All India Institute of Medical Sciences  
Veerbhadr Marg, Pashulok,  
Rishikesh-249203

Tender document for Provision of 5 Nos High Mast Lights at certain places at AIIMS Rishikesh.

Ref. No. : 47/01/High Mast Light/RIS/ES-207

Publishing Date : 02/01/2019 01:40 PM  
Bid Submission Start Date : 02/01/2019 02:00 PM  
Last Date of Bid Submission : 23/01/2019 03:00 PM  
Technical Bid Opening : 24/01/2019 03:00 PM
INDEX

Name of Work: - Provision of 5 Nos High Mast Lights at certain places at AIIMS Rishikesh.

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Certified that this bid document contains pages 1 to 37 (One to Thirty Seven page).

Executive Engineer
AIIMS, Rishikesh

Tender document may be downloaded from CPPP site [https://eprocure.gov.in](https://eprocure.gov.in)
NIT may be downloaded from institute’s website [www.aiimsrishikesh.edu.in](http://www.aiimsrishikesh.edu.in)
AIIMS, Rishikesh

NOTICE INVITING TENDER

The Superintending Engineer, AIIMS Rishikesh on behalf of Director, AIIMS Rishikesh invites Item rate e-tenders from approved and eligible contractors of CPWD, MES, Railways, and other Center government contractor for the following work:

NIT No. : 47/01/High Mast Light/RIS/ES-207

Name of Work: - Provision of 5 Nos High Mast Lights at certain places at AIIMS Rishikesh.

Estimated Cost: **Rs. 58,16,242.00 Earnest money: Rs. 1,16,325.00 & period of completion: 03 Months**

Last date & time of submission of bids: 23/01/2019 upto 3:00 PM.

The tender forms and other details can be seen and downloaded from the website [www.aiimsrishikesh.edu.in](http://www.aiimsrishikesh.edu.in) or CPPP site [http://eprocure.gov.in](http://eprocure.gov.in)
INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE

The Superintending Engineer, AIIMS Rishikesh on behalf of Director, AIIMS Rishikesh invites Item rate e-tenders from approved and eligible contractors of CPWD, MES, Railways and other Center Government contractor for the following work:

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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 Instructions for bidders posted on website shall form part of bid document.

3. 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 can be seen and downloaded from website www.aiimsrishikesh.edu.in or https://eprocure.gov.in

4. But the bid can only be submitted after depositing tender fee in favour of AIIMS Rishikesh 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 and bank guarantee of any Scheduled bank towards EMD in favour of AIIMS Rishikesh and other documents as specified.

5. Those contractors not registered on the website mentioned above, are requested to get registered beforehand.

6. The intending bidder must have valid class-III 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 should upload documents in the form of PDF format only and hard copy of all the documents should be submitted in tender office before the last date of submission of Bid.

9. Contractor must ensure to quote rate of each item. 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”. Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such items shall be treated as “0” (Zero).

10. The contractor should quote the rate of item including GST as per statutory rules.
11. (i) The bidder shall pay the respective amount of Bid Security (EMD) as mentioned in table by Demand Draft FD/TD/CD in favour of “AIIMS, Rishikesh” drawn on any Nationalized Bank/ Scheduled Bank and payable at Rishikesh and must be valid for (6) six month. Bids received without Earnest Money deposit (EMD) shall stand rejected and thus shall not be considered for evaluation etc at any stage. The original EMD will be submitted alongwith bid documents.

(ii) Earnest Money deposited with AIIMS, Rishikesh in connection with any other tender enquiry even if for same/similar material / Stores by the tenderer will not be considered against this tender.

(iii) The EMD will be forfeited if the bidder withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to the notice that the information/ documents furnished in its tender is incorrect or false.

12. The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract with successful bidder.

13. The successful bidders has to execute a contract on Indian non judicial stamp paper of Rs.100/- (Rupees one hundred only) within fifteen (15) days from the date of award of this tender in his favour and also required to furnish the security deposit @ 10% against performance guarantee of contract value in the form of FD/BG/TD/CD from any Nationalized/Schedule bank duly pledged in favour of AIIMS, Rishikesh & payable at Rishikesh only. The EMD deposited by successful bidder may be adjusted towards Security Deposit as demanded above. If the successful bidder fails to furnish the full security deposit or difference amount between Security Deposit and EMD within 15 (fifteen) days after the issue of Letter of Award of Work, his bid security (EMD) shall be forfeited and award of tender in supplier's favour automatically stands terminated at his cost & liability, unless time extension has been granted by AIIMS, Rishikesh.

14. The bid shall be valid and open for acceptance by the competent authority of AIIMS Rishikesh for a period of 60 (sixty) days from the published date of opening of the tenders and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained. The unilateral withdraw at any stage will cause forfeiture of EMD in addition to any remedy that the purchaser may have under the law. If any bidder 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 re-bidding process of the work.

15. 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/FDR/Bank guarantee of any scheduled bank against EMD and tender fee.

   II. Enlistment Order of the Contractor.

   III. Certificate of Registration for GST/ Sales Tax / VAT and acknowledgement of up to date filed return.

   IV. Certificate of work experience (As specified in Clause 1.2.1 of CPWD-6)

   V. Singed and Stamp on each pages of NIT
Notice Inviting e-Tender

CPWD - 6
Govt. of India
AIIMS, Rishikesh

Item rate tenders are invited on behalf of Director, AIIMS Rishikesh from approved and eligible contractors of CPWD, MES, Railways and other Center Government contractor for the work of High Mast Light at AIIMS Rishikesh) at AIIMS Rishikesh.

The enlistment of the contractors should be valid on the last date of submission of bids.

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

1.1 The work is estimated to Cost Rs. 58,16,242.00, this estimate, however, is given merely as a rough guide.

1.2 Intending tenderer is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-

Criteria of eligibility for submission of bid documents

1.2.1 Criteria of eligibility

Three similar works each of value not less than Rs. 23,26,497.00 or two similar work each of value not less than Rs. 34,89,745.00 or one similar work of value not less than Rs. 46,52,994.00 in last 7 years ending last day of the month previous to the one in which the tenders are invited.

Similar works means Electrical work

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of receipt of tenders.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 8 which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. 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 03 (three) 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.

5 The tender document consisting of plans if any, 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 website www.aiimsrishikesh.edu.in or https://eprocure.gov.in. The cost of tender is Rs.1180 (inclusive GST). Those who downloads the tender document from website should upload scan copy of DD/Pay Order for Rs.1180.00 (non – refundable) in favour of “AIIMS, Rishikesh”, payable at Rishikesh.
The required EMD shall be uploaded with the required documents otherwise tender submitted may stand rejected.

6. After submission of the bid the contractor can re-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 rate of one or more item(s) any number of time (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

8. Work completion period of above work is 3 months from the date of award.

9. The contractor whose bid is accepted will be required to furnish performance guarantee of 10% (Ten Percent) of the bid 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. 10000/-) 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 along with tender shall be returned after receiving the aforesaid performance guarantee.**

10. A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 Laks, whichever is less, shall 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-tendering website within the period of bid submission.

