

INDEX

Name of Work : Maintenance & Repair of Electrical Installation in various Police Stations under AE (E) EMSD -III, Sunlight Colony New Delhi.(SH:- Repair/Replacement of faulty/obsolete electrical installation and fixtures at Lajpat Nagar Section)

S.No.	Description	Page No.
1.	Index	1
2.	Information & instructions for bidders for e-tendering to be posted on website	2 – 3
3.	Prescribed Format of Receipt of Deposition of Original EMD along with NIT	4
4.	CPWD-6 For E-Tendering	5-9
5.	Forms CPWD-7	10-11
6.	Schedule 'F'	12-16
7.	Schedule of Work	17-20
8.	List of Preferred Makes	21
9.	Terms & Conditions	22-24

**Assistant Engineer(E)
EMSD-III, South East, PWD, New Delhi**

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GOVERNMENT OF NCT, DELHI
PUBLIC WORKS DEPARTMENT
INFORMATION & INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING PART OF
BID DOCUMENT & TO BE POSTED ON WEBSITE

The Assistant Engineer(E), PWD Electrical Maintenance Sub Division -III, South East, Sunlight Colony, New Delhi-110014, (**e-mail- aeeppwddelhim4533@gmail.com**) invites online percentage rate e- tender on behalf of the President of India in two bid system from the following:-

Approved & Eligible CPWD Composite Category Contractors

OR

Those of appropriate list of MES, BSNL & other state Govt. Department dealing with building & road & other experienced contractors who satisfy the criteria of execution of similar work. The contractor who have successfully completed works during last Seven Years ending previous day of last date of submission of tender, Three No. Similar Works each of value not less than 40% of estimated cost i.e. Rs. 2.35 Lac put to tender or Two No. Similar Works each of value not less than 60% of estimated cost i.e. Rs. 3.53 Lac put to tender or One No. Similar Work of value not less than 80% of the estimated cost i.e. Rs. 4.71 Lac put to tender.

Similar Work Means:- “Electrical Installation”

The value of work done will be brought to current level by enhancing the value of work done @ 7% simple interest.

S.No.	NIT No.	Name of work & Location	Estimated cost put to bid	Earnest Money	Period of Completion	Last date and time of submission of bid, Original EMD, Copy of receipt for deposition of original EMD & other documents as specified in the press notice.	Time and date of opening of eligibility documents	Time & date of opening of Price Bid
1	2	3	4	5	6	7	8	9
1	135/EE(E)/EMD SE/PWD/AE(E)III/2019-20	Maintenance & Repair of Electrical Installation in various Police Stations under AE (E) EMSD -III, Sunlight Colony New Delhi.(SH:- Repair/Replacement of faulty/obsolete electrical installation and fixtures at Lajpat Nagar Section)	Rs. 5,88,522/-	Rs. 11770/-	01 Month	22/01/2020 Upto 3.00 PM	22/01/2020 at 3.30 PM	Shall be decided later

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. Information and instruction for bidders posted on website shall form part of bid documents.

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3. The Bid documents consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://govtprocurement.delhi.gov.in> at ID No. **2019 PWD 1 free of cost.**
4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer **PWD Delhi** within period of bid submission. **(The EMD document shall only be issued from the place in which the office of receiving division office is situated)** and uploading the mandatory scanned documents such as Demand Draft or Pay order or Banker's Cheque or Deposit at call Receipt or Fixed Deposit Receipts of any Scheduled Bank towards EMD in favour of **Executive Engineer (E) PWD EMD M-452, New Delhi, as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer, PWD Delhi** and other documents as specified.
5. Those contractors not registered on the website mentioned above, are required to get registered before and if needed they can be imparted training on online bidding process as per details available on the website.
6. The intending bidder must have valid digital signature to submit the bid.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink color and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0".
10. Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
11. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
12. Conditional tender shall not be accepted.

List of Documents to be scanned & uploaded within the period of bid submission failing which the bids shall be rejected:

- i) Treasury Challan/Demand Draft/Pay order or Banker's Cheque /Deposit at Call Receipt / Fixed Deposit receipt of any Scheduled Bank against EMD.
- ii) Copy of CPWD enlistment order enlisted in Composite Category or Completion Certificates of Similar Works.(Issued by EE(E) or equivalent rank).
- iii) Copy of the Latest GST Return Filed.
- iv) Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, PWD Delhi (The EMD document shall be issued from the place in which the office of receiving division office is situated.)
- v) Valid Electrical contractor License or affidavit as per provision of clause 1.2 of CPWD – 6.

(ईजी० भूर सिंह मीना)
सहायक अभियंता (वै०),
लो०नि०वि०,वै०अनु०उपमं०-3 द०पू०,
सनलाईट कॉलोनी, नई दिल्ली।

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Prescribed Format of Receipt of Deposition of Original EMD alongwith NIT

Receipt of Deposition of Original EMD

(Receipt No...../Date.....)

