



## N I T

<b>NIT No</b>	<b>:</b>	<b>128 /EE/ED-12/DDA/2012-13</b> <b>CE(E)/SE(E)P/2012-13/01</b>
<b>Name of Work</b>	<b>:</b>	<b>D/o Parks &amp; Green for providing lighting under South Zone</b>
<b>SH</b>	<b>:</b>	<b>Providing Path Lighting in Parks as per Annexure -3</b>
<b>Estimated Cost</b>	<b>:</b>	<b>Rs.2,92,07,683/-</b>
<b>Earnest Money</b>	<b>:</b>	<b>Rs.5,84,154/-</b>
<b>Time Allowed</b>	<b>:</b>	<b>3 months</b>
<b>Cost of tender</b>	<b>:</b>	<b>Rs.1500.00</b>
<b>Security Deposit</b>	<b>:</b>	<b>5% of tendered amount</b>
<b>Performance Guarantee</b>	<b>:</b>	<b>5% of tendered amount</b>
<b>Certified that this NIT contains pages 1 to 174</b> <b>(One to One Hundred &amp; Seventy Four Only)</b>		

## **INDEX**

<b>S. No</b>	<b>Description</b>	<b>Page</b>
<b>1</b>	<b>General Guidelines</b>	<b>1</b>
<b>2</b>	<b>Notice Inviting Tender Form for (E-Tendering Mode)</b>	<b>2</b>
<b>3</b>	<b>Item rate tender and contract form</b>	<b>7</b>
<b>4</b>	<b>General Rules and Directions</b>	<b>10</b>
<b>5.</b>	<b>Important instructions for Executive Engineers for E-Tendering</b>	<b>15</b>
<b>6</b>	<b>Instructions to the Executive Engineer by NIT approving authority forming part of NIT &amp; not to be posted on website.</b>	<b>23-24</b>
<b>7</b>	<b>Information &amp; instructions for contractors for e-Tendering forming part of NIT and to be posted on website</b>	<b>25-26</b>
<b>8</b>	<b>Information &amp; instructions for contractor for E-tendering forming part of NIT and to be posted on website (Annexure-I)</b>	<b>27-30</b>
<b>9</b>	<b>Schedule of Work</b>	<b>31-32</b>
<b>10</b>	<b>Additional terms &amp; conditions</b>	<b>33-34</b>
<b>11</b>	<b>Technical specifications</b>	<b>---</b>
<b>12</b>	<b>List of approved makes</b>	<b>---</b>
<b>13</b>	<b>Drawings</b>	<b>--</b>
<b>14</b>	<b>Conditions of Contract</b>	<b>35-38</b>
<b>15</b>	<b>Clauses of Contract</b>	<b>39-112</b>
<b>16</b>	<b>Safety Code</b>	<b>113-119</b>
<b>17</b>	<b>Model Rules for protection of health &amp; sanitary arrangements for workers employed by DDA or its contractors</b>	<b>120-126</b>

<b>18</b>	<b>Contractor's Labour Regulations</b>	<b>127-136</b>
<b>19</b>	<b>Appendix-I to XV</b>	<b>137-152</b>
<b>20</b>	<b>Schedule A to F</b>	<b>153-156</b>
<b>21</b>	<b>Table of Milestone(s)</b>	<b>157</b>
<b>22</b>	<b>Requirement of technical staff for work in compliance of clause 36 (i)</b>	<b>158-159</b>
<b>23</b>	<b>Form of Performance Guarantee Bank Guarantee Bond</b>	<b>160-161</b>
<b>24</b>	<b>Bank Guarantee form of Earnest Money</b>	<b>162</b>

### **GENERAL GUIDELINES**

1. This standard document is applicable to Item rate tenders.
2. NIT Form, Schedules A to F, special conditions/specifications and drawings only will be uploaded on website. The standard document will not be uploaded along with the Tender Documents but the same shall form part of the agreement to be drawn and signed by both parties after acceptance of tender.
3. All blanks are confined to Notice Inviting Tender (NIT) Form and Schedules A to F.
4. Authority approving the Notice Inviting Tenders (NIT) shall fill up all the blanks in NIT Form and in Schedules B to F before issue.
5. The intending bidders will quote their rates in Schedule A.
6. The proforma for registers and Schedules A to F are only for information and guidance. These are not to be filled in the Standard Form. The Schedules with all blanks, duly filled, shall be separately uploaded on website.
7. Base price of all materials covered under Clause 10 CA is to be mentioned at the time of approval of NIT.