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

11. The Bid submitted shall become invalid and e-Tender Processing Fee shall not be refunded if:
   (i) The bidders is found ineligible.
   (ii) The bidder does not deposit original EMD with Superintending Engineer, AIIMS Rishikesh (The EMD document shall only be issued from the place in which the office of receiving division office is situated).
   (iii) The bidders 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 of 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 tender opening authority.
12. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders 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 bidder shall be 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 for in the contract documents. Submission of a bid by a bidder 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 local conditions and other factors having a bearing on the execution of the work.

13. The competent authority 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 tenderer shall be summarily rejected.

14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

15. The competent authority reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

16. The contractor shall not be permitted to tender for works in AIIMS Rishikesh in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer, Executive 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 gazetted officer in AIIMS Rishikesh. Any breach of this condition by the contractor would render him liable to reject his Bid submitted by him.

17. No Engineer of Gazetted 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 tender or engagement in the contractor’s service.

18. The bid for the works shall remain open for acceptance for a period of 60 days from the date of opening of bids/60 days from the date of opening of financial 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 rebidding process of the work.

19. This notice inviting Bid shall form a part of the contract document. The successful bidders /contractor, on acceptance of his tender by the Accepting Authority shall within 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 tender as uploaded at the time of invitation of tender.
   b) Standard C.P.W.D. Form 8 or other Standard C.P.W.D. Form as applicable.
INTEGRITY PACT

To,

..........................

..........................

..........................


Dear Sir,

It is here by declared that AIIMS Rishikesh is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender / bid documents, failing which the tenderer / bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the AIIMS Rishikesh.

Yours faithfully,

Executive Engineer
AIIMS Rishikesh
To,

The Executive Engineer,
AIIMS Rishikesh,

Sub: Submission of Tender for Provision of 5 Nos High Mast Lights at certain places at AIIMS Rishikesh.

Dear Sir,

I / We acknowledge that AIIMS Rishikesh is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I / We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by AIIMS Rishikesh. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, AIIMS Rishikesh shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid is accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)
INTEGRITY AGREEMENT

This Integrity Agreement is made at ........................................ on this ........................ day of ................. 20

BETWEEN

AIIMS Rishikesh represented through Director ................................................................. (Name of Division)
AIIMS Rishikesh .................................................................................................................., (Hereinafter referred to as the
(Address )
'Principal / Owner’, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

(Name and Address of the Individual/firm/Company)
Through .............................................................................................................................(hereinafter referred to as the
(Details of duly authorized signatory)
“Bidder/Contractor” and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal /Owner has floated the Tender (NIT No. ...............................................) (hereinafter referred to as “Tender/Bid”) and intends to award, under laid down organizational procedure, contract for

(Name of work)
Hereinafter referred to as the “Contract”.
AND WHEREAS the Principal / Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).
AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as “Integrity Pact” or “Pact”), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:
Article 1: Commitment of the Principal / Owner

1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:

   (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

   (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

   (c) The Principal / Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC) / Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal / Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s) / Contractor(s)

1) It is required that each Bidder / Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

2) The Bidder(s) / Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

   a) The Bidder(s) / Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal / Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
b) The Bidder(s) / Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

c) The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s) / Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d) The Bidder(s) / Contractor(s) of foreign origin shall disclose the names and addresses of agents / representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

d) The Bidder(s) / Contractor(s) will, when presenting his bid, disclose (with each tender as per performa enclosed) any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract

3) The Bidder(s) / Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

4) The Bidder(s) / Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake / forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.

5) The Bidder(s) / Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his / her reputation or property to influence their participation in the tendering process).
**Article 3: Consequences of Breach**

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal / Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder / Contractor accepts and undertakes to respect and uphold the Principal / Owner's absolute right:

1) If the Bidder (s) / Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal / Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

2) **Forfeiture of EMD / Performance Guarantee / Security Deposit:**

If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder / Contractor.

3) **Criminal Liability:**

If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of Indian Penal code (IPC)/Prevention of Corruption Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

**Article 4: Previous Transgression**

1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.

2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holding listing of the
Bidder/Contractor as deemed fit by the Principal/Owner.

3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

**Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors**

1) The Bidder(s) / Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder / Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.

2) The Principal / Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.

3) The Principal / Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

**Article 6- Duration of the Pact**

This Pact begins when both the parties have legally signed it. It expires for the Contractor / Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, Director, AIIMS Rishikesh.

**Article 7- Other Provisions**

1) This Pact is subject to Indian Law, place of performance and jurisdiction is Rishikesh.

2) Changes and supplements need to be made in writing. Side agreements have not been made.

3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.

4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

**Article 8- LEGAL AND PRIOR RIGHTS**

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender / Contract documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

(For and on behalf of Principal/Owner)

Executive Engineer
AIIMS, Rishikesh,
Virbhadra Road,
Rishikesh-249203

(For and on behalf of Bidder/Contractor)

WITNESSES:

1. .......................................................... (Signature, name and address)

2. .......................................................... (Signature, name and address)

Place: -

Dated: -
I/We hereby tender for the execution of the work specified within the time specified in Schedule 'F', viz., schedule of quantities and in accordance with the specifications, designs, 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.

We agree to keep the tender open for Ninety (90) days from the due date of opening of financial bid and not to make any modification in its terms and conditions.

रू. र 1,16,325.00 की धनराशि, धरोहर राशि के रूप में ट्रेडजरी चलान राशि/अनुसूचित बैंक की मांग जमा राशि/अनुसूचित बैंक की सावधान राशि/अनुसूचित बैंक का हिसाब जमा /अनुसूचित बैंक द्वारा जारी बैंक गारंटी के रूप में इसके साथ में जारी करें जिसे इसी है।

A sum of रू. 1,16,325.00 is hereby forwarded in Multiple Treasury Challan or Demand Draft or Pay order or Banker’s Cheque or Deposit at Call Receipt / Fixed Deposit receipts of a scheduled bank / demand draft of a scheduled bank/bank guarantee issued by 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 Director of AIIMS Rishikesh 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 Director of AIIMS Rishikesh or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely. The said Performance Guarantee shall be guaranteed 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. Futhur, I/we agree that in case of forfeiture of earnest money or both earnest money and performance guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.
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 authorised to communicate the same or use the information in any manner prejudicial to the safety of the State.

**ACCEPTANCE**

The above tender (as modified vide letters mentioned hereunder) is accepted by me for and on behalf of the Director, AIIMS Rishikesh for a sum of ₹. __________

(Rupees_____________________________________________________________)

The letters referred to below shall form part of this contract Agreement:-

a) 

b) 

c) 

For & on behalf of Director, AIIMS Rishikesh

Signature..............................

**Dated ...............**

**Designation..........................**
SCHEDULES
[ FOR MAJOR (ELECTRICAL) COMPONENT]

Schedule of quantities (Enclosed) Page No. -

Schedule of materials to be issued to the contractor.

Tools and plants to be hired to the contractor

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description</th>
<th>Hire charges per day</th>
<th>Place of Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

General conditions of contract for CPWD works 2014 as amended upto date.

Name of work: Earthing & LT cable works for 25 Nos OTs of Trauma Center and Hospital complex (SH:- Electrical work.) at AIIMS Rishikesh.