1. Name of Work:- Maintenance & Repair of Electrical Installation in various Police Stations under AE (E) EMSD -III, Sunlight Colony New Delhi.(SH:- Repair/Replacement of faulty/obsolete electrical installation and fixtures at Lajpat Nagar Section)
2. NIT No.:- 135/EE(E)/EMD SE/PWD/AE(E)III/2019-20
3. Estimated Cost:- **Rs. 5,88,522/-**
4. Amount of Earnest Money Deposit: - **Rs. 11770/-**
5. Last date of submission of bid:- **22/01/2020**

-
1. Name of Contractor #
 2. Form of EMD #
 3. Amount of Earnest Money Deposit #
 4. Date of submission of EMD#

Signature, Name and Designation of EMD
Receiving Officer(EE/AE(P)/AE/AAO
alongwith Office Stamp

(# To be filled by EMD Receiving EE or NIT Issuing EE/AE as the case may be)

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GOVT. OF NCT DELHI
PUBLIC WORKS DEPARTMENT
NOTICE INVITING E-Tender

1. The Assistant Engineer(E), PWD Electrical Maintenance Sub Division -III, South East, Sunlight Colony, New Delhi-110014, (**e-mail- aeeppwddelhim4533@gmail.com**) invites online percentage rate e- tender on behalf of the President of India in two bid system from the following:-

Approved & Eligible CPWD Composite Category Contractors.

OR

Those of appropriate list of MES, BSNL & other state Govt. Department dealing with building & road & other experienced contractors who satisfy the criteria of execution of similar work. The contractor who have successfully completed works during last Seven Years ending previous day of last date of submission of tender, Three No. Similar Works each of value not less than 40% of estimated cost i.e. Rs. 2.35 Lac put to tender or Two No. Similar Works each of value not less than 60% of estimated cost i.e. Rs. 3.53 Lac put to tender or One No. Similar Work of value not less than 80% of the estimated cost i.e. Rs. 4.71 Lac put to tender.

Similar Work Means:- “Electrical Installation”

The value of work done will be brought to current level by enhancing the value of work done @ 7% simple interest.

For the Work of “Maintenance & Repair of Electrical Installation in various Police Stations under AE (E) EMSD -III, Sunlight Colony New Delhi.(SH:- Repair/Replacement of faulty/obsolete electrical installation and fixtures at Lajpat Nagar Section)”

The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of opening of bid is extended, the enlistment of contractor should be valid on the original date of opening of bids.

- 1.1 The work is estimated to cost Rs. 5,88,522/- This estimate, however, is given merely as a rough guide.
- 1.2 **Civil and other Contractors enlisted with CPWD in appropriate composite category will be allowed to participate in tendering process by giving a copy of under taking that they will either obtain Valid Electrical Licenses at the time execution of electrical work or associates contractors having Valid Electrical license of eligible class.**
2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 8 (OR OTHER Standard Form as mentioned) which is available as a Govt. of India Publication. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **(01) Month** from the date of start as defined in schedule ‘F’ or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.

OR

The site for the work shall be made available in parts as specified below :-

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from the website.
6. After submission of the bid the contractor can submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rates of one or more item(s) any number of times (he need not enter rate of all the items) but before last time and date of submission of bid as notified.

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8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
9. Earnest Money in the form of Treasury Challan or Demand Draft or Pay Order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favor of **Executive Engineer (E) PWD EMD M-452, New Delhi**) shall be scanned and uploaded to the e-Bidding website within the period of bid submission. The Original EMD should be deposited either in the office of Executive Engineer INVITING bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer(i/c NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by bid INVITING EE in the NIT.

This receipt shall also be uploaded to the e-bidding website by the intending bidder upto the specified bid submission date and time.

A part of the earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money of Rs. 20 lacs, whichever is less, will have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for Six Months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

Copy of Enlistment order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Bidding website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week physically in the office of bid opening authority.

Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at **3:30 PM on 22/01/2020**

10. The bid submitted shall become invalid if:-
 - (i) The bidders is found ineligible.
 - (ii) The bidders does not deposit original EMD with division office of any Executive Engineer, CPWD.
 - (iii) The bidder does not upload all the documents(including service tax registration/VAT Registration/Sales Tax Registration) as stipulated in the bid document including the copy of receipt for deposition or Original EMD)
 - (iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
11. The Contractor whose tender is accepted will be required to furnish performance guarantee of 5% (Five percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at call receipt of any scheduled bank/ Banker's Cheque of any scheduled bank/Demand draft of any scheduled bank/Pay order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited alongwith the bid shall be returned after receiving the aforesaid performance guarantee.
The Contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board **including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work** and Programme Chart(Time & Progress)within the period specified in Schedule F.
12. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidders shall be

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deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided from the contract documents. Submission of a bid by a bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/ Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of gazette rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. The bid for the work shall remain open for acceptance for a period of **Fifteen (15) days** from the date of opening of Price Bid. If any bidders withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the bidding process of the work.
19. This notice inviting bid shall form a part of the contract document. The successful bidder/ contractor, on acceptance of his bid by the accepting authority shall remain 15 days from the stipulated date of start of the work, sign the contract consisting of:
 - a) The Notice inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b) Standard CPWD Form 7/8 or other standard CPWD Form as mentioned.

