

JAIPUR DEVELOPMENT AUTHORITY

Room No. CB-FF-113, CCC Building Ram Kishore Vyas Bhavan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur – 302 004
Telephone: +91-141-2569696 e.mail : saleem119164@gmail.com

No. JDA/EE-P4/ELECT./2015-16/D-

Dated

NOTICE INVITING BID

NIB No. : 11/2015-16

Online Bids are invited up-to 6.00 PM of 24.08.2015 for Re-development of Electrical work at Amar Jawan Jyoti, Jaipur. Details may be seen in the Bidding Document at our office or the website of State Public Procurement Portal website www.sppp.rajasthan.gov.in, www.eproc.rajasthan.gov.in and www.jaipurjda.org.

To participate in the bid, bidder has to be:

1. Registered on JDA website www.jaipurjda.org
For participating in the Bid, the Bidder has to apply for the Bid and pay the Bidding Document Fee, RISL Processing Fee and Bid Security Deposit, online only.
2. Registered on e-Procurement Portal of Government of Rajasthan www.eproc.rajasthan.gov.in for online e-Bid submission.

Executive Engineer P-4 (Elect)
Procuring Entity

JAIPUR DEVELOPMENT AUTHORITY

Room No. 113, CCC building, Ram Kishore Vyas Bhavan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur – 302 004
Telephone: +91-141-2569696 e.mail : xxxxxxxx@jaipurjda.org

No. JDA/E.E/Project-4/Elect./2015/D-

Date:

SHORT TERM NOTICE INVITING BID

NIB No. : 11/2015-16

Name & Address of the Procuring Entity	<ul style="list-style-type: none"> ➤ Name: Executive Engineer P-4 (Elect), Jaipur Development Authority ➤ Address: Room No. 113, CCC Building, Ist Floor, Ram Kishore Vyas Bhavan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur – 302 004 (Rajasthan) ➤ Email: saleem119164@Gmail.com
Subject Matter of Procurement	➤ Re-development of Electrical work at Amar Jawan Jyoti, Jaipur.
Bid Procedure	Two Bid (eg. Single-stage Two part (envelope) open competitive) eBid procedure at http://eproc.rajasthan.gov.in
Bid Evaluation Criteria (Selection Method)	➤ L-1 (eg. Least Cost Based Selection (LCBS)-L1)
Websites for downloading Bidding Document, Corrigendum's, Addendums, etc.	➤ Websites: www.sppp.rajasthan.gov.in , www.eproc.rajasthan.gov.in , www.jaipurjda.org
Website for online Bid application and payment *	<ul style="list-style-type: none"> ➤ Website: www.jaipurjda.org ➤ For participating in the Bid, the Bidder has to apply for this Bid and pay the Bidding Document Fee, RISL Processing Fee and Bid Security Deposit, online only. <ul style="list-style-type: none"> ○ Bidding document fee: Rs. 1000.00 Rupees (One Thousand only) ○ RISL Processing Fee: Rs. 1000 (Rupees One Thousand only) ○ Requisite Bid Security Deposit
Estimated Procurement Cost	➤ INR 124.91 Lacs (Rupees One Hundred Twenty Four and Ninety One Lacs Only)
Bid Security Deposit	➤ Amount (INR) : 2% (Rs. 2,49,820.00) of Estimated Procurement Cost, 0.5% of S.S.I. of Rajasthan, 0.5% (Rs. 62,455.00) for Bidder registered as contractor in JDA, 1% for Sick Industries, other than S.S.I., whose cases are pending with Board of Industrial & Financial Reconstruction.
Pre-Bid	➤ N/A
Start/ End Date for Bid Applying, Online Payment and Bid Submission	<ul style="list-style-type: none"> ➤ Start Date: 10/08/2015 at 6.00 PM onwards ➤ End Date: 24/08/2015 at 6.00 PM
**Date/ Time/ Place of Technical Bid Opening	<ul style="list-style-type: none"> ➤ 27/08/2015 at 15.30 PM ➤ Room No. Room No. 113, CCC Building, Ist Floor, Ram Kishore Vyas Bhavan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur – 302 004 (Rajasthan)
Date/ Time/ Place of Financial Bid Opening	➤ Will be intimated later to the Technically qualified bidders
Bid Validity	➤ 120 days from the bid submission deadline
Work Execution Period	2 Months
* The amount is to be deposited online by bidder. In case the amount exceeds the online payment limit	

the payment may be made through RTGS/NEFT in ICICI BANK LTD Bank Account Number 675401700586 IFSC Code ICIC0006754. After successful payment, update the UTR/Instrument number on JDA Tender portal against the tender you want to participate. The amount deposited will be confirmed by JDA and will be updated online.** There should be a gap of 3 working days **BETWEEN** End Date for Bid Applying, Online Payment & Bid Submission **AND** Bid opening date.

Note:

1. Bidder (authorised signatory) shall submit their offer on-line in Electronic formats both for technical and financial proposal.
2. In case, any of the bidders fails to pay the Tender Fee, BSD, and RISL Processing Fee, online (subject to confirmation), its Bid shall not be accepted.
3. To participate in online bidding process, Bidders must procure a Digital Signature Certificate (Type III) as per Information Technology Act-2000 using which they can digitally sign their electronic bids. Bidders can procure the same from any CCA approved certifying agency, i.e. TCS, Safecrypt, Ncode etc. Bidders who already have a valid Digital Signature Certificate (DSC) need not procure a new DSC. Also, bidders must register on <http://eproc.rajasthan.gov.in> (bidders already registered on <http://eproc.rajasthan.gov.in> before 30-09-2011 must register again).
4. JDA will not be responsible for delay in online submission due to any reason. For this, bidders are requested to upload the complete bid well advance in time so as to avoid 11th hour issues like slow speed; choking of web site due to heavy load or any other unforeseen problems.
5. Bidders are also advised to refer "Bidders Manual Kit" available at eProc website for further details about the e-Tendering process.
6. Training for the bidders on the usage of e-Tendering System (eProcurement) is also being arranged by DoIT&C, GoR on a regular basis. Bidders interested for training may contact e-Procurement Cell, DoIT&C for booking the training slot.
Contact No: 0141-4022688 (Help desk 10 am to 6 pm on all working days) e-mail: eproc@rajasthan.gov.in
Address : e-Procurement Cell, JDA, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur
7. The procuring entity reserves the complete right to cancel the bid process and reject any or all of the Bids.
8. No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful bidder.
9. Procurement entity disclaims any factual/ or other errors in the bidding document (the onus is purely on the individual bidders to verify such information) and the information provided therein are intended only to help the bidders to prepare a logical bid-proposal.
10. The provisions of RTPPA Act 2012 and Rules thereto shall be applicable for this procurement. Furthermore, in case of any inconsistency in any of the provisions of this bidding document with the RTPPA Act 2012 and Rules thereto, the later shall prevail.

(Executive Engineer P-4 Elect)
Procuring Entity

Process for Participation & Depositing Payment Online

JAIPUR DEVELOPMENT AUTHORITY, has decided to receive Bidding document fee, RISL Processing Fee and Bid Security Deposit (BSD) through online mode only for which the bidder has to get registered himself on JDA portal www.jaipurjda.org.

To participate in the bid, bidder has to be:

1. Registered on JDA website www.jaipurjda.org (by depositing Rs. 500.00 online, the validity of which remains 3 (three) years).
For participating in the Bid, the Bidder has to apply for this Bid and pay the Bid Document Fee, RISL Processing Fee and Bid Security Deposit, online only.
2. Registered on e-Procurement Portal of Government of Rajasthan www.eproc.rajasthan.gov.in for online e-Bid submission.

Methods for depositing on line amount

- Online through Internet Banking, Debit Card or Credit Card.
- In case the amount exceeds the online payment limit, the payment may be made through RTGS/NEFT/Transfer in Bank Account Number **675401700586** IFSC Code **ICIC0006754** of ICICI BANK Limited, JDA Campus Jaipur.

In case of RTGS / NEFT / Transfer the bidder is required to deposit the requisite amount in the dedicated bank account number as mentioned above and has to get the UTR / Reference number from the bank. This number requires to be updated while applying the bid on JDA portal.

While participation in the bid, a receipt will be generated through the system showing the submission details as per **Annexure-4**. The bidder is required to fill the instrument numbers for various heads on e-Procurement portal www.eproc.rajasthan.gov.in as mentioned in the receipt.

More details about Registration Process, Terms and Conditions and FAQ along with contact detail is available on JDA website www.jaipurjda.org under [e-Services](#)>>JDA Tender Bidder has to submitted as proof of deposited amount against the Bid on e-Procurement Portal

Jaipur Development Authority

Bid Participation Receipt

Date & Time : 09/06/2015 05:13 PM

Bid Detail

Bid Id : 6215152001 **Procurement Entity :** XXXXXXXXXXXXXXXX
Bid Title : Testing
Bid Value : 300000 **Bid Opening Place :** Manthan Hall, Jaipur
Development Authority

Bidder Detail

Name of Entity : XXXXXXXXXXXXXXXX **Mobile:** 9829012345
Registration Type: Individual **Instrument Amount :** 32500.00
Payment Mode: Online/UTR **Payment Channel :** Payment Gateway/ICICI Branch - JDA
Instrument No : 456123789 **Instrument Date :** 17-06-2015

Dates Detail

Sr. No.	Event Name	Event Date
1	Publishing Date	01/06/2015 01:00 PM
2	Bid Opening Date	01/07/2015 03:00 PM

Specific Instrument Detail for eProc Rajasthan

Instrument Type: DD			
Instrument Number	Head Name	Amount	Date
10000	Tender Fee	400.00	05/06/2015
10001	RISL Processing Fee	1000.00	05/06/2015
10002	Bid Security Deposit	30,000.00	05/06/2015
Issuer Detail : Jaipur Development Authority		ChallanNumber: 641515600014	

JAIPUR DEVELOPMENT AUTHORITY JAIPUR
Tender Document for the work

Name of work: - Re-development of Electrical work at Amar Jawan Jyoti, Jaipur.