Estimated cost of work: ₹ 58,16,242.00
Earnest money: ₹ 1,16,325.00
(ii) निष्पादन गारांटी: Performance guarantee:
10% of tendered value, निष्पादन मूल्य का 10 प्रतिशत

(iii) प्रतिकृति निशेष: Security Deposit:
2.5% of tendered value plus 50% of performance guarantee for contract, involving maintenance of the building and services / other work after construction of same building and services / other work.

अनुसूची 'च' SCHEDULE 'F'
सामान्य नियम एवं दिशानिदेश:

General Rules & Directions:
निर्दिष्ट आंशिक निर्माण करने वाले प्राधिकरण

Officer inviting tender -
कार्य की मदद की मात्रा के लिए अधिकारित निर्माण जिससे अधिक निर्माणमय मदद के लिए दरों का निर्धारण खण्ड 12.2 और 12.3 के अनुसार होगा

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:

2(v) भारतीय इंजीनियर
Engineer-in-Charge

EE, AIIMS Rishikesh

2(viii) स्थापक कार्य प्राधिकरण
Accepting Authority

Director, AIIMS Rishikesh

2(x) अधीक और लागों को पूरा करने के लिए क्षमा एवं सामग्रियों की सलगत पर प्रतिस्पर्धा
Percentage on cost of materials and labour to cover all overheads and profits.

15% (Fifteen per cent)

2(xi) Standard Schedule of Rates:
S.R.(Int., Ext.) with up to date correction slips & market rates

2(xii) Department:
AIIMS Rishikesh

9(ii) Standard CPWD contract Form:
GCC 2010, CPWD form 8 as modified & corrected up to date (Whether correction vide latest circulars are incorporated or not in this document).

CPWD form 8 (Print edition -2016) as modified

Standard CPWD contract Form

with up to date correction slip.

खण्ड Clause 1

.पद्धति स्थापक पत्र चारी होने की तारीख से निष्पादन गारांटी के अनुसार समय

Time allowed for submission of performance guarantee from the date of issue of letter of acceptance : 15 days

.पद्धति (उपरोक्त पर) में दी गई अवधि के पश्चात अधिकतम अनुमोदन एकसाथ पर
Maximum allowable extension with late fee @ 0.10% per day of performance guarantee amount beyond the period as provided in (i) above : 7 days

खण्ड Clause 2
Clause 2A

Whether clause 2A shall be applicable
No

Clause 2

Authority for fixing compensation under clause 2

Director, AIIMS Rishikesh

Clause 5

No. of days from the date of issue of letter of acceptance for reckoning date of start
15 days.

Milestone(s):

NA

Clause 6

Time allowed for execution of work
03(Six) Months

Clause 7

Authority to decide
(i) Extension of Time
SE, AIIMS Rishikesh
(ii) Rescheduling of milestones
SE, AIIMS Rishikesh
(iii) Shifting of date of start in case of delay in handing over of site
SE, AIIMS Rishikesh

Clause 10A

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
NA

Clause 10B

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

Clause 10C

Component of labour expressed as
Percent of value of work
NA
Clause 10CC - NOT APPLICABLE.

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

<table>
<thead>
<tr>
<th>Months</th>
</tr>
</thead>
<tbody>
<tr>
<td>.........</td>
</tr>
</tbody>
</table>

Clause 11

कार्य निर्देशन के लिए अनुपालन

Specifications to be followed for execution of work

General specifications for electrical works

up to date correction slips (Hereinafter called CPWD specifications also)

Clause 12

Type of Work

12.2 & 12.3 विशेष रीति विशिष्ट क्षेत्र पर खंड 12.2 तथा 12.3 में निर्देशन कार्य के लिए लगभग होने

Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work (Other than foundation)

30%

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

NA

Clause 16

घटी हुई दरे नियामित करने की लिए स्थान प्राधिकारी

Competent Authority for deciding reduced rates

SE, AIIMS Rishikesh or successor thereof

Clause 18

कार्यस्थल पर दूरकदार द्वारा लगभग जाने वाली अनिवार्य

गैर-प्राथमिक पर्याय एवं सामग्री की सूची

List of mandatory machines, tools and plants to be deployed by the contractor at site

N.A.

Clause 25

<table>
<thead>
<tr>
<th>Constitution of Dispute Redressal Committee (DRC)</th>
<th>Competent Authority to appoint DRC and Arbitrator</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRC shall constitute one Chairman and two members</td>
<td>Director, AIIMS Rishikesh</td>
</tr>
</tbody>
</table>
**Clause 36(i)  Requirement of Technical Representative(s) and Recovery Rate**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Minimum Qualification of Technical Representative</th>
<th>Discipline</th>
<th>Designation (Principal Technical/Technical representative)</th>
<th>Minimum experience</th>
<th>Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i) Per person</th>
<th>Figures (` Per person)</th>
<th>Words (` Per person)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Diploma/Graduate Engineer</td>
<td>E &amp; M</td>
<td>Principal Technical Representative</td>
<td>5/2 years</td>
<td>1 No 35000/50,000/- p/m Thirtyfive thousand/Fifty Thousand</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers. Even if contractor (or partner in case of firm/company) is himself an Engineer/Overseer(s), it is necessary on part of contractor to employ Engineer(s) and/or/Overseer for the supervision of the work(s) as per stipulation.

### Clause 42

1) (a) Schedule/statement for determining theoretical quantity of cement & bitumen

2) Variations permissible on theoretical quantities.

<table>
<thead>
<tr>
<th>d½</th>
<th>सीमेंट जिन कार्यों के लिए निविदा में अनुमानित मूल्य रू. ५ लाख से अधिक न हो</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Cement for works with estimated cost put to tender not more than Rs. 5 lakhs जिन कार्यों के लिए निविदा में अनुमानित मूल्य रू. 5 लाख से अधिक न हो</td>
</tr>
<tr>
<td>b)</td>
<td>Bitumen for all works</td>
</tr>
<tr>
<td>c)</td>
<td>इस्पात प्रत्यक्ष यास, कोट और श्रेणी के लिए पूर्वस्तल और संरचनात्मक इस्पात काट</td>
</tr>
<tr>
<td>d)</td>
<td>Steel Reinforcement and structural steel sections for each diameter, section and category.</td>
</tr>
<tr>
<td>e)</td>
<td>सभी अन्य सामग्रियां</td>
</tr>
<tr>
<td>f)</td>
<td>All other materials</td>
</tr>
</tbody>
</table>

NA
**AMENDMENTS TO GENERAL CONDITIONS OF CONTRACT 2014**

*OM No. DG/CON/282 Dated 10-12-2014*

*Sub: Modification in the 5th Paragraph of clause-25(ii) of GCC 2014*

The following 5th Paragraph of clause-25(ii) of GCC 2014 is modified as under:

<table>
<thead>
<tr>
<th>EXISTING Provision</th>
<th>Modified Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clause 25 (ii) 5th Paragraph The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act- 1996 (26 of 1996) or any statutory modification or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding under this clause.</td>
<td>Clause 25 (ii) 5th Paragraph The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act- 1996 (26 of 1996) /The Jammu &amp; Kashmir Arbitration and Conciliation Act, 1997(35 of 1997) (as the case may be) or any statutory modification or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding under this clause.</td>
</tr>
</tbody>
</table>

