



**OFFICE OF THE CHIEF EXECUTIVE OFFICER**

Haldia Development Authority (ISO 9001:2015 Certified)

(A Statutory Authority under Government of West Bengal)

**City Centre, P.O. Debhog, Haldia-721657, Dist: Purba Medinipur**

***Ph.: (03224) 255926, Fax-255927, e-mail: [ceo.hda@gmail.com](mailto:ceo.hda@gmail.com) Web: [www.hda.gov.in](http://www.hda.gov.in),***

***Toll Free No.1800-345-3224***

**ELECTRICAL ENGINEERING DEPARTMENT**

**INVITE E-TENDER**

**E-TENDER NO.:07/HDA/EC-ELECT/2020-2021**

**FOR**

**REPAIRING AND REPLACEMENT OF STREET LIGHT POLES THROUGH SUPPLY,  
DELIVERY, ERECTION & INSTALLATION OF 9 MTR. HOT DIPPED GALVANIZED  
OCTAGONAL STREET LIGHT POLES, LAYING OF CABLES, AND OTHER ELECTRICAL  
WORKS AGAINST DAMAGED DUE TO SUPER CYCLONE 'AAMPHAN' AT NH-41 FROM  
RANICHAK TO BRAJALALCHAK OF HDA.**



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### NOTICE INVITING ON LINE TENDER (E-TENDER) NO: 07/HDA/EC-ELECT/2020-2021

For and on behalf of Haldia Development Authority, the Chief Executive Officer invites Online (e-Tender) in **Two Bid System** (Technical bid & Financial bid) from reliable, resourceful, bona-fide and experienced firms / companies / individual contractors having requisite financial capability and sufficient technical credential on execution of similar nature of work. The details are given below:

1.	<b>Name of work</b>	:	<b>Repairing and replacement of Street Light Poles through Supply, delivery, Erection &amp; installation of 9 Mtr. Hot Dipped galvanized Octagonal Street Light Poles, Laying of Cables, and Other Electrical Works against damaged due to super cyclone 'AAMPHAN' at NH-41 from Ranichak to Brajalalchak of HDA.</b>
2.	<b>Location of Work</b>	:	Supply, delivery, Erection & installation of 9 Mtr. Hot Dipped galvanized Octagonal Street Light Poles, Laying of Cables, and Other Electrical Works against damaged due to super cyclone 'AAMPHAN' at NH-41 from Ranichak to Brajalalchak of HDA: ❖ From Ranichak to Brajalalchak on NH-41 of HDA.
3.	<b>Minimum Eligibility Criteria</b>		The intending bidders should have the following Eligibility criteria:- <b>a) <u>Work Experience:</u></b> (i) The Agency should produce credentials of a similar nature of completed work [Similar nature of work means Supply, Installation, Testing and Commissioning of LED street lighting / High mast with LED Flood Lighting / Mini Mast with LED Flood Lighting] of minimum value of <b><u>Rs. 11,22,378.00</u></b> only during Five (05) years prior to the date of issue of the NIT in any Government / Semi Government / Undertakings/ Statutory bodies / PSU / Local Bodies. Scan copy of Credential of satisfactory Completion Certificate shall have to be up loaded with Techno- commercial bid in support of the claim.  <b>Or</b> (ii) The Agency should produce credentials of <b>two (02)</b> similar nature of completed works, [Similar nature of work means Supply, Installation, Testing and Commissioning of LED street lighting / High mast with LED Flood Lighting / Mini Mast with LED Flood Lighting] each of the minimum value of <b><u>Rs. 8,41,784.00</u></b> only during Five (05) years prior to the date of issue of the NIT in any Government / Semi Government / Undertakings/ Statutory bodies /

		<p>PSU / Local Bodies.</p> <p>Scan copy of Credential of satisfactory Completion Certificate shall have to be up loaded with Techno- commercial bid in support of the claim.</p> <p style="text-align: center;"><b>Or</b></p> <p>(iii) The Agency should produce credentials of one single running work of similar nature which has been completed to the extent of <b>80%</b> or more [Similar nature of work means Supply, Installation, Testing and Commissioning of LED street lighting / High mast with LED Flood Lighting / Mini Mast with LED Flood Lighting] and value of completed work is <b>Rs. 11,22,378.00</b> only in any Government / Semi Government / Undertakings/ Statutory bodies / PSU / Local Bodies.</p> <p>In case of running works, only those tenderers will be qualified who will submit the certificate of satisfactory running work from the concerned Executive Engineer, or equivalent competent authority will be eligible for the tender. In the required certificate it should be clearly stated that the work is in progress satisfactorily and also that no penal action has been initiated against the executed agency, i.e. the tenderer. Scan copy of required documents as mentioned above of any Government / Semi Government / Undertakings/ Statutory bodies / PSU / Local Body, shall have to be up loaded with Techno-commercial bid in support of the claim.</p> <p><b>b) Financial Criteria:</b> The average annual turnover of the bidder, during the last three (3) Financial Years from contracting business should be equal to or more than <b>Rs.16,83,567.00</b>.</p>
<p><b>4. Essential documents &amp; other Eligibility Criteria.</b></p>		<p>The bidder should upload scanned copy of the following documents along with bids:</p> <ul style="list-style-type: none"> <li>• Copies of original documents defining the constitution or legal status, Name and address, registration detail of Firm / Company / Agency, place of registration, and principal place of business, name of proprietor and written power of attorney of the signatory of the Bid to commit the Bidder.</li> <li>• Completion Certificate and filled in <b>Form – I</b> along with of similar type of project/job under any Government details / Semi Government / Undertakings / Autonomous / Statutory bodies/ Local bodies.</li> <li>• Copy of the Audited Balance Sheet of last three Financial Years (authenticated by a Chartered Accountant) and filled in <b>Form – II</b> for establishing average Annual Turnover in contractual business.</li> <li>• PAN Card Xerox Copy.</li> <li>• Copy of Latest Income Tax return.</li> <li>• Copy of Valid Trade Licence.</li> <li>• Copy of Valid Profession Tax Clearance Certificate (PTCC) or Up-to-date Profession Tax payment challan, if applicable. If this is not applicable, the bidder must submit [upload] a declaration in this regard.</li> </ul>

			<ul style="list-style-type: none"> <li>• Copy of the Goods and Services Tax (GST) Registration Certificate, issued by Government of India.</li> <li>• Valid Electrical Supervisor License issued by competent authority for the relevant part.</li> <li>• Copy of Valid Electrical Contractor's License issued by competent authority of State / Central Govt. in line with The Indian Electricity Rules, 1956.</li> <li>• In case the bidder does not have any office within Haldia Planning Area, he shall submit along with the technical bid an undertaking on <b>non-judicial stamp paper</b> to keep a site office within planning area or an agreement with any Electrical Contractor of the Haldia Planning Area (having valid Electrical Contractor License and valid Electrical Supervisor License).</li> <li>• Undertaking on deployment of machineries, Laboratory equipments, Technical Personnel for execution of work and correctness of the documents submitted along with this tender.</li> <li>• List of projects undertaken during last five years.</li> <li>• Information regarding any litigation or arbitration during the last five years in which the Bidder is involved, the parties concerned the disputed amount, and the matter.</li> <li>• The <b>Annexure-II</b> filled and signed (with agency's seal) on <b>non-judicial stamp paper</b>.</li> </ul>
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5. The bidders are required to submit bid as per the instructions of the instant bidding documents (including Notice Inviting e-Tender). Bid will be considered rejected if any of the essential documents is not submitted by the bidder. Essential documents means papers related to “**Minimum Eligibility Criteria**” and “**Essential documents & other Eligibility Criteria**”, including Earnest Money Deposit.