**Note: This page shall not form part of the tender document and not to be uploaded on website.**

## **NOTICE INVITING TENDER**

### **For General Work**

#### **(E – TENDERING MODE)**

Item rate tenders are invited on behalf of Delhi Development Authority from approved and eligible contractors of DDA & CPWD and those of enlisted contractors of appropriate class of MES, BSNL, Railway (strike out as the case may be) dealing with E/M works for the following work :-

Name of Work	:	<b>D/o Parks &amp; Green for providing lighting under South Zone</b>
SH	:	<b>Providing Path Lighting in Parks as per Annexure -3</b>

- 1 The enlistment of the contractors should be valid on the last date of submission of tenders. In case the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.
- 2 The work is estimated to cost **Rs.2,92,07,683/-** This estimate, however, is given merely as rough guide.
- 3 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.
- 4 Agreement shall be drawn with successful tenderer on prescribed form attached. Tenderer shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
- 5 The time allowed for carrying out the work will be **3 months** from the date of start as defined in Schedule F or from the first date of handing over the site, Which ever is later, in accordance with the phasing, if any, indicated in the tender documents.
- 6 The site for the work is available or as specified in the additional conditions attached.
- 7 The tender document consisting of 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.tenderwizard.com/DDA](http://www.tenderwizard.com/DDA) or [www.dda.org.in](http://www.dda.org.in).

- 8 Earnest money and cost of tender shall be deposited through RTGS/NEFT in the account of Sr. A.O., CAU (Dwarka) DDA having account no. 1290300366 with Central Bank Of India, Manglapuri, New Delhi branch (IFSC code CBIN0283498). The unique transaction reference of RTGS/NEFT shall have to be uploaded by the tenderer in the e-tendering system by the prescribed date. The Executive Engineer concerned will get tender cost/earnest money verified from CAU based on the unique transaction reference number against from each RTGS/NEFT payment before the tenders are opened.

A Part of earnest money is acceptance in the form of bank guarantee also. Earnest Money up to Rs. 20.00 lacs will have to be deposited through RTGS/NEFT mode. If the amount of E.M. is more than Rs. 20.00 lacs then the amount of E.M. beyond Rs. 20.00 lacs can be deposited in the form of Bank Guarantee also. Such Bank guarantee is to be scanned and uploaded to the e-tendering website within the period of tender submission.

- Earnest money and cost of tender have to be deposited through separate transactions.
- (i) Cost of Tender Document: Rs.1500.00 + DVAT @ 5% (to be deposited through RTGS/NEFT in the account of the Sr. A.O. (CAU) of Dwarka.
- (ii) E-Tendering Processing Fee: **Rs.11236/-** (to be deposited through E-Mode of ITI Limited in favour of M/s ITI Limited payable at Delhi).

The unique transaction reference of RTGS/NEFT against EMD, Cost of Tender Document and Bank Guarantee shall be placed in single sealed envelope superscripted as “Earnest Money, Cost of Tender Documents” with name of work and due date of opening of the bid mentioned thereon and will submit to tender opening Authority by...14.12.2012.

- 9 Copy of Enlistment Order and other documents as specified in the press notice shall be scanned and uploaded to the e-tendering website within the period of tender submission and certified copy of each shall be deposited in a separate envelope marked as **"Other Documents"**.
- 10 Both the envelopes shall be placed in another envelope with due mention of Name of work, date & time of opening of tenders and to be submitted in the office of Executive Engineer during the period mentioned above.

- 11 Online tender documents submitted by intending bidders shall be opened only of those bidders, whose Earnest Money Deposit, Cost of Tender Document and e-Tender Processing Fee and other documents placed in the envelope are found in order.  
The bid submitted shall be opened at 03:30 pm on 18.12.2012.
- 12 The contractor, whose tender is accepted, will be required to furnish performance guarantee of 5 % (Five percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs 10,000/-) or Deposit at call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand draft of any scheduled bank/Pay order of any scheduled bank (in case guarantee amount is less than Rs. 1, 00,000) or Government securities or fixed Deposit Receipts or Guarantee Bonds of any Scheduled bank or the State Bank of India in accordance with the prescribed form.
- 13 Intending Tenderers 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 tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer 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 document. Submission of a tender by tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant etc will be issued to him by the government and local conditions and other factors having a bearing on the execution of the work.
- 14 The competent authority on behalf of DDA does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without assigning any reason. All tenders 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

- 15 Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
- 16 The competent authority on behalf of DDA 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.
- 17 The contractor shall not be permitted to tender for works in the DDA Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives of any Gazetted officer in DDA or in the Ministry of Urban development. Any breach of this condition by the contractor would render him liable to be removed from approved list of contractors of this department.
- 18 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 the 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 anytime to be such a person who had not obtained the permission of the DDA as aforesaid before submission of the tender or engagement in the contractor's service.
- 19 The tender for the work shall remain open for acceptance for a period of ninety (90) days from the date of opening of tender/ninety days from the date of opening of financial bid(strike out as the case may be). If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of tender which are not acceptable to the department, then the DDA shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the re tendering process of the work.
- 20 This 'Notice Inviting Tender' shall form part of the contract document. The successful tenderer/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 tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
  - b) Standard NIT Form 8 or other Standard DDA Form as mentioned.
- 21 In case any discrepancy is noticed between the document as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Executive Engineer, then the bid submitted shall become invalid and 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 tenderer shall not be allowed to participate in the retendering process of the work.