*OM No DG/SE/CM/CON/283 Dated 05-05-20158*

*Sub: Payment of wages to the labour by Contractor*

The Following provision of CPWD contractor labour Regulation of GCC2014 are amended:

<table>
<thead>
<tr>
<th>Existing Provision</th>
<th>Modified Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.P.W.D. Contractor’s Labour Regulations 5. Payment of Wages vi) Wages due to every worker shall be paid to him direct or to other person authorized by him in this behalf. vii) All wages shall be paid in current coin or currency or in both. x) It shall be the duty of the contractor to ensure the disbursement of wages in the presence of the Junior Engineer or any other authorized representative of the Engineer-in-Charge who will be required to be present at the place and time of disbursement of wages by the contractor to workmen. xi) 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 in my presence</td>
<td>C.P.W.D. Contractor’s Labour Regulations 5. Payment of Wages vi) Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account. vii) All wages shall be paid through Bank or ECS or online transfer. x) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour. xi) 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 …………….”</td>
</tr>
</tbody>
</table>
OM No DG/CON/285 Dated 05-06-2015

Sub: Amendment in general conditions of contractor (GCC)-2014

The following provision of GCC 2014 is modified as under

<table>
<thead>
<tr>
<th>Clause 5.1</th>
<th>Clause 5.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>As soon as possible after the Contact is concluded, the contractor shall submit a time and progress chart for each milestone and get it approved by the Department. The Chart shall be prepared in direct relation to the time stated in the Contract document 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 milestone given in Schedule ‘F’</td>
<td></td>
</tr>
<tr>
<td>The contractor shall submit a programme Chart (Time and Progress) for each milestone 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 document for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections 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 milestone given in Schedule ‘F’</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clause 7A</th>
<th>Clause 7A</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Provision</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clause 19</th>
<th>Clause 19</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Contractor shall obtain a valid license under the Contract Labour (R&amp;A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971 before the commencement of the work, and continue to have a valid license until the completion of the work.</td>
<td></td>
</tr>
<tr>
<td>The Contractor shall obtain a valid license under the Contract Labour (R&amp;A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971 before the commencement of the work, and continue to have a valid license until the completion of the work. The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.</td>
<td></td>
</tr>
</tbody>
</table>
FORM OF EARNEST MONEY (BANK GUARANTEE)

WHEREAS, contractor ............................................................ (Name of contractor) (Hereinafter called "the contractor") has submitted his tender dated .... (date) for the construction of (name of work) (hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we ............................................................. (name of bank) having our registered office at ............................................................. (hereinafter called "the Bank") are bound unto ............................................................. (AIIMS Rishikesh) in the sum of Rs. ............................................................. (Rs. in words ............................................................. ) for which payment well and truly to be made to the said AIIMS Rishikesh the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this ..................................................... day of ............................................................. 20...

THE CONDITIONS of this obligation are:

(1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;

(2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:

(a) Fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required; OR

(b) Fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor, OR

(c) Fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor, OR

(d) Fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Engineer-in-Charge either up to the above amount or part thereof upon receipt of first written demand, without the Engineer-in-Charge having to substantiates his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date.* after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE ............................................................. SIGNATURE OF THE BANK

WITNESS ............................................................. SEAL

(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.
1. The work shall be carried out strictly in accordance with CPWD specifications for electrical works Part-I Internal 2013 and 1995 (external) as amended up to date and in accordance with Indian Electricity Rules, 1956, Indian Electricity Act, 1910 as amended up to date and as per instructions of the Engineer-in-Charge including as below and nothing will be paid extra.

2. All materials to be used on this work by the contractor shall be got approved from the Engineer-in-Charge and deptt. Has right to inspect the material at manufacturers’ place before installation at site.

3. The work shall be carried out according to approved drawings/details which shall be subsequently issued to the successful for execution of work and as per instructions of the Engineer-in-Charge who will have the right to change the layout as per requirement at site and the contractor shall not have any claim due to change in layout.

4. All damages done to the building, roads, pathways, floors, walls during execution of electrical work shall be the responsibility of the contractor and the same will be made good immediately at his own cost to the satisfaction of the Engineer-in-Charge. Any expenditure incurred by the department in this condition shall be recovered from the contractor and decision of the Engineer-in-Charge about recovery shall be final.

5. The bad workmanship will not be accepted and defects shall be rectified at contractor’s cost of the satisfaction of the Engineer-in-Charge. The programme of electrical works are to be co-ordinated in accordance with the building work and no claim for idle labour will stipulated in the tender, electrical work shall have to be completed within 30 days of the completion of civil work.

6. All the debris of the electrical works should be removed and the site should be cleared by the contractor immediately after the accruing of debris. Similarly any rejected material should be immediately cleared off from the site by the contractor.

7. Issue of material to the contractor wherever stipulated, shall be according to the requirement at site from time to time depending upon the progress of work.

8. Cement for this bonafied work is to be arranged and used by the contractor himself and nothing extra will be paid on this account.

9. The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.

10. The size of conduit and wiring shall be got approved from the Engineer-in-Charge before taking up the execution.

11. The contractor shall make his own arrangement at his own cost for electrical/general tools and plants required for the work.

12. Main board and main distribution board: The work shall be carried out according to the drawings/details as approved by the Engineer-in-Charge. The contractor shall have to get the samples approved before the whole lot is brought to site and it shall include all inter connections etc.

13. No Central/State sales tax/VAT/Contract tax/Excise duty etc. shall be separately paid by the department. The rates tendered should be inclusive all taxes and duties (exclusive of service tax) Deduction of contract tax at source shall be made while releasing payment through running/final bills as applicable. A certificate specifying the rate and amount of deduction shall however be issued. No Form-D, 31/32 (Road permit) shall be issued by the department. The road permit shall be arranged by the tenderer on his own.
14. The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over to the department. However if there is any delay in construction from the department side, the installation may be taken over in parts, but the decision on the same shall rest with Engineer-in-Charge which shall be binding on the contractor.

15. Not withstanding the schedule of quantities, all items of interrelated works considered necessary to make the installation complete and operative are deemed to be included shall be provided by the contractor at no extra cost.

16. The connection, inter connection, earthing and inter earthing shall be done by the contractor wherever required and nothing extra shall be paid on this account.

17. Some of the items of work, if already executed on that case the successful tenderer shall have to use these items for completing the work. For wiring, the existing conduit wherever required shall be used by the contractor. The recovery will be made for these items as accepted rate of other agencies.