**6. AVAILABILITY OF THE BIDDING DOCUMENTS:**

The bidding documents (in full) would be available in the following websites: -

(i) HDA 's official website: [www.hda.gov.in](http://www.hda.gov.in) &

(ii) [www.wbtenders.gov.in](http://www.wbtenders.gov.in)

Corrigenda, Addenda, Queries & Clarifications, if any, would also be available in the aforesaid website.

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Sd/-  
Chief Executive Officer  
**Haldia Development Authority**



**SCHEDULE OF TENDER [SOT]**

**NOTICE INVITING ON LINE TENDER (E-TENDER) NO: 07/HDA/EC-ELECT/2020-2021**

1	NAME OF WORK	: Repairing and replacement of Street Light Poles through Supply, delivery, Erection & installation of 9 Mtr. Hot Dipped galvanized Octagonal Street Light Poles, Laying of Cables, and Other Electrical Works against damaged due to super cyclone 'AAMPHAN' at NH-41 from Ranichak to Brajalalchak of HDA.
2	Tender Inviting Authority	: Chief Executive Officer Haldia Development Authority City Centre, PO-Debhog, Haldia, 721657 Phone No. 03224 255926 Email ID: <a href="mailto:ceo.hda@gmail.com">ceo.hda@gmail.com</a>
3	Mode of Tender	: E - Procurement system. Through website <a href="http://www.hda.gov.in">www.hda.gov.in</a> & <a href="http://www.wbtenders.gov.in">www.wbtenders.gov.in</a> No physical tender is acceptable.
4	Estimated Amount (including all taxes and applicable charges)	: <b>Rs. 28,05,945.00</b>
5	Earnest Money Deposit (EMD)	: The intending bidders must deposit <b>Rs. 56,119.00</b> only as Earnest Money to Haldia Development Authority along with their Techno- commercial bid. In case the said Earnest Money is not deposited by the bidder, the respective bid will be summarily rejected and bidder will be treated as non-responsive. Earnest money will be deposited as per instructions given at I.T.B.
6	Date of Publish of NIT	: 09/07/2020
7	Document download start date	: 10/07/2020 at 4.30 p.m.
8	Document download end date & time	: 24/07/2020 up to 02:30 p.m.
9	Pre-bid meeting in the Board Room of the office of CEO, HDA, Haldia	: 14/07/2020 at 11.30 a.m.
10	Bid submission start date.	: 16/07/2020 at 5.00 p.m.

11	<b>Last date of Online submission of Technical Bid and Financial Bid.</b>	:	24/07/2020 up to 03:30 p.m.
12	<b>Opening of Technical Bid at the Office of the CEO, HDA Haldia</b>	:	27/07/2020 up to 12:30 p.m.
13	<b>Opening of Financial Bid at the Office of the CEO, HDA Haldia</b>	:	The date & time shall be informed later.
14	<b>Completion Period</b>	:	<b>70 days</b> from the date of issue of the work Order.
15	<b>Validity of bid</b>	:	<b><u>180 days</u></b> from the date of opening of the Techno-Commercial Bid.
16	<b>Operation, Maintenance and Defect Liability Period.</b>	:	<b>One Year</b> from the date of commissioning of the work.

## **INFORMATION TO THE BIDDERS (I.T.B.)**

### **1. Site inspection before submission of tender:**

Before submitting the tender, the intending tenderer should make them selves acquainted thoroughly with the local conditions prevailing at site by actual inspection and taking into consideration all factors and difficulties likely to be involved in the execution of work in all respect and no claim whatsoever will be entertained on these account afterwards.

### **2. Pre - Bid Meeting:**

The prospective bidders are requested to submit their queries / observations / suggestions / requests for clarification if any in connection with the instant Bidding Documents to Executive Engineer (Electrical), HDA on or before the time specified for pre - bid meeting as indicated in the Schedule Of Tender [SOT], to enable Haldia Development Authority to prepare response / clarifications and make pre-bid meeting meaningful. The pre-bid meeting will be conducted off-line on behalf of HDA. The purpose of this pre-bid meeting will be to clarify issues and to answer questions on any matter (in connection with the instant Bidding Documents only) that may be raised at that stage. Authorised representative(s) of the prospective bidders will be allowed to attend the Pre-bid meeting, which will be held on the date, time & at the venue stipulated in the Schedule of Tender (SOT).

Any modification to the Bidding Documents, which may become necessary as a result of the Pre-bid meetings, shall be made through the issue of an addendum / corrigendum.

### **3. INSTRUCTIONS FOR ONLINE BID SUBMISSION:**

- (a) This is an e-procurement event of **HALDIA DEVELOPMEN AUTHORITY**. The intending bidders are requested to go through the contents of this bidding document, including all terms & conditions and Technical Specifications before submitting online tender. Bidders who do not comply with the requirements / conditions, with documentary proof (wherever required), will not qualify in the tender for opening of Price Bid.
- (b) The bidders interested to submit the bid online, shall get registered and obtain a digital signature as per the procedure prescribed below:
- (c) Online Tenders can be submitted by logging in **www.wbtenders.gov.in** only.
- (d) The e-Tender platform shall remain open from the pre-announced date & time and for as much duration as mentioned in the Schedule of Tender (SOT).
- (e) E-tender cannot be accessed after the closing date and time of e-Tender, mentioned in the Schedule of Tender (SOT) of the instant bidding documents.
- (f) Both Techno- commercial bid & Price bid are to be submitted through on line as per the Schedule of Tender (SOT). Price indicated anywhere else, in any other form or manner, will not be considered for evaluation of Price Bid.
- (g) All electronic bids submitted during the e-Tender process shall be legally binding on the bidders. Any bid will be considered as the valid bid offered by that bidder and acceptance of the same by HDA will form a binding contract between HDA and the bidder, for execution of the work. Such successful bidder shall be called hereafter the 'CONTRACTOR/ Agency'.
- (h) Agencies/Bidders who are interested in participating HDA's e-tenders are requested to contact to the toll free **Help-line No. 1800 3070 2232 of National Informatics Centre** for registration, computer setting and other clarification on e-tendering. **Shri Atanu Moitra, System Analyst, HDA (Mobile No. 8170045634)** is stationed at the office of the Haldia

Development Authority during working hours. The agencies/bidders can visit the office and get assistance from him.

4. **Procedure for deposition of Earnest money:**

The Earnest Money shall be deposited by the bidder on-line through his net banking enabled bank account, maintained at any bank or through any bank by pre-generating NEFT/ RTGS challan from the e-tender portal. Intending Bidder will get the beneficiary details from e-tender portal with the help of Digital Signature Certificate and may transfer the EMD from their respective Bank to the beneficiary bank account no. The name of Beneficiary bank (at present ICICI Bank), Account no. & IFSC Code are given in the e-portal. The details of deposition of EMD can be obtained from the following link.

“[wbtenders.gov.in](http://wbtenders.gov.in) ---Home Page---Bidders Manual Kit---Help for on-line Receipt and refund of EMD”. Intending bidder who wants to transfer EMD through NEFT/RTGS must read the instruction of the Challan generated from E-Procurement site.

Bidders are also advised to submit EMD of their bid, at least 3 working days before the bid submission closing date as it requires time for processing of payment of EMD and bid can be successfully submitted only after receipt of EMD.