Period of on line Sale	10.08.2015 to 24.08.2015
Date of on line receipt of the tender	10.08.2015 to 24.08.2015 up to 6.00 PM
Date of opening of tender (Envelop-1) and Tender document & G-schedule (Envelop-2)	27.08.2015 at 3.30 PM in the Chamber of Executive Engineer (Elect-P4)
Tender fee.	Rs 1000.00
Completion Period	2 Month
Estimated Cost of work	Rs 124.91 Lacs
EMD Amount	0.5% (Rs. 62,455.00)for contractor registered in JDA) Or 2% (Rs. 2,49,820.00) for Contractor registered in other Govt. department in class E-I

NAME OF AGENCY M/s -----

SCHEDULE 'A' : INFORMATION USE FULL FOR THE CONTRACTORS:

The bidder should see the site and fully understand the condition of the site before bidding and include all lead, lifts etc. for the material in his item rate / percentage to the quoted on the rates as given in schedule 'G'. Then work shall be carried out in accordance with the Rajasthan PWD specification for electric works 1980 and to the entire satisfaction of the Engineer-Incharge of the work.

SCHEDULE 'B': LIST OF THE DRAWING TO BE SUPPLIED BY THE DEPARTMENT:

The drawing may be seen in office of the undersigned.

SCHEDULE 'C' : LIST OF THE DRAWING TO BE SUPPLIED BY THE CONTRACTOR:

List of the drawing to be supplied by the contractor Nil. But the contractor shall have to arrange drawings required for the work at his own cost after deposition necessary cost within JDA.

SCHEDULE 'D': TEST OF THE MATERIALS:

The test of the material and workmanship shall be conducted by the JDA staff as necessary. The result of such tests should confirm to be standard laid down in the Indian standards and or the standards laid down in the detailed specification of the Public Works

Deptt. proper quality control is required to be maintained by the contractor. Qualified personnel as required under the contractor enlistments rules duly approved by the Deptt. shall have to be engaged at site by the contractor. The Deptt. reserves the right to engage such staff and recover the expenses from the contractor on such account in case of his failure to do so.

SCHEDULE 'E': SAMPLES OF THE MATERIALS:

The samples of the material to be used by the contractor shall be deposited 15 days in advance with the Engineer In-charge and be got approved by him before use.

SCHEDULE 'F': TIME OF COMPLETION:

The work should start within 15 days of issue of work order and completion within months/days.

SCHEDULE 'G': ATTACH SEPARATELY SCHEDULE 'G' BASED ON 2013 BSR PWD RAJASTHAN JAIPUR/JDA APPROVED.

SCHEDULE 'H': SPECIAL CONDITION ATTACHED SEPARATELY.

SCHEDULE 'I': LIST OF THE MATERIAL TO BE SUPPLIED BY THE DEPTT.

Whatever material available in JDA store shall be issued @ the prevailing store issue date of JDA + 5% storage charges at the time of issue of cement.

Signature of Contractor
with full address.

Executive Engineer (Elect.-P4)
JDA, Jaipur.

Special Terms & Conditions

Scope Of Work :- Annual Maintenance including operation for 5 years including 1st year as Defective Liability Period (DLP) for Transformer, DG Set, RMU and all other electrical items covered in G-Schedule, installed at project site at Amar Jawan Jyoti, Jaipur

Scope of work includes the comprehensive maintenance of following as per instruction manual & log books of original Make of D.G. Set -

- a. Engine
- b. Alternator
- c. AMF Panel
- d. Electrical Panel installed in the generator room interlocking wiring between D.G. Set, AMF Panel & LT JVVNL Panel
- e. Associated items like batteries, fuel tank, pumps etc.

1. **D.G. Set will normally not run but as and when required as JVVNL supply goes off the same shall be started immediately with the help of AMF Panel.**
2. **The contractor should note that D.G. Set is in comprehensive maintenance as per direction given by Site Engineer whenever any fault occurs, the agency will make all necessary arrangements to rectify the fault immediately even in odd hrs.**

Servicing & Operation Staff:

The contractor has to arrange **Supervisor** staff for operation & maintenance at site (Having at least minimum ITI certificate in electrical / mechanical / automobile engineering) – daily from 9 A.M. to 10 P.M. The supervisor shall also be available during the VVIP visits, special programmes / celebrations (till the programme ends) in the JDA as per schedule of JDA & on calling by the engineer in charge at site as & when required.

The contractor will have to produce the qualification & experience certificates of the deputed staff before commencement date of contract.

Arrangements to be made by the contractor for maintenance :-

The contractor shall have to arrange the followings T&P for successful maintenance.

- a. Required lubricant & coolant as per norms in sufficient quantity. Separate battery charger of sufficient capacity should be maintained in DG Room for regular charging of battery, and ensure all batteries are healthy.
- b. One set of standby battery should be maintained in the DG Room in full / float charging condition.
- c. One set of self starter should always be maintained.
- d. Necessary stock of genuine spares at site for maintenance / repair for engine / alternator / AMF Panel and associated items.
- e. Necessary set of tools in safe custody as recommended by the original manufacturer of D.G. Set during operation & maintenance along with **Ear Plugs / Headphones** etc. as required.
- f. D.G. Set shall always be in auto mode.
- g. Servicing of D.G. Set with 'B' check maintenance will be the responsibility of the contractor as & when required. All the material will be supplied by the contractor for maintenance of the D.G. Set.
- h. **The contractor is responsible and shall have the arrangements for checking & replacement of all the defective parts & maintenance works related to D.G. Set with**

AMF Panel & electric control Panel such as Repair / servicing of voltage regulator, dynamo, self starter, radiator, exhaust piping, silencer, calibration of fuel pump & injectors, **replacement of engine oil & coolants**, cleaning & replacement of air filters, checking & tightening of all nuts & bolts, replacement of rubber sleeves & hose piping, Checking & replacement of protective plugs, Checking & replacement for coupling in fuel pump drive, V-belts, safety control devices thermostats, nozzles etc. & all related works **in case of breakdowns / routine maintenance.**

Special terms & Conditions :-

- a. **The contractor shall also arrange insurance of electrical items so installed by him, as per G-schedule, so cover up any major loss to the equipment due to theft, damages, fire incidents etc, for which JDA shall re-imbrues the insurance premium to the contractor.**
- b. **Escalation :- NO escalation on any account will be paid during the currency of the contract since this is a lump sum contract.**
- c. **Handing Over :- After completion of 5 years AMC contract, the contractor shall handover the entire system in proper working condition with genuine parts replacement as per instruction & maintenance manuals of original manufacture of D.G. Set .**
- d. **Nothing extra will be paid for cleaning of D.G. Set & AMF Panel. The contractor will have to arrange all the washing material Such as old dhotis & detergent at site.**
- e. **Mobile Telephone :- The contractor shall have to provide one mobile telephone to his maintenance staff & should give the mobile number of supervisor / himself in the office of Engineer Incharge.**
- f. **The contractor shall be fully responsible for any type of accident with his employed staff.**
- g. **Penalty Clause: - Rate of recovery if the employed staff is found absent from duty or non working of the system will @ Rs 1000.00 Per day.**
- h. **The contractor should submit the complete name of Employee, Father's name & their residential addresses along with 2 passport size photographs before commencing the agreement for issuing the entry passes & police verification .**
- i. **Log Books :- The contractor shall have to maintain the log book as per prescribed Performa having all the details of maintenance works done time to time, as per engineer in charge.**

The contractor shall be responsible for faithful compliance of the terms & conditions of this agreement, failure of which will attract for forfeit of the contractor dues & security deposits as well as termination of the contract & getting the work done from outside agency at the cost & risk if the contractor.

Executive Engineer (Elect-P4)

JDA, Jaipur

SPECIAL CONDITIONS

SCHEDULE 'H'

1. If there is any typographical error or otherwise in the 'G' Schedule the rate given in the relevant BSR on which Schedule 'G' has been prepared, shall prevail.
2. The contractor shall follow the contractor labour regulation and abolition Act 1970 & Rule 1971.
3. The JDA shall have right to cause an audit technical examination of the work and the final bills of the contractor including all supporting vouchers, abstract etc. to be made within two years after payment of the final bills and if as a result such audit any amount is found to have been over paid / excess in respect of any work done by the contractor under the contract or any work claimed by him to have been done under this contract and found not to have been executed the contractor shall be liable to refund such amount and it shall be lawful for the JDA to recover such sum from him in the manner prescribed in special condition no. 8 or any other manner legally permissible and if it is found that the contractor was paid less than that was due to him under the contract in respect of work executed by him under it, the amount of such under payment shall be paid by the JDA to the contractor.
4. The contractor shall not work after the sunset and before sunrise without specific permission of the authority Engineer.
5. Wherever any claim against the contractor for the payment of a sum of money arises out of under the contracts, the JDA shall be entitled to recover the sum by appropriating in part or whole of the security deposit of the contractor, In the event of the security being insufficient or if no security has been taken from the contractor then the balance of the total sum recoverable as the case may be shall be deducted from any sum then due or which at any time there contract with the JDA should this sum be sufficient to recover the full amount recoverable. The contractor shall pay to JDA on demand the balance remaining due. The JDA shall further have the right to affect such recoveries under P.D.R. Act.
6. The rate quoted by the contractor shall remain valid for a period of 4 (Four) months from the date of opening of the bids.