18. Nothing extra shall be paid for:
   (a) Inter connections with thimbles/wires/tapes strips etc.
# LIST OF ACCEPTABLE MAKE

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Item</th>
<th>Name of Manufacturers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>FRLS PVC insulated copper conductor single core cable for wiring. (ISI marked)</td>
<td>Universal/Nicco/Finolex/R.R Kable/Havells/Batra Henlay/Anchor/Grandlay/Bonton/KEI</td>
</tr>
<tr>
<td>2.</td>
<td>Telephone Cables Co-exaxil TV cables</td>
<td>Delton/Kent/Finolex/Polyca</td>
</tr>
<tr>
<td>3.</td>
<td>CAT-6 Cables for LAN wiring &amp; Internet Cable</td>
<td>D-Link/Legrand/Fino/Avaya/Lucent/RR Kable.</td>
</tr>
<tr>
<td>4.</td>
<td>MS Conduit i/c accessories (ISI marked)</td>
<td>AKG/BEC/NIC/Steelcraft/JPC Pipes/RMCON</td>
</tr>
<tr>
<td>5.</td>
<td>DWC Pipe</td>
<td>REX/Duraline/Gemini pipe</td>
</tr>
<tr>
<td>6.</td>
<td>Modular switch, socket/Telephone socket/cable TV socket/Data outlet Socket/Fan Regulator/Metal Boxes/ Occupancy sensor</td>
<td>Legrand-(Arteor)/M.K.(Blenze)/Crabtree/Anchor Woods/C&amp;S</td>
</tr>
<tr>
<td>7.</td>
<td>GI Pipe</td>
<td>Tata/Jindal (Hissar)/Prakash Surya/Swastik</td>
</tr>
<tr>
<td>8.</td>
<td>Paints</td>
<td>ICI/Asian/Berger</td>
</tr>
<tr>
<td>9.</td>
<td>Terminal Blocks and connectors</td>
<td>Elmex/Essen/Connect Well.</td>
</tr>
<tr>
<td>10.</td>
<td>Compact air insulated rising main.</td>
<td>Legrand/Schneider/L&amp;T/GE</td>
</tr>
<tr>
<td>11.</td>
<td>MCB, MCBDB, RCCB’s/RCCB’s</td>
<td>Schneider Electric/Legrand/L&amp;T Hagger/Siemens/ABB/Anchor/C&amp;S</td>
</tr>
<tr>
<td>12.</td>
<td>MCCB/Timer</td>
<td>Schneider Electric/Siemens/Larsen &amp; Toubro/Legrand/L&amp;T Multiline/Havells/ABB/C&amp;S</td>
</tr>
<tr>
<td>13.</td>
<td>SFU, FSU, HRC Fuses, cable management system/DLP Trunking</td>
<td>Schneider Electric/Siemens/Legrand/L&amp;T/Havells/C&amp;S</td>
</tr>
<tr>
<td>14.</td>
<td>Ammeter/Voltmeter</td>
<td>AE/IMP/Rishabh/HPL (only digital type to be used)</td>
</tr>
<tr>
<td>15.</td>
<td>Selector Switch/CT’s</td>
<td>Kayee/Siemens/Bhartiya Cutler Hammer/L&amp;T</td>
</tr>
<tr>
<td>16.</td>
<td>Change over Switch</td>
<td>L&amp;T/Siemens/Havells/C&amp;S/ABB</td>
</tr>
<tr>
<td>17.</td>
<td>Indicating Lamps</td>
<td>Teknie/Siemens/L&amp;T/Vaishnov</td>
</tr>
<tr>
<td>18.</td>
<td>LT Panel Board/Feeder Pillar</td>
<td>Manufacturers having ISO 9001 certification &amp; CPI approved</td>
</tr>
<tr>
<td>20.</td>
<td>Fresh Air Fan/Wall Mounted Fan/Ceiling fan/Exhaust fan. (only energy efficient fans, consuming ≤ 50 W and CMM ≥ 200 for 1200 mm &amp; 60 W and CMM ≥ 240 for 1400 mm shall be used).</td>
<td>Crompton/Orienpt/Khaitan/Usha/Bajaj/Havells/wipro</td>
</tr>
<tr>
<td>21.</td>
<td>Fluorescent/CFL/LED/Flood/Bulk head Fitting</td>
<td>Philips/GE/Wipro/Crompton/C&amp;S/Havells/Bajaj</td>
</tr>
<tr>
<td>22.</td>
<td>Lamps</td>
<td>GE/Osram/Phillips/Wipro/C&amp;S/Crompton/Havells/Bajaj</td>
</tr>
<tr>
<td>23.</td>
<td>Wall Brackets</td>
<td>DECON/Phillips/GE/Havells/Crompton/Bajaj</td>
</tr>
<tr>
<td>24.</td>
<td>Angle Holder/Batten Holder (ISI marked)</td>
<td>Emperor/Anchor/Cona</td>
</tr>
<tr>
<td>25.</td>
<td>Geyser</td>
<td>Racold/Crompton/Jaguar./AO Smith</td>
</tr>
<tr>
<td>26.</td>
<td>NRV/Gate Valve</td>
<td>Sant/Leader/BS</td>
</tr>
<tr>
<td>27.</td>
<td>XLPE inslulated PVC sheathed aluminium cable upto 1.1 KV Gde</td>
<td>Polycab/Fino/KEI/Grandy/Bonton/RR Kabel/Havells</td>
</tr>
<tr>
<td>28.</td>
<td>PVC conduit and accessories</td>
<td>Precision/Asian/Diamond/Mod./AKG/JPC Pipes/CAP</td>
</tr>
<tr>
<td>29.</td>
<td>Piano type Switches/Socket/TV / Telephone Outlet (ISI marked)</td>
<td>Anchor/Rider/Mod.</td>
</tr>
</tbody>
</table>

Executive Engineer,
AIIMS Rishikesh
Technical Specification of High Mast Light of 16 Meter Height 250 watt LED

MAST STRUCTURE

The high Mast shall be of continuously tapered, polygonal cross section polygon type of 16 Mtrs. in height presenting good visual appearance and shall be based on proven design to given assured performance, reliability and service. The Mast shall have an approximate top diameter of say 150 mm to 200 mm and bottom diameter of 350mm to 450mm. The weight of the Mast shall not exceed more than 1600 kgs. excluding weight of Luminaire, to maintain good elasticity of slender structure.

MAST CONSTRUCTION:

The Mast shall be fabricated from special steel plates of BS EN 10025 grade, cut and folded to form polygonal section and shall be telescopically jointed and fillet welded. The welding shall be in accordance with BS : 5135. The procedural weld geometry and the workmanship shall be exhaustively tested by the radiography on the completed welded and certificates submitted.

The Mast shall be delivered in only 2 sections without any circumferential welding at site, which shall be joined together by slip-stressed-fit method. The joining shall be with stressing equipment, thus forming the sleeve joint. No site welding or bolted joint will be accepted. The overlap distance shall have full penetration of longitudinal welds. The base plate of the mast shall be at least 25mm. thick. An adequate door opening of min. 1050 mm x 225 mm shall be provided at the base of each Mast. The opening shall be such as to permit clear access to equipment like winches, cable pug and socket, etc. The opening shall be complete with a close fitting vandal resistant, weather-proof door provided with a heavy duty lock. For metal protection of the Mast, the entire fabricated Mast shall be not dip galvanized internally and externally, having minimum average thickness of 65 microns.