**Note:-Earnest money through offline instruments like Bank Draft, Pay Order etc. will not be accepted for e-tender procurement of this office.**

5. **Release of Earnest Money deposit:**

The earnest money of the unsuccessful bidder will be released without any interest after finalization of the instant tender. The earnest money of the successful bidder will be released after completion of work and payment of final bill.

6. Relevant documents as mentioned in the clause no.3 [Minimum Eligibility Criteria] & Clause no 4 [Essential documents & other Eligibility Criteria] of the notice Inviting on line must be uploaded online for participating in this tender. If the documents are not submitted online within the stipulated date & time, then bid of the applicant shall summarily be cancelled and the Price bid of the offer shall not be opened.
7. The Credential Certificate should be pertaining to the work specified in the NIT. The Credential certificate should not be misleading the authority. If the Credential certificate has mention on multiple nature of works executed by the agency in a single tender including the work specified in this NIT, then the value of the work as specified in this NIT will only be taken into account for evaluating the eligibility of the bidder. The decision of the authority in this respect is final and binding.
8. **Authority in signing the bid / offer:** In case the bid is submitted by ,
  - (a) A Proprietorship Firm, the same should be signed either by the Proprietor or other person(s), holding a valid power of attorney / authorisation from the proprietor, in connection with this bidding process. The signature of such power of attorney holder(s) / authorised person(s) should be attested by the proprietor. Such power of attorney / authorisation should be uploaded along with Techno-commercial Bid [Part I].
  - (b) In case the bid is submitted by a Partnership Firm, the same should be signed either by the partner(s), holding valid power of attorney from the partners or other person(s), holding valid authorisation from such power of attorney holder(s), subject to approval of the partner(s) in the matter of giving such authorization, in connection with this bid. The signature of such power of attorney holder(s) / authorised person(s) should be attested by the partners or power of attorney



holder, as the case may be. Such power of attorney / authorisation should be uploaded along with Techno-commercial Bid [Part I].

- (c) In case the bid is submitted by a Limited Company, the same should be signed by the person(s) holding valid power of attorney / authorisation, executed in his / their favour ( in connection with this bid) and the signature of such power of attorney holder(s) / authorised person(s) should also be attested, in accordance with the constitution of the Limited Company. Such power of attorney / authorisation should be uploaded along with Techno-commercial Bid [Part I].

9. For verification of the submitted documents , if any tenderer fails to produce the original hard copies of the documents within the specified time frame or if any deviation is detected in the hard copies from the uploaded soft copies or if there is any suppression of fact during any time of the tendering process or even after the issuance of work order, the tenderer will be suspended from participating in the tenders on e-Tender platform up to 2 (two) years and the instant work order may be cancelled.

10. **Submission of Price Bid:**

(a) The Price Bid shall be submitted in the prescribed Bid Form i.e. as per BOQ. The Bill of Quantities (**BOQ**) for the work is given in the Price Bid and the bidders shall properly assess each item. The quoted rate against each item in this table shall be for the scope of mentioned in this tender. The lowest cumulative amount of all quantity mentioned in the BOQ including all taxes, shall be taken for evaluation of the price bid. The quoted amount shall cover the entire scope of work given in the Price bid along with one year operation and comprehensive Maintenance liability period.

(b) The tenderer shall include income tax, cess etc., octroi if any, toll, ferry charges, local charges, royalties, turn over tax, operation and comprehensive maintenance charges and all other charges as applicable while quoting the rate including G.S.T as applicable.

(c) All other charges like freight, loading, unloading etc as would be required for completion of the work shall also be included in the rate quoted. No extra claim what so ever in this account shall be entertained.

(d) It may again be reiterated that Income Tax, Royalty, Construction Workers' Welfare Cess and similar other statutory levy / cess etc. will have to be borne by the contractor while executing the work. Considering all the factors, the price is to be quoted accordingly.

(e) No escalation of cost is permissible at any time after submission of the bid.

(f) The total amount is to be quoted both in words and figures clearly in the specified space of the Price bid. Incomplete Price bid shall be rejected.

(g) Conditional and incomplete Price bid shall be summarily rejected.

11. No deviation/variation of the techno-commercial terms and conditions of the bidding documents will be considered by HDA. Submission of bid in the e- Tender platform by any bidder confirms their acceptance of the techno-commercial terms and conditions of the bidding documents.

12. Haldia Development Authority reserves the right to accept or reject any bid (in full or part) and to annul the bidding process and to reject all bids, at any time prior to contract award, without assigning any reason thereof and without thereby incurring any liability. The decision of authority with respect to this tender is final and binding.

13. **Evaluation of Price bid / Acceptance of Tender:**

Lowest cumulative amount of all quantity mentioned in the BOQ including all taxes shall be taken for evaluation of the price bid of the Techno- commercial qualified bidders and contract may be awarded to the lowest bidder. However, HDA does not bind himself to do so and reserves the

right to reject any or all the tenders, without assigning any reason and also reserves the right to split the work amongst more than one Tenderer.

14. **Withdrawal of tender:** A tender once submitted and opened the Techno - Commercial bid, shall not be withdrawn within a period of 180 days from the date of the opening of the Techno-commercial bid. If a tenderer withdraw his tender within this period, the EMD shall be forfeited.
15. **Opening of Part-I (i.e. Techno-commercial Bid) and Part-II (i.e. Price Bid):** Part I (Techno-commercial Bid) will be opened electronically on specified date and time, as given in the Schedule of Tender (SOT). Bidder(s) can witness electronic opening of bid(s). Part II (Price Bid) will be opened electronically of only those bidder(s) who qualify(ies) in the “ Techno-commercial Bid” [Part I]. Such bidder(s) will be intimated date of opening of Part II (Price Bid), through e-mail to his valid e-mail ID(s) confirmed by them.

**16. Additional Performance Security Deposit:**

As per Memorandum No. 4608-F(Y) Dt. 18.07.2018 of Additional Chief Secretary to the Govt. of West Bengal, Finance Department, Audit Branch, Additional Performance Security @ 10% of the tendered amount should be deposited by the successful bidder in the form of Bank Guarantee from any Scheduled Bank within seven working days from the date of issuance of LOA, if the accepted bid value is 80% or less of the Estimated Amount Put To Tender. If the bidder fails to submit the Additional Performance Security within seven working days from the date of issuance of Letter of Acceptance, his Earnest Money will be forfeited and other necessary actions as per NIT like blacklisting of the contractor, etc, may be taken. The Bank Guarantee shall have to be valid up to end of the Contract Period and shall be renewed accordingly, if required.

**17. Refund of Additional Performance Security Deposit:**

As per Memorandum No. 4608-F(Y) Dt. 18.07.2018 of Additional Chief Secretary to the Govt. of West Bengal, Finance Department, Audit Branch, the Bank Guarantee shall be returned immediately on successful completion of the Contract. If the bidder fails to complete the work successfully, the Additional Performance Security shall be forfeited at any time during the pendency of the contract period after serving proper notice to the contractor. Necessary provisions regarding deduction of security deposit from the progressive bills of the contractor as per relevant clauses of the contract shall in no way be altered/affected by provision of this Additional Performance Security.

## **Terms and Conditions**

1. The works will be executed to comply with the General Specifications for Electrical works and conforming to the Indian Electricity Act & rules, BIS & direction of Engineer-in-charge and other labour laws in this regard.

### **2. Completion Period:**

The Successful bidder shall complete the execution of work within **70 days** from the date of handing over of the site. Penalty as prescribed in this tender shall be imposed for every week delay in completion of the work.