20. For Composite Bids

20.1.1 The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to bid for the composite bid.

20.1.2 The bid document will include following three components:

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- Part A CPWD-6, CPWD-7/8 including schedule A to F for the major component of the work. Standard General Conditions of Contract for CPWD 2010 or latest edition as applicable with all amendments/ modifications.
- Part B General/ specific conditions, specifications and schedule of quantities applicable to major component of the work.
- Part C Schedule A to F for minor component of the work (SE/EE in charge of major component shall also be competent authority under clause 2 and clause 5 as mentioned in schedule A to F for major components). General/ specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.
- 20.1.3 The bidders must associate with himself, agencies of the appropriate class eligible to bid for each of the minor component individually.
- 20.1.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.
- 20.1.5 After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EEs/DDH in charge of minor components. One such signed set of agreement shall be handed over to EE /DDH in charge of minor component. EE of major component will operate part A and Part B of the agreement. EE/ DDH in charge of minor component(s) shall operate Part C alongwith Part A of the agreement.
- 20.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.
- 20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works. The Earnest Money will become part of the security deposit of the major components of work.
- 20.1.8 The main contractor has to associate agency(s) for minor component(s) conforming to eligibility criteria as defined in the bid documents and has to submit detail of such agency(s) to Engineer-in-charge of minor component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of minor component(s).
- 20.1.9 In case the main contractor intends to change any of the above agency / agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of minor component. The new agency/ agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.
- 20.1.10 The main contractor has to enter into agreement with contractor(s) associated by him for execution of minor component(s). Copy of such agreement shall be submitted to EE/DDH in charge of each minor component as well as to EE in charge of major component. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.
- 20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor components directly to the main contractor.
- 20.1.11A ***The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components. (Added vide OM DG/MAN/270/ dt. 01.05.2013).***
- 20.1.12B Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in-charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

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21. List of Documents to be scanned and uploaded within the period of bid submission:

- i) Treasury Challan/Demand Draft/Pay order or Banker's Cheque /Deposit at Call Receipt / Fixed Deposit receipt of any Scheduled Bank against EMD.
- ii) Copy of CPWD enlistment order enlisted in Composite Category or Completion Certificates of Similar Works.(Issued by EE(E) or equivalent rank).
- iii) Copy of the Latest GST Return Filed.
- iv) Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, PWD Delhi (The EMD document shall be issued from the place in which the office of receiving division office is situated.)
- v) Valid Electrical contractor License or affidavit as per provision of clause 1.2 of CPWD – 6.

Tender I.D.:- 2019_PWD_....._1.

लोक निर्माण विभाग (दिल्ली प्रशासन)

पत्र सं० 59(2)सहा०अभियंता(वै०)/वै०अनु०उपमंडल-III,दक्षिण पूर्व/लो०नि०वि०/19-20/.... दिनांक:-.....

प्रतिलिपि :-

- 1 कार्यपालक अभियंता(वै०),लो०नि०वि०वै०अनु०मंडल, दक्षिण पूर्व, नई दिल्ली।
- 2 सहायक अभियंता(वै०),लो०नि०वि० वै०अनु०उपमंडल- I एवं II, दक्षिण पूर्व, नई दिल्ली।
- 3 रोकडिया, लो०नि०वि० वै०अनु०मंडल, दक्षिण पूर्व, नई दिल्ली।
- 4 सूचना पट्ट, वै०अनु०उपमंडल-III,दक्षिण पूर्व।

(ईजी० भूर सिंह मीना)
सहायक अभियंता (वै०),
लो०नि०वि०,वै०अनु०उपमंडल-3 द०पू०,
सनलाईट कॉलोनी, नई दिल्ली।

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GOVT. OF NCT DELHI
PUBLIC WORKS DEPARTMENT

STATE: - DELHI

CIRCLE: - South East(M)

BRANCH: - E&M

DIVISION: - South East

ZONE:- South(M)

SUB-DIVISION - III

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

(A) Tender for the work of:-

Maintenance & Repair of Electrical Installation in various Police Stations under AE (E) EMSD -III, Sunlight Colony New Delhi.(SH:- Repair/Replacement of faulty/obsolete electrical installation and fixtures at Lajpat Nagar Section)

- (i) To be submitted by (time) **3.00 PM** hours on (date) **22/01/2020** to **Assistant Engineer(E) PWD EMSD-III, South East , New Delhi.**
- (ii) To be opened in presence of tenderers who may be present at **3.30 PM** hours on **22/01/2020** in the office of **Assistant Engineer(E) PWD EMSD-III, South East , New Delhi.**

Issued to: - M/s..... NIT.....(Contractor)**

Signature of officer issuing the documents **Assistant Engineer(E) PWD EMSD-III, South East , New Delhi.**

Date of Issue:**

.....** to be filled by AE

TENDER

I/We have read and examined the notice inviting tender, schedule A,B,C,D,E & F, applicable specifications, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special Conditions, Schedule of Rate & other documents and Rules referred to in the condition of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule "F", viz., schedule of quantities and in accordance in all respects with the specifications, design, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause-11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for due date of opening **Fifteen (15) Days** from the date of opening of Financial Bid and not to make any modification in its terms & conditions.

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A sum of **Rs. 11770/-** has been deposited in the form of Treasury Challan or Demand Draft or Pay Order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt of a scheduled bank as earnest money. **If I/we, fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said President of India or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail to commence work as specified, I/we agree that President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money or Performance guarantee as aforesaid. I / We shall be debarred for participation in the re-tendering process of the work.**

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such violation comes to the notice of Department, then I/We shall be debarred for tendering in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I/We hereby declare that I/We shall treat the tender documents, drawings and other records connected with the work as secret / confidential documents and shall not communicate information / derived therefrom to any person other than a person to whom I/We am / are authorized to communicate the same or use the information in any manner prejudicial to the safety of the state.