**AE (E) P**

**EE(E)P**

**SE(E)P**

**CE (E)**

**ITEM RATE TENDER AND CONTRACT FORM**

**(for general works)**

Name of Work	:	<b>D/o Parks &amp; Green for providing lighting under South Zone</b>
SH	:	<b>Providing Path Lighting in Parks as per Annexure -3</b>

- i) To be submitted through E-Tendering up to 3.00 pm on \_\_\_\_\*\_\_\_\_ to Executive Engineer, Electrical Division No.-12
- ii) To be opened through E-Tendering at 3.30 pm on \_\_\_\_\*\_\_\_\_ by the Executive Engineer, Electrical Division No.-12

**T E N D E R**

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

I/We hereby tender for the execution of the work specified for the DDA within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects 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 clauses 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 date of opening of financial bid and not to make any modifications in its terms & conditions.

A sum of **Rs.5,92,07,683/-** deposited in the account of Sr.A.O, CAU(Dwarka) DDA is hereby forwarded in form of UTR of RTGS / NEFT /Bank Guarantee beyond 20 Lacs 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 DDA 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 DDA or its 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, otherwise the said earnest money shall be retained by him towards security deposit to execute

all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up to maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of earnest money or both Earnest Money & 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 there from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Signature of witness

Name:

Address:

Signature of contactor

Name:

Address:

Occupation:

### **A C C E P T A N C E**

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

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

- i)
- ii)
- iii)

For & on behalf of Delhi Development Authority

Signature \_\_\_\_\_

Designation: Executive Engineer

Electrical Division No.-12

### GENERAL RULES AND DIRECTIONS

1. All work proposed for execution by contract will be notified in a form of invitation to tender pasted in public places & signed by the officer inviting tender or by publication in News paper as the case may be.

This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited along with tender, the Performance Guarantee to be deposited by the successful agency / contractor and the amount of security deposit to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.

2. In the event of the tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.
3. Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm.
4. Any person who submits a tender shall fill up the Schedule of Quantities, stating at what rate he is willing to undertake each item of the work. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any

sort, including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works which they refer, written on the envelopes.

5. The officer inviting tender or his duly authorized representatives will open tenders and will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money shall be thereupon be given to the contractor who shall thereupon for the purpose of identification of copies of the specifications and other documents mentioned in Rule-1 In the event of a tender being rejected, the earnest money shall thereupon be returned to the contractor remitting the same, without any interest.
6. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.
7. The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgement or payment to the officer inviting tender and the contractor shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorized Cashier.
8. The memorandum of work tendered for and the schedule of materials to be supplied by the department and their issue-rates, shall be filled and completed in the office of the officer inviting tender before the tender form is uploaded. If a form is uploaded on website without having been so filled in and incomplete, he shall request the officer to have this done before he completes his tender.
9. The tenderers shall sign a declaration under the officials Secret Act 1923, for maintaining secrecy of the tender documents, drawings or other records connected with the work given to them. The unsuccessful tenderer(s) shall return all the drawings given to them.
10. In the Item Rate Tenders only rates quoted shall be considered. Any tender containing percentage below/ above the rates quoted is liable to be rejected. Rates

quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.

11. In the case of any tender where unit rate of any item/ items appear unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender is liable to be disqualified and rejected.
12. All rates shall be filled in tender form. The amount for each item should be worked out and requisite totals given. Special care should be taken to write the rates in figures as well as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word 'Rs.' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs.2.15 P' and in case of words, the word, 'Rupees' should precede and the word 'Paise' should be written at the end. Unless the rate is in whole rupees and followed by the word 'only' it should invariably be up to two decimal places. While quoting the rate in schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.

13(i) The contractor whose tender is accepted will be required to furnish performance guarantee of 5% (five percent) of the tendered amount within the period specified scheduled F. This guarantee shall be in the form of cash (in case guarantee

amount is less than Rs 10,000/-) or deposit at call received of any scheduled bank/Banker's cheque of any scheduled bank/ Demand Draft of any scheduled bank/pay order of any scheduled any bank (in case guarantee amount than Rs 1,00,000/-) or Govt. securities fixed deposit receipts or guarantee bonds of any scheduled bank or the state Bank of India in accordance with the prescribed form.

- (ii) The contractor whose tender is accepted, will also be required to furnish by way of security Deposit for the fulfillment of his contract, an amount equal to 5% of the tendered value of work. The security deposit will be collected by deductions from the running bills of the contractor at the rates mentioned above and the earnest money deposited at the time of the tenders , will be treated as part of the security deposit . The security deposit will also accepted in cash or in the shape of government securities. Fixed deposit receipt of a Scheduled bank or State Bank of India will also be accepted for this purpose provided conformity advice is enclosed.

14. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.

15. Sales-Tax / VAT (Except Service Tax) Purchase Tax, Turnover Tax or any other tax on material in respect of this contract shall be payable by the Contractor and DDA will not entertain any claim whatsoever in respect of the same. However, in respect of service tax, same shall be paid by the contractor to the concerned department on demand and it will be reimbursed to him by the Engineer-in-Charge after satisfying that it has been actually and genuinely paid by the contractor.