### **3. Extension of completion period:**

For any of extra or additional work of any kind or any delayed due to the HDA's account due to giving site clearance or any unforeseen reason at site for which or other special circumstances, of any kind, beyond the control of the Agency/ Contractor or any other reason not attributable to the Agency/ Contractor [including hindrance at site of work], cause delay in completing the work, the Contractor shall apply to the Authority in writing, for suitable extension of completion period, within **7 (seven) days** from the date of occurrence of the reason and the Authority shall thereupon consider the stated reasons in the manner deemed necessary and shall either reject the application or determine and allow, in writing, the extension period as he would deem proper for completion of the work, with or without the imposition of "**Penalty**".

### **4. Payment Terms:**

- (a) Payment of RA as well as final bill will depend upon the availability of fund and no financial claim in case of any delay in payment will be entertained.
- (b) Payment on supply without successful erection and commissioning will not be entertained. Materials which will be supplied should be supported by valid challans, test certificates and other relevant documents.
- (c) The Contractor/ Agency will notify the authority regarding the work being completed. The quantity and quality of executed work will be taken into account for the preparation of bill. The engineers of HDA shall verify the work executed by the bidder. Only the items which are successfully installed and commissioned will be taken in the preparation of bill.
- (d) All the applicable routine test, type test and other test reports shall be submitted along with the bill prayer.
- (e) In case the successful bidder does not have its office within planning area, the bidder shall have compulsory one site office within Haldia Planning Area or agreement with any Electrical Contractor of Planning Area for erection & maintenance. Without this, payment shall not be processed.
- (f) No advance payment will be made to the contractor.
- (g) Progressive payment will be paid in running account bill subject to good performance. Payment may be withheld / not made on average or poor quality of job. If the agency gets average or poor grading of work quality, he may be debarred for one year from the tender of HDA.
- (h) An amount equal to 1% of the contract amount will be deducted from the RA bill / final bill on account of "the building and other construction work (regulation of employment and condition of service) Act, 1996" and "The building and other construction work welfare cess Act, 1996" apart from other statutory deductions from bills/ payment due.

**5. Taxes & Duties:**

Changes in statutory taxes & duties by Central or state Government during the schedule completion / contract period, are applicable to this contract. The Agency/ Contractor should claim such changes producing supporting documents with his claim in this regard.

**6. Security Deposit/ Deduction:**

**Ten Percent (10%)** of the RA bill value excluding the G.S.T will be deducted from bill as Security Deposit. The EMD shall be adjusted with the Security Deduction. The release of S.D. will be subjected to quality and proper maintenance of the work and its components satisfactorily during the security period. Failure to execute proper operation and maintenance of the work will **lead to forfeiture of the security deposit.**

An application along with a prescribed format of this office to be submitted for release of S.D. for which the contractor should apply to the authority at least 2 (two) months prior to the last date of maintenance period with an undertaking that the work is maintained properly as per the terms of contract. The S.D. will be released after the completion of maintenance period (i.e. One Year).

**7. INSPECTION & TESTING:**

Joint Inspection [Physical inspection] of all the materials will be carried out at site store of the successful bidder by the representative of HDA for which the contractor / Agency should intimate Engineer In- Charge at least seven days before the erection of the materials at site. Following documents must be accompanied with the offer of inspection letter.

(a) Delivery Challan of the materials.

(b) Routine Test / Type Test certificate in case of Power cable.

**8. Labour Welfare:**

The Agencies/contractor shall abide by all the labour welfare laws Safety Rules and their modifications from time to time, if any, within the contract period. Minimum labour wages act, labour facilities, E.S.I, P.F, Bonus facilities etc. should be provided as per latest Govt. order/Circulars. In no case, HDA shall be held responsible for any eventualities in this regard accident including payment of wages to personnel deployed by the contractor.

**9. COMMENCEMENT, EXECUTION & COMPLETION OF WORK :**

(a) The successful Tenderer shall have to start the work at site within 7 days after receipt of the work order failing which work order shall be cancelled with forfeiture of earnest money deposited with HDA without assigning any reason.

(b) After receipt of the Work Order, the successful Agency / Tenderer shall submit to the authority, the work program for execution of the tendered job, Bar chart of execution of the work, establish site office and deploy Site Engineers. He shall also maintain Work Order Copy, Drawings, schedule of work and tools & tackles at site to assist HDA Engineers to carry out necessary checking and supervision of the work.

(c) For any reason, the Contractor is unable to adhere to his earlier programmed; he shall submit his revised programme for completion of work within the stipulated time, whenever asked to do so.

(d) The Contractor / Agency shall have to deploy sufficient competent technical Engineer /supervisory and personals against the work. The agency shall have to inform HDA the name of personal engaged against the work. In case any deployed personals are found inefficient or incompetent, the agency shall have to replace the personal within seven days of HDA's direction.

- (e) The personnel/workers engaged for the work shall be the employees of the agency/contractor and will take their remuneration / wages, statutory benefits from the agency/ contractor. They will have no claim and liabilities of whatsoever nature including monetary claims or other claim or benefits from Haldia Development Authority. Any liability arising under Municipality, State or Central Govt. laws and regulations, will also be the sole responsibility of the concerned Agency/ Contractor and the Authority shall not be responsible for such liabilities.
- (f) **If substandard works during the execution of work is detected, then the authority shall have right to direct the agency to re-do the work once again.**
- (g) **The awarded agency shall co ordinate with other working agency and WBSEDCL officials and WBSEDCL Sub-Stations for smooth operation and maintenance of LED Street Lights at all location.**

**10. Assignment and sub-contracting:**

The Contractor shall not, directly or indirectly, transfer, assign, sublet or sub-contract the whole of the work. Unless otherwise stated in the contract, the Contractor shall not, directly or indirectly, transfer, assign, sublet or sub-contract any part of the work without prior consent of the Haldia Development Authority. Any such consent shall not relieve the Contractor from any of their liabilities or obligations under the contract. If the authority comes to know that the agency has sublet the work, then action may be taken to terminate the contract and the Security deposit and Earnest money may be forfeited.

**13. Safety Provision:**

The Agency/ Contractor shall have to ensure safety of all their working personnel to the fullest compliance of the provisions of **general safety rules/regulations**. The Agency / Contractor shall have to provide (at their own expenses) all required **Personal Protection Equipment (PPE)** [such as **Helmets, Nose Masks, Hand Gloves**, etc.] & **Safety Gears** for all personnel and labourers engaged during the work .The Contractor shall be solely responsible for consequences arising out of non-compliance or violation of safety rules/ regulations.

**14. Workmen's Compensation:**

The Contractor shall have to provide full medical treatment to their staff & labourers, in case of “**Accident on Duty**”, which will inter alia include their obligations under the **Workmen's Compensation Act, 1923**, including all amendments thereof. The HDA shall in no manner be liable to the Agency / Contractor or any person engaged /employed by them [including that of Sub-contractor] or any other person, for injuries or death caused as a result of accidents occurred, either within or outside the site of work, under the contract. The Agency / Contractor shall be responsible for such contingencies and will make good all claims for compensation, claim by their personnel/workmen or the families of the sufferer(s), as the case may be, or as per the decision of the appropriate authority/tribunal or other involved persons.

**15. The Emergency Services:**

The awarded agency/ contractor will have to attend immediately & spontaneously rectify all complains for any break down, malfunctioning of the Dedicated Illumination Projects within 12 hours (maxim.) of occurrence. The agency should not wait for any call over telephone/mobile/e-mail from HDA & also will have to restore the system without any delay. For any non satisfactory service the work order of the agency shall be cancelled and EMD and SD will be forfeited. Sufficient spares are to be kept reserve by the agency so that the agency is capable to maintain the installation promptly.

