place to another place as directed complete with all connections as required.	232	Each
94	Supply & fixing of Pedestal/cabin/Exhaust fan blade	230	Each
95	Supplying and fixing of fan hook "S" type of (plain) 12mm dia. M.S. rod. The fan hook shall be fixed to the R.C.C ceiling & plastered to the original finish.	243	Each
96	Dismantling of ceiling fan and handing over the same to LIC.	58	Each
97	Supply & fixing of resistance type regulator for ceiling fan 42"/48"/56" including dismantling of old defective regulator.	257	Each
98	Supply & installation of heavy duty exhaust fan 12" dia on appropriate size of 12 mm thick plywood with central hole and all required accessories including all modification to the window.	2406	Each
99	DO -- as above but without plywood board and the fan will be fixed on wall after making suitable hole on the same.	2474	Each

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100	DO -- as above but on existing plywood board / existing hole on wall.	1519	Each
101	Supply & installation of heavy duty exhaust fan 9" dia on appropriate size of 12 mm thick plywood with central hole and all required accessories including all modification to the window.	2331	Each
102	DO -- as above but without plywood board and the fan will be fixed on wall after making suitable hole on the same.	2399	Each
103	DO -- as above but on existing plywood board / existing hole on wall.	1444	Each
104	Supply & fixing of 6" dia plastic / fibre body ventilation fan with embeded louvre in existing opening on wall/window.	1338	Each
105	Supply & fixing of suitable size exhaust fan MS louvers on the existing wall opening.	524	Each
106	Cleaning of ceiling / pedestal/ exhaust fans.	74	Each
i)	Replacement of geyser box of wall fan.	189	Each
ii)	Replacement of damaged canopy of Ceiling fan.	136	Set
	SECTION- D : MV/HV CABLE LAYING, EARTHING & ACCESSORIES.	0	
	<u>ALUMINIUM CONDUCTOR CABLES (1.1 KV GRADE)</u>	0	
107	Supply and laying of Aluminum conductor XLPE insulated and PVC sheathed armoured power cable of 1.1 KV grade of following sizes as required in existing trench/pipe/cable tray.	0	
a)	2 Core,4 Sq.mm	97	Metre
b)	2 Core,6 Sq.mm	108	Metre
c)	2 Core,10 Sq.mm	124	Metre
d)	4 Core, 6 Sq.mm	129	Metre

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e)	4 Core, 10 Sq.mm + 2 run of 12 SWG GI wire.	163	Metre
f)	4 Core, 16 Sq.mm + 2 run of 12 SWG GI wire.	181	Metre
g)	3.5/ 4 Core, 25 Sq.mm+ 2 run of 12 SWG GI wire.	219	Metre
h)	3.5/ 4 Core, 35 Sq.mm+ 2 run of 12 SWG GI wire.	253	Metre
i)	3.5/ 4 Core, 50 Sq.mm+ 2 run of 12 SWG GI wire.	330	Metre
j)	3.5/ 4 Core, 70 Sq.mm+ 2 run of 12 SWG GI wire.	431	Metre
k)	3.5/ 4 Core, 95 Sq.mm+ 2 run of 12 SWG GI wire.	527	Metre
l)	3.5/ 4 Core, 120 Sq.mm+ 2 run of 12 SWG GI wire.	641	Metre
m)	3.5/ 4 Core, 150 Sq.mm+ 2 run of 12 SWG GI wire.	746	Metre
n)	3.5/ 4 Core, 185 Sq.mm	920	Metre
o)	3.5/ 4 Core, 240 Sq.mm	1182	Metre
p)	3.5/ 4 Core, 300 Sq.mm	1423	Metre
q)	3.5/ 4 Core, 400 Sq.mm	1781	Metre
108	Supply and laying to site of Copper conductor PVC/XLPE insulated and PVC sheathed armoured power cable of 1.1 KV grade of following sizes as required in existing trench/pipe/cable tray.	0	
a)	2 Core,2.5 Sq.mm	121	Metre
b)	2 Core,4 Sq.mm	150	Metre
c)	2 Core,6 Sq.mm	190	Metre
d)	2 Core,10 Sq.mm	287	Metre
e)	4 Core, 6 Sq.mm	307	Metre
f)	4 Core, 10 Sq.mm	477	Metre
g)	4 Core, 16 Sq.mm	677	Metre

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109	Preparation of trench for PVC/XLPE insulated and PVC sheathed armoured power cable of 1.1 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.	572	Metre
110	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.	0	
a)	100 mm dia.	551	Metre
b)	150 mm dia.	628	Metre
c)	250 mm dia.	736	Metre
111	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and refilling etc as required.	0	
a)	50 mm dia.	562	Metre
b)	80 mm dia.	843	Metre
c)	100 mm dia.	1168	Metre
112	Providing and fixing following dia G.I. pipe (medium class) for protection of cable with necessary MS clamp for support complete with G.I. etc as required.	0	
a)	50 mm dia.	518	Metre
b)	80 mm dia.	758	Metre
c)	100 mm dia.	1035	Metre
MV CABLE JOINTING & END TERMINATION		0	

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113	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC/ XLPE insulated, PVC sheathed armoured aluminum conductor cable of 1.1 KV grade as required.	208	
a)	Up to 2 core 6 Sq.mm.	208	Set
b)	2 core 10.0 Sq.mm	208	Set
c)	Up to 3 core 10 Sq.mm	222	Set
d)	Up to 4 core 10 Sq.mm	230	Set
e)	4 core 16 Sq.mm	262	Set
f)	3.5/ 4 core 25 Sq.mm	262	Set
g)	3.5/ 4 core 35 Sq.mm	315	Set
h)	3.5/ 4 core 50 Sq.mm	345	Set
i)	3.5/ 4 core 70 Sq.mm	386	Set
j)	3.5/ 4 core 95 Sq.mm	496	Set
k)	3.5/ 4 core 120 Sq.mm	513	Set
l)	3.5/ 4 core 150 Sq.mm	582	Set
m)	3.5/ 4 core 185 Sq.mm	736	Set
n)	3.5/ 4 core 240 Sq.mm	849	Set
o)	3.5/ 4 core 300 Sq.mm	982	Set
p)	3.5/ 4 core 400 Sq.mm	1269	Set
114	Supplying and making outdoor end termination & cable jointing with cast resin compound including aluminium lugs and other jointing materials for following size of PVC/XLPE insulated, PVC sheathed armoured aluminium conductor cable of 1.1 KV grade as required.	0	
a)	3.5/ 4 core 25 Sq.mm	1397	Set
b)	3.5/ 4 core 35 Sq.mm	1494	Set
c)	3.5/ 4 core 50 Sq.mm	1494	Set
d)	3.5/ 4 core 70 Sq.mm	1643	Set