Dated*

Witness :
Address:
Occupation:

Signature of Contractor
Postal Address *

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of Rs.**
(Rupees.....**).

The letter referred to below shall form part of this agreement:-

- i)
- ii)
- iii)

For & on behalf of the President of India
Signature.....**
Designation: **Assistant Engineer (E)**
PWD,EMSD-III,South East,
New Delhi.

Dated**

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SCHEDULES

SCHEDULE 'A'

Schedule of quantities (Enclosed)

As per Schedule of work enclosed.

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

S.No.	Description of Item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of Issue
1	2	3	4	5
.....NIL.....				

SCHEDULE 'C'

Tools and Plants to be hired to the contractor

S.No	Description	Hire charges per day	Place of issue
1	2	3	4
.....Nil.....			

SCHEDULE 'D'

Extra schedule for specific requirements/documents for the work, if any.

SCHEDULE 'E'

Reference to General conditions of contract:- **G.C.C. 2014 amended upto date till receipt of Bid.**

Name of Work:- Maintenance & Repair of Electrical Installation in various Police Stations under AE (E) EMSD -III, Sunlight Colony New Delhi.(SH:- Repair/Replacement of faulty/obsolete electrical installation and fixtures at Lajpat Nagar Section)

- i) **Estimate cost of Work** : **Rs. 5,88,522/-**
- ii) **Earnest Money** : **Rs. 11770/- (to be returned after receiving performance guarantee)**

- iii) **Performance Guarantee** : **The Contractor shall be required to deposit an amount equal to 5% of the bided value of work as performance guarantee in the form as mentioned in Para 11 of PWD-6 within 7 days of the issue of letter of acceptance. This period can be further extended by Engineer-in-charge upto a maximum of 15 days on written request of the contractor.**

Labour regulation to be complied

1. In terms of clause 19 of the GCC, a valid labour license is obtained by the contractor before start of work in terms contract labour (Regulation & abolition) Act-1970.
2. In terms of clause 19L of the GCC, ESI & EPF contribution are to be paid by the contractor, for which contractor is to get registered himself with EPFO and ESIC.
3. Labour employed by the contractor has obtained smart card of ESI, which is essential for imparting medical facility to labour.

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<p>Amendment to General Condition of contract</p>	<p>4. Labour employed by the contractor has registered themselves with Building and other Construction Worker Act-1996 to get applicable benefits</p> <p>5. Record prescribed in 'CPWD Contractor's Labour Regulations' laid down in GCC are maintained. These include registers for workmen employed by the contractor, Muster Roll, Register of Wages, Wages slip, Employment Card, Service Certificate, Register of Fines, Register of Deduction for Damage of Loss, Register of overtime and Register of Advance.</p> <p>CPWD Contractor's labour Regulations.</p> <p>5. Payment of wages</p> <p>i) Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.</p> <p>ii) All wages shall be paid through Bank or ECS or online transfer.</p> <p>iii) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour.</p> <p>iv) The contractor shall obtain from the Junior Engineer or any other authorized representative of the Engineer-in-charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the " Wage cum-Muster Roll" as the case may be in the following form:- "Certified that the amount shown in column No..... has been paid to the workman concerned through Bank account of labour on.....at....."</p>
<p>iv) Security Deposit :</p>	<p>2.5% of the bided value</p> <p>or</p> <p>2.5% of bided value plus 2.5% PG for contracts involving maintenance of the building and services/any other work after construction of same building and services/other work.</p>

SCHEDULE 'F'

GENERAL RULES AND DIRECTIONS:

Officer Inviting Bid

Assistant Engineer(E)
PWD,EMSD-III,South East
New Delhi

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3.

See below

Definitions:

<p>2 (i) Engineer-in-Charge</p>	<p>Assistant Engineer(E) PWD,EMSD-III,South East New Delhi</p>
<p>2(ii) Accepting Authority</p>	<p>Assistant Engineer(E) PWD,EMSD-III,South East</p>
<p>2(iii) Percentage on cost of materials and labour to cover all overheads and profits.</p>	<p>15%</p>
<p>2(iv) Standard Schedule of Rates</p>	<p>DSR – 2016/Market Rate</p>
<p>2(v) Department</p>	<p>PWD (NCTD)</p>
<p>9(vi) Standard CPWD contract Form</p>	<p>CPWD form 7, as modified & corrected upto date</p>

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Clause 1

- i) Time allowed for submission of Performance Guarantee from the date of issue of bid of acceptance, in days

Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and Applicable Labour License, Registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance
7 Days

- ii) Maximum allowable extension **with late fee @ 0.1% per day of Performance Guarantee amount** beyond the period provided in (i) above

3 Day

Clause 2

Authority for fixing compensation under clause 2.

Superintending Engineer
PWDCircle South East(M-42)

Clause 2A

Whether Clause 2A shall be applicable

N.A.