7. By submission of this bid the contractor agree to abide with all printed conditions provided in the PWD manual from 64 (Chapter 3-para 36) and subsequent modification.
8. No conditions are to be added by the contractor and conditional bid is liable to be rejected.
9. All transaction in this execution of this work and this bid will be liable to Sale-Tax vide section. 2(B) read with sub-clause (4) Sale-tax Rule, 1954.
10. If any bidder withdraws his bid prior to expiry of said validity period given at S.No. 7 or mutually extended period or makes modifications in the rate, terms and conditions of the bid within the said period which are not acceptable to the department or fails to commence the work in the specified period, fails to execute the agreement and fails to furnish performance guarantee the department shall without prejudice to any, other right or remedy, be at liberty to forfeit the amount of earnest money given in any form absolutely. If any contractor, who having submitted a bid does not execute the agreement or start the work or does not complete the work and the work has to be put to rebidding he will stand debarred for 6 Months from participating of bidding in JDA in addition to forfeiture of Earnest Money / Security Deposit and other action under agreement.
11. The contractor shall arrange his own machinery required for the work such as Bitumen Mixer, Hot Mix plants and paver, road roller, Tar boiler, sprayer etc.
12. The contractor shall arrange his own storage tanks up to 10 Tones capacity for storage of bulk bitumen wherever supplied by the department.
13. Rules regarding enlistment of contractor provide that work up to the times limit for which they are qualified for bidding can be allotted to them, Therefore, before bidding the contractor will keep this in mind, and submit the details of the work. Bids with incomplete or incorrect information are liable to be rejected.
14. Any material not conforming to the specifications collected at site have to be removed by the contractor within a period of 3 days of the instruction, issued by the Engineer -In charge in writing failing which, such material shall be removed by the Engineer-In charge at risk and cost of the contractor after expiry of 3 days period.
15. The material collected at site and paid provisionally shall remain under and ward of the contractor till it is consumed, fully on the work.

16. The rates provided in bid documents are inclusive of all Taxes and royalty.
17. For paver work at least 3 road rollers shall be simultaneously deployed.
18. No extra lead of earth/material shall be paid over and above as specified in 'G' Schedule Source/borrow pit area for earth shall have to be arranged by the Contractor at his own cost.
19. Undersigned has full right to reject any or all bids without given any reasons.
20. Mortar of Masonry work and lean concrete will be permitted mixer with hopper.
21. As per Supreme Court decision "All contracts with Governments shall require registration of workers under the building and other construction workers (Regulation of Employment and Conditions of Service) Act, 1996 and extension of benefits to such workers under the act.
22. Special Conditions of Contract regarding Defect Liability Period (DLP) for Roads works costing Rs. 25.00 lacs and more shall be applicable
23. The bidders are required to submit copy of their enlistment as contractor.
24. Conditions of RPWA-100 will be mandatory & acceptable to the contractor.
25. Any bid received with unattested cutting/ overwriting in rates shall be rejected and such bidder will be debarred from bidding for three months in JDA.
26. All the provision of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT 2012 and Rules, 2013 will be applicable. If there is any contradictions in existing special conditions and provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT 2012 and Rules 2013 provision of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT 2012 and Rules 2013 shall be applicable.
27. "If any bidder quotes a rate below than the Schedule "G" rates, i.e. rates below than at par, then the bidder has to deposit the difference amount i.e. amount between the rates as per at par and below, as work performance guarantee. This amount has to be deposited before the commencement of work and will be refunded after successful completion of work. Lowest bidder will be issued LOA (Letter of Acceptance) and within 7 days period he has to deposit difference amount in the form of BG/FDR/NSC. The validity of these shall be for a period three months beyond the stipulated date of completion/ actual date of completion. In case of non deposition of the same in specified period the 2% Bid security will be forfeited. In case work is not completed satisfactorily. The work performance security will be forfeited along with Bid security."

SIGNATURE OF CONTRACTOR

WITH FULL ADDRESS:

EXECUTIVE ENGINEER Elect.-P4

JDA JAIPUR

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR
Special Terms & Conditions for Electrification work.

The Contractor has to give the performance guarantee of the following materials for the period mentioned against them from the date of completion of work:

(a)	Transformers	30 Months
(b)	All types of Insulators	18 Months
(c)	ACSR Conductors	6 Months
(d)	Isolators	6 Months
(e)	Horn gap fuse set	6 Months
(f)	LT Pillar Box	6 Months
(g)	All types of HT/LT cables	18 Months

1. The Contractor has to arrange for the permission for the charging of electrical system from the Electrical Inspector Govt. of Rajasthan. He will have to deposit the necessary fees, which shall be reimbursed by Jaipur Development Authority.
2. The contractor will coordinate for the system handing over and charging process and if any defects, is pointed out by the RSEB/JVVNL, then he will have to rectify the same.
3. The final bill shall be paid after the lines and substations are handed over to RSEB/JVVNL and system is charged.
4. Inspection shall be bear by the contractor it self.
5. The material shall be purchased from the firms, which are also supplying the material to RSEB/JVVNL.
6. All HT/LT cables should be sequentially marked with cable size & length duly embossed.
7. The contractor shall return unused material issued to him by the depts. If desired by the Engineer in-charge and in case, of failure to do so he shall be charged for such unreturned material at double the issue rate including storage and supervision charges or the market rate whichever is higher. The basis of the theoretical consumption and allowing for wastage @ 5% at double the issue rate including storage and supervision charges or market rate which ever is higher.
8. **The contractor shall be fully responsible to follow safety code as per IS 3764:1992 (upto date). The work should be executed without damaging existing water pipe line, LT/HT electric under ground cable, poles, existing surface drain, water connections, Telephone cables etc. In case of any damages the penalty/ liability imposed for such work shall be borne by the contractor and shall be got repaired immediately by arranging material/ labor/ assistance etc. In case of delay JDA reserve right to execute/ get executed the work at the cost and risk of the contractor.**
9. It is a mandatory condition that contractor will get all insulated material tested from CTL of JVVNL before using it at site.

Executive Engineer (Elect-P4)
JDA, Jaipur.

I carefully study & do agree for above terms & conditions.

Signature & Seal of the Contractor

DETAILED SPECIAL CONDITION AND SPECIFICATIONS

1. The scope of the Schedule "G" comprises shifting of HT/LT lines and street light work mentioned in the Schedule 'G'.
2. The tubular poles are proposed to be erected generally in the median strip of the road or sides unless otherwise instructions are given to change the alignment.
3. The road in question in national, highway/important only road and as not only heavy traffic passes through the road but all the VIPs also pass through it the before it will be the contractor responsibility the provide all retardates caution signs during the execution of work at his own cost in order in to avoid any miss happening.
4. No opening shall be left uncovered during night. The bidder shall make all arrangement to avoid any claim if preferred on his account shall be the liability of the bidder.
5. No road or part of the road shall be cut without taking the prior permission in writing from the competent authority. The permission shall be arranged by bidder on the request of JDA. However, any changes will be borne by JDA.
6. The contractor shall be deemed to have carefully examined the specifications general condition and bid drawing etc. and they have been fully informed and have satisfied himself as to the nature and character of the work to be executed site conditions and other relevant matters and details.
7. References to standards code specifications recommendation shall mean the attested addition of such publications of the work to be executed at site before the date of invitation to submit proposals.
8. The excavated material shall be place within 1.5 Mtr. of the edge the half of the depth of the trench with have is more side clear shall be done within 24 hours.
9. The work shall be carried out strictly Dom plying within Indian Electricity Rules in force and as per specifications for Electrical and lift work issued by PWD Raj., Jaipur 1980 or any other IS code for this work.
10. **Trenching** : The trenches shall be of shaper size as instructed by the Engineer-in-Charge.
 - (a) **Width**
 - (i) The minimum width of trench for laying single cable shall be 35 Cm.
 - (ii) Where more than one cable is to be laid in the same trench in horizontal formation. The width of the trench shall be increased such that the spacing between the cables shall be at least 20 Cm.
 - (b) **Depth**

- (i) Where cable core laid in single tier formation in the total depth of shall not be less than 75 cm for cable up to 1.1 KV.
- (ii) When more than one tier of cable is unavoidable and vertical formation of laying is adopted depth of trench in (i) above shall increase by 30 cm for each additional tier to be formed.
- (iii) The depth shall be 1.0 Mtr. of 11 KV, 1.5 Mtr. for 33 KV.

(c) EXCAVATION

The trench must be excavated straight and if it is necessary to give any band or curve radius of such trench shall be at least 12 time the over all diameter of the cable.

(d) PLACING OF THE CABLE

The cable must be places in the trench on band of fine sand of 8 cm thick bed, and the cable shall be laid below water and sewer lines.

- (e) For the safe guard of cable it must have covering of clean dry river sand or any other type of soil as directed by Engineer-in-Charge is not less than 17 cm.

(f) PROTECTION

To protect the cable against mechanical damages the second class bricks or stone katla as specification shall be placed over the cable width wise.

- 11. Satisfactory type / acceptance test that results wherever applicable conducted from Govt. / Govt. approved laboratory as per ISS shall be submitted prior to use. The routine tests of cable shall be conducted only after delivery at site at his own cost.

12. EARTHING

The ground earthing shall be done generally confirming to IS specification of 3043-1966 all the work earth terminal be provided duly crimped / soldered.