**16. L.D. / Compensation for delay and termination:**

The time allowed for carrying the work as per tender shall be strictly observed by the Agency/ contractor and shall be reckoned from the date of commencement of the work as per work order. The time being the essence of contract on the part of the Agency/ contractor, the Agency/ contractor shall commence execution of the work from the date of issue of the work order for commencement of the work and continue such work to ensure good and proportionate progress in proportionate time maintaining proper quality of the work.

In the event of the Agency/contractor failing to comply with the proportionate progress in proportionate time as well as instruction/order of the competent authority of HDA, he shall be liable to pay as compensation a amount equal to @ ½% of the Contract Price [excluding GST], for every week or part thereof, beyond the scheduled date of completion, will be deducted from the Agency /Contractor's bill, Provided always the amount of such compensation shall not exceed **10 %** of the Agency's /Contractors bill value [excluding GST] or as will be decided by the HDA (whose decision in writing shall be final in this regard) on the final bill amount.

The competent authority of HDA shall have power to rescind the contract (of which rescission notice in writing to the contractor shall be conclusive evidence) in which case the Earnest Money / security deposit of the Agency's / contractor's shall stand forfeited and be absolutely at the disposal of Govt. /HDA. After decision of the contract, the contractor shall not be entitled to recover or be paid any sum for any work therefore actually perform under the contract unless and until the competent authority will have certified in writing the performance of such work and value payable in respect thereof and he shall only be entitled to be paid the value so certified.

17. All work under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer-in-charge and all his subordinates and the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer-in-charge or his subordinate to visit the works shall have been given to the contractor, either himself be present to receive orders and instructions, or have a responsible agent duly accredited in writing present for that purpose. Orders given to the contractor's agent shall be considered to have the same force as if he had been given to the contractor himself.

**18. Site Inspection and Complain Monitoring Register:**

**The supervisor deployed by the agency shall inspect the entire lighting project weekly and report every observation details in the register.** All emergency maintenance/breakdown calls over telephone/mail/mobile shall be recorded in the complaint register with complain attendance and disposal details. The agency must submit the registers along the prayer for security deposit release. Payment shall not be made if the registers are not properly maintained and submitted to the authority.

**19. Equipment and Machineries:**

The agency should possess the requisite and relevant equipment and machineries for the work. Any tit bit incidental work for performing job to be done free of cost. If equipment and machineries are not deployed as per the undertaking given by the contractor, the Engineer in charge is authorized to stop the work and direct the contract to deploy them immediately. If the contractor fails to carry out the direction, then the authority may take appropriate action including forfeiture of EMD and cancellation of the work order.

**20. Transportation of materials:**

All materials, spare parts, tools, tackles, service equipment, including consumables, required under this contract, will have to be packed, securely placed and protected by the Contractor during

transportation. The Contractor will be held responsible for the inefficient packing, storing protection of the materials and transportation of materials. HDA authority will not be responsible for transportation of goods for the instant tender job.

21. Registration of all workers engaged in building and other construction workers to be done under the Building and other Construction Workers' (RE & CS) Act, 1996 and the State Rules, 2004 framed there under to provide for their safety, health and welfare measures.
22. Credibility of the agency engaged for more than two works in HDA will be evaluated by the tender committee and whether to allow the agency to participate in further tenders of the authority will be decided by the committee. Decision of the authority is final and binding on the concerned agency.
23. The Agency/contractor shall collect photography/video photography of the site firstly before the start of the work, secondly mid-way and materials stack in the execution of different stages of work and lastly after the completion of the work. The photographs shall have date digital date printed. **A minimum of 10 such photographs should be submitted at the time of submission claim for payment.** No separate payment will be made to the contractor for this purpose. Payment shall not be made without submitting the photographs/video photographs.
24. HDA reserves the right not to allow the agency to participate in future tenders under the following circumstances.
  - (i) Delay in completion of job.
  - (ii) Performance in terms of either quality of materials and workmanship.

**25. Termination of Contract/ Work Order:**

The authority may terminate the contract/work order due to the following reasons.

- i) Poor Progress of work.
- ii) Poor Quality of work.
- iii) Adoption of any unfair means during execution of work.
- iv) Violation/Non-compliance of any instructions of the authority.

For termination of the contract/work, the authority will issue a 7 days' notice to the agency/contract to make up the discrepancy/shortfall of the work as instructed by the authority, failing which the contract/work order will be terminated with forfeiture of E.M.D., S.D., Performance Security etc.

**26. Discretion of the authority inviting tender:**

The tender inviting authority reserves the right to accept or to reject any or all applications/tenders without assigning any reason whatsoever. On matters of dispute authority decision shall be final and binding. The quantity of work indicated above is provisional and should not be taken as firm. The extent to which the work would be actually executed will depend on the final decision of the Chief Executive Officer, HDA. He however reserves the right to reduce the quantity even substantially without assigning any reason thereof and take up the same otherwise for which no compensation is payable under any circumstances.

## SCOPE OF WORK AND TECHNICAL SPECIFICATION

For Repairing and replacement of Street Light Poles through Supply, delivery, Erection & installation of 9 Mtr. Hot Dipped galvanized Octagonal Street Light Poles, Laying of Cables, and Other Electrical Works against damaged due to super cyclone 'AAMPHAN' at NH-41 from Ranichak to Brajalalchak of HDA as follows:

- ❖ Supply, delivery & installation of 9 Mtr. Hot Dipped galvanized Octagonal Pole with G.I 4nos. J- bolt, M-24, 750 mm long, 12nos. of Nuts with 16nos. of washers for foundation and double Straight arm of 1.5 M in Length.

### 9 Mtrs. GI Octagonal Pole as per Dimension:

- ❖ Top Dia. - 70 mm, Bottom Dia. - 155 mm, Section- 1 (Section Length - 9000 mm.) Thick- 3 mm. Base Plate - 260 X 260 X 16 mm.
- ❖ Foundation accessories: J Type Bolts M24 x 750 (04 Nos.) with Template.
- ❖ Bracket: Standard Double Arm Bracket 1500 mm. long on both sides with 48.3 OD GI Pipe.
- ❖ Preparation of RCC foundation of 600 X 600 mm, 2000 mm height (1300 mm below the Ground Level and 700 mm above the Ground Level) with required rod, cement, chips and sand etc. at the ratio 1:1:5:3 with ground bolt 4 nos. for fixing the 9 Mtr Height G.I Octagonal pole (excluding supply and delivery of 9 M Pole and Nut Bolts).
- ❖ During excavation of soil for the purpose of foundation of poles and the purpose of trench for cable laying, the existing road and other utilities should not be damaged. If there is any damage happened that is to make good at free of cost by the successful bidder.
- ❖ Laying of one No. cable up to 35 Sq mm in underground trench 460 mm wide x 760 mm average depth, with brick protection on the top of the cable with 8 (eight) Nos. bricks per meter, including filling the space between the brick & cable and also the trench with shifted soil, leveling up and restoring surface duly rammed.
- ❖ Supply and delivery of 1.1 KV grade 3.5 C X 35 Sq mm XLPE insulated and PVC sheathed aluminum armored Cable. As per IS 7098 Part -1 with latest amendment if any. The cable should have ISI mark.
- ❖ Supply and fixing of cable Lugs, Glands for power cable termination.
- ❖ Earthing with GI Strips at the suitable location of the mast.
- ❖ Supply & fixing 65 mm dia. medium gauge GI Pipe (ISI mark) as per the description stated at BOQ.
- ❖ Laying only Cable upto 50 sq.mm through existing RCC/Hume/ GI pipe /open masonry trench for single, 2, 3, 3½ & 4 core.
- ❖ Earthing work as per the description stated at BOQ.
- ❖ To keep contact with the Officials of WBSEDCL for connection and maintenance.
- ❖ The cable shall be joint if require during one year defect liability period ,with heat shrinkable type cable jointing kits with suitable masonry work at accident/damage locations immediately to restore all lights for glowing.
- ❖ All works as per the BOQ (**Annexure-I**) to be done by the successful bidder. Any incidental works against accidental damage or any other reason to be done by the successful bidder without claim from the authority.
- ❖ **The Agency must procure the materials from the Manufacturer / OEM or from their authorized Sales channel so that the standard warranty / support of the Manufacturer / OEM becomes applicable to the products to be delivered and installed by them.**
- ❖ **Documents that authenticates such procurement form the Manufacturer / OEM or from their authorized sales channel and standard warranty / support should be sent from the e-mail of the**