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start

10 Days

Clause 5.1

The contractor shall submit a programme chart (Time & Progress) for each mile stone alongwith performance guarantee and get it approved by the Department. The chart shall be prepared in direct relation to the time stated in the contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of section of the work and may be amended as necessary by agreement between the Engineer-in-charge and the contractor within the limitations of time imposed in the contract documents, and further to ensure good progress during the execution of the work , the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per mile stones given in Schedule 'F'

Table of Mile Stone (s)

S.No	Description of Milestone (Physical)	Time Allowed in days (from date of start)	Amount to be with-held in case of non achievement of milestone
1.		N.A.	
2.			

Time allowed for execution of work

01 Month

Authority to decide:

- (i) Extension of time:-
(ii) Rescheduling of mile stones:-

As applicable

As applicable

Clause 6, 6A

Clause applicable – (6 or 6A)

.....**6**.....

Clause 7

Gross work to be done together with net }payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.

As per requirement

Clause 7 A

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Whether Clause 7A shall be applicable No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-charge.

Clause 10A

List of testing equipment to be provided by the contractor at site lab. N.A

1. 2. 3.
4. 5. 6.

Clause 10B(ii)

Whether Clause 10 B (ii) shall be applicable N.A
...No....

Clause 10C

Component of labour expressed as percent of value of workN.A.....

Clause 10CA

S.No.	Material covered under this clause	Nearest Materials (other than cement, reinforcement bars and the structural steel) for which All India Wholesale Price Index to be followed	Base Price of all Materials covered under clause 10 CA
-------	------------------------------------	---	--

Clause 10CC

Clause 10CC to be applicable in contracts with stipulated period of Completion exceeding the period shown in next column

N.A.

Schedule of component of other Material, Labour, POL etc. for price escalation.

Component of civil (except materials covered under clause 10CA) / Electrical construction Materials expressed as percent of total value of work

Xm %

Component of Labour :

Expressed as percent of total value of work

Y %

Component of P.O.L

Expressed as percent of total value of work

Z %

N.A.

Clause 11

Specifications to be followed for execution of work

General Specification for Electrical work 2013(Part-I Internal) & 1994(Part-II External) as amended upto date

Maintenance Work

Clause 12 Nature of Work :-

12.2 & 12.3 Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work/E&M work

30% of all work or as admissible.

12.5 Deviation limit beyond which clause 12.2 & 12.3 shall apply for foundation work (except earth work)

30%

Deviation Limit for items in earth work subhead of DSR or related items

100%

Clause 16

Competent Authority for deciding reduced rates.

SE, PWD Circle South East (M-42)

Clause 18 Plants to be deployed by the contractor at site

As per Site Requirement

Clause 19 1% Labour welfare cess shall be recoverable on gross amount of bill.

Clause 25

Constitution of the Dispute Redressal Committee (DRC)

[A] For total claims more than Rs. 25 Lacs.

a) Chairman:

Chief Engineer, South(M) PWD

b) Member

Director (Works), O/o E-in-C, PWD.

c) Member

One Superintending Engineer(other than under whose jurisdiction work falls) – to

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be decided by the chairman.

- d) The SE PWD Circle South East in-Charge of work **shall present case before DRC but shall not have any part in decision making.**

[B] For total claims upto Rs. 25 lacs.

- a) **Chairman:** Director (works) . O/o E-in-C, PWD.
b) **Member** **Executive Engineers**(To be decided by SE Incharge.
c) **Member** **Executive Engineers**(To be decided by SE Incharge
- c) Executive Engineer(E) South East in-Charge of the work **shall present the case before DRC but will not have any Part in decision making**

Clause 36 (i)

	Minimum Qualification of Technical Representative	Discipline	Designation (Principal technical / Technical representative)	Minimum Experience	Number	Rate at which recover shall be made from the contractor in the event of not fulfilling provision of clause 36 (i)	
						Figures	Words
1	Graduate Engineer Or	Electrical	Principal Technical Representative	2 Years or	1	15,000/- each per month	Rs. Fifteen Thousand Per month
2	Diploma Engineer			5 Years	1		

Assistant Engineers retired from Government service that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 5 Year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of the requirement of degree engineers.

Clause 42

- i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates _____ printed by CPWD. **Not applicable**
- ii) Variations permissible on theoretical quantities
- a) Cement for works with estimated cost put to bid not more than Rs. 5 lacs. **Not applicable**
for works with estimated cost put to bid more than Rs. 5 lacs. **Not applicable**
- b) Bitumen for all works **Not applicable**
- c) Steel Reinforcement and structural steel sections for each diameter, section and category. **Not applicable**
- d) All other materials. **Nil**

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

S. No.	Description of Item	Rates in figures and words at which recovery shall be made from the contractor.	
		Excess beyond permissible variation	Less use beyond permissible variation
1.	Cement	Not applicable	
2.	Steel reinforcement		
3.	Structural Sections		
4.	Bitumen issued free		
5.	Bitumen issued at stipulated fixed price		

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PWD EMD South East,
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Schedule of Work

N/W:- Maintenance & Repair of Electrical Installation in various Police Stations under AE (E) EMSD -III, Sunlight Colony New Delhi. (SH:- Repair/Replacement of faulty/obsolete electrical installation and fixtures at Lajpat Nagar Section)