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e)	3.5/ 4 core 95 Sq.mm	1777	Set
f)	3.5/ 4 core 120 Sq.mm	1777	Set
g)	3.5/ 4 core 150 Sq.mm	2400	Set
h)	3.5/ 4 core 185 Sq.mm	1872	Set
i)	3.5/ 4 core 240 Sq.mm	2786	Set
j)	3.5/ 4 core 300 Sq.mm	3074	Set
k)	3.5/ 4 core 400 Sq.mm	3528	Set
	EARTHING & ACCESSORIES :	0	
115	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc with charcoal/ coke and salt etc. as required.	4231	Set
116	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	5400	Set
117	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	11253	Set
117-A	Chemical Earthing		

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118	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	47	Metre
119	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth (<i>Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50 mm</i>)	895	Metre
120	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (<i>Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm</i>)	137	Metre
121	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	1284	Metre
122	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	507	Metre
123	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	197	Metre

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124	Providing and laying earth connection from earth electrode with 4.00 mm dia copper wire in 15 mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.	270	Metre
125	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	1058	Metre
126	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	217	Metre
127	Providing and fixing 10 SWG dia G.I. wire on surface or in recess for loop earthing as required.	60	Metre
128	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	135	Metre
129	Providing and fixing 10 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ sub main wiring/ cable as required.	38	Metre
130	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ sub main wiring/ cable as required.	77	Metre
131	Providing and fixing earth bus of 50 mm X 5 mm X 300 mm copper strip on surface for connections etc. as required.	456	Metre
132	Providing and fixing earth bus of 50 mm X 5 mm X 300 mm GI strip on surface for connections etc. as required.	83	Metre
	SECTION - E : MCB / MCCB / DB / SWITCHGEARS /MEASURING INSTRUMENTS ETC.		

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133	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with finned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)		
a)	2 + 2 way, Single door	940	Each
b)	2 + 6 way, Single door	1419	Each
c)	2 + 10 way, Single door	1607	Each
d)	2 + 2 way, Double door	1492	Each
e)	2 + 6 way, Double door	1755	Each
f)	2 + 10 way, Double door	2030	Each
134	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with finned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/Isolator)	0	
a)	4 way (8 + 12), Single door	1801	Each
b)	6 way (8 + 18), Single door	2199	Each
c)	8 way (8 + 24), Single door	2577	Each
d)	4 way (8 + 12), Double door	3074	Each
e)	6 way (8 + 18), Double door	3249	Each
f)	8 way (8 + 24), Double door	4357	Each

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135	Supplying and fixing following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, double door, duly powder painted, inclusive of tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, with provision of MCCB of capacity 125 Amps as incomer, interconnection between incomer MCCB and bus bars (but without MCB's/ MCCB) as required.	0	
a)	4 way TP	6228	Each
b)	8 way TP	7846	Each
136	Supplying and fixing following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, double door, duly powder painted, inclusive of tinned copper bus bar of required capacity, common neutral link, earth bar, din bar for mounting MCB's, with provision of MCCB of capacity 250 Amps as incomer, interconnection between incomer MCCB and bus bars (but without MCB's/ MCCB) as required.	0	
a)	4 way TP	8100	Each
b)	8 way TP	10195	Each
137	Supplying and fixing of following rating, 240/415 volts, 10 KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
a)	6/ 10/ 16/ 20/ 25/32 Amp Single pole	224	Each
b)	6/10/16/ 20/ 25/ 32 Amp Double Pole	525	Each

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c)	40/ 63 Amp Double pole	1288	Each
d)	20/25/32 Amp Triple pole & Neutral	1020	Each
e)	40/ 63 Amp Triple pole & Neutral	1618	Each
f)	16/20/25/32 Amp Triple pole	767	Each
g)	40/63 Amp Triple pole	1777	Each
138	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	6	Each
139	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	0	
a)	40 amps	308	Each
b)	63 amps	401	Each
140	Supplying and fixing following rating, four poles, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
a)	40 amps	681	Each
b)	63 Amps	740	Each
141	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current 100 mill amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
a)	25 amps	1759	Each
b)	40 Amps	2061	Each

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142	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 300 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.	0	
a)	40 Amps	2402	Each
b)	63 Amps	2774	Each
143	Supply and fixing of MCB/ MCCB sheet metal enclosure on surface/ recess complete as required. (But without MCB/MCCB)	0	
a)	Up to 4 pole MCB	428	Each
b)	Up to 125 Amp MCCB	1827	Each
c)	More than 125 A MCCB & up to 250 Amp MCCB	4649	Each
d)	More than 250 A MCCB & up to 630 Amp MCCB	6878	Each
144	Providing and fixing following capacity TP&N disconnecter fuse switch unit excluding HRC complete with enclosure with ISI marked including, making connections, etc. as required.	0	
a)	32 Amp TP&N	1993	Each
b)	63 Amp TP&N	4453	Each
c)	100 Amp TP&N	8119	Each
d)	125 Amp TP&N	8848	Each
e)	160 Amp TP&N	11473	Each
f)	200 Amp TP&N	11667	Each
g)	315 Amp TP&N	13760	Each

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h)	400 Amp TP&N	15083	Each
145	Providing and fixing following capacity 4 Pole on load changeover switch unit with sheet steel enclosure and making connections and necessary works etc. as required.	0	
a)	32 Amp	4838	Each
b)	63 Amp	4962	Each
d)	100 Amp	6317	Each
d)	125 Amp	9449	Each
146	Providing and fixing following capacity single pole & neutral, 240 V switch fuse unit, with re-wireable type fuse links complete as required with necessary connections.	0	
a)	16 Amp	886	Each
b)	32 Amp	1606	Each
147	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board/ enclosure including drilling holes in cubicle panel, making connections, etc. as required.		
a)	63 Amp, 4P, 16 kA	5483	Each
b)	100 Amp, 4P, 16kA	5483	Each
c)	125 Amp, 4P, 16 kA	5724	Each
d)	63 Amp, 4P, 25 kA	6518	Each
e)	100 Amp, 4P, 25 kA	6066	Each
f)	125 Amp, 4P, 25 kA	8254	Each
g)	160 Amp, 4P, 36 kA	9082	Each
h)	250 Amp, 4P, 36 kA	11693	Each
i)	400 Amp, 4P, 36 kA	29481	Each
j)	630 Amp, 4P, 36 kA	35569	Each