13. CONTROLLING PANELS

The controlling panels such as main panel service pillar-box and fuse boxes are to be installed in span. The rubber gasket bedding of high quality rubber is to be provided around all operable parts. The all-hard works should be made corrosion resistant giving all chemical treatment before its fabrication and before final coat desired colour painting and red oxide primer should be applied. All internal connectives are be made with PVC insulated copper conductor with copper lugs dully crimped. The internal wiring shall be arranged with clips the bus bars and connection shall consists of drawn high conductivity copper strip with PVC 3 leaves tops of phase colours.

14. SUBMISSION OF DRAWING BY THE CONTRACTOR

The following two drawing are required to be submitted by the contractor.

- (i) Main Panel Drawing : The contractor shall submit the drawing of main panel all dimensions all internal connection of diagram, well before its fabrication and obtain prior approval of the drawings from the competent authority.
- (ii) Completion drawings : The contractor shall submit the completion drawings of the project showing the roots of the cable and position of panel etc.

15. TESTING

The following test shall be performed by the contractor at his own cost.

- (i) **Continuity and installation test of cable** : The contractor shall arrange for the continuity of cable for well use of the perfect of the cable.
 - (ii) **Mager Testing** : The whole installation shall be arranged to be test by contractor after its completion shall in presence of Engineer-in-Charge and result shall be recoated and signed jointly.
16. **Earthing Testing**: Earth test shall be performed by the contractor and results will be used be recorded and signed jointly.
 17. Any other test for cable etc. required shall be arranged by the contractor.
 18. No condition of any short except as provided in the printed from schedule of quantities will be entertained.
 19. Conditions given in the bid from apply in full.
 20. The contractor shall have to obey the labour laws. The labour shall have to pay monthly and shall have first line on the bill of contractor, in case of complaint of labour and non-payment of wages is received to the department.
 21. The rate of every item should be quoted against each in figures and in words as well for complete Non BSR Items.
 22. In case of any typographical error in nomenclature, unit and rate, the rates as per BSR on which 'G' Schedule is prepared shall be binding on the bids.
 23. In case of any dispute the Executive Engineer (Elect-P4) decision shall be final.
 24. The bidders are expected to be fully conversant with the general and special conditions of contract in force in this office. They must see the site of work acquaint themselves of the position of the materials, Fluctuation of the rates in the market, see the schedule and plans in the office and remove doubts, if any, before submitting their bids.
 25. The JDA is not responsible for arranging any material whatsoever any the contractor will have to complete the work within the specified time with specified material and approved accessories, from the stock, non-availability of material or delay in the consignment will not be entertained to as an excuse for extension of time for completion of work.
 26. Contractor will not be paid extra for sales or any other tax.
 27. Bids must be submitted on the prescribed forms duly signed by the bids on every page.
 28. All entries by the bidder should be in on ink only. Erasers and over writings are not permissible. All cancellation correction and insertions must be signed by the bidder.If any rates are not quoted, bid will be rejected.
 29. Rate quoted should be given for the work; separately in words and figures in case there is any difference in rates between words and figures the lower of the two will be taken as correct.

30. All the papers signed by the parties to this contract and bond together and sealed shall deemed to form part of the contract bond and shall be read as conditions of contract.
31. In every case in which by virtue for the provisions of section 12 sub section (I) of the Workman's Compensation Act, 1923 cost is obliged to pay compensation to a workman employed by the contractor or by a sub contractor for execution to said work Govt. will recover from the contractor the amount of the compensation paid and without prejudice to the rights of Govt. under section 12 sub section (2) of the said Act, Govt. shall be at liberty to recover such amount or any part there of by deducting if from the earnest money deposited by the contractor to his credit or any other sum due by Govt. to the contractor whether under this contract or other wise.
32. The contractor should have submit safety certificate for equipment each year separately in maintenance period.
33. The contractor shall arrange the certificate from electric inspector on completion of the electric installation at his own however any fee to be paid on this account shall be paid by the JDA.
34. The entire material should be as per PWD BSR 2013 of Electrical work of Schedule 'G' & specified main materials of schedule 'H' and shall be of ISI marked.

I/We have carefully study the instructions / conditions mentioned above & do hereby undertake to agree for the same.

**SIGNATURE OF CONTRACTOR
WITH FULL ADDRESS:**

**EXECUTIVE ENGINEER (Elect-P4),
JDA, JAIPUR**

Note :

- 1- fdlh Hkh fufonk dks fcuk dkj.k crk, fujLr fd;k tk
ldrk gSAvkosnd @ laosnd dks fufonk izkIr djus ds fy,
vkosnu ds lkFk iath;u izek.k i= dh izfr izLrqr djuk
vfuok;Z gSA
- 2- vkosnd @ laosnd dks fufonk izi= ij viuk irk ,oa
nwjHkk"k uEcj vafdr djuk vfuok;Z gSA

Annexure A : Compliance with the code of Integrity and No Conflict of Interest

Any person participating in a procurement process shall –

- (a) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- (b) Not misrepresent or omit the misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) Not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- (d) Not misuse any information shared between the procuring Entity and the Bidders with an intent to gain unfair advantage in the procurement process;
- (e) Not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) Not obstruct any investigation or audit of a procurement process;
- (g) Disclose conflict of interest, if any; and
- (h) Disclose any previous transgressions with any Entity in India or any other country during the last three years or any debarment by any other procuring entity.

Conflict of Interest :-

The Bidder participating in a bidding process must not have a Conflict of interest. A conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

- i. A Bidder may be considered to be in Conflict of Interest with one or more parties in a bidding process if, including but not limited to:
 - a. Have controlling partners/shareholders in common ; or
 - b. Receive or have received any direct or indirect subsidy from any of them; or
 - c. Have the same legal representative for purposes of the Bid; or

- d. Have a relationship with each other; directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Entity regarding the bidding process; or
- e. The Bidder participates in more than one Bid in a bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the Bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one Bid; or
- f. The Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Goods, Works or Services that are the subject of the Bid; or
- g. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge/ consultant for the contract.

Annexure B : Declaration by the Bidder regarding Qualifications Declaration by the Bidder

In relation to my/our Bid submitted to for procurement of in response to their Notice inviting Bids No.Dated I/We hereby declare under Section 7 of Rajasthan Transparency in Public Procurement Act, 2012, that :

1. I/We possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. I/We have fulfilled my/our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
3. I/We are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceeding for any of the foregoing reasons;
4. I/We do not have, and our directors and officers not have, been convicted of any criminal offence related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement Contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/We do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

Date :

Place :

Signature of bidder

Name :

Designation :

Address :

Annexure C : Grievance Redressal during Procurement Process

The designation and address of the First Appellate Authority is ACE/DE-I, JDA, Jaipur

The designation and address of the Second Appellate Authority is JDC, JDA, Jaipur

(1) Filing an appeal

If any Bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the Act or the Rules or the Guidelines issued there under, he may file an appeal to First Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved: Provided that after the declaration of a Bidder as successful the appeal may be filed only by a Bidder who has participated in procurement proceedings: Provided further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filed only by a Bidder whose Technical Bid is found to be acceptable.

(2) The officer to whom an appeal is filed under para (1) shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within thirty days from the date of the appeal.

(3) If the officer designated under para (1) fails to dispose of the appeal filed within the period specified in para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the First Appellate Authority, the Bidder or prospective bidder or the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidding Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

(4) Appeal not to lie in certain cases

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely :-

- (a) Determination of need of procurement;
- (b) Provisions limiting participation of Bidders in the Bid process;
- (c) The decision of whether or not to enter into negotiations;
- (d) Cancellation of a procurement process;

(e) Applicability of the provisions of confidentiality.

(5) Form of Appeal

(a) An appeal under para (1) or (3) above shall be in the annexed form along with as many copies as there are respondents in the appeal.

(b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.

(c) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorized representative.

(6) Fee for filing appeal

(a) Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.

(b) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

(7) Procedure for disposal of appeal

(a) The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.

(b) On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall,-

(i) Hear all the parties to appeal present before him; and

(ii) Peruse or inspect documents, relevant records or copies thereof relating to the matter.

(c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.

(d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.

FORM No. 1

[See Rule 83]

**Memorandum of Appeal under the Rajasthan
Transparency in Public Procurement Act, 2012**

Appeal No. of

Before the (First/Second Appellate Authority)

1. Particulars of appellant :

(i) Name of the appellant :

(ii) Official address, if any :

(iii) Residential address :

2. Name and address of the respondent (s) :

(i)

(ii)

(iii)

3. Number and date of the order appealed against and name and designation of the officer/authority who passed the order (enclose copy), or a statement of a decision, action or omission of the Procuring Entity in contravention to the provisions of the Act by which the appellant is aggrieved:

4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative:

5. Number of affidavits and documents enclosed with the appeal :

6. Grounds of appeal :

(Supported by an affidavit)

7. Prayer :

Place

Date

Appellant's Signature

Annexure D : Additional Conditions of Contract

• Correction of arithmetical errors

Provided that a Financial Bid is substantially responsive, the Procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis:

- i. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- ii. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected and . If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Declaration shall be executed.

2. Procuring Entity's Right to Vary Quantities

- (i) If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.
- (ii) On repeat order for extra items for additional quantity may be placed if it is provided in the bidding documents on the rates and conditions given in the contract, if the original order was given after inviting open competitive bids. Delivery or completion period may also be proportionately increase. The limits of repeat order shall be as under.

- (a) 50% of the qty of the individual items and 50% of the value of original contract in case of works and
- (b) 50% of the value of goods or services of the original contract.