16. The contractor shall give a list of both gazetted and non-gazetted DDA employees related to him.

17. The tender for the work shall not be witnessed by a contractor or contractors who himself/ themselves have/ have tendered or who may has/ have tendered for the same

work. Failure to observe this condition would render, tenders of the contractors tendering, as well as witnessing the tender, liable to summary rejection.

18. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the DDA may in his discretion, without prejudice to any other right or remedy available in law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

**AE (E) P**

**EE(E)P**

**SE(E)P**

**CE (E)**



### **Important Instructions for Executive Engineers for E-Tendering**

1. All the Executive Engineers in Divisions, AE (P) in Divisions and Divisional Accountant shall have to obtain digital signature from authorized certifying authorities viz. NIC, MTNL, e-Mudhra, TCS, Safescrypt, GNFC etc.
2. Any intending bidder has to get himself registered with the ITI Limited through their website [www.tenderwizard.com/DDA](http://www.tenderwizard.com/DDA) before submission of bid.
3. All the documents such as NIT including Information and Instructions for contractors, all the conditions of NIT, Schedule of Quantities, Drawings and other documents shall be uploaded at onetime.
4. The Tender Document as uploaded can be viewed by intending bidder free of cost. But the bid can only be submitted after uploading the mandatory scanned documents such as Demand Draft/Pay order or Banker's Cheque /Bank Guarantee of any Scheduled Bank towards cost of tender document, and EMD in favour of **Sr. A.O.(CAU) Dwarka and Bank Guarantee in favour of Executive Engineer(E),Electrical Division-12**, if any, and Processing Fee in favour of ITI Limited.
5. NIT approving authority has to categorically specify the period during which EMD; cost of tender document, e-tender processing fee and other documents shall be submitted in the office of Executive Engineer by the intending bidder after submission of his/their bid. The documents mentioned above should be submitted up to the time and date as mentioned in the NIT for which time of 1 working day may be allowed after last time and date of submission of bid for the purpose of verification of documents and to determine eligibility of contractors before opening of bids. This period may be increased by NIT approving authority as per requirement.
6. NIT approving authority has also to specify the time and date of opening of tender. Generally a time of 3 working days after last date and time of submission of bid would be enough to receive and verify the documents submitted by the intending

bidder. However NIT approving authority may vary this period of 3 days as per requirement.

7. The list of documents to be scanned and uploaded by the intending bidder shall be clearly mentioned under Information and Instructions for contractors.
8. The sample Press Notice to be published in newspapers and the Information and Instructions for contractors to be attached in NIT are annexed separately. The Information and Instructions for contractors to be attached in NIT may be modified suitably as per requirement if found necessary by the NIT approving authority.
9. Executive Engineer will send soft copy of the upcoming tender regularly on respective E-mail ID Zone-wise for processing as per details given below:  
  
ddasouthzone@gmail.com  
ddaeastzone@gmail.com  
ddanorthzone@gmail.com  
ddarohinizone@gmail.com  
ddadwarkazone@gmail.com  
ddahortzone@gmail.com
10. Time limit for publicity of tenders shall be as per the provisions of Para 17.5 of CPWD Works Manual 2010.
11. To draw agreement EE shall download the tender document as uploaded with duly filled schedule of quantities. Contractor's negotiation letter and other relevant letters written by the contractor such as extending the validity of tenders etc. and Standard GCC for DDA works - 2010 (Form 7 or Form 8) or other Standard GCC on Form 9,10,11,11A and 12 etc. as the case may be, shall form part of agreement.
12. Hard copies of documents as submitted physically by the contractor shall be compared with the documents uploaded at the time of submission of bid. In case of any discrepancy noticed, the tender shall become invalid and further necessary action to be taken as per the provisions contained in e-Tendering NIT.

13. NIT approving authority may issue any specific instructions to the Executive Engineer as per requirement.

**Instructions to the Executive Engineer by NIT approving authority forming part of NIT & not to be posted on website**

The Executive Engineer shall attend to the following points before uploading the tender document on website.

- (i) Any discrepancy in the approved NIT, if noticed, shall immediately be brought to the notice of the Officer preparing NIT for necessary decision of the officer approving the NIT.
- (ii) All blanks marked as ‘\*’ shall be filled in by the Executive Engineer/Deputy Director (Horticulture) before uploading the tender on the website.
- (iii) The tender documents should properly be page numbered by the Executive Engineer/Deputy Director (Horticulture) before uploading the tender on website.
- (iv) The Executive Engineer/Deputy Director (Horticulture) to ensure that tender document is clearly readable.
- (v) The references to Standing Order numbers indicated in the correction slips and cross- references shall not appear in the tender uploaded on the website.
- (vi) The drawings relating to work shall be made available to the contractors for their study and understanding the scope of work covered by this tender.
- (vii) Executive Engineer/ Deputy Director (Horticulture) shall delete clause 31A regarding water supply, if so required.
- (viii) Requirement of registration and other eligibility criteria shall be suitably incorporated in the Press Notice by the Executive Engineer/Deputy Director (Horticulture) / NIT approving authority before issue.
- (ix) All codal provisions may be attended to before call of tenders.

**INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR  
e- TENDERING FORMING PART OF NIT AND TO BE POSTED ON  
WEBSITE**

1. In case of e-tendering the entire NIT along with all necessary documents is to be uploaded which can be viewed by the intending bidder free of cost. Therefore, the existing form of Press Notice has been modified **since it is no more to be published in news papers** and named as information and instructions for Contractors which will form part of NIT and to be uploaded on ITI website.
2. Draft information and instructions for Contractors for e-tendering inviting open tenders is enclosed as Annexure - I. ( for general work)
3. The Draft information and instructions for Contractors for e-tendering where tenders are to be invited on two bid system are enclosed as Annexure - II.( for specialized work)
4. The Draft information and instructions to Contractors may be modified suitably by NIT approving authority as per requirement.

**AE (E) P**

**EE(E)P**

**SE(E)P**

**CE (E)**

## **For General Works**

### **INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE**

**(Applicable for inviting open tenders)**

The Executive Engineer (E), Electrical Division No. 12 on behalf of Delhi Development Authority invites online Item rate tenders from approved and eligible contractors of DDA, CPWD and those of enlisted contractors of appropriate class of M.E.S., BSNL, Railway for the following work.

<b>NIT No.</b>	<b>:</b>	<b>128 /EE/ED-12/DDA/2012-13</b>
<b>Name of Work</b>	<b>:</b>	<b>D/o Parks &amp; Green for providing lighting under South Zone</b>
<b>Sub Head</b>	<b>:</b>	<b>Providing Path Lighting in Parks as per Annexure -3</b>
<b>Estimated Cost put to tender</b>	<b>:</b>	<b>Rs.2,92,07,683/-</b>
<b>Earnest Money</b>	<b>:</b>	<b>Rs.5,84,154/-</b>
<b>Period of Completion</b>	<b>:</b>	<b>3 months</b>
<b>Date of Commencement of e-tender</b>	<b>:</b>	<b>2311.2012</b>
<b>Last date &amp; time of requisition of application of e-tender</b>	<b>:</b>	<b>13.12.2012 3.00 PM</b>
<b>Last date of submission of cost of tender, EMD &amp; e-tender processing fee</b>	<b>:</b>	<b>13.12.2012 3.00 PM</b>
<b>Date of Pre-Bid</b>	<b>:</b>	<b>05.12.2012 at 12.00 AM in the office of the CE(EI) D-4, Vasant Kunj, New Delhi</b>
<b>Last date of scanning &amp; uploading UTR of RTGS / NEFT against cost of tender, EMD &amp; other documents</b>	<b>:</b>	<b>13.12.2012 3.00 PM</b>
<b>Last date &amp; time for submission of e-tender</b>		<b>13.12.2012 3.00 PM</b>
<b>Last date &amp; time for submission of certified hard copies of EMD, Cost</b>	<b>:</b>	<b>14.12.2012 3.00 PM</b>

<b>of Tender Document , E-Tender processing Fee &amp; other Documents to Executive Engineer</b>		
<b>Time &amp; date of Opening of tender.</b>	<b>:</b>	<b>18.12.2012 3.30 PM</b>

- 1 The tender 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 from website [www.tenderwizard.com/DDA](http://www.tenderwizard.com/DDA) or [www.dda.org.in](http://www.dda.org.in) free of cost.
- 2 The enlistment of the contractors should be valid on the last date of submission of tenders. In case only the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.
- 3 Those contractors not registered on the website mentioned above, are required to get registered beforehand. The intending bidder must have valid class-II digital signature to submit the bid.
- 4 Earnest money and cost of tender shall be deposited through RTGS/NEFT in the account of **Sr. A.O.,CAU(Dwarka)DDA having account no. 1290300366 with Central Bank Of India, Manglapuri, New Delhi branch (IFSC code CBIN0283498)**. The unique transaction reference of RTGS/NEFT shall have to be uploaded by the tenderer in the e-tendering system by the prescribed date. The Executive Engineer concerned will get tender cost/earnest money verified from CAU based on the unique transaction reference number against from each RTGS/NEFT payment before the tenders are opened.  
A Part of earnest money is acceptance in the form of bank guarantee also. Earnest Money up to Rs. 20.00 lacs will have to be deposited through RTGS/NEFT mode. If the amount of E.M. is more than Rs. 20.00 lacs then the amount of E.M. beyond Rs. 20.00 lacs can be deposited in the form of Bank Guarantee also. Such Bank guarantee is to be scanned and uploaded to the e-tendering website within the period of tender submission.
  - Earnest money and cost of tender have to be deposited through separate transactions.
  - i) Cost of Tender Document: **Rs.1500.00 + DVAT @ 5%** (to be deposited through RTGS/NEFT in the account of the Sr. A.O. (CAU) of Dwarka..
  - ii) E-Tendering Processing Fee: **Rs.11236** /- (to be deposited through E-Mode of ITI Limited in favour of M/s ITI Limited payable at Delhi).