S.No.	Description of Item	Qty.		Rate	unit	Amount
1	Rewiring for light point/ fan point/ exhaust fan point/ call bell 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.					
	a) Group C	132	Pts	452.00	Pt	59664.00
2	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.					
	a) 20 mm	50	Mtrs	126.00	Mtr	6300.00
	b) 25 mm	100	Mtrs	147.00	Mtr	14700.00
	c) 32 mm	30	Mtrs	198.00	Mtr	5940.00
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel / PVC conduit as required.					
	a) 3 x 1.5 sq.mm	260	Mtrs	50.00	Mtr	13000.00
	b) 6 x 1.5 sq.mm	60	Mtrs	96.00	Mtr	5760.00
	c) 3 x 4 sq.mm	240	Mtrs	111.00	Mtr	26640.00
	d) 3 x 6 sq.mm	200	Mtrs	162.00	Mtr	32400.00
4	Supplying and fixing following way, single pole and neutral, sheet, steel, MCB distributions board, 240 volts, on surface/recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
	a) 8way double door	4	Nos	1061.00	Each	4244.00
	b) 12way double door	4	Nos	1151.00	Each	4604.00

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5	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
	a) 4way (4+12) Double door	2	Nos	4502.00	Each	9004.00
6	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	a) Single Pole	110	Nos	173.00	Each	19030.00
	b) Single Pole and neutral	10	Nos	445.00	Each	4450.00
	c) Triple Pole	4	Nos	700.00	Each	2800.00
7	Supplying and fixing of Al. LED batten suitable for conduit/surface/suspended mounting a stand alone fixtre with power consumption of maximum 20W producing lumen output of 2000 lumen or more having an integral driver and 50000hrs. of life at L70. i.e the lumen output of fiture reduces of 70% of its original output after 50000hrs. complete with all accessories/attachments etc as reqd. (Make Havells/Crompton/Philips/Polycab/Halonix)	58	Nos.	600.00	Each	34800.00
8	SITC Surface mounted downlighter of 15-18 Watt LED Square/round panel with PDC aluminium housing and PMMA diffuser makes it a robust luminaire powder coated finshed in white housing with 5700K to 6000K etc. as reqd. (Make Havells/Crompton/Philips/Halonix/Polycab)	24	Nos.	881.00	Each	21144.00
9	SITC of 10watt integrated LED bulk head IP 65 protectin luminiare comprises of pressure die cast housing acrylic disffuser and frame directly on wall i/c connection etc as reqd. (Make Havells/Crompton/Philips/Halonix/Polycab)	14	Nos.	1088.00	Each	15232.00

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10	Supplying installation testing and commissioning of 34-36 Watt surface/recess mounting LED 2x2 feet Luminaire white powder coated CRCS housing with LED's seamless front frame with flat white high transmission acrylic cover i/c making connection etc. as required. (Make:- Havells Pluto panel surface or equivalent in Phillips, Wipro/Halonix)	14	Nos.	2214.00	Each	30996.00
11	Supplying, Installation, testing and commissioning of ceiling fan of 5 star rating ultra high energy efficient, (1200 mm) 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.(Make Havells/Khaitan/Crompton/Polycab/Orient)	32	Nos.	1844.00	Each	59008.00
12	Supplying & fixing 400mm sweep wall mounted cabin fan of metal body with speed regulator oscilattng type i/c testing & commsisioning etc as reqd.Make USHA-/Havells-/Crompton) (ISI Mark).	12	Nos	1917.00	Each	23004.00
13	Supplying,installation testing & commissioning of Heavy duty exhaust fan 450 mm sweep 900-950 RPM with Pre-lubricated double ball bearing & Vibration free, Dynamically balanced impeller for smooth & vibration free operation complete with suitable size louver complete with frame in the existing opening, including making the hole to suit the size of above fan and making good the damage, connection, testing, commissioning etc. as required.	8	Nos	4565.00	Each	36520.00
14	S/F of following accessories in the existing cubical panel board etc as reqd.					
	a) 250 amp KA 35 TPMCCB	2	Nos	10176.00	Each	20352.00
	b) 125 Amp KA 16 MCCB	4	Nos	3613.00	Each	14452.00
	c) 100 Amp KA 16 MCCB	6	Nos	3218.00	Each	19308.00
	d) 63 Amp Triple Pole	6	Nos	1200.00	Each	7200.00
15	Supplying, Installation Testing & Commissioning of 50-60 watt LED Flood Light fittings with IP 65 Protection on existing wall as light source with 1.5 sqmm PVC insulated FRLS, copper conductor, single core cable including loop earthing with 1.5 sqmm FRLS PVC insulated copper conductor, single core cable complete with mounting arrangement etc. complete with all accessories/attachments etc. as required. (Make: -Havells/Halonix/Philips/Crompton)	12	Nos	2640.00	Each	31680.00