**Manufacturer / OEM /authorized sales channel to the e-mail of Engineer-in-Charge and hard copy of it to be submitted during execution of work/submission of bill.**

- ❖ If any refurbished material is supplied and installed, panel action will be taken as per existing rules.
- ❖ Operation, comprehensive maintenance and defect liability period is one year from the date of Completion of the work.
- ❖ The Agency / Contractor shall submit the details of Specification, make and model (Catalogue) of the Materials / Equipment, Test certificate, etc to Site-In-Charge before Procurement.

Sd/-  
Chief Executive Officer  
**Haldia Development Authority**

**Memo No.: 549(12)/HDA/IX-N-95(Vol.-III)**

**Dated: 08/07/2020**

Copy forwarded for information to:

1. The Chairman, Haldia Development Authority.
2. The District Magistrate, Purba Medinipur.
3. The Additional District Magistrate & Additional Executive Officer, Purba Medinipur Zilla Parishad, Haldia, Purba Medinipur.
4. The Sub-Divisional Officer, Haldia, Purba Medinipur.
5. The Chairman, Haldia Municipality.
6. The Savapati, Haldia Panchayet Samity
7. The Division Manager, Haldia O&M Division, Akash Ganga Complex, Manjushree, Haldia.
8. The District Informatics Officer, NIC, Purba Medinipur, Tamluk with a request to publish it in the official website of Purba Medinipur District.
9. Ms. Tapasi Samanta, Computer Operator, H.D.A. with a request to arrange to publish it in the website of HDA and make arrangement to send the same to DIO, NIC by e-mail.
10. Sri Samar Samanta, Stenographer, HDA with a request to make necessary arrangements for publishing advertisement in newspapers.
11. Reception, HDA.
12. Notice Board, HDA.

Sd/-  
Chief Executive Officer  
**Haldia Development Authority**

**This page to be uploaded at bidder's letter head.**

**FORM – I**

**COMPLETION CERTIFICATE**

**(100 % PHYSICAL COMPLETION)**

1	Name of the work and W.O. / LOI no. & date.	:	
2	Name of the client	:	
3	Amount put to tender	:	
4	Contractual amount against the tender	:	
5	Date of commencement of work	:	
6	Date of completion as per work order	:	
7	Actual date of completion/ Status of running work.	:	
8	Final gross value of the bill or RA bills for – Supply, Installation, Testing and Commissioning of LED street lighting / High mast with LED Flood Lighting / Mini Mast with LED Flood Lighting.	:	

I hereby declare that all the statements made above are true to my knowledge. I also understand that any discrepancy found in the above statement will render me liable for cancellation of my tender.

Signature of authorized person of the bidder  
(With office seal)

**Note:**

1. While calculating the amount, i.e., money value of the major item stated above, amount of all sub-items like leads, lifts, disposal, transportation etc. included in the major item should be arithmetically added.
2. Credential of Completion Certificate (s) should be supported by BOQ(s).

**This page to be uploaded at bidder's letter head.**

**FORM – II**

**STATEMENT ON ANNUAL TURNOVER FROM CONTRACTUAL BUSINESS**

This is to certify that the following statement is the summary of the audited Balance sheet arrived from contractual business in favour of ..... for the three consecutive years.

Sl. No.	Financial		Remarks
	Year	Turnover (rounded of)	
1	2016-2017		
2	2017-2018		
3	2018-2019		
<b>Total</b>			
<b>Average Turnover</b>			

Note:

- i) Average turnover is to be expressed in lakh of rupees, rounded up to two digits after decimal.
- ii) Average turnover for 3 years is to be obtained by dividing the total turnover by 3 (three).

Signature of authorized person of the bidder  
(With office seal)

**FORM –III**

**GENERAL INFORMATION OF THE BIDDER**

[To be filled up and uploaded, duly signed & stamped at bidders letter head]

1.	Bidder's Legal Name (IN CAPITAL LETTERS) i.e. Name of Agency/ Contractor	:	
2.	Name of Registration Office	:	
3.	Legal Address of the Agency/ Contractor	:	
4.	Information regarding bidder's authorized representative(s) / contact person(s) , Name	:	
5.	Address for communication of authorized person	:	
6.	Phone no/ Email address of authorized person	:	Mobile no. Land Line no : E- mail Address:
7.	Whether the bidder is a Proprietorship Firm or Partnership Firm or Limited Company.	:	
8.	Permanent Account Number (PAN)	:	
9.	GST Registration Number (GSTIN)	:	
10.	Employees' Provident Fund (EPF) Code No. (If available)	:	
11.	Employees' State Insurance (ESI) Code No. (If available)	:	

Signature of authorized person of the bidder  
(With office seal)

**ANNEXURE-II**

**AFFIDAVIT**

**To be submitted on non judicial stamp paper**

I/We, Sri....., S/o Sri....., aged..... Years, residing at..... Proprietor/Partner/Director of.....do hereby solemnly affirm and declare in connection with “Repairing and replacement of Street Light Poles through Supply, delivery, Erection & installation of 9 Mtr. Hot Dipped galvanized Octagonal Street Light Poles, Laying of Cables, and Other Electrical Works against damaged due to super cyclone ‘AAMPHAN’ at NH-41 from Ranichak to Brajalalchak of HDA” of NIT No.07/HDA/EC-ELECT/2020-2021 as follows:

1. That I/We have examined the site of work and read the bidding documents including all addenda / corrigenda, issued by HDA and undertake to execute & complete all the work related to above Tender in accordance with the Technical Specification, scope of work and Tender Terms and conditions within 100 days from the date of order to commence the work, in the event of our bid being accepted.
2. That I/We, the undersigned, do certify that all the information furnished & statements made in the bid documents are true and correct to the best of my knowledge and belief.
3. I / We have not been debarred, banned or delisted by any Government or Quasi-Government Agencies or Public Sector Undertakings in India.
4. The undersigned also certifies that neither we have abandoned any work awarded to us, nor any penal action was taken against us by any department. The undersigned also declares that we do not have any running litigation with any department.
5. I also declare that the prices have been quoted in the Price Bid, electronically only of all the items of the BOQ [Annexure – I] of the tender and no direct or indirect mention of the prices has been made by me / us anywhere else in my / our bid. No extraneous conditions (like “Not Applicable”, conditional rebate, etc.), regarding the Price Bid, have been mentioned anywhere in our bid.
6. If the contract is awarded to us, we will deploy at site all necessary T & P equipments and Laboratory with necessary testing equipments / apparatus as listed below immediately on receipt of the work order. We would commence the work only on deployment of machineries at site to the full satisfaction of the Engineer-in Charge. We would be duty bound to use those equipments at site to achieve the best result as per requirement of the contract. We would upkeep and maintain those equipments in running condition till completion of the Project. Any breakdown of any equipment will be replaced immediately. No part of equipment will be shifted to another site without the written permission of the Engineer in Charge. We will also keep sufficient tool, tackles and equipment, manning during O&M of the project in **One-Year** defect liability period.
7. We would deploy at site all necessary Technical Personnel for efficient contract management and supervision of works with a view to achieving best quality of works at site during execution. We will also keep sufficient technical personals during O&M of the project in **One-Year** liability period.
8. We would carry out all necessary tests of all major items at frequency spelled out in the contract document / as per IS specification to achieve the best quality work at site. We will be contract bound to bring to the notice of the EIC any non-compliance of test results along with the action taken report.
9. I/We will submit the details of Specification, make and model (Catalogue) of the Materials / Equipment, Test certificate, etc to Engineer-In-Charge before Procurement.

**Signature of authorized person of the bidder  
(With office seal)**

**Place:**

**Date:**

**ANNEXURE-I**  
**FINANCIAL BID FORMAT**  
**NIT NO: 07/HDA/EC-ELECT/2020-2021**

Repairing and replacement of Street Light Poles through Supply, delivery, Erection & installation of 9 Mtr. Hot Dipped galvanized Octagonal Street Light Poles, Laying of Cables, and Other Electrical Works against damaged due to super cyclone 'AAMPHAN' at NH-41 from Ranichak to Brajalalchak of HDA.

**Item wise rates are to be quoted by the bidders for each item:**

<b><u>Bill of Quantities and Quantities Rates are To Be Quoted</u></b>					
Sl No.	Description of Materials	Unit	Qty	Rate (Rs.) (including all taxes & applicable charges)	Amount (Rs.) (including all taxes & applicable charges)
1	Supply, delivery & installation of 9 Mtr. Hot Dipped galvanized Octagonal Pole with G.I 4nos. J- bolt, M-24, 750 mm long, 12nos. of Nuts with 16nos. of washers for foundation and double Straight arm of 1.5 M in Length (Refer to the Specification and Drawing in Annexure-I). The rate should include testing at works, including all taxes and delivery the materials at different locations of HDA planning area. (Make: - Utkarsh, Bajaj, Valmont, Transrail)	No	52		
2	Supply and delivery of 1.1 KV grade 3.5 C X 35 Sq mm XLPE insulated and PVC sheathed aluminum armored Cable. As per IS 7098 Part -1 with latest amendment if any. The cable should have ISI mark. (Make: Havells, KEI, Goster, Polycab)	Mtr	1550		
3	Straight through Jointing of cable by compound jointing kit including S &F ferrule, tapes and jointing materials (Brand approved by EIC) 3½ core 35 sqmm cable after excavation of soil Joint the cable as per proper rules and filling the soil as previous.	Set	32		
4	Erection, Testing and commissioning of Street light poles (7 Mtr. - 10 Mtr.) with modern Engineering practice (Excluding Cost of RCC foundation)	Day	6		
5	Lifting of the running Under Ground Cable coming to the looping cable Box upto the top of the muffing above the top of the ground level by drawing through 40 mm dia rigid pvc pipe of superior Quality and tiding the same by no 10 SWG G I wire with the pole including supply of pipe & wire & filling the top of the pipe/pipe hole with bitumen and neat cementing properly (average run- 1.5 mtrs/run X 2 runs per pole).	No.	52		
6	Supply and fixing of SPMCB "B" Curve 1 Amp with ISI marked to be placed on a din channel of Pole and supply and fixing of Terminal connector at the suitable location of the pole.(Make: Legrand, L&T, ABB)	No	52		
7	Stickering of "HDA"logo at the street light pole [15" X 9"]. 3Nos logo per pole and feeder pillar box.	No.	165		

8	Supply and fixing of Pole numbering Sticker (5" X 3") at the street light pole.	No.	184		
9	Preparation of RCC foundation of 600 X 600 mm, 2000 mm Hight (1300 mm below the Ground Level and 700 mm above the Ground Level) with required rod, cement, chips and sand etc. at the ratio 1:1:5:3 with ground bolt 4 nos for fixing the 9 Mtr Hight G.I Octagonal pole (excluding supply and delivery of 9 M Pole and Nut Bolts).	No	52		
10	Laying of one No. cable upto 35 Sq mm in underground trench 460 mm wide x 760 mm average depth, with brick protection on the top of the cable with 8 (eight) Nos. bricks per meter, including filling the space between the brick & cable and also the trench with shifted soil, leveling up and restoring surface duly rammed.	Mtr.	1345		
11	Laying only Cable upto 50 sq.mm through existing RCC/Hume/ GI /HDPE Pipe/open masonry trench for single, 2, 3, 3½ & 4 core	Mtr	50		
12	Supply & fixing medium gauge GI Pipe (ISI-Medium) Protection with necessary fittings and jointing materials as required. (c) 65 mm dia	Mtr	50		
13	supply, drawing and Connection of luminaries with 3C X 1.5 Sqmm pvc insulated FR copper conductor through 10 mtr. Poles from looping box to light fittings as required. (Considering 11 mtr. Wire)	No	104		
14	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of XLPE/PVC armoured cables as below:				
	3.5 Core X 35 Sqmm	No	20		
15	Finishing of the XLPE/PVC insulated armoured cable ends by soldering with cable sockets and insulated tapes etc., including supplying sockets, soldering materials, tapes etc. and making connection to switch, BDB and BBC etc.				
	3.5 Core X 35 Sqmm	Set	98		
16	Earthing with 65 mm dia GI pipe (TATA-Medium)x 3.0 Mts. long and 1 No. 50 mm x 6 mm galvanized (Hot Dip) steel strip (4 Mts. long), 20 mm dia x 125 mm long galvanized bolt, double nuts, double washers including finishing both ends by making holes etc. and S & F 65 mm dia GI pipe (ISI-Medium) protection (3 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level to an average depth of 3.65 Mts. For Soft Soil	No	6		
17	Excavation of soil for installation of Earth Electrode and filling & ramming. (a) For Soft Soil	Cu Mtr.	6		

18	Extra for providing masonry enclosure on the top of the earth electrode of overall size 86.36 cm x 86.36 cm x 46 cm deep (below Ground level) complete with cemented brick work(1:6) of 25 cm width duly plastered with cement mortar (inside) CI hinged inspection cover of size 36.56 cm x 35.56 cm with locking arrangement, GI reducer including drilling of 46 nos. 12 mm dia holes on the GI pipe.	No	6		
19	Supply & fixing of GI (Hot Dip) strips 20 mm x 3 mm thick for vertical run on wall with GI saddles spaced not exceeding 1000 mm apart incl. mending good damages to building work.	Mtr	18		
20	Supply GI earth Spike (1830 X 20 mm) (Each Pole).	No	52		
21	Earthing complete with driving of earth spike & connection of Earth electrode with non-current carrying metallic parts of supports (Each Pole).	No	52		
22	Connecting the equipments to earth busbar including S & F GI (Hot Dip) wire of size as below on wall/floor with staples buried inside wall/floor as required and making connection to equipments with bolts, nuts, washers, cable lugs etc. as required and mending good damages. 6 SWG.	Mtr	110		
23	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc (2.52 sqm per pole x 52).	Sqm	131.04		
24	Painting the vertical end faces of posts, wheel guards or railing or parapet with alternate bands of different colours as directed by the Engineer-in-charge with approved synthetic enamel paint (2.52 sqm per pole x 52). (b)Two coats.	Sqm	131.04		
<b>Total Amount (In Rs.)</b>					
Total Amount in words:					

**Signature of authorized person of the bidder  
(With office seal)**

**Note: The bidder should signed and sealed all the pages**



**DETAIL TECHNICAL SPECIFICATION OF OCTAGONAL HOTDIP GALVANISED STREET LIGHT  
POLES**

**PRE-QUALIFICATION**

The manufacturer of Street Light Pole should be ISO 9001 certified and shall have experience of handling similar jobs in past.