3. Dividing quantities among more than one Bidder at the time of award (In case of procurement of Goods)

As a general rule all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

Tender Inviting Authority: Jaipur Development Authority, Jaipur				
Name of Work: Re-development of Electrical work at Amar Jawan Jyoti, Jaipur				
Contract No: NIB No-EE-P-4-Elect/11/2015-16				
Bidder Name:		Less (-)		%

SCHEDULE OF WORKS

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
1.00	Wiring of light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper conductor 1.1 kV grade and 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper earth conductor 1.1 kV grade (IS:694) of approved make on surface ISI marked (IS:14927 P - II) PVC casing capping & it's accessories, round tiles,18 SWG M.S. box with earth terminal, 6 A switch, 3.0 mm thick ISI marked phenolic laminated sheet, zinc plated / brass screws, cup washers, making connections, testing etc. as required.					
1.01	Short point (up to 3 mtr.)	30.00	P. point	194.00	Rupees One Hundred & Ninety Four Only	5820.00
1.02	Medium point (up to 6 mtr.)	60.00	P. point	293.00	Rupees Two Hundred & Ninety Three Only	17580.00
1.03	Long point (up to 10 mtr..)	20.00	P. point	415.00	Rupees Four Hundred & Fifteen Only	8300.00
2.00	Wiring of 3 pin 5 amp. Light plug point with 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper conductor 1.1 kV grade and 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper earth conductor 1.1 kV grade (IS:694) of approved make on surface ISI marked (IS:14927 P - II) PVC casing capping & it's accessories, 18 SWG 175 mm x 100 mm x 60 mm M.S. box with earth terminal, 6 A switch, 6 A socket, 3.0 mm thick ISI marked phenolic laminated sheet, zinc plated /					

	brass screws, cup washers, making connections, testing etc. as required.					
2.01	On board	10.00	P. point	91.00	Rupees Ninety One Only	910.00
2.02	Short point (up to 3 mtr.)	5.00	P. point	232.00	Rupees Two Hundred & Thirty Two Only	1160.00
2.03	Medium point (up to 6 mtr.)	5.00	P. point	326.00	Rupees Three Hundred & Twenty Six Only	1630.00
2.04	Long point (up to 10 mtr..)	1.00	P. point	442.00	Rupees Four Hundred & Forty Two Only	442.00
3.00	S&F following sizes (dia.) of ISI marked (IS:9537 P - II) rigid steel conduit along with accessories in surface / recessed using saddles, clamps, fastener pvc bushes, check nuts, as required including cutting the wall and making good the same as required.					
3.01	20 mm	20.00	R. mtr.	94.00	Rupees Ninety Four Only	1880.00
3.02	25 mm	50.00	R. mtr.	120.00	Rupees One Hundred & Twenty Only	6000.00
3.03	32 mm	10.00	R. mtr.	177.00	Rupees One Hundred & Seventy Seven Only	1770.00
4.00	Supplying and fixing of power plug point accessories on 18 SWG metal box of size 175 x 100 x 60 mm. on surface or in recessed with suitable size phenolic laminated sheet cover including cost of 6 pin 16 amp. Switch and socket outlet , making connection , testing , etc. as required.	30.00	Each	235.00	Rupees Two Hundred & Thirty Five Only	7050.00
5.00	P&F 240/415 V AC MCB with positive isolation of breaking capacity not less than 10 KA (B/ C/ D tripping characteristic) ISI marked IS 8828(1996)]/ conforming to IEC 60898 in existing board/sheets including making connections, testing etc. as required.					
5.01	Single pole MCB 0.5 A to 5 A rating	6.00	Each	206.00	Rupees Two Hundred & Six Only	1236.00

5.02	Single pole MCB 6 A to 32 A rating	20.00	Each	151.00	Rupees One Hundred & Fifty One Only	3020.00
5.03	Single pole MCB 40 A to 63 A rating	10.00	Each	286.00	Rupees Two Hundred & Eighty Six Only	2860.00
5.04	Double pole MCB 6 A to 32 A rating	4.00	Each	401.00	Rupees Four Hundred & One Only	1604.00
5.05	Double pole MCB 40 A 63 A rating	2.00	Each	689.00	Rupees Six Hundred & Eighty Nine Only	1378.00
5.06	Four pole MCB 6 A to 32 A rating	4.00	Each	918.00	Rupees Nine Hundred & Eighteen Only	3672.00
5.07	Four pole MCB 40 A 63 A rating	4.00	Each	1378.00	Rupees One Thousand Three Hundred & Seventy Eight Only	5512.00
6.00	P&F 240/415 V Residual current circuit breaker conforming to IS:12640:1988/ IEC 61008 on existing board/sheet including making connections, testing etc. as required					
6.01	Two pole 30 mA sensitivity 40 A rating	6.00	Each	1839.00	Rupees One Thousand Eight Hundred & Thirty Nine Only	11034.00
6.02	Two pole 30 mA sensitivity 63A rating	6.00	Each	2299.00	Rupees Two Thousand Two Hundred & Ninety Nine Only	13794.00
6.03	Four pole 100/300 mA sensitivity 25 A rating	10.00	Each	2011.00	Rupees Two Thousand & Eleven Only	20110.00
6.04	Four pole 100/300 mA sensitivity 40 A rating	7.00	Each	2034.00	Rupees Two Thousand & Thirty Four Only	14238.00
6.05	Four pole 100/300 mA sensitivity 63 A rating	8.00	Each	2413.00	Rupees Two Thousand Four Hundred & Thirteen Only	19304.00
7.00	P&F Recessed/ Surface mounting heavy duty horizontal type sheet steel Distribution board phophatised/ powder painted complete with suitable rating insulated copper bus bar, shorting link , neutral link, earth link and din bar,masking sheet, conforming to IS13032 & IS8623 including making internal DB terminations with copper lugs , testing etc. as required. Double door (single phase) 12 Way	2.00	Each	1065.00	Rupees One Thousand & Sixty Five Only	2130.00

8.00	P&F flush/surface type enclosure for housing MCB/Isolator with Din rail including making connections with lugs, repairs etc. as required. With sheet steel enclosure					
8.01	One way	2.00	Each	225.00	Rupees Two Hundred & Twenty Five Only	450.00
8.02	Three way	1.00	Each	305.00	Rupees Three Hundred & Five Only	305.00
8.03	Four way	1.00	Each	315.00	Rupees Three Hundred & Fifteen Only	315.00
9.00	P&F metal clad industrial plug top & socket unit with pin and sleeve type contact on porcelain/ bakelite base in sheet steel enclosure (without MCB) including making connections, testing etc.as required					
9.01	Single / Double Pole (Three pin) 20 A	2.00	Each	725.00	Rupees Seven Hundred & Twenty Five Only	1450.00
9.02	Three / Four pole (Five pin) 30A-32A	1.00	Each	1782.00	Rupees One Thousand Seven Hundred & Eighty Two Only	1782.00
10.00	P&F recessed/ surface mounting heavy duty Vertical type 16 SWG sheet steel Distribution board with provision of incomer suitable for MCB / RCCB and SP / TP MCB as outgoing , phophatised ,powder painted complete with insulated suitable rating copper bus bar , neutral link, earth link and din bar, masking sheet,conforming to IS13032 & IS8623 including making internal DB terminations with copper lugs , testing etc. as required. Double door 6 Way	2.00	Each	5298.00	Rupees Five Thousand Two Hundred & Ninety Eight Only	10596.00

11.00	SITC of wall/ free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet , required hardware ,duly treated for derusting in 7 tank process with dephosphating and with powder coating on both side of panel in desired shade The panel having PU/ Neoprene rubber gasket of not less than 3mm thickness , separate detachable gland plate M.S. base channel ,hinged door with locking arrangement for equipment/switchgear . Thickness of sheet shall not be less than 1.6 mm up to 600 mm length / width of any compartment and be of 2.0 mm above 600 mm. Load bearing structure shall be of 2.0 mm thick sheet supported by base M.S. channel if required . Side walls and cable alley compartments having bolted type doors with / without detachable extension type structure. (only outer area on all sides shall be measured & panel to be fabricated from CPRI approved fabricator)	30.00	SQ.Mtr.	2752.00	Rupees Two Thousand Seven Hundred & Fifty Two Only	82560.00
12.00	Supplying and fixing of Aluminium / Copper bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending , cutting in required shape and size and colour coding with heat shrinkable PVC sleeves. Electrolytic grade Aluminium bus bar	152.00	Kg.	420.00	Rupees Four Hundred & Twenty Only	63840.00
13.00	SF of (0-500) V range Volt meter on existing panel , making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Digital type	4.00	Each	1100.00	Rupees One Thousand One Hundred Only	4400.00
14.00	SF of CT operated direct reading type Ampere meter on existing panel , making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Digital type					
14.01	Below 500 A	4.00	Each	1100.00	Rupees One Thousand One Hundred Only	4400.00
14.02	Above 500 A	4.00	Each	1375.00	Rupees One Thousand Three Hundred & Seventy Five Only	5500.00
15.00	SF of Current Transformer , with all necessary support in existing panel including connection etc. as required .					
15.01	up to 150 / 5 Ratio , 5 VA , class 1 accuracy	6.00	Each	306.00	Rupees Three Hundred & Six Only	1836.00