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148	Replacement of the following capacity Kitkat porcelain fuse unit with base including making connections in the existing switch fuse unit.	0	
a)	16 Amp, 240 V	290	Each
b)	32 Amp, 240 V	365	Each
149	Supplying and replacement of the following capacity of HRC fuses in the existing switch disconnector fuse unit complete as required.	0	
a)	32 Amp	173	Each
c)	100 Amp	262	Each
d)	125 Amp	342	Each
e)	160 Amp	342	Each
f)	200 Amp	342	Each
g)	315 Amp	446	Each
h)	400 Amp	1123	Each
150	Supplying and replacement of the following spare parts for the existing switch disconnector fuse unit complete as required from 63A TPN and above.	0	
a)	Fuse holder & fuse base assembly.	291	Each
b)	Switched neutral kit	1603	Each
c)	Inter phase barrier kit	262	Each
d)	Terminal shroud kit	267	Each
151	Supply and fixing of cable loop box with cable sleeves (IP 55 protection) fabricated out of 2 mm thick sheet steel, complete with suitable size connectors for incoming and out going cables complete as required.		
a)	Single phase, one incoming & two outgoing.	545	Each
b)	Three phase one incoming & two outgoing.	709	Each

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152	Supplying and fixing, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	1365	Each
	<i>(Rate is exclusive of the MCB)</i>		
153	Replacing of 63Amp.DP switch fuse unit re - wireable type including cost of materials and connections.	3482	No.
154	Replacing of 63 Amp. DP switch fuse unit with HRC fuses including cost of materials and connections.	4034	No.
155	Supplying and fixing, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. <i>(Rate is exclusive of the MCB)</i>	1127	Each
	BUS BAR CHAMBER		
156	Providing and fixing and commissioning of the following bus bar chamber fabricated out of 1.6 mm thick sheet steel duly painted with powder coating, fully PVC insulated bus bars in convenient sections with suitable holes drilled and mounted on porcelain insulators complete as required.		
a)	Tinned copper bus bars section 25 mm x 5 mm x 500 mm – 4 nos.	3227	Set

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b)	Tinned copper bus bar sections 50 mm x 5 mm x 500 mm long – 4 nos.	4948	Set
	A.C. STARTER	0	
157	Supply and fixing power unit for AC on surface/recess complete with suitable size GI Box with modular Plate and Cover including starter, socket & plug top of adequate capacity including connection painting etc. complete as required.	2074	Set
158	Replacement of starter unit in the existing AC power unit including necessary connections.	665	Each
159	Supply & fixing of DOL starter in sheet steel enclosure with overload relay suitably selected as per motor requirements including making necessary connections & commissioning for following.		
a)	Suitable for single phase, 230 V pumps upto suitable HP. (Relay range 11 – 18 A). Comparable to L&T single phase starter type MU 2P	1382	Set
b)	Supply & fixing of DOL starter in sheet steel enclosure with overload relay suitably selected as per motor requirements including making necessary connections & commissioning - Suitable for three phase, 415 V pumps (Relay range 9 – 14 A) Comparable to L&T three phase starter type MK1 DOL.	1728	Set

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160	Supply & fixing of DOL starter in sheet steel enclosure with overload relay suitably selected as per motor requirements including making necessary connections & commissioning - Suitable for three phase, 415 V pumps (Relay range 11 - 18 A) Comparable to L&T three phase starter type MK1 DOL	1951	Set
161	Supply & fixing of fully automatic Star-Delta Starters with single phase prevention features in sheet steel enclosure with overload relay suitably selected as per motor requirements for pumps of capacity up to 15 H.P. including making necessary connections & commissioning.	7056	Set
162	Supply & fixing of fully automatic Star-Delta Starters suitable for submersible pump in sheet steel enclosure with overload relay suitably selected as per motor requirements for pumps of capacity up to 15 H.P. including making necessary connections & commissioning.	8053	Set
163	Supply & replacement of following spares in the existing starters including dismantling and making necessary connections complete as required.		
a)	Standard magnet coil	587	Each
b)	Single phase preventer relay upto 22 amps	1349	Each
c)	START/STOP Push Button unit pack	274	Each
d)	Indication lamp	176	Each
e)	30 A Ammeter	505	Each
f)	Power contactor set upto 16 amps comparable to L&T ML 1.5	1538	Each

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164	Supply & fixing of timer operated automatic changeover switch of 25 A DP 230V for Air conditioners for automatic operation alternatively as per adjustable setting of time.	4050	Each
ENERGY METER & ACCESSORIES:		0	
165	Supply & fixing of 5 – 30 ampere capacity single phase, two wire, and direct base mounting type energy meter with digital display with necessary accessories on wooden board & making necessary electrical connections. (Comparable to L&T Model: EM 101)	1333	Each
	<i>Note: The contractor has to submit the Meter Sl. No., date of installation & initial reading along with the bill. The rate is inclusive of dismantling of existing meter if required.</i>		
166	Supply & fixing of 10 – 40 ampere capacity three phase, four wire, direct base mounting type energy meter with digital display with necessary accessories on wooden board & making necessary electrical connections. (Comparable to L&T Model: EM 301)	3309	Each
	<i>Note: The contractor has to submit the Meter Sl. No., date of installation & initial reading along with the bill. The rate is inclusive of dismantling of existing meter if required.</i>		
167	Supply & fixing of 10 – 60 ampere capacity three phase, four wire, direct base mounting type energy meter with digital display with necessary accessories on wooden board & making necessary electrical connections. (Comparable to L&T make type EM301 B)	3350	Each