The unique transaction reference of RTGS/NEFT against EMD, Cost of Tender Document and Bank Guarantee shall be placed in single sealed envelope superscripted as “Earnest Money, Cost of Tender Documents” with name of work and due date of opening of the bid mentioned thereon and will submit to tender opening Authority by 14.12.2012.

5. Copy of Enlistment Order and other documents as specified in the press notice shall be scanned and uploaded to the e-tendering website within the period of tender submission and certified copy of each shall be deposited in a separate envelope marked as "**Other Documents**".

Both the envelopes shall be placed in another envelope with due mention of Name of work, date & time of opening of tenders and to be submitted in the office of Executive Engineer during the period mentioned above.

- 6 Online tender documents submitted by intending bidders shall be opened only of those bidders, whose proof of submission of Earnest Money Deposit, Cost of Tender Document and e-Tender Processing Fee and other documents placed in one envelope ( containing envelopes of (**Earnest Money, Cost of Tender Document & Other Documents** ) have been submitted to EE and are found in order.

- 7 **List of Documents to be “scanned and uploaded” within the period of tender submission:**

- i) Enlistment Order of the Contractor.
- ii) Certificate of Registration for Sales Tax / VAT and Service Tax and acknowledgement of up to date filed return.





## DELHI DEVELOPMENT AUTHORITY

**Name of Work : D/o Parks & Green for providing lighting under South Zone**  
**Sub Head: Providing Path Lighting in Parks as per Annexure -3**

### SCHEDULE OF QUANTITIES

S. No.	Description of Item	Qty	Unit	Rate	Rate in words	Amount
	<b>G.I. POLE</b>					
1	<p>Fabrication and installation of 5 mtr. high pole made out of 65 mm dia NB, B class MS pipe ISI marked (IS: 1161) duly welded with MS base plate of size 300 mm x 300 mm x 10 mm thick with suitable earth stud &amp; having protruted 25 mm long 65 mm dia B class pipe (for cable entry &amp; mounting the junction box) as per drawing no. 1 &amp; 4 enclosed.</p> <p>The pole including base plate &amp; protruted pipe shall be hot dip galvanized as per IS:2629 after completion of fabrication (Average thickness of galvanizing shall be 65 Microns). The pole shall be PU painted as per technical specification enclosed in approved colour and shade as decided by Engineer-In-Charge etc. complete as required.</p>	587.00	No.			

2	Supplying & fixing of four sets of 16 mm dia 600 mm long J-type M.S. bolts (threaded portion shall be galvanized) along with 3 nos. G.I. nuts & 2 no. G.I. washers etc. complete as required <b>(for item no 4 of FOUNDATION for pole)</b>	587.00	Set			
3	Supply & fixing of pole connector box made out of Glass Reinforced Polyester Sheet Moulding Compound conforming to IS: 13410-1992 Grade S1 of outside dimensions 230mm(H) x 170mm(W)x 105mm(D) (all the corners of the box should be round & not pointed ones) suitable to mount on 65 mm dia GI pole with following provisions / accessories mounting in box complete as per drawing nos 2 &3 enclosed.	587.00	Set			
i)	2 nos. clamps made out of 19 mm x 3 mm GI strip of suitable length for mounting box on the pole.					
ii)	Water tight front cover with 2 no. stainless steel hinges & 2 nos. screws for tightening & GI U-clamp for closing of cover along with ABS panel lock					
iii)	4 way, 220V, 30A, dough moulded stainless steel terminal connector					
iv)	16 amp. moulded SMC rewirable kit -kat -1 no.					
v)	76 mm dia hole at suitable location on rear wall for cable & wire entry.					
vi)	Earthing bolt M6 x 20 mm					

4	Casting of suitable foundation for pole having nominal concrete mix <b>1:2:4</b> ( 1 cement : 2 coarse sand : 4 coarse aggregate) with pedestal size 400 mm x 400 mm x 1200 mm deep ( <b>Below NGL and above NGL</b> ) as shown in the drawing no 4.The tor steel (grade Fe 415) used in pedestal shall be as below:Pedestal: 12 mm dia, 8 nos. vertical with 10 mm dia rings for @ 200 C/c as binders complete with digging, shuttering & back filling etc. as required.	587.00	Set			
	<b>Note:- 2 nos., 50 mm dia PVC pipes for incoming and outgoing cables shall also be embedded in the foundation with no extra cost.</b>					
	<b>LIGHTING FIXTURE</b>					
5	Supply, installation, testing and commissioning of integral type luminaire provided with poly carbonate <b>prismatic / frosted</b> globe of <b>400 mm diameter (nominal)</b> / <b>as per drawing no 5/ as per drawing no 6 / as per drawing no.7</b> & having die cast aluminium control gear body & having high quality anodized aluminium diffuser with 1x 65 W CFL lamp of SCREW / PIN type with separate electronic ballast with suitable mounting arrangement on 65 mm dia NB G.I. pole etc. complete as required.	587.00	No.			