15.02	from 200 / 5 to 400/5 Ratio , 10 VA , class 1 accuracy	6.00	Each	323.00	Rupees Three Hundred & Twenty Three Only	1938.00
15.03	from 500 / 5 to 1600/5 Ratio , 15 VA , class 1 accuracy	3.00	Each	397.00	Rupees Three Hundred & Ninety Seven Only	1191.00
16.00	SF of 110/220 V, LED (22.5 mm dia) Indicating lamp with integral circuit, terminal block, including connection etc. as required.					
16.01	Red/yellow/Green colour	18.00	Each	150.00	Rupees One Hundred & Fifty Only	2700.00
16.02	Blue colour	5.00	Each	250.00	Rupees Two Hundred & Fifty Only	1250.00
17.00	S & F of Electrical insulating rubber mats confirming to IS: 15652 / 2006 with one side anti skid abberation marks and pasting the mat with synthetic rubber adhesive as required.					
17.01	3.3 KV, 2 mm thick with proof voltage 10 KV / 3 min. and Break Down Voltage 30 KV	3.00	SQ.Mtr.	1800.00	Rupees One Thousand Eight Hundred Only	5400.00
17.02	11 KV, 2.5 mm thick with proof voltage 22 KV / 3 min. and Break Down Voltage 45 KV	10.00	SQ.Mtr.	2300.00	Rupees Two Thousand Three Hundred Only	23000.00
18.00	SITC of self healing MPP/MP type shunt capacitor (banks) conforming to IS:13340-41 / IEC :831-1&2 in existing panel or parallel with load terminals , the capacitor shall be fitted with discharge resistors, pressure sensitive disconnecter (PSD) and shall have dissipation factor less than 0.0025 at 50 Hz and total wattage loss less than 0.5 Watt per KVAR . including making connections with suitable capacity conductors/cables testing etc. as required. Heavy duty Three phase 440 V , 50 Hz capacitor (Bank)	75.00	KVAR	546.00	Rupees Five Hundred & Forty Six Only	40950.00
19.00	P & F of Multy function meter with LCD/ LED display capable of measuring electrical parameters like V, I, F, PF, KW, Kva, Kvar, Kwh, Kvah, Kvarh display with 1A/5A CT input for LV/ HV network, RS 485 communication port etc. complete in all respect.	3.00	Each	17242.00	Rupees Seventeen Thousand Two Hundred & Forty Two Only	51726.00

20.00	SITC of microprocessor based three phase sensing power factor correction relay having following sensing capacity secondary current , self analysing auto c/k setting according to targeted power factor setting, the relay shall have digit display unit for display of real power factor, targeted power factor, lag/lead capacitor switching status, alarm output for under current, over current, insufficient compensation, indication of switching on units, auto/manual status, and shall have over load protection, no volt release , having multi parameter like KW, KVA, KVAR, metering facility as required. 6 to 8 stage sensitivity up to 50 milli Amp	1.00	Each	17205.00	Rupees Seventeen Thousand Two Hundred & Five Only	17205.00
21.00	P & F Cam operated rotary switches on existing panel with 2 way and off position Two pole 16 A	1.00	Each	295.00	Rupees Two Hundred & Ninety Five Only	295.00
22.00	P & F of ac operated heavy duty 230 /440 Volt power contactor conforming to IS:13947-4-1/IEC:947-4-1 having provision of mechanical interlocking, auxiliary contacts, Din rail mounting type including making connections, testing etc. as required. 3 pole Power contactors with following AC 3 Rating 32 Amp.	3.00	Each	2150.00	Rupees Two Thousand One Hundred & Fifty Only	6450.00
23.00	P & F of 440 Volt 3 pole capacitor (AC 6 B) duty contactor with 3 no. early make and post break auxiliary contacts in series with quick discharge damping resistors/ reactors to limit the inrush current , conforming to IS:13947-4-1/IEC:947-4-1, Din rail mounting type including making connections, testing etc. as required. suitable for following capacity capacitor bank.					
23.01	7 to 10 KVAR	1.00	Each	1450.00	Rupees One Thousand Four Hundred & Fifty Only	1450.00
23.02	21 to 29 KVAR	2.00	Each	5150.00	Rupees Five Thousand One Hundred & Fifty Only	10300.00
23.03	50 KVAR	1.00	Each	7890.00	Rupees Seven Thousand Eight Hundred & Ninety Only	7890.00
24.00	P & F thermal over load relay with built in single phase protection and having at least 1NO & 1NC contacts, manual /auto reset facility including making connection testing etc. as required.					

24.01	Up to 14 Amp	4.00	Each	1175.00	Rupees One Thousand One Hundred & Seventy Five Only	4700.00
24.02	15 to 20 Amp	10.00	Each	1175.00	Rupees One Thousand One Hundred & Seventy Five Only	11750.00
24.03	21 to 30 Amp	8.00	Each	1600.00	Rupees One Thousand Six Hundred Only	12800.00
24.04	31 to 40 Amp	12.00	Each	2160.00	Rupees Two Thousand One Hundred & Sixty Only	25920.00
25.00	P & F push button actuators and integral contact block of dia. 22.5 mm including making connection etc. as required. Non luminous type	20.00	Each	85.00	Rupees Eighty Five Only	1700.00
26.00	P&F of mechanical / digital time switch having following day / week programme and minimum 100 hours reserve and AC1 rating of 16-20 amperes including making connection, programming etc. as required One day & week reserve (digital type)	2.00	Each	5746.00	Rupees Five Thousand Seven Hundred & Forty Six Only	11492.00
27.00	SITC of Fixed / Draw out type 3 pole Air Circuit Breaker conforming to IS 60947 P - 2 in existing LT panel suitable for LT installation 440 V, 50 Hz and having adjustable over load short-circuit, earth fault and microprocessor based release with separate LED indication for each type of fault ,LCD display , Thermal memory at least 4NO & 4NC auxiliary contacts safety shutter and fault position acknowledgement mechanism . type ACB shall have separate indication for service, test, isolation, maintenance position, Breaking capacity Icu = Ics = Icw (1 sec) , Uimp - 12 KV, including making connections etc. as required. Draw out type (Motorised charging type) 800 A Rating , 50kA	2.00	Each	134683.00	Rupees One Lakh Thirty Four Thousand Six Hundred & Eighty Three Only	269366.00
28.00	Supply and fixing of following accessories for Air circuit breakers.					
28.01	Shunt Trip Release	2.00	Each	2588.00	Rupees Two Thousand Five Hundred & Eighty Eight Only	5176.00
28.02	Under Voltage Release	2.00	Each	3769.00	Rupees Three Thousand Seven Hundred & Sixty	7538.00

					Nine Only	
28.03	Earth Fault Release	2.00	Each	2588.00	Rupees Two Thousand Five Hundred & Eighty Eight Only	5176.00
28.04	Mechanical Interlocking kit	2.00	Each	7313.00	Rupees Seven Thousand Three Hundred & Thirteen Only	14626.00
29.00	SITC of quick make and quick break 3 pole current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 60947-2 / IEC 60947-2 with front face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR , shunt trip , earth fault trip, push (test) to trip, including making connections with lugs & spreaders, etc. as required. With Thermal Magnetic release					
29.01	up to 100 Amp , 16 kA, adjustable O/L & fixed S/C setting, lcs = 100 % lcu	5.00	Each	4250.00	Rupees Four Thousand Two Hundred & Fifty Only	21250.00
29.02	up to 100 Amp , 25 kA, adjustable O/L & fixed S/C setting, lcs = 100 % lcu	5.00	Each	4782.00	Rupees Four Thousand Seven Hundred & Eighty Two Only	23910.00
29.03	160 Amp , 25 kA, adjustable O/L & fixed S/C setting, lcs = 100 % lcu	3.00	Each	7363.00	Rupees Seven Thousand Three Hundred & Sixty Three Only	22089.00
29.04	200 Amp , 25/35 kA, adjustable O/L & fixed S/C setting, lcs = 100 % lcu	1.00	Each	12994.00	Rupees Twelve Thousand Nine Hundred & Ninety Four Only	12994.00
29.05	630 Amp , 35/50 kA, adjustable O/L & adjustable S/C setting, lcs = 100 % lcu	2.00	Each	24433.00	Rupees Twenty Four Thousand Four Hundred & Thirty Three Only	48866.00
30.00	SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 60947-2 / IEC 60947-2 with front face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR , shunt trip ,earth fault					

	trip, push (test) to trip , including making connections with lugs & spreaders, etc. as required.					
30.01	With Thermal Magnetic release up to 125 Amp , 25 kA, adjustable O/L & fixed S/C setting, lcs = 100 % lcu	2.00	Each	7800.00	Rupees Seven Thousand Eight Hundred Only	15600.00
30.02	With Microprocessor based release 250 Amp , 35 kA, adjustable O/L & Adjustable S/C setting, lcs = 100 % lcu	4.00	Each	27286.00	Rupees Twenty Seven Thousand Two Hundred & Eighty Six Only	109144.00
30.03	With Microprocessor based release 630 Amp , 35/50 kA, adjustable O/L & adjustable S/C setting, lcs = 100 % lcu	2.00	Each	37249.00	Rupees Thirty Seven Thousand Two Hundred & Forty Nine Only	74498.00
31.00	Supply and fixing of following accessories for MCCB					
31.01	Shunt Trip Release	1.00	Each	1794.00	Rupees One Thousand Seven Hundred & Ninety Four Only	1794.00
31.02	Under Voltage Release	1.00	Each	2673.00	Rupees Two Thousand Six Hundred & Seventy Three Only	2673.00
31.03	Earth Fault Release	1.00	Each	1698.00	Rupees One Thousand Six Hundred & Ninety Eight Only	1698.00
32.00	P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS :7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, IInd class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size.					
32.01	6.0 Sq.mm 3 core	640.00	Mtr.	133.00	Rupees One Hundred & Thirty Three Only	85120.00
32.02	6.0 Sq.mm 4 core	100.00	Mtr.	146.00	Rupees One Hundred & Forty Six Only	14600.00