DYNAMIC LOADING:

The Mast structure shall be designed for an assumed maximum reaction arising from the maximum wind speed (3 seconds gust) and measured at a height of 10 Mtrs. above ground level as per IS 875, Part III, 1987. The design life of the Mast shall be min. 25 years. Wind excited oscillation shall be damped by the method of constructions and adequate allowance made for the related stresses. The offered High Mast shall be a tested design

FOUNDATION:

The tenderer shall see the site closely and minutely with regard to the nature of the soil, average depth of decomposed garbage and debris at proposed Mast locations and the other site conditions before working out the type of foundation and specifications for the proposed High Mast.

The tenderer shall be responsible for the design of the foundation and safe erection and installation of the High Mast in mechanically and structurally safe working condition for the design life of the Mast. The load bearing (safe) capacity of the soil shall be indicted by purchaser to decide the type of foundation and its specifications. The holding down bolts shall be atleast 20 nos. or “as per recommendation of manufacture” of high tensile strength and shall be supplied complete with anchor plate of 6 mm thick for casting into the foundation. The precision made steel template with tube holes shall be provided to ensure correct verticality and horizontality of bolt alignment.
LANTERN CARRIAGE:
The fabricated lantern carriages shall be provided for holding the floodlight fittings and control gear provided on each High Mast. The lantern carriage shall be of special design and of durable steel tube construction designed to act as electric conduit with cable holes fully protected by grummets. The diameter of the lantern Carriage shall be suitable so as to hold designed number of floodlight fittings, as specified in the tender design along with the control gear boxes and lantern.

The lantern carriage shall be fabricated in three parts joined by bolted flanges with SS bolts with nuts to enable easy removal from the erected mast for replacement/maintenance purpose. The carriage shall be supported/suspended by three wire ropes for better stability. The lantern carriage Assembly shall not touch the lower surface of the Mast. The carriage design and fabrication shall be such that the lantern carriage will suit the lanterns and their control gear boxes to be used in the work.

The Lantern Carriage shall be so installed that it does not cause any damage to the surface of the Mast and is provided with protective buffer arrangement. The complete Lantern Carriage shall be hot dip galvanized after fabrication.

The weather-proof cast aluminum junction boxes (IP-55) shall be provided on the Lantern Carriage assembly from which the inter-connections will be made to the designed number of floodlight fittings and lanterns on the carriage.

MECHANICAL ARRANGEMENT:
For installation and maintenance purpose, it will become necessary to raise or lower the lantern carriage assembly. To enable this, a suitable winch arrangement shall be provided in the base of the Mast, complete with top pulley, winch stainless steel wire ropes and winch driving power tool.

A: WINCH:
The winch shall be of completely self-sustaining type. The winches shall be of self-sustaining type by means of an oil bath and the lubrication shall be of recommended quality. Termination of the ropes of the winch shall be in such a way, that it does not involve distortion or twisting of the rope configuration. At least 6 turns of rope shall remain in tension on the drum even when the lantern carriage is fully lowered. The winch shall be designed to be installed or removed from the door opening at the base of the mast. The winch drums shall be grooved to ensure mechanically strong, stable and tidy rope lay with no chances of rope slippage or skippage. The winch shall be capable of operation by hand or by means of external power tool. Integrated power tool with worm is not acceptable.

A test certificate shall be supplied along with each winch in support of the maximum load operated by the winch and for the safety of operation at the full load rotation. A handle shall also be provided for hand operation of the winches.

B: TOP PULLEY ASSEMBLY:
The top pulleys shall be of a diameter, appropriately large enough to accommodate the steel wire ropes and the multicore electric cable. The material of construction of the pulley blocks shall be non-corrosive and made of dia cast (LM - 6) aluminum alloy. The pulley assembly shall be complete with self-lubricating bearing and stainless steel spindle.

C: STAINLESS STEEL WIRE ROPE:
Stainless steel wire ropes shall be of 7 / 19 construction of 6 mm diameter, having a breaking load of not less than 2400 kgs. Complete with stainless steel thimbles. The end for connection to the winch drum shall be fitted with thimbles and the thimbles shall be secured by copper compression splices.
CABLE AND CABLE CONNECTIONS:
The connections shall be made with flat core flexible round sheath power cables of appropriate rating as per the schedule. The base compartment of the High Mast shall have one terminal box for terminating the incomer cable. The maintenance cables equal to that within the Mast and fitted with a 5 core plug socket shall be provided to energies lanterns while in lowering position by hooking up at the base compartment socket supply.

Similarly, the provision shall be made for electric supply at the base compartment to enable operation of the external power tool for lowering or rising of the lantern carriage assembly. The trailing cables of the lantern carriage rings shall be terminated by means of metal cased plug and socket provided in the base compartment to enable flexibility.

WINCH DRIVING POWER TOOL:
The electric driven tool shall be single speed, (1.2 Mt./min.) reversible three phase & hand operated motor. The power tool shall be complete with very robust remote control switch such that the tool can be operated from safe distance of 5 Mtrs. There shall be an arrangement for self-alignment off power tool which can be self-supported during operation. Manual handle shall be provided for hand operation of the winches. The capacity rating and speed of the electric motor used in the power tool shall be specified by the tenderers.

LIGHTNING FINIAL & AVIATION OBSTRUCTION LIGHTS:
One number heavy duty hot dip galvanized lighting finial shall be provided for each mast. Suitable Aviation Obstruction Lights of reliable design and reputed manufacturer shall be provided on top of each mast.

Works to be carried out:
The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, taxes tools, plant, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works.

Inspection of Site:
The Contractor shall inspect and examine the Site and its surrounding and shall satisfy himself before submitting his tender as to the nature of the Site, the quantities and nature of works and material necessary for the completion of the Works and the means of access to the Site, the accommodation he may require and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect this tender.

Sufficiency of Tender:
The Contractor shall be deemed to have satisfied himself before tendering as to the Correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall except as otherwise provided, cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the Works.

Inspections and Approval:
All work embracing more than process shall be subject to examination and approval at each stage thereof and the Contractor shall give due notice to the Engineer-in-Charge or his authorized representative when each stage is ready. The Engineer-in-Charge or his representative shall have powers at any time to inspect and examine any part of the Works and the contractor shall give such facilities as may be required for such inspection and examination, at manufacturers works if necessary.
**General**

- The Mast, Foundation and electrical drawing should be approved before commencement of work.
- All safety measures shall be adopted while execute (E & C) the work.
- The bidder must visit the site and access the quantity & material. Even if certain items are not included within the tender, but are essentially required for completion of the job, the bidder have to will do the same without any extra cost.
- All hardware items such as screws, thimbles, G.I. wires etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.

- All hardware materials such as nuts/bolts/screws/washers etc. to be used in the work shall be zinc/cadmium plated iron.

- Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.

- While laying conduit, suitable junction boxes shall be left for pulling the wires.

- Copper wire shall be FRLS PVC insulated multi-stranded conductor. Termination of multi-stranded conductors shall be done using crimping type thimbles at both the ends. Nothing extra shall be paid for the same.

- The makes of material have been indicated in the list of acceptable makes. No other make will be acceptable. The material to be used in the work shall be got approved from the Engineer-in-Charge before its use at site. The Engineer-in-Charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.

- The proof of purchase in the form of Invoice/cash memo, of all the major components such as Cables, Wires, Fittings, MCB DB’s, Geysers, Exhaust fans etc. shall have to be produced by the contractor at the time of final bill or as and when demanded by the deptt.