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		0	
	Note: The contractor has to submit the Meter Sl. No., date of installation & initial reading along with the bill. The rate is inclusive of dismantling of existing meter if required.		
168	Supply & fixing of 5 – 10 ampere capacity three phase, four wire, CT operated base mounting type energy meter with digital display with necessary accessories on wooden board & making necessary electrical connections. (Comparable to L&T Model: EM 301, Cat No:WM301BC3C00)	3803	Each
	Note: The contractor has to submit the Meter Sl. No., date of installation & initial reading along with the bill. The rate is inclusive of dismantling of existing meter if required.	0	
169	Supply & fixing of following type of current transformers required for the respective CT operated energy meters, confirming to accuracy class 1.0 as per IS:2705-1992 including necessary connections complete as required (Comprising of 3 No. CT's per set)	0	
a)	Ratio: 50/5	1415	Set
b)	Ratio: 100/5	2156	Set
	SECTION - F : STREET LIGHT LUMINAIRES & ACCESSORIES		
170	Supply & transporting to site the following electrical out door luminaires complete with all the accessories as required.		
a)	1 x 36 W fluorescent street light fitting with acrylic cover, copper ballast and T-8 tube. (Comparable to WIPRO Model WSH 24070)	1951	Each

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b)	2 x 36 W fluorescent street light fitting with acrylic cover, copper ballast and T-8 tube. (Comparable to WIPRO Model WSF 15140)	2485	Each
c)	1 x 70 W Metal Halide IP 65 die- cast aluminium street light luminaire with necessary control gear/ ballast and lamp. (Comparable to WIPRO Model WSH 24070)	3350	Each
d)	1 x 150 W Metal Halide IP 65 die- cast aluminium street light luminaire with necessary control gear/ ballast and lamp. (Comparable to WIPRO Model WSH 25150)	4132	Each
e)	1 x 70 W HPSV/MH integral post top luminaire with necessary control gear/ ballast and lamp. (Comparable to WIPRO Model WPS 27070)	3062	Each
f)	STREET LED LIGHTS:- Supply and fixing of LED 90 Watt IP66 Protected Roadway Luminaire. The model number of CROMPTON make is LSTP-90-CDL or its equivalent make in PHILIPS and WIPRO etc.	9978	Each
g)	Supply and fixing of LED 60 Watt IP66 Protected Street light Luminaire. The model number of CROMPTON make is LSTP-60-CDL or its equivalent make in PHILIPS and WIPRO etc.	6890	Each
h)	Supply and fixing of LED 30 Watt IP66 Protected Street light Luminaire. The model number of CROMPTON make is LSTS-30-CDL or its equivalent make in PHILIPS and WIPRO etc.	3493	Each

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i)	Supply and fixing of LED 60 Watt IP66 Protected Rectangular Flood Light Luminaire. The model number of CROMPTON make is LFL-60-CDL/60 or its equivalent make in PHILIPS and WIPRO etc.	5654	Each
j)	Supply and fixing of LED 90 Watt IP66 Protected Rectangular Flood Light Luminaire. The model number of CROMPTON make is LFLN-90-CDL/60 or its equivalent make in PHILIPS and WIPRO etc.	11301	Each
k)	Supply and fixing of 25W LED DRIVERS. The model number of CROMPTON make is SODRVES-36-600-25W or its equivalent make in PHILIPS and WIPRO etc.	583	Each
l)	Supply and fixing of 45W LED DRIVERS . The model number of CROMPTON make is SODVES-65-700-45W or its equivalent make in PHILIPS and WIPRO etc.	954	Each
m)	Supply and fixing of 75W LED DRIVERS . The model number of CROMPTON make is X075C070V107FNY1BO or its equivalent make in PHILIPS and WIPRO etc.	1483	Each
171	Installation, testing & commissioning of HPSV / MH / CFL/ Fluorescent street light fitting on pole/wall by providing suitable size pipe for mounting, bending the pipe to the required shape and fixing with 2 nos flat metal clamps with nuts, bolts and washer, painting the clamps as required. The rate is inclusive of wiring the fitting with suitable size FR PVC wire from the junction/ cable loop box.	505	Each

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172	Installation/Replacement of fluorescent/ HPSV/ MH street light fitting on existing pole/wall bracket including dismantling the existing fitting and commissioning complete as required.	122	Each
173	Supply & erection of street light pole fabricated out of 4.5 metre long 50 mm dia. G.I. pipe of B class with base plate of size 300 mm x 300 mm x 12 mm welded to the bottom of the pipe with providing necessary cement concrete foundation of 1:2:4 ratio with provision of 2 no. B class G.I. pipe of 32 mm dia. For incoming & outgoing cable in and out of pedestal in concealed manner with suitable size of water proof hinged type cable loop box with locking arrangement including necessary earth bolt for earthing. Pipe & cable loop box are to be painted with one coat of anti-corrosive red oxide and two coats of silver colour enamel paint. The pedestal shall be painted with two coats of cement paint of approved colour. <i>(Drawing to be got approved before installation)</i>	6816	Each
174	Supplying and fixing of following spare parts in the existing street light luminaire including replacement of defective parts, testing and commissioning complete as required.	0	
a)	70 W HPSV/MH lamp as required	506	Each
b)	150 W HPSV/ MH lamp as required.	709	Each
c)	Control gear/ballast suitable for 70 W HPSV/MH lamps.	912	Each
d)	Control gear/ ballast suitable for 150 W HPSV/MH lamps.	1296	Each
e)	Igniter suitable for 70W/150W HPSV/MH lamps	577	Each
f)	36/40 Watt tube	81	Each

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g)	Vacuum pressure impregnated copper ballast suitable for 1 x 36W/ 40 W FTL.	253	Each
h)	Starter suitable for 1x 36 W/40 W FTL	30	Each
i)	Rotary holder for starter/tube suitable for 1 x 36 W/40 W FTL.	56	Each
j)	Acrylic cover for FTL/CFL street light fitting.	253	Each
k)	Acrylic cover for HPSV/MH street light fitting	324	Each
l)	25W LED street light comparable with Crompton Astra Neo LSTS-25 or equivalent	2785	Each
m)	45W LED street light comparable with Wipro Skyline plus LR-13-611 or equivalent	3446	Each
n)	36 W CFL lamp for street light	253	Each
175	Cleaning /overhauling of FTL/CFL/HPSV/MH street light fittings including dismantling from installed position if required and re-installing the same after completion of work.	142	Each
176	Cleaning /overhauling of FTL/CFL/HPSV/MH street light fittings including dismantling from installed position if required and re-installing the same after completion of work.	142	Each
177	Dismantling of FTL/CFL/HPSV/MH street light fittings from the existing location as directed.	55	Each
178	Cleaning/overhauling of FTL/CFL /HPSV/ MH fitting with two coats of synthetic enamel paint of approved colour including dismantling from installed position if required and re-installing the same after completion of work.	247	Each
SECTION- G: GEYSER INSTALLATION & ACCESSORIES			