32.03	10.0 Sq.mm 3 core	100.00	Mtr.	151.00	Rupees One Hundred & Fifty One Only	15100.00
32.04	10.0 Sq.mm 4 core	100.00	Mtr.	170.00	Rupees One Hundred & Seventy Only	17000.00
32.05	16.0 Sq.mm 4 core	500.00	Mtr.	178.00	Rupees One Hundred & Seventy Eight Only	89000.00
32.06	95.0 Sq.mm 3.5 core	20.00	Mtr.	523.00	Rupees Five Hundred & Twenty Three Only	10460.00
32.07	150.0 Sq.mm 3.5 core	50.00	Mtr.	735.00	Rupees Seven Hundred & Thirty Five Only	36750.00
32.08	300.0 Sq.mm 3.5 core	330.00	Mtr.	1367.00	Rupees One Thousand Three Hundred & Sixty Seven Only	451110.00
32.09	185.0 Sq.mm 3.5 core	1400.00	Mtr.	917.00	Rupees Nine Hundred & Seventeen Only	1283800.00
33.00	P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with Copper conductor of IS:1554 P-I / IS :7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, 11nd class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size. 2.5 Sq.mm					
33.01	2 core	200.00	Mtr.	122.00	Rupees One Hundred & Twenty Two Only	24400.00
33.02	3 core	100.00	Mtr.	173.00	Rupees One Hundred & Seventy Three Only	17300.00
33.03	4 core	99.00	Mtr.	203.00	Rupees Two Hundred & Three Only	20097.00
33.04	8 core	50.00	Mtr.	304.00	Rupees Three Hundred & Four Only	15200.00
33.05	12 core	100.00	Mtr.	383.00	Rupees Three Hundred & Eighty Three Only	38300.00

34.00	Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.					
34.01	3 x 6.0 sq.mm	30.00	Set	59.00	Rupees Fifty Nine Only	1770.00
34.02	3 x 10.0 sq.mm	6.00	Set	59.00	Rupees Fifty Nine Only	354.00
34.03	3.5 x 95.0 sq.mm	4.00	Set	286.00	Rupees Two Hundred & Eighty Six Only	1144.00
34.04	3.5 x 150.0 sq.mm	8.00	Set	328.00	Rupees Three Hundred & Twenty Eight Only	2624.00
34.05	3.5 x 185.0 sq.mm	8.00	Set	395.00	Rupees Three Hundred & Ninety Five Only	3160.00
34.06	3.5 x 300.0 sq.mm	8.00	Set	613.00	Rupees Six Hundred & Thirteen Only	4904.00
34.07	4 x 6.0 sq.mm	4.00	Set	63.00	Rupees Sixty Three Only	252.00
34.08	4 x 10.0 sq.mm	6.00	Set	63.00	Rupees Sixty Three Only	378.00
34.09	4 x 16.0 sq.mm	4.00	Set	108.00	Rupees One Hundred & Eight Only	432.00
35.00	P , Laying & Jointing R.C.C. class NP-2 (Non pressure) pipes (IS:458) with collars. Jointed with cement mortar of ratio 1:2 including excavation etc. as required.					
35.01	150 mm dia internal.	60.00	Mtr.	300.00	Rupees Three Hundred Only	18000.00
35.02	300 mm dia internal.	110.00	Mtr.	450.00	Rupees Four Hundred & Fifty Only	49500.00
36.00	P & Laying XLPE insulated IS:7098/II/85 of Group1 and approved make H.T.cable for working voltage 11 K.V.Earthed direct in ground including excavation of 30cmx100cm size trench, 25cm layer of river sand, 11nd class bricks covering, refilling earth, compaction of earth, making necessary connection testing etc.as required of size. 3 core 185.0 Sq.mm	200.00	Mtr.	1266.00	Rupees One Thousand Two Hundred & Sixty Six Only	253200.00

37.00	Providing & making Cold shrinkable type indoor/outdoor/straight through terminations/joint kit of Group1 and approved make suitable for XLPE insulated 11 / 33 KV cable, with required components, prepration of cable ends,testing etc. as required of following sizes . 11 KV End Termination Kit Outdoor type 3 core 120/150/185/225 Sq.mm	2.00	Set	7796.00	Rupees Seven Thousand Seven Hundred & Ninety Six Only	15592.00
38.00	Providing & making heat shrinkable type indoor/outdoor/straight through terminations/joint kit of Group1 and approved make suitable for XLPE insulated 11 KV / 33 KV cable, with required components, prepration of cable ends,testing etc. as required of following sizes . 11 KV End Termination Kit Indoor type 3 core 120/150/185/225 Sq.mm	5.00	Set	5000.00	Rupees Five Thousand Only	25000.00
39.00	Plate Earthing as per IS:3043 with copper Earth plate of size 600mm x 600mm x 3.0mm by embodying 3 to 4 mtr. below the ground level with 25 mm dia. G.I. 'B' class watering Pipe including all accessories like nut, bolts, reducer, nipple ,wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size300mm x 300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required.	10.00	Set	9200.00	Rupees Nine Thousand Two Hundred Only	92000.00
40.00	S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required.					
40.01	25mm x 5mm copper strip	60.00	Mtr.	785.00	Rupees Seven Hundred & Eighty Five Only	47100.00
40.02	25mm x 6mm G.I. (Hot Dipped) Strip	100.00	Mtr.	110.00	Rupees One Hundred & Ten Only	11000.00
41.00	P & F Star rated double ball bearing capacitor start, aluminium body & blade ceiling fan with down rod up to 30 cm with 3 x 1.5 sq.mm pvc insulated flexible copper conductor making connection testing etc. as required. 1200 mm Sweep 5 Star rated	1.00	Each	1896.00	Rupees One Thousand Eight Hundred & Ninety Six Only	1896.00
42.00	P&F of Heavy duty capacitor start, Double ball bearing 900/1400 RPM single phase ISI marked Exhaust fan,IS:2312 marked in existing opening including making connections testing etc. as required. 450 mm sweep(900/1400 RPM)	2.00	Each	5349.00	Rupees Five Thousand Three Hundred & Forty Nine Only	10698.00

43.00	P & F box type fluorescent tube fitting fabricated from CRCA sheet and finished with powder coating / stove enamelled paint complete with accessories (Low Loss Copper Choke, starter, starter seat) / Electronic Choke with terminal block duly prewired with copper conductor including making connection, testing etc. as required(without tube). 1 X 28 Watts with EB	10.00	Each	911.00	Rupees Nine Hundred & Eleven Only	9110.00
44.00	P & F Ballast for existing FTL / CFL fixture as required. High frequency electronic ballast 28 watts for T5 Lamps	10.00	Each	563.00	Rupees Five Hundred & Sixty Three Only	5630.00
45.00	P & F of IP20 LED Recessed / Surface Mounted, Round / Square Non-Dimmable Downlight with die-cast aluminum housing & Heat Sink for heat dissipation, high purity reflector with external driver having efficiency > 85% and in compliance to IEC standards. Power Consumption of ≤ 7W/ 10W / 15W / 18W with ~ 500 / 750 / 1100 / 1250 lumens, System Lumen efficacy of 70 lm / watt output suitable to replace 1x18W / 2x18W / 2x 26W CFL Downlights, life time of 50000 Burning Hours with 70% of initial Lumen maintained. CCT 3000°K , 4000°K & 6000°K. Fixture shall be CE compliance. Recessed Mounting LED Downlight 18/20W	49.00	Each	4000.00	Rupees Four Thousand Only	196000.00
46.00	P & F of IP65 IK10 rated LED bulk head type light fixture made from CRCA sheet steel housing suitable for mounting LED tube system (integral driver), Power Consumption of 10-15W ~ 500-600 lumens, system lumen efficiency 70 lm/Watt output suitable for 1x100W GLS / 9W CFL bulk head fixtures, life time of 50,000 burning hours with 70% initial lumen maintained. CCT 3000°K, 4000°K & 6000°K. Fixture shall be in compliance with CE & KEMA standards.					
46.10	LED BULK head luminaire 9/10W	20.00	Each	7800.00	Rupees Seven Thousand Eight Hundred Only	156000.00
47.00	P & F of IP67 IK10 protected Buried uplight LED fixture with aluminium housing, LED 15W - 25W, 220V-240V, 50Hz LEDs with available in quick connecting cable coupled with various mounting accessories. Driver shall be high efficiency having efficiency > 85% and in compliance to IEC standards (Integral with light fixture). system life of 25000 Burning Hours with 70% of initial Lumens maintained. Light output in Green, Cool white or Warm White Colour as per					

	engineers choice. Fixtures shall be CE compliance.					
47.10	LED Uplight Round/square	5.00	Each	13540.00	Rupees Thirteen Thousand Five Hundred & Forty Only	67700.00
48.00	SITC of Air Cooled split type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), surface / concealed copper Refrigerant piping with insulation (EP foam pipe section) upto 3 Mtr (IDU to ODU), copper power cable upto 4 Mtr (IDU to ODU), R-22/R-410 Refrigerant, Remote, suitable for 400/230V +10% of 50 Hz ,1 /3 phase AC supply capable of performing cooling, dehumidification, air circulation of following capacity with Scroll / reciprocating / rotary compressor as specified. Hi Wall/Ceiling Wall Split					
48.10	2.0 TR with 5 star rating of BEE	1.00	Each	67650.00	Rupees Sixty Seven Thousand Six Hundred & Fifty Only	67650.00
49.00	P & F of IP 65 / IP66 protected High Power LED Flood Light system with extruded aluminium housing, toughened glass diffuser with suitable lenses on LED to acheive various beam angles, 240V, 50Hz - High Power LED lamps supplied with pre-wired cable of 1 mtr. Integrated Driver shall be high efficiency having efficiency > 85% and in compliance to IEC standards.System life of 25,000 Burning Hours with 70% of initial Lumens maintained. Light output in Cool white or Warm White Colour as per engineers choice. Fixtures shall be CE and compliance					
49.10	High Power LED Flood Light 120W	18.00	Each	38000.00	Rupees Thirty Eight Thousand Only	684000.00