The Street Light Pole manufacturer should have in-house civil, structural and product design facilities and the shaft is to be manufactured from ISO 9001 certified factory taking care of all aspects of design, quality, environment and safety.

**STRUCTURE:**

Poles shall be continuously tapered OCTAGONAL cross section, presenting a good and pleasing Appearance and based on proven design conforming to international standards, to give an assured Performance and reliable service. The pole shall be suitable for wind loadings as per IS 875 part 3 1987.

**APPLICABLE STANDARDS:**

The following shall be Reference Standards for the loading of the Hot Deep Galvanized GI octagonal Pole:

- a) **IS 875 (Part III)**–1987: Code and practice for wind loads
- b) **ILE TR-7, Latest Edition**: Specification for Hot Deep Galvanized GI octagonal Pole /Foundation
- c) **BS 5649, Part-7**: Structural design
- d) **BSEN 100025/100027, BS 4360**: Pole sections
- e) **IS 2062**: Base plate, top plate and accessories
- f) **BS 5135 or IS 9595**: Welding
- g) **BS EN ISO 1461**: Galvanizing
- h) **IS 1367**: Foundation bolts
- j) **SABS 0225 1991**: Natural frequency calculation.

**Design basis:**

For design of the foundation following basis shall be considered:

All design shall be as per relevant latest IS codes.

- a. Design wind speed: 50 m/sec
- b. Seismic Zone: Zone -IV
- c. SBC below 2 meters from Ground level to be treated as 50 KN/m<sup>2</sup>.

**CLIMATIC CONDITIONS OF THE INSTALLATION: -**

- |    |                                       |                |
|----|---------------------------------------|----------------|
| a) | Max. Ambient Temperature              | : 50° C        |
| b) | Max. Daily average ambient temp.      | : 40° C        |
| c) | Min Ambient Temperature               | : 0° C         |
| d) | Maximum Humidity                      | : 95%          |
| e) | Minimum Humidity                      | : 10%          |
| f) | Average No. of thunderstorm per annum | : 50           |
| g) | Average Annual Rainfall               | : 750 mm       |
| h) | Average No. of rainy days per annum   | : 60           |
| i) | Rainy months                          | : June to Oct. |
| j) | Altitude above MSL not exceeding      | : 300 meters.  |
| k) | Wind Pressure                         | : 210 km ph.   |

**POLE DESCRIPTION & THE REQUIREMENT:**

<b>SL</b>	<b>Description</b>	<b>Requirement</b>
1	Height of Octagonal Pole	8 Mtr.
2	No. of Sections	One
3	Material of construction	S 355 grade as per BS-EN10 025.
4	Thickness of Sheet	3mm
5	No of Longitudinal seamless weld/section	One
6	No of Circumferential weld/Section	Nil
7	Cross Section of Pole	Octagonal
8	Base Dia and Top Dia meter	155/70 mm
9	Metal Protection for the Pole	Hot Dip Galvanized
10	Method of Hot Dipping	Single Dipping
11	Average thickness of galvanization	>70 microns
12	Height of the door opening from pole flange plate to the bottom of the door	500mm
14	Type of Locking arrangement	Vandal resistant, weather proof with locking arrangement
15	Control	Arrangement of Terminal and MCB
16	Lightning protection finial	G.I single spike (as per BIS/CPWD specification)
17	Standard for of galvanization	As per BS EN ISO 1461
18	Maximum wind speed	50m/s
19	Number of foundation bolts	4 nos.
20	PCD of foundation bolts	200 mm minimum
21	Material of construction	50 NB ERW Class A - M. S. Tube
22	Load carrying capacity	1 No Luminaire, minimum 10 Kg per luminaire
<b>A) BRACKET</b>		
1.	No. of Brackets	1 no Double arm Bracket
2.	Length.	1500 mm (horizontal)
3.	Construction	GI Pipe (medium grade.) , 48-60 mm. dia OD, will be finalized in the W.O.
<b>B) DYNAMIC LOADING</b>		
1.	Basic wind speed	50 m/sec.
2.	Hourly mean wind speed	23.27 m/sec.
3.	Max. gust speed time	3 sec.
4.	Factor of safety for wind load	As per relevant IS 875: 1987
5.	Factor of safety for other load	As per relevant IS 875: 1987
<b>C) Foundation details</b>		
1	Type of foundation	As per Annexure
2	Size of concrete foundation	As per Annexure
3	Details of foundation GI bolts and Nuts	4nos. J- bolt, M-24, 750mm long, 12nos. of Nuts with 16nos. of washers EN8 Grade
4	Base plate material	GI
5	Base plate Dimension	260 X-260X 16 mm.

6	Thickness of the base plate	16 mm
<b>D) CABLE FOR INTERNAL WIRING</b>		
1.	Type	1.1KV Flexible copper conductor, PVC insulated and sheathed Cable.
2.	Material of conductor	Copper
3.	Conductor size	3 Core, 1.5 <u>sq.mm</u>

### **General Construction**

The Octagonal Pole shall be designed to withstand the maximum wind speed as per IS 875.

#### **1. BRACKETS:**

The arm bracket shall be hot dip galvanized.

#### **2. EARTHING TERMINALS**

Suitable single earth terminals using stainless steel bolt shall be provided at bottom of the base flange of the Pole. GI strips joints are to be welded.

#### **3. TESTS**

All routine, acceptance & type tests shall be carried out in accordance with the relevant standards. All routine/acceptance tests shall be witnessed by the purchaser/his authorized representative. All the components shall also be type tested as per the relevant standards.

#### **4. TYPE TEST CERTIFICATES**

The Bidder shall furnish the type test certificates of the Octagonal Poles for the tests as per the corresponding standards.

#### **5. PRE-DISPATCH INSPECTION:**

The pole shall be subject to inspection by a duly authorized representative of the HDA. Inspection may be made at any stage of manufacture at the option of the purchaser and the pole if found unsatisfactory as to workmanship or material, the same is liable to rejection. Bidder shall grant free access to the places of manufacture to HDA representatives at all times when the work is in progress.

Following documents shall be sent along with material:

- a) Test reports.
- b) Invoice in duplicate.
- c) Packing List.
- d) Drawings & catalogue.
- e) Guarantee / Warrantee card.
- f) Delivery Challan.
- g) Other Documents (as applicable).

#### **6. GUARANTEE:**

Bidder shall stand guarantee towards design, materials, workmanship & quality of process / manufacturing of items under this contract for due and intended performance of the same, as an integrated product delivered under this contract. In the event any defect is found by the Purchaser up to a period of at least **One year** from the date of commissioning Bidder shall be liable to undertake to replace/rectify such defects at its own costs.