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16	Supplying and fixing of pole box made out of hot moulded SMC/MS sheet with bus bar, neutral link, and 1 No. 6/10 Amp. SPMCB complete with connections earthing testing etc. as required.(Make:- sintex/Stanlac)	12	Nos	895.00	Each	10740.00
17	Supplying and Laying of following sizes of PVC insulated and PVC sheathed/XLPE aluminium conductor armoured cable of 1.1KV grade of on surface as reqd.					
	a) 3 x 10 sqmm.	240	Mtrs	120.00	Mtr	28800.00
18	Supplying & Laying of following sizes of XLPE insulated and PVC sheathed aluminium conductor armoured cable direct in ground i/c excavation, sand cushioning, protective covering and refilling the trench etc as reqd.					
	a) 3 x 10 sqmm.	120	Mtrs	307.00	P/Mtr	36840.00
19	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
	a) 3 x 10 sqmm.	10	Nos	171.00	Each	1710.00
				Total Rs		600322.00
20	Less credit on a/c of dismantle material as mentioned below					
	a) Assorted copper wire	12	Kg	250.00	Kg	-3000.00
	b) Assorted 6to32amp SP MCBs	110	Nos	10.00	Each	-1100.00
	c) 11/14/28/1x36/2x36watt light fitting	110	Nos	30.00	Each	-3300.00
	d) 1200/1400mm Ceiling fan	32	Nos	100.00	Each	-3200.00
	e) Assorted MCCB (100/125/200amps)	12	Nos	50.00	Each	-600.00
	f) flood light fitting	12	Nos	50.00	Each	-600.00
				Total Rs		588522.00

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PWD EMD South East,
New Delhi

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LIST OF PREFERRED MAKES

1	FRLS PVC insulated Copper Wire	FINOLEX/RR Kable/SKYTONE/Havells /Polycab/Ralison
2	Steel Conduit	AKG/BEC/NIC
3	Cable Glands & Lugs	DOWELLS/COMET/MCI/HMI/Asian.
4	MCB & MCB DB	SIEMENS/M.G./LEGRAND/(L&T)/ Havells./ABB/C&S.
5	MCCB / Power Contactor	SIEMENS/M.G./LEGRAND/(L&T)/ABB/Havells/C&S.
6	Armoured/Unarmoured XLPE/PVC Cable	Havells / National / Finolex / Skytone / Gloster / Polycab/Rallison(I.S.I. Marked)
7	HDPE DWC Pipe	Rex / Duraline / Tirupati
8	HDPE Pipe	Himlayan / Dutron / Kissan / Prince.
9	Earthing Material & Accessories	As per ISI specification & strictly as per CPWD specifications.
10	GI Box, plate, Switch, Socket, Regulator	Legrand (Mossiac)/North west/Havells/Indo Asian.
11	Ceiling Fan	As mentioned in Item
12	Wall mounted Cabin Fan	As mentioned in Item
13	Exhaust Fan	As mentioned in Item
14	LED Fittings	As mentioned in Item
15	Bakelite Sheet	As mentioned in Item
16	Pole Box	As mentioned in Item
17	Steel Pole	As mentioned in Item
18	Feeder Pillar	Associated Switchgears /Adelec/ Tricolite/ Milestone/ Pristine/ Application Control Panel/ Precision System Control
19	Other Items	All other items shall be as per approval of Engineer-in-charge.

**Assistant Engineer(E)
EMSD-III, South East, PWD
New Delhi**

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TERMS & CONDITIONS

1. The Work shall be carried out as per CPWD specifications for electrical works Part-I 2013 (INT), and Part-II 1994 (EXT.), CPWD specification for substation amended upto date and the Indian Electricity Rule-1956 as amended upto date for such works
2. All the materials, whatsoever, to be supplied and provided by the contractor should be of standard and approved quality. These should be got approved from the Engineer-in-Charge or his authorized representative before installation. No payment will be made for any unapproved or sub standard/ rejected materials used on the work. Rejected materials should be removed from the site of work within 48 hours failing which the same will be liable for removal by the department at the risk and cost of contractor without any liability.
3. All malba should be removed on the same day. In case of failure to do so it will be got done by the Engineer-in-Charge or his authorized representative at contractor's risk and cost.
4. All watch and ward of the materials installed at work will be responsibility of the contractors till their handing over to the department on completion of work. Merely recording of measurement and running payments made to contractor. There will be regular handing over/ taking over the installation. Any missing item shall have to be make good by the contractor.
5. Laying of the cable, position of fittings and cable routes etc. should be got approved by the Engineer-in-Charge or his authorized representative. It will be in the interest of the contractor to mark the above layout at site and get it approved before actual execution of the work otherwise it will not be accepted and the contractor will have to get it redone for which no extra payment will be made.
6. Persons employed for execution of electrical work should have electrical license as required under I.E. Act.
7. Department shall not be responsible for any injury partial or permanent or death of any worker at site due to accident or malfunctioning of the equipment or by negligence of the staff or any kind.
8. No T&P shall be issued by the department for execution of work.
9. First aid box shall be kept by the contractor at site of work. No extra payment shall be made on this account.
10. The earthing shall invariably be done in presence of the AE/ JE in-charge of the work.
11. Supply items to be got approved from Engineer-in-Charge in Advance, otherwise no payment shall be released.
12. The firm shall furnish certificate/ undertaking from the labour employed by him that he will not claim security of job from the department at any stage of time.
13. If any condition's is put by the contractor, which is not as per CPWD specifications/ terms and conditions of NIT, his tender is liable to be rejected.
14. All termination of electrical cables for sizes higher than 6sqmm shall have to done with proper thimbles/ reducer uncrimping process Copper thimble reducer shall be used for copper cable and aluminum ones for Al. cables.
15. Before cable is laid in the ground the route must be got approved from Engineer-in-Charge the cable trench shall be as straight as possible. Otherwise it will not be acceptable and the contractor will have to get it redone for which no extra payment will be made.
16. The list of approved makes for the materials to be used at site for execution of work is attached.
17. All screws/ nuts bolts should be galvanized/ cadmium plated/ passivate only as the case may be.
18. Contractor will have to abide by the instructions contained in CPWD Manual Volume-II (upto date) applicable to him.
19. The rates quoted by Firm/ Contractor shall be inclusive of all taxes such as GST etc. and nothing extra shall be paid on this account. The quoted rates shall be firmed.
20. Department in no way is involved in any dispute of whatever kind between the contractor and the staff engaged by him Payment against the final bill however would be subject to clearance from labour authorities.
21. The staff deployed at work should be able to behave properly with clients and department's officials. In case complaint about any misbehavior & or for improper working of any of staff of contractor is