6	Supply, installation, testing and commissioning of integral type post top luminaire with prismatic polycarbonate conical globe with non-metallic cap & ribs & having die cast aluminium control gear body & having high quality anodized aluminium diffuser as per drawing no.8 enclosed with 65 W CFL lamp of SCREW / PIN type with separate electronic ballast with suitable mounting arrangement at entrance gate / plaza etc complete as required.	48.00	No.			
	<b>FEEDER PILLAR</b>					
7	Supply installation testing and commissioning of floor mounted, totally enclosed, compartmentalized, cubical, dust & vermin proof, <b>IP-54</b> outdoor type feeder pillars (as per drawing no.9 enclosed) internally with following incoming and outgoing feeders including making connections / inter-connections with suitable size of wires, lugs, numbering testing and commissioning etc. complete as required.	25.00	Set			
	1 no. 100 Amp, 25 KA TP & N MCCB -Electromagnetic Type					
	1 no ( 0-500V) 96 mm x 96 mm voltmeter with selector switch					
	1 no ( 0-30A) 96 mm x 96 mm Ammeter with selector switch alongwith CTs					
	1 no. Timer Switch along suitable contactor and MCB , toggle switch for auto / manual					
	Phase Indicating Lamps					
ii)	<b>Bus bar</b>					

	415 Volt, 200A TPN Aluminium Bus bar (neutral shall be of same size as that of phase)				
iii)	<b>Outgoing Feeders</b>				
	10 Nos.32A, 10 KA SP MCB				
	1 no. 20 Amp, SP Industrial Socket				
	<b>CABLES</b>				
8	Supplying of following sizes XLPE insulated & PVC sheathed armoured aluminium LT cable of 1.1 KV grade, conforming to IS 7098 etc. complete as required.				
i)	4 C x 70 Sq. mm	3080.00	Mtr.		
ii)	2 C x 25 Sq. mm	4900.00	Mtr.		
iii)	2 C x 16Sq. mm	38680.00	Mtr.		
9	Supplying & drawing of 3 x 1.5 sq. mm FR PVC insulated copper conductor, single core cable in the existing pole etc. complete as required.	2935.00	Mtr.		
10	Laying of one no. PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size not exceeding 35 sq. mm. direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.	30500.00	Mtr.		

11	Laying of 1 No. PVC insulated and PVC sheathed /XLPE power cable 1.1 K. V. grade of size above 35 sq. mm. and up to 95 sq. mm. direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.	2180.00	Mtr.			
12	Laying of 1 No. additional PVC insulated and PVC sheathed /XLPE power cable 1.1 K. V. grade of size upto 35 sq. mm. direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc. as required.	8700.00	Mtr.			
13	Laying of 1 No. additional PVC insulated and PVC sheathed /XLPE power cable 1.1 K. V. grade of size above <b>35 sq. mm. and up to 95 sq. mm. direct in ground in the same trench</b> in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc. as required.	600.00	Mtr.			
14	Laying of one no. PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size up to 35 sq.mm in the existing RCC / Hume / stone ware / DWC pipe / metal pipe as required.	4380.00	Mtr.			
15	Laying of one no. PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size above 35 sq.mm and up to 95 sq. mm. in the existing RCC/HUME/STONEWARE/ DWC pipe / METAL pipe as required.	300.00	Mtr.			

16	Supplying & laying of 100 mm dia G.I. pipe B class ISI marked (IS: 1239) for road / path crossing in ground at a depth of 1000 mm including excavation & refilling etc. complete as required.	900.00	Mtr.			
17	Construction of brick masonry gully chamber 50 cms x 45 cms x 60 cms with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 fine sand) including 500 mm x 450 mm pre cast RCC horizontal cover with frame complete as per standard design as required.	85.00	Set			
18	Supplying and making end termination with brass compression gland and Al. Lugs for following size of XLPE insulated Al. conductor cable of 1.1 KV grade as required					
i)	4 C x 70 Sq. mm	25.00	No.			
ii)	2 C x 25 Sq. mm / 2 C x 16Sq. mm	105.00	No.			
	<b>G.I. PIPE EARTHING</b>					
19	Earthing with G.I. earth pipe 4.5 mtr. long 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal / coke and salt as required.	140.00	Set			
20	Providing and fixing 6 SWG dia. G.I. Wire on surface or in recess for loop earthing alongwith the existing surface / recessed conduit / sub-main wiring / cable as required.	46660.00	Mtr.			