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179	Supply and transporting to site following capacity of storage type geysers (Vertical/Horizontal), <u>minimum BEE Three star rating</u> with features like protection against dry heating, over heating and over pressure & all accessories included as required.	0	
	<i>Note: The contractor has to submit the copy of the filled in Warranty Card/ Machine Sr. No. & date of installation along with the bill. (Comprable to Venus Model SPLASH-GL)</i>	0	
		0	
a)	15 Litre capacity storage Geyser	8502	Each
b)	25 Litre capacity storage Geyser	10527	Each
c)	3 Litre capacity Intant type Geyser	4699	Each
180	Supply and replacement of the following accessories/ spares for Storage type Geyser including dismantling of geyser and re-commissioning the unit complete as required.		
	Note: Make of the spares should be as per original manufacturer		
a)	1.5 KW heating element	477	Each
b)	2.0/ 3.0 KW heating element	461	Each
c)	Indication Lamp	56	Each
d)	Thermostat Switch	333	Each
e)	Cut Out/ Reset Switch	127	Each
f)	HOT/COLD water flexible connection pipe (2 No. / Set)	258	Each
181	Installation, testing & commissioning of 15/25 Litre capacity storage type geyser (including making connections with flexible HOT/COLD water pipe) as required as per manufacturer's specification complete as required with necessary connection	360	Each

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182	Dismantling and shifting of storage type Geyser from one place to another place as directed including installation and commissioning complete as required.	258	Each
183	Overhauling of existing storage/instant type geyser unit complete as required including dismantling, de-scaling, replacement of damaged gasket reassembling and commissioning.	228	Each
	SECTION H: SITC OF PUMPS & REPAIRING/ SERVICING	0	
	SITC OF CENTRIFUGAL MONOBLOCK PUMPS	0	
184	Supply, installation, testing & commissioning of following capacity & type of centrifugal mono block pump sets with necessary fittings, foundation preparation, and plumbing connections complete as required.		
a)	2 H.P. capacity suitable for single phase, 50 Hz power supply with volute type delivery casing, stainless steel shaft, cast iron impeller suitable for suction size 50 mm & delivery size 40 mm dia. pipe. Comparable to KBL Model KDS-225++ of Kirloskar make.	12484	Each
b)	3 H.P. capacity suitable for single phase, 50 Hz power supply with volute type delivery casing, stainless steel shaft, cast iron impeller suitable for suction size 50 mm & delivery size 40 mm dia. pipe. Comparable to KBL Model KDS-335++ of Kirloskar make.	15899	Each

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c)	5 H.P. capacity suitable for three phase, 50 Hz power supply with volute type delivery casing, stainless steel shaft, cast iron impeller suitable for suction size 65 mm & delivery size 50 mm dia. pipe. Comparable to KBL Model KDS-538+ of Kirloskar make.	25371	Each
d)	7.5 H.P. capacity suitable for three phase, 50 Hz power supply with volute type delivery casing, stainless steel shaft, cast iron impeller suitable for suction size 65 mm & delivery size 50 mm dia. pipe. Comparable to KBL Model KDS-852++ of Kirloskar make.	30395	Each
e)	10 H.P. capacity suitable for three phase, 50 Hz power supply with volute type delivery casing, stainless steel shaft, cast iron impeller suitable for suction size 65 mm & delivery size 50 mm dia. pipe. Comparable to KBL Model KDS-1065++ of Kirloskar make.	39008	Each
	REPAIRING/SERVICING OF CENTRIFUGAL MONOBLOCK PUMPS	0	
185	Attending and checking of all types & capacity of Centrifugal Monoblock/ Coupled type of pump sets at site after receiving the complaint about non-functioning and rectification of minor defects if any and making the pump set operational complete as required.	279	Job
186	Labour charges for dismantling all types & capacity of Centrifugal Monoblock/ Coupled type of pump sets for repairing & reinstalling & commissioning the same after necessary repairs complete as required.	562	Job

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187	Transportation charges for shifting all types & capacity of Centrifugal Monoblock/ Coupled type/submersible pump sets from site to the workshop and back to the site complete as required after necessary repairs.	587	Job
188	Overhauling of the following Centrifugal Monoblock/Coupled type pump sets (Single phase/ three phase) including de-scaling of the pump casing and moving parts, thorough cleaning of pump & motor, oiling/ greasing, heating/baking reassembling, testing complete as required. The rate is exclusive of any spare parts replacement.	0	
a)	For pump capacity up to 5 H.P.	532	Each
b)	For pump capacity more than 5 H.P. & up to 10 H.P.	883	Each
c)	For pump capacity more than 10 H.P.	1078	Each
189	Re-winding of the following capacity of Centrifugal Monoblock. Coupled type pump sets (Single phase/ three phase) pump motor including cost of providing new super enameled copper winding wire of adequate size and numbers, varnishing, insulation papers, baking for required period and reassembling, testing & commissioning complete as required.	0	
a)	For pump capacity up to 5 H.P.	4092	Each
b)	For pump capacity more than 5 H.P. & up to 10 H.P.	5165	Each
c)	For pump capacity more than 10 H.P.	6036	Each