- Test report of all the XLPE insulated PVC sheathed armoured power cables used at site of work shall have to be submitted by the contractor at the time of submission of final bill.

- Where switches/sockets/telephone outlets are to be provided, the same shall be of only one make.

- The MCB distribution boards shall be factory fabricated in the works of the manufacturer of the MCB’s of any of the makes specified and the same shall be duly pre-wired in the works. The board shall be brought to site in ready for installation condition. The MCBs and the MCB distribution board shall be of the same make.
| **TECHNICAL DATA SHEET FOR 16 MTR HIGH MAST**  
**SUITE FOR 08 LUMINAIRES SYMMETRICAL** |

**High Mast System**  
Make: Bajaj/Havels/GE/Philips/CG/Wipro.  
Height of mast: **16 Meter**,  
No. of sections: Two  
Material construction: **S 355 grade as per BS-EN10 025**  
Base dia. and top diameter (A/F):  
  - Top: 150 mm,  
  - Bottom: 360 mm  
Plate thickness:  
  - Top: 3 mm  
  - Bottom: 4 mm  
Cross section of Mast:  
Standard for galvanisation: As per BS EN ISO 1461  
Size of opening and door at base: **1050 x 225 mm**  
Diameter of base plate: 520 mm to 540 mm  
Thickness of base plate: 25 mm  
Lightning protection finial: G.I single spike  
Max. wind speed: As per IS : 875 (Part - III)  
Number of foundation bolts: As per recommendation of manufacturer  
PCD of foundation bolts: 445 mm to 460 mm  
Type / diameter / length of foundation bolts: TS 600 / 24 mm dia / 850 mm long  

**LUMINAIRES CARRIAGE**  
Material of construction: 40 NB ERW Class B - M. S. Pipe  
Diameter of carriage ring (mm): 450 mm (ID)  
Construction: 8 Arm, Welded, 2 sections  
Load carrying capacity: 8 Luminaire  

**TRAILING CABLE**  
Conductor: Copper, 5 core, 4 sq mm  
Insulation: PVC flexible  
No. of circuits per mast: One no. cable per mast  

**WINCH / POWER TOOL**  
Type / SWL of winch: Double drum, SWL 350 Kg  
Method of operation: Integral Motor and hand operate  
Motor capacity: As per stander requirement  
No of speeds: 6 Pole, Single speed  
Torque limitor: With mechanical tripping facility  

**STAINLESS STEEL WIRE ROPE**  
Grade / construction: AISI 304, 7/19 construction  
Number of ropes: Two Continuous  
Diameter (mm): 5 mm  
Breaking Load capacity: 1150 kg x 2
### LED LUMINAIRE DETAILS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LED Fitting Make</td>
<td>Bajaj Electricals ltd /Havels/GE/Philips/CG</td>
</tr>
<tr>
<td>2</td>
<td>Model No</td>
<td>250 W LED</td>
</tr>
<tr>
<td>3</td>
<td>Wattage ( System )</td>
<td>250 W</td>
</tr>
<tr>
<td>4</td>
<td>Voltage - AC Input Voltage Range ( V )</td>
<td>140-300V</td>
</tr>
<tr>
<td>5</td>
<td>Operating Frequency Range ( Hz )</td>
<td>50 HZ</td>
</tr>
<tr>
<td>6</td>
<td>Total Harmonic Distortion (%)</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>7</td>
<td>Lumen ( Luminous Flux )</td>
<td>28158 lm</td>
</tr>
<tr>
<td>8</td>
<td>Housing/ Body</td>
<td>Pressure die cast housing</td>
</tr>
<tr>
<td>9</td>
<td>Cooling System</td>
<td>Unique heat sink for thermal management</td>
</tr>
<tr>
<td>10</td>
<td>Protection Level</td>
<td>IP 66</td>
</tr>
<tr>
<td>11</td>
<td>Electrical insulation class</td>
<td>Class-1</td>
</tr>
<tr>
<td>12</td>
<td>Surge Protection differential level</td>
<td>5 KV internal and 10 KV external</td>
</tr>
<tr>
<td>13</td>
<td>Electrical Protection</td>
<td>Fuse / Short Circuit / Open load protection / High Voltage protection / Reverse Polarity</td>
</tr>
<tr>
<td>14</td>
<td>Front cover</td>
<td>Toughened Glass 4 mm thick</td>
</tr>
<tr>
<td>15</td>
<td>Ambient Temperature</td>
<td>0 deg C to 50 deg C</td>
</tr>
<tr>
<td>16</td>
<td>Protection against Mechanical shocks</td>
<td>IK07</td>
</tr>
<tr>
<td>17</td>
<td>Luminaire</td>
<td>Shall conform to LM-79 Test</td>
</tr>
</tbody>
</table>

### LED CHIP DETAILS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Led Make</td>
<td>LM 80 certified LED chip (e.g. CREE/Equivalent)</td>
</tr>
<tr>
<td>2</td>
<td>Type of LED</td>
<td>High Power</td>
</tr>
<tr>
<td>3</td>
<td>Co-related Colour Temperature</td>
<td>5700 K</td>
</tr>
<tr>
<td>4</td>
<td>Luminous Efficacy ( Lm/W )</td>
<td>≥95</td>
</tr>
<tr>
<td>5</td>
<td>Colour Appearance</td>
<td>Cool white</td>
</tr>
<tr>
<td>6</td>
<td>CRI</td>
<td>Typical 70</td>
</tr>
<tr>
<td>7</td>
<td>Optical assembly</td>
<td>Structured LED with secondary lens designed for optimum light Distribution</td>
</tr>
<tr>
<td>8</td>
<td>LED</td>
<td>Shall conform to LM - 80</td>
</tr>
</tbody>
</table>

### ELECTRONIC DRIVER DETAILS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LED Driver</td>
<td>Constant current LED driver</td>
</tr>
<tr>
<td>2</td>
<td>Specification</td>
<td>140-300 V, internal surge protection of 5KV</td>
</tr>
<tr>
<td>3</td>
<td>LED Drive Current</td>
<td>700 mA +/- 3%</td>
</tr>
<tr>
<td>4</td>
<td>High voltage protection</td>
<td>Auto Cut off 300 VAC</td>
</tr>
<tr>
<td>5</td>
<td>Driver Efficiency</td>
<td>≥ 85%</td>
</tr>
<tr>
<td>6</td>
<td>Power Factor</td>
<td>≥ 0.95</td>
</tr>
<tr>
<td>7</td>
<td>THD</td>
<td>&lt; 10%</td>
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</table>