50.00	Providing and fixing of IP 65 protectd Polycarbonate / Polysterene fuse box moulded with inside knock outs of following size with hinged cover, transparent window, PU gasket, locking arrangement, duly holded with 2 nos. pole clamps of 20 mm x 3 mm flat with nut and bolts, complete with The box shall be provided with Din rail, 4 / 8 way 10.0 / 16.0 sq.mm heavy duty connector, earth terminal, complete in all respect.					
50.01	125 mm X 200 mm X 122 mm	5.00	Each	1200.00	Rupees One Thousand Two Hundred Only	6000.00
50.02	160 mm X 225 mm X 100 mm	5.00	Each	1500.00	Rupees One Thousand Five Hundred Only	7500.00
50.03	200 mm X 200 mm X 122 mm	4.00	Each	2000.00	Rupees Two Thousand Only	8000.00
51.00	P&F of thermoplastic/ PVC cable junction boxes of following sizes including clamps for holding the box, cost of DIN rail for MCB mounting, connectors for cables terminals, threaded cable glands made of polyamide material etc. complete in all respect.					
51.01	175mm X 150mm X100mm	12.00	Each	450.00	Rupees Four Hundred & Fifty Only	5400.00
51.02	300mm X 200mm X125mm	2.00	Each	650.00	Rupees Six Hundred & Fifty Only	1300.00
52.00	SITC of Cutting back up surface up to 2 Mtr. Depth by digging by Bogi including all layers of crust for laying pipe line etc. and making good to original condition (excluding cost of bitumen)	350.00	Mtr.	360.00	Rupees Three Hundred & Sixty Only	126000.00
53.00	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering - All work up to plinth level.					
53.10	M10 grade Nominal Mix 1: 3: 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	10.00	Cum.	3881.00	Rupees Three Thousand Eight Hundred & Eighty One Only	38810.00
54.00	Supply and fixing of 1.6 mm thick MS 11 kV Danger plates as per specification of Discom on the existing poles complete in all respect as per Discom specification.	10.00	Each	45.00	Rupees Forty Five Only	450.00

55.00	SITC of 11 KV, 400/630 A, 20kA / 3 sec, Out door, Extensible type Ring main unit (RMU) in suitable RCC foundation with 2 no. Load break switch & 1 no. VCB / SF6 circuit breaker with over load, Earth fault, short circuit relay, copper bus bar, earthing switch, mechanical ON / OFF / Earth indication, Voltage presence indicator, Ring core protection CT 2.5 VA, 10P10 as per transformer rating, Shunt trip coil, Anti reflex operating handle, right angle boots etc. as required.	3.00	Set	414560.00	Rupees Four Lakh Fourteen Thousand Five Hundred & Sixty Only	1243680.00
56.00	Supply and fixing of pillar box made of 2 mm thick powder coated CRCA sheet of 415 volts 3 phase 4 wire triple pole and neutral type, complete in all respect as required. Including knife switch of 400 amp. rating , HRC fuses with copper one piece U contacts base, brass studs and nuts, copper busbar for main and interconnection, MS angle frame of 50 x 50 x 6 mm grouted with C.C. of M-10 grade to achieve the height of 1.5 feet above the road level suitable for four outgoing.	4.00	Each	42500.00	Rupees Forty Two Thousand Five Hundred Only	170000.00
57.00	Supply & fabrication steel structure with MS channel / angle / joist / ISMB / sheet etc. including welding, rivetting, cutting, nut & bolt , Painting etc. as required.	500.00	Kg	84.00	Rupees Eighty Four Only	42000.00
58.00	SITC of Silent DG Set (As per CPCB norms) complete with 1500 RPM Diesel Engine of suitable BHP & AC Brush less SPDP Alternator mounted on a common base Frame & coupled through a flexible coupling or close coupled. Alternator shall be self regulated with standard Alternator Protection(Over voltage , over speed & under voltage, under speed warning & shutdown). Engine shall have residential silencer, up to 3 M exhaust piping , electronic / Mechanical governor, Manual & electric Start ,Batteries, Engine instruments panel, AVM and with Weatherproof, powder coated Accoustic enclosure for DG set for sound attenuation fabricated from 1.6 mmCRCA sheet steel (structure) with side wall fabricated from 1.6 mm CRCA sheet & filled with 100mm thick glass wool(96Kg/m3)/Foam. as per IS 8183 the doors of 100 mm thick and fabricated from 1.6mm CRCA sheet packed with accoustic material, canopy fixed with axial flow fan , All doors/ opening are sealed with neoprene/EPDN gaskets. The enclosure has built in fuel tank, residential					

	silencer (isolated from main DG chamber) with protection and tripping of DG set					
58.10	against temperature of more than 50 degree centigrade. All controls for operation of DG set are from outside the enclosure with DG control panel having Microprocessor based Genset monitoring & control system, MCCB, Ammeter, Voltmeter, PF meter, frequency meter, KWH meter, Ind.lamps etc. mounted inside enclosure , visible and accessible from outside. The enclosure should be suitable for following capacity DG sets and alternator. Noise level shall be less than 75 dBA at a distance of 1 Mtrs. duly certified by authorised agency etc. complete in all respect of following capacity : Radiator Cooled & Turbo Charged /AC					
58.20	320 KVA at 0.8 pf 415V 50Hz 3-Ø	1.00	Each	2470500.00	Rupees Twenty Four Lakh Seventy Thousand Five Hundred Only	2470500.00
59.00	SITC of Auto main failure (AMF) Panel fabricated from CRCA sheet steel 2 mmThick , Powder coated finish , Engine Start & Stop commands, control Relays , selector switches for Ammeter & Voltmeter, Ammeter & Voltmeter , Control & Power Contactors, Timers, Electronic Hooter ,Visual & Alarm indication for faults, UPS, operator interface panel complete in all respect suitable for following capacity DG sets: PLC Based:					

59.10	320 to 500 KVA	1.00	Each	281250.00	Rupees Two Lakh Eighty One Thousand Two Hundred & Fifty Only	281250.00
60.00	Plate Earthing as per IS:3043 with G.I. Earth plate of size 600mm x 600mm x 6.0mm by embodying 3 to 4 mtr. below the ground level with 25 mm dia. G.I. 'B' class watering Pipe including all accessories like nut, bolts, reducer ,nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size300mm x 300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required.	15.00	Set	4250.00	Rupees Four Thousand Two Hundred & Fifty Only	63750.00
61.00	S I T C of Copper wound Transformer conforming to IS: 2026 & Losses as per Discom's CTL (CTL Test certificate to be attached) of rating 11/0.433KV Delta-Star Connected, Vector Group Dyn 11, standard accessories like conservator, silica gel breather, radiator, fins, HT bushing & LT cableboxes, Off -LTC (+/- 5% in steps of 2.5%) winding temperature rise of 50/55 C, ISI marked drain valve, Dial type Temperature gauge, first fill of oil, Epoxy based paint, including carrying of pre-commission Testing & Charging of Transformer. (See table - 08 for CTL Losses) 500KVA	1.00	Each	710600.00	Rupees Seven Lakh Ten Thousand Six Hundred Only	710600.00
62.00	Supply, Installation, Testing & Commissioning of HT metering cubical panel as approved By DISCOMs fabricated out of 14 SWG CRCA sheet steel in two compartment & MS angle of size 60mmX6mm having provision for Following: (i)Provision for fixing Trivector Meter (To be supplied by DISCOMs) (ii)Provision for fixing of combined CT PT Set (To be supplied by DISCOMs), (iii)TT Block, (iv) 6mm Bakelite sheet on all sides, (V) 3/6 core copper cable for interconnections etc. as required.	1.00	Each	20813.00	Rupees Twenty Thousand Eight Hundred & Thirteen Only	20813.00
63.00	P & F paper phenolic resin bonded laminates confirming to IS : 2036 - 1995 for boxes/ frames including making holes for switches etc, with brass screws, washers/ zinc plated nut and bolts as required. 6.4 mm thick	8.00	Sq.m	891.00	Rupees Eight Hundred & Ninety One Only	7128.00
64.00	Supply and filling of POL for DG sets	2500.00	Per KVA per	11.00	Rupees Eleven Only	27500.00

			Hour			
64.01	AMC Work					
65.00	I st Year AMC charges Ex clusive defective liability period (DLP)	12.00	P. Month	21417.42	Rupees Twenty One Thousand Four Hundred & Seventeen and Paise Forty Two Only	257009.04
66.00	II nd Year AMC Charges	12.00	P. Month	34267.92	Rupees Thirty Four Thousand Two Hundred & Sixty Seven and Paise Ninety Two Only	411215.04
67.00	III rd Year AMC Charges	12.00	P. Month	38551.42	Rupees Thirty Eight Thousand Five Hundred & Fifty One and Paise Forty Two Only	462617.04
68.00	IV th Year AMC Charges	12.00	P. Month	42834.92	Rupees Forty Two Thousand Eight Hundred & Thirty Four and Paise Ninety Two Only	514019.04
69.00	V th Year AMC Charges	12.00	P. Month	47118.42	Rupees Forty Seven Thousand One Hundred & Eighteen and Paise Forty Two Only	565421.04
Total Estimated Cost in Figures						12490666.20
Quoted Amount					12490666.20	12490666.00
Quoted Rate in Words		Rupees One Crore Twenty Four Lakh Ninety Thousand Six Hundred & Sixty Six Only				