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190	Replacement of worn out ball bearing including necessary repair and machining of bearing housing etc. complete as required for following capacity of Centrifugal Monoblock. Coupled type pump sets (Single phase/ three phase)	0	
a)	For pump capacity up to 5 H.P.	539	Each
b)	For pump capacity more than 5 H.P. & up to 10 H.P.	636	Each
c)	For pump capacity more than 10 H.P.	765	Each
191	Replacement of worn out impeller complete as required for following capacity of Centrifugal Monoblock. Coupled type pump sets (Single phase/ three phase)	0	
a)	For pump capacity up to 5 H.P.	737	Each
b)	For pump capacity more than 5 H.P. & up to 10 H.P.	1053	Each
c)	For pump capacity more than 10 H.P.	1252	Each
192	Replacement of worn out gland packing complete as required for following capacity of Centrifugal Monoblock. Coupled type pump sets (Single phase/ three phase)	0	
a)	For pump capacity up to 5 H.P.	369	Job
b)	For pump capacity more than 5 H.P. & up to 10 H.P.	417	Job
c)	For pump capacity more than 10 H.P.	466	Job
193	Replacement of worn out body gasket complete as required for following capacity of Centrifugal Monoblock. Coupled type pump sets (Single phase/ three phase)	0	
a)	For pump capacity up to 5 H.P.	344	Set
b)	For pump capacity more than 5 H.P. & up to 10 H.P.	369	Set

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c)	For pump capacity more than 10 H.P.	393	Set
194	Replacement of worn out stainless steel shaft complete as required for following capacity of Centrifugal Monoblock. Coupled type pump sets (Single phase/ three phase)	0	
a)	For pump capacity up to 5 H.P.	733	Each
b)	For pump capacity more than 5 H.P. & up to 10 H.P.	1074	Each
c)	For pump capacity more than 10 H.P.	1429	Each
195	Replacement of worn out terminal box complete as required for following capacity of Centrifugal Monoblock. Coupled type pump sets (Single phase/ three phase)	0	
a)	For pump capacity up to 5 H.P.	228	Each
b)	For pump capacity more than 5 H.P. & up to 10 H.P.	248	Each
c)	For pump capacity more than 10 H.P.	272	Each
196	Replacement of worn out flange/body nut & bolts complete as required for all capacity of Centrifugal Monoblock. Coupled type pump sets (Single phase/ three phase)	267	Job
197	Painting of the entire pump set with one coat of red oxide paint & two coat of synthetic enamel paint of approved shade & quality including cleaning the surface making smooth finish complete as required for all capacity of Centrifugal Monoblock. Coupled type pump sets	394	Job
BOREWELL SUBMERSIBLE PUMP SET (REPAIRING/ SERVICING)			

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198	Labour charges with required tools & plants for lifting & dismantling of all types & capacity of submersible pump set existing bore complete as required & lowering & installation of the same in the existing bore well after necessary repairs and including making necessary electrical/plumbing connections and megger testing, commissioning the same.	7596	Job
199	Overhauling of the following vertical type bore well submersible pump sets/ open well submersible pump sets including dismantling the stages, end covers of pump sets, descaling of the pump casing and all moving parts, thorough cleaning of pump and motor, oiling, greasing, checking all the components, reassembling the entire pump set, testing & commissioning complete as required. <i>(The rate is exclusive of any spare parts replacement.</i>	0	
a)	For pump set capacity up to 5 H.P.	694	Job
b)	For pump set capacity more than 5 H.P.	937	Job
200	Replacement of worn out impeller for the existing submersible type pump sets of following capacities including dismantling, assembling, testing & commissioning complete as required.	0	
a)	For pump set capacity up to 5 H.P.	937	Job
b)	For pump set capacity more than 5 H.P.	993	Job
201	Replacement of worn out bush bearing for the existing submersible type pump sets of following capacities including dismantling, assembling, testing & commissioning complete as required.	0	

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a)	For pump set capacity up to 5 H.P.	390	Job
b)	For pump set capacity more than 5 H.P.	542	Job
202	Replacement of worn out stainless steel shaft for the existing submersible type pump sets of following capacities including dismantling, assembling, testing & commissioning complete as required.		
a)	For pump set capacity up to 5 H.P.	1079	Job
b)	For pump set capacity more than 5 H.P.	1418	Job
203	Replacement of worn out thrust bearing for the existing submersible type pump sets of following capacities including dismantling, assembling, testing & commissioning complete as required.	0	
a)	For pump set capacity up to 5 H.P.	977	Job
b)	For pump set capacity more than 5 H.P.	1079	Job
204	Rewinding of the existing 3 phase, 415 V pump set motor including cost of providing submersible insulated copper wire of adequate gauge, insulation paper/film and other required materials as required for the existing submersible type pump sets of following capacities including dismantling, assembling, testing & commissioning complete as required.	0	
a)	For pump set capacity up to 5 H.P.	4558	Job
b)	For pump set capacity more than 5 H.P.	5570	Job
205	Supply & laying of following PVC insulated copper conductor flat submersible cables and necessary terminations complete as required.	0	
a)	3 Core, 1.5 Sq.mm.	86	Metre
b)	3 Core, 2.5 Sq.mm.	112	Metre

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c)	3 Core, 4.0 Sq.mm.	161	Metre
d)	3 Core, 6.0 Sq.mm.	226	Metre
206	Surging of existing tube well by compressor (at least 7.5 Hrs /Day) inclusive of necessary labour charges, tools and tackles, accessories complete as required.	4861	Day
207	Supply & fixing of 5KVAR fixed capacitor bank of 440V to be connected in the existing panel including all necessary fixing arrangement, modification etc. <i>Make: LT-XL type of L&T make, BOX TYPE. Or Its equivalent.</i>	4620	set
a)	do- but 10 KVAR capacitor bank.	7569	Set
b)	do- but 15 KVAR capacitor bank.	11188	Set
c)	do- but 25 KVAR capacitor bank.	17027	Set
208	Supply & fixing of capacitor duty contactor with damping resistor to be connected in the existing panel including all necessary fixing arrangement, modification etc. as follows	0	
a)	Capacitor duty contactor equivalent to L&T make type MO C 5 KVAR (10 Amps)	2708	Set
b)	Capacitor duty contactor equivalent to L&T make type MO C8.5 KVAR (20 Amps)	4281	Set
c)	Capacitor duty contactor equivalent to L&T make type MO C12.5 KVAR (25 Amps)	2910	Set
d)	Capacitor duty contactor equivalent to L&T make type MO C15 KVAR (30 Amps)	3873	Set
e)	Capacitor duty contactor equivalent to L&T make type MO C20 KVAR (40 Amps)	4401	Set
f)	Capacitor duty contactor equivalent to L&T make type MO C25 KVAR (50 Amps)	5874	Set
g)	Capacitor duty contactor equivalent to L&T make type MO C33.5 KVAR (70 Amps)	9622	Set