### OTHER DETAILS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Driver</td>
<td>Shall compliance to safety requirements in IEC : 61347-2-13 and as per IEC : 62384</td>
</tr>
<tr>
<td>2</td>
<td>LED</td>
<td>Shall compliance to safety requirements in IEC : 62471 &amp; ANSI Standard C78.377 A</td>
</tr>
<tr>
<td>3</td>
<td>Photo biological safety report</td>
<td>As per IEC 62471</td>
</tr>
<tr>
<td>4</td>
<td>Impact resistant</td>
<td>IK-07</td>
</tr>
<tr>
<td>5</td>
<td>Warranty</td>
<td>2 years from the date of take over by AIIMS</td>
</tr>
<tr>
<td>6</td>
<td>Acceptable brands</td>
<td>Bajaj Electricals ltd /Havels/GE/Philips/CG</td>
</tr>
<tr>
<td>S.No</td>
<td>Item Description</td>
<td>Unit</td>
</tr>
<tr>
<td>------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>1</td>
<td>Supply of 16Mtr High Mast with minimum Top dia 150mm, Bottom dia 360mm, Base Plat 540mm &amp; PCD 460mm, Polygonal, Tapered, Flange mounted type, Totally Hot Dip Galvanized and suitable for wind velocity as per IS 875 Part 3. The mast shaft shall be in Two sections with no circumferential weld and shall be stress fitted at site. Supply of accessories for 16Mtr High Mast which includes head frame, lighting arrestor, steel wire rope, winch, power trailing cable, Integral power tool, foundation bolts with nuts, washers, suitable size anchor plate, templates, galvanized lantern carriage suitable for High-mast mounting 8nos. Luminaires. (250W-LFPI) Fittings. MAKE: - “Crompton/ Wipro/ Philips/Bajaj”</td>
<td>set</td>
</tr>
<tr>
<td>2</td>
<td>Supply of integral LED Flood light Luminaires, comprises of elegantly designed highly efficient, pressure die-cast aluminium housing with fins for better heat dissipation and heat resistant &amp; toughened glass cover, THD&lt;10%, &gt;25000Lumen (&gt;105Lm/watt) &amp; Colour temperature is 5700K +300K, External SPD-5KV, with Flag indication “R” nos &amp; inbuilt 4.5kv SPD in Potted driver. IP-66 protection fitting Bearing Cat.Ref. LFLPI-250-CDL/60. MAKE: - “Crompton/Wipro/Philips/Bajaj or Equivalent model</td>
<td>set</td>
</tr>
<tr>
<td>3</td>
<td>Design, casting of suitable open raft shallow RCC foundation suitable considering safe soil bearing capacity of 10 T/sqmtr at the depth of 1.5 mtr below ground level.</td>
<td>job</td>
</tr>
<tr>
<td>4</td>
<td>Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.</td>
<td>Set</td>
</tr>
</tbody>
</table>
| 5    | Feeder Pillar: IP 66  
Each mast shall be provided with a feeder pillar fabricated out of 14 SWG CRCA sheet and finished with two coats of red oxide primer and powder coated paint. The feeder pillar shall comprise of incoming TPN MCB of suitable current rating, incoming / outgoing terminals and control for the power motor. Feeder pillar shall be mounted near to the mast. Suitable digital timer of reputed make, with necessary contactors, wiring etc. For ON/OFF automatic / manual and photovoltaic cell/ automatic timer with all accessories for control of the lamps should be provided and connected in the circuit.  
Note: Rating & Capacity of all accessories should be as per High Mast manufacture recommendations) | job  | 5   |      |        |
<p>| 6    | Erection, Commissioning &amp; Supervision of above High Mast Lighting System including wiring &amp; fixing of Luminaire with modern engineering practices                                                                                                                                  | job  | 5   |      |        |
| 7    | LED Aviation light with necessary wiring and control switches as per High Mast manufacture recommendations                                                                                                                                                                                                                                                                  | set  | 5   |      |        |
| 8    | Supply of 3.5Cx50 Sqmm Aluminium armoured cable                                                                                                                                                                                                                                                                                                                                                                                                   | Meter| 300 |      |        |
| 9    | Supply of 3.5Cx25 Sqmm Aluminium armoured cable                                                                                                                                                                                                                                                                                                                                                                                                     | Meter| 200 |      |        |
| 10   | Supply of 4Cx16 Sqmm Aluminium armoured cable                                                                                                                                                                                                                                                                                                                                                                                                       | Meter| 800 |      |        |
| 11   | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.                                                                                                                                                                                                 | Meter| 1000|      |        |
| 11.1 | Upto 35 sq. Mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Meter| 300 |      |        |
| 11.2 | Above 35 sq. mm and upto 95 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Meter| 300 |      |        |</p>
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<tr>
<td>12</td>
<td>Supply and laying of DWC Pipe 90 mm outer dia under road/RCC using trench less technology complete all as directed.</td>
<td>Meter</td>
<td>100</td>
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<tr>
<td>13</td>
<td>Supply, installation, commissioning and testing of feeder pillar/LT panel board Kiosk type, LT (415 Volts, 50 Hz, 3-phase, 4 wire system) floor mounted, factory assembled, outdoor type weather and vermin proof made out of 2.00 mm thick CRCA sheet with both side openable and front hinged opening on 40x40x6 mm angle iron frame, rubber lining/neoprene gasket, locking arrangement, handles painted externally and internally with two coats of synthetic enamel powder coated paint as approved shades First Quality over a coat of red oxide primer complete comprising of following :- Cable entry (Incoming &amp; out going) – from bottom with cable gland and Aluminium busbar with insulating heat shrinkable sleeve rating 300 amps - 4 strip.</td>
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| 13.1 | Incoming – MCCB 200 Amps FP 25 KA, 415 Volts, 50Hz- 1 No
Outgoing - (a) 100 Amps MCCB TPN 25 KA, 415 Volts, 50Hz- 01 No (b) 63 Amps MCCB FP 16 KA 415 Volts 50 Hz - 02 Nos
(c) 32 Amps MCB TPN 10 KA, 415 Volts, 50 Hz - 01 Nos
(d) 16 Amps MCB DP 10 KA, 240 Volts, 50Hz - 02 Nos
(e) Digital voltmeter (size- 96x96 mm) 0-500 volts with selector switch - 01 No
(f) Digital type ammeter (size - 96x96 mm) with selector switch including CT 3X (200/5 amp) with all connection - 1 No (g) LED Indicating lamp RYB - 01 Set
Note:- (i) Excavation & earth work required for taking out cable of any length & re- laying cable all terminal/bare conductor duly insulated of existing cable with heat shrinkable sleeve 1.1 KV grade. (ii) Platform for the feeder pillar board with PCC 1:3:6 15 Cm thick in foundation, Brick (Sub Class B) in CM 1:6, rendering 1:6 on exposed surfaces and 100 mm thick PCC 1:3:6 type C1 using 20 mm graded stone aggregate as in padding on top and grouting blots etc for panel. The platform shall be of 300 mm height above ground level and of adequate size leaving minimum 300 mm all around the feeder pillar board for movements. (iii) The LT feeder pillar shall be made to accommodate the following switch gear MCCBs. Make for MCCB’s ABB T Max/Schneider NSX/SIEMENS 3 VL/Legrand M & L Erection Of square Chain link fencing all arrangement of H.M. Pole approx. size 2x2x1.5 mtr height made out 32x3mm MS flat of 3 mm dia Gi wire, fixed on angle Iron 40x40x6 mm upto fancing height and having provision of entry gate with locking arrangement, all specified and directed by Engineer in charge including painting & grouting the portion ground with PCC 1:2:4 etc complete. | Job | 3 |
| 14 |   | Job | 5 |
| Total |   |   |   |