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- received/noticed the concerned person shall be removed and replaced by contractor immediately failing which it shall be presumed that no such staff was on duty, beside taking any other suitable action by Engineer-in-charge.
22. The firm has to make minimum wages to its employees as per Delhi Administration Minimum Wages Act. The staff deployed by the contractor shall be purely contractor labour. Staff deployed shall not claim for any govt. job or compensation from the department.
 23. **Contractors shall have to submit the proof of material purchased by them i.e. Challan / Bill for the genuineness of material. However Bill / Challan shall not be prior to date of opening of tender.**
 24. **The Contractor shall give Five Years Warranty / Guarantee of the LED fittings of any manufacturing defects. The Contractor shall replaced / repair the fittings free of cost during the guarantee period. In this regard before supplying of material the contractor shall submit an undertaking of the manufacturer of the fittings stating that material supplied shall stand warrantee against manufacture defects for the period of Five Years. Manufacturer should submit 5 Years of Onsite Warranty Certificate on LED Lighting Products Signed by not below the Rank of Regional Manager, Director, Owner or Proprietor of the Manufacturing Firm.**
 25. Defective LED luminaries within warrantee period shall have to be repaired/replaced by agency or the concerned manufacturer of LED luminaries within 7 days after intimation. In case of no response, defective LED luminaries shall be replaced by this office from elsewhere, which shall be recovered at prevailing market rate from the pending dues of the contractor & strict action shall also be taken against concerned LED luminaries manufacturer.
 26. The Contractor shall give one year warranty / guarantee for other materials & installation of any manufacturing defects. The Contractor shall replace / repair the same free of cost during the guarantee period.
 27. The contractor is bound to sign the site order book as and when required by the Engineer in charge and carryout the instructions recorded therein.
 28. Before quoting their rates, the tenderer should visit the site so as to acquaint themselves of the site conditions.
 29. Nothing extra shall be paid on account of idle labour & inter connection etc.
 30. Bad workman ship is liable to be rejected.
 31. The contractor shall make his own arrangement for storing the materials and watch and ward at his own cost as also for the installation till the completion and handing over the Road.
 32. The contractor shall make his own arrangement at his own cost for all general and electrical tools and plants required for the work.
 33. The work shall ordinarily be carried out according to the drawings supplied as applicable with the schedule of work at the time of award of work subject to any change made by the Engineer-in-Charge as applicable in new construction works.
 34. **In addition to the Security Deposit an additional 10% of the LED Fitting amount shall be withheld & shall be released every year as follows. After Record of Completion.**

1) On Completion of 1 st Year	=	1%
2) On Completion of 2 nd Year	=	1%
3) On Completion of 3 rd Year	=	2%
4) On Completion of 4 th Year	=	2%
5) On Completion of 5 th Year	=	4%
 35. MCBDB & MCB shall be same make.
 36. The firm should submit original catalogues, LM-79 & LM-80 each type Luminaries for approval before procurement.
Defective LED Luminaries with warrantee period shall have to be repaired by agency or concerned manufacturer of LED Luminaries can be replaced within 7 days after intimation. In case of no response defective LED Luminaries can be replaced by this office from elsewhere, which shall be recovered from the pending dues of the contractor and strict action shall be taken against concerned LED Luminaries manufacturer.

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The LED Street Light Fittings should have:-

- a) IP 66 protection.
- b) High bright white power LED with LM 80 test report.
- c) Color rendering index (CRI)>70%
- d) LM -79 test report of fittings from ILAC/MRA/NVLAP/ KOLAS/EPA/NABL accredited manufacturer/Third party Lab.
- e) Power factor>0.95
- f) System Efficiency \geq 100 Lumen/Watt.
- g) Operating Voltage 140 Volt to 270 Volt.
- h) Total Harmonic distortion<15%
- i) LED driver current 350 MA to 1000MA
- j) LED driver efficiency >85%
- k) Housing:- pressure Aluminum dia. cast (Thermal and impact resistance \geq IK-05 (For outdoor fitting).
- l) Safety: As per IEC 60598/IS 10322
- m) Front Cover:- It should be equipped with distortion free clear heat resistance toughened UV stabilized glass/poly carbonate cover in the front.
- n) Driver Specification:- 140-270 V universal Electronic driver with internal surge protection of min 5KV Potted Driver.
- o) Operation temperature:- 10°C to 50°C.
- p) Optics:- PMMA lens for uniform distribution.
LED Make:-CREE/NICHIA/Philips Lumiled/Osram/Samsung.
- q) CCT-5700-6000⁰ K

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EMSD-III, South East, PWD
New Delhi

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