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h)	Capacitor duty contactor equivalent to L&T make type MO C50 KVAR (100 Amps)	13229	Set
209	Supply & fixing of APFC relay equivalent to LT make etaCON L8, 8 stage 3 phase sensing in the existing panel including all necessary fixing arrangement, modification etc. as required	21503	No.
210	Supply & fixing of APFC relay equivalent to LT make etaCON L12, 12 stage 3 phase sensing in the existing panel including all necessary fixing arrangement, modification etc. as required	23323	No.
211	Supply & fixing of APFC relay equivalent to LT make RPM 16, 16 stage 3 phase sensing in the existing panel including all necessary fixing arrangement, modification etc. as required	32941	No.
212	Supplying, installation, testing and commissioning of Astronomical time switch of following configuration to be mounted in feeder pillars / Lighting DBs /AC for automatic switching ON & OFF of street lights at Sun set & Sun rise/ A.C or twilight (Auto OFF, Auto modes) with manual override facility with 12/24 hours display format with suitable battery and indication for relay status i/c programming at site complete as required.	0	
i	1 output per phase and suitable for single phase supply.	3704	Each
ii	2 output per phase and suitable for single phase supply	7631	Each
iii	3 output (1 output per phase) per phase and suitable for three phase supply	8944	Each
213	Supply & installation of 150 AH, 12 V, led acid battery of EXIDE make for Inverter.	15192	Each
214	Provision of distrill water for battery	15	Ltr.
215	Supply & installtion of Inverter cum battery stand	1215	Each

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	MISCELLANEOUS ITEMS	0	
216 a	Attending break down calls such as short-circuit, blown out fuses, disruption of power supply etc. complete as required excluding cost of materials when directed by Engineer-in-charge.	354	Each
b	Attending break down calls such as short-circuit, blown out fuses, disruption of supply etc. complete as required excluding cost of materials when directed beyond office hours (after 5:30 PM & before 9:30 AM) and holidays as & when instructed.	810	Each
c	To Carry out Energy & fire Audit in different Branch/ Divisional office and submission of Report as per attach format for the following Division-		
	For the state of Bihar	4000.00	Per B.O
	For the State of Jharkhand	5000.00	Per B.O
d	Cleaning of roof Top Solar Panel with supply of required cleaning materials, including arrangement of PVC water pipe, brush etc . Water taps will be provided by LIC	800.00	1 JOB
217	Deputing following persons for a day (8 Hrs.) for attending/checking electrical installations as and when instructed by the Engineer-in-charge.	0	0
218	Arranging for testing of any type of earth station with earth megger and submitting the report as directed.	1013	Each

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219	Making necessary arrangement for temporary power supply for any premises/work, including providing & fixing of necessary wiring & switchgear & dismantling of the same after completion of work as directed.	2026	Each
220	Supplying, installation, testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10Amp , for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.	4596	Each
221	Supplying, installation, testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor with day light dimming(lightning level shall be regulated as per viability of natural day light in an area along with occupancy detection.) having high performance, regulating programmable type, suitable for connected load upto 10Amp , for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.	6406	Each
222	Disconnection Removing & re installation at new location the UPS/Inverter output DB Directly on wall /column or on panel as directed at site including incoming and out going connection . (Work to be carried out through HT licence Holder)	1519	JOB
223 a)	Charges for transformer oil filtration (Work to be carried out through HT licence Holder)	25	ltr
b)	Chares for topping up additional transformer oil (Work to be carried out through HT licence Holder)	157	ltr

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c)	Charges for testing of transformer oil for break down strength and or any other test as advised from the approved laboratory (The testing charges paid to laboratory shall be reimbursed separately after obtaining the test report etc complete (Work to be carried out through HT licence Holder)	1519	Each
d)	Providing and fixing metal caution board in English & Hindi and local language if any. (Work to be carried out through HT licence Holder)	152	Each
e)	Supply, installation, testing & commissioning of Horn gap fuse links, 3Phase with fuse, heavily tinned nonferrous metal parts bronze contact complete. The rates shall be inclusive of fuse elements of suitable capacity as reqd. (Work to be carried out through HT licence Holder)	6077	Each
f)	SITC of 11KV Gang operated horizontal type single Air break outdoor AB switch shall conform to IS-1818 of 1972 and its latest version mounted on existing MS channel of DP structure. (Work to be carried out through HT licence Holder)	7090	Each
g)	Supply, erection, testing & commissioning of 9KV (RMS), 5KA lightning arrester for alternator current system non linear resistor for suitable for 11KV, 3phase (3nos) earthed system mounted on existing DP structure with all accessories interconnection etc as reqd for the work complete. (Work to be carried out through HT licence Holder)	2026	Each
h)	Supply & Installation of 11KV pin insulator alongwith required hardware such as nut bolts. Clamps to be fixed on angle, channel etc. (Work to be carried out through HT licence Holder)	304	Each

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i)	Supply & Installation of 11KV stringe / disc insulators complete with hardware fitting & accessories required for installation on the 11 KV "V" / straight cross arm. (Work to be carried out through HT licence Holder)	456	
224	Shifting of 3/5/7.5/10 KVA UPS (without Battery) to desired location outside from the HQ up to range of 10 KM	1570	Each
225	Shifting of 3/5/7.5/10 KVA UPS (with Battery) to desired location outside from HQ to more than 10 KM	2026	Set
	PART (A) CONSISTING FROM T. I. No.(1) to (225) above		
	PART (B) Engagement of Electrician /wireman		
226	Deputing following persons for a day (8 Hrs.) shift wise for attending/checking electrical installations, Fire alarm etc as and when instructed by the Engineer-in-charge beyond office hours for working day from 10.01pm to 09.59am two shifts and for holiday 24 hours 3 shifts.		
a)	Wireman.	734.00	Each
b)	Khallasi	553.00	Each
	Note: Quoted percentage rate will be applicable to only Part (A) i.e. T.I. No. (1) to (225) above and not to Part (B) i.e. T.I. No. 226 (a) & (b) above.		

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SUMMARY

SUB: ANNUAL RATE CONTRACT FOR ELECTRICAL REPAIR & MAINTENANCE WORKS INCLUDING ADDITIONS/ALTERNATIONS IN LIC/PROPERTIES UNDER ECZO, AT PATNA FOR FY 2023-2024

Note: The contractor is hereby instructed to submit their overall percentage rates both in figure and words as Below / At Par / Above on the LIC Schedule of Rates.

I / We Quote our percentage rate@ (In figure)
(.....) in words Percent /
Below / At Par / Above shall be applicable from T.I.No. (1) to (225) only (Strike out whichever are not applicable) on the above.

NOTE:- 1) Quoted rate (Below / At Par Above) will not be applicable for item no 226(a) & 226(b).

- 2) If the quoted rate is beyond 10% below of our schedule rates , then the additional security deposit of Rs. 30,000.00 only to be remitted by the lowest tenderer and beyond 20% below additional security deposit of Rs. 80,000./- only to be remitted by lowest tenderer.**

**Signature of the
Contractor with seal**

**Date :
Place :**

CHIEF ENGINEER

LIFE INSURANCE CORPORATION OF INDIA

East Central Zonal Office, Patna

AN ISO 9001:2015 CERTIFIED DEPARTMENT

FORMAT FOR ENERGY CUM FIRE SAFETY AUDIT

BUILDING INSPECTION FORMAT – ELECTRICAL WORKS

Name of the building: _____

Building Use :- _____

Year of Construction :- _____

No. of Floors:.....

Name, Designation of Inspecting Officer:- _____

Date of Inspection :- _____

1. a) Whether wiring is concealed or surface:- _____ b) Year of wiring /re-wiring:
2. Whether wiring is Copper / Aluminium : Copper.
3. Whether premises is Modernized : Yes / No
4. If yes , : AC / NON-AC
5. Whether capacitor is provided : Yes / No
6. Sanctioned load :KW
7. Connected Load :KW (Calculation sheet to be attached)
8. Whether any penalty paid in recent past? :If yes give details (with copy of that particular bill)-No

Sl No	Facility	Yes / No	List of deficiencies observed	Action proposed Repairs / replacement
1	INTERNAL ELECTRICAL			
i	Are there any loose wires hanging wires/ burning wires/ burning switches / sockets inside the office?			
ii	Are all electrical panels secured & intact ?			
iii	Are all electrical switches and plug-points in good condition?			
iv	Are all lights functioning? Type and number of fittings to be mentioned			
v	Are all ceiling / wall mounted fans function smoothly?			
vii	Are there incidences of voltage fluctuations in the past?			
viii	Are there power breakdowns in the past? (in the building /s)			
ix	Whether capacitor is functioning smoothly? Average PF Value?			
x	Are neutral wire / cable connections at main panel board, EB Pole point, Change over switch, fuse cutouts, LDBs PDBs are in good condition?			
xi	Check earth continuity for LDB, PDB, Panel Boards UPS/ Raw power point and indicate.			
x	What is the recorded maximum demand			
xi	What action is proposed to surrender the excess demand or to increase the MD in case of crossing the contracted demand			

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xii	Copy of Electricity bills for last 12 months to be attached			
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Signature / Date:

(1)

Sl No	Facility	Yes / No	List of the deficiencies observed	Action proposed Repairs / replacement
2	UPS			
i	No of UPS.			
ii	Capacity of UPS			
iii	Make :			
iv	Date of installations:			
v	Last date of battery replacement.			
vi	Are all UPS functioning satisfactorily?			
vii	Is AMC contract for UPS in force?			
	Whether services of AMC vendor are satisfactory?			
viii	Whether load on UPS is distributed properly?			
ix	Any other problem being faced with UPS:			
3	FIRE ALARM SYSTEM			
i	Whether fire alarm system is in functioning condition?			
ii	Is AMC contract for fire alarm system in force?			
iii	Date of last testing of system			
iv	Whether services of AMC vendor are satisfactory			
4	AIR CONDITIONERS			
i	No of AC units			
ii	Total TR capacity of ACs			
iii	Type of ACs			
iv	Date of installation;			
vi	Are all ACs functioning satisfactorily?			
vii	Is AMC contract for AC in force?			
viii	Whether services of AMC vendor are satisfactory			
5	LOAD / VOLTAGE MEASUREMENTS			
i	Any penalty against low PF or excess demand paid. If yes give the amount.			
ii	Voltage at Main power supply			
	R-Y Phase :			
	Y-B Phase :			
	B-R Phase :			
iii	Earth to Neutral Voltage at Mains			
iv	Earth to Neutral Voltage at IT room			
v	Earth to Neutral Voltage at raw power points in office area			
vi	Earth to Neutral Voltage at UPS power points in office area			

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Signature / Date:

(3)

SI No	Facility	Yes / No	List of the deficiencies observed	Action proposed Repairs / replacement
vii	Load on each phase R - Phase Y - Phase B - Phase (at 11.30 AM and 3.00 PM)			
Viii,	Current in amp. On each phase R - Phase Y - Phase B - Phase (at 11.30 AM and 3.00 PM)			
6	FIRE FIGHTING SYSTEM			
i	Whether fire fighting system is installed			
ii	If Yes, give the details/type of fire fighting system			
iii	Whether fire fighting system is in functioning condition?			
iv	State condition of wet riser/down comer/ring mains, if any			
v	Whether mock drill are being conducted regularly			
vi	Is AMC contract for fire fighting system in force?			
vii	Whether services of AMC vendor are satisfactory			
7	SUB-STATION			
i	Capacity of sub-station			
ii	Type of connection HT/LT			
iii	What is the condition of transformer?			
iv	What is the condition of cable and termination?			
v	When Annual inspection carried out?			
vi	When the oil was tested & report?			
vii	What is the level of oil in conservator Is it necessary to top up oil			
viii	What is the condition of silica jel			
ix	Condition of earthings			
x	Whether Neutral earthings intact			
xi	Whether body earthings intact			
xii	Whether termination of transformer and switch gears intact			
8	PROVISION OF LIFT,IF ANY			

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i	Date of Installation			
ii	Whether valid license from authority for operation obtained			
iii	Whether lift is under valid AMC			
iv	If lift is more that 15 yrs old whether any action is proposed for replacement/modernization			
Sl No	Facility	Yes / No	List of the deficiencies observed	Action proposed Repairs / replacement
9	Any other information which is to be given/action to be taken for safety from electrocution or fire			

Signature / Date :