21	Supplying & laying 25 mm x 5 mm G.I strip at 0.5 mtr. below ground as strip earth electrode, including connection / termination with G.I. nut, bolt, spring washer etc. as required ( jointing shall be done by overlaping and with 2 sets of G.I. nut , bolt and spring washer spacved at 50 m.m. )	450.00	Mtr.			
22	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	310.00	Mtr.			
23	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connection etc. as required.	235.00	Mtr.			
	<b>TOTAL</b>					



## **ADDITIONAL TERMS AND CONDITIONS**

### **General Works**

#### **1. GENERAL**

- 1.1 The contractor must get acquainted with the proposed site for the work and study specifications, conditions and drawings carefully. The work shall be executed in close coordination with the progress of building work.
- 1.2 The work, as indicated in the schedule of work with specification attached herewith including any modification/addition/alteration ordered subsequently, shall be carried out as per the specification indicated below and in the following order of preference.
  - i) Indian Electricity rules 2005 amended up to date.
  - ii) Technical specifications attached
  - iii) Relevant BIS standards as modified up to date.
  - iii) General specifications for Electrical works Part I & II
- 1.3 In case of any conflict - the schedule of work, additional terms and conditions, standard specification & clauses of agreement shall prevail in the preceding order
- 1.4 All equipments shall be delivered with (i) manufacturer's test certificate, (ii) manufacturer's technical catalogues, and instruction (O&M) manuals.
- 1.5 Scaffolding & any other T & P required for execution of work shall be arranged by the tenderers.
- 1.6 For item/equipment requiring initial inspection at manufacturer's works, the contractor will intimate the date of testing of equipments at the manufacturer's works before dispatch. The successful tenderer shall give sufficient advance notice regarding the dates proposed or such tests to the department's representatives to facilitate his presence during testing. The Engineer-in-Charge at his discretion may witness such testing. Equipments will be inspected at the Manufacturer/Authorized Dealers premises, before dispatch to the site by the contractor. The department also reserves the right to inspect the

fabrication job at factory and the successful tenderer has to make the arrangements for the same.

## **2. SCOPE OF WORK**

The following shall be deemed to be included within the scope of work.

- i) All minor building work i/c foundation necessary for installation of equipment, making of opening in walls/floors either RCC or brick masonry and restoring them to original condition and finish.
- ii) Responsibility to ensure safety of materials against pilferage and damage till the installation are handed over to the department.

## **3. WORKS TO BE ARRANGED BY DEPARTMENT**

The departments shall be responsible for the following works only and these are excluded from the responsibility of the contractor.

- a) Free power for installation, testing & commissioning of equipments.
- b) Site for installation.

## **4. SUBMISSION AND OPENING OF TENDERS**

### **4.1 Pre-bid Conference**

It is proposed to hold a pre-bid conference with the prospective tenderers to enable them to seek clarification in the technical specification and in tender documents that they may consider necessary for submission of tenders. All clarification sought for will be finalized during the pre-bid conference and confirmatory minutes for the pre-bid conference will be circulated among all tenderers who have been issued the tender documents. The date and time of pre-bid conference will be informed to the tenderers at the time of issue of the tenders. It is upto the prospective tenderers to take part in the Pre-bid conference. Non attendance of pre bid conference does not debar the prospective tenderer from participating and submission of tender.

- 4.2** The tenderers are advised not to deviate from the technical specifications/ item, commercial terms and conditions of NIT like terms of payment, guarantee, inspection, arbitration clause, escalation etc.

**5. INSPECTION BEFORE DISPATCH**

All routine tests shall be conducted before dispatch of equipments. No equipment shall be dispatched from the manufacture's premises without such tests being conducted and test result recorded. These test certificates shall be given along with the supply of equipments. The Engineer In-charge shall, if he so desires inspect and witness the pre-delivery tests. For this purpose, the contractor shall give 15 days advance information Agency shall arrange for inspection by the department. Department shall bear expenses for inspection as far as traveling and boarding/lodging is concerned .However , waiver if any for inspection shall be at the discretion of the department without any cost implication but TYPE TEST Certificates shall have to be submitted for equipments .

Prior to dispatch, all equipments shall be adequately protected for the whole period of transit, storage and erection against corrosion and incidental damages etc. from the effect of vermin, sunlight, rain, heat and humid climate.

**6. INSURANCE**

The contractor shall include storage cum erection including third party insurance right from the storage to commissioning of various equipment. All insurance which the contractor is required to enter into under the contract shall be affected with any authorized general insurance company and the contractor shall produce the policies of insurance.

**7. REMEDY OF FAILURE TO INSURE**

If the contractor fails to effect and keep in force the insurance referred to in the preceding sub-clause the department may effect and keep in force any such insurance and pay such premium as may be necessary for that purpose and from time to time deduct the amount, so paid by the department, from any money due

or which may become due to successful tenderer or recover the same as debit from the successful tenderer bill.

## **8. SUPPLY OF MATERIAL**

Supply of material shall be phased in such a manner that erection work is not hampered for want of material.

- i) All tools and tackles required for unloading of equipment and erection at site shall be the responsibility of sub-contractor.
- ii) The acceptable makes of various equipments/components/ accessories have been indicated. The alternative makes are not acceptable. Other than these the materials to be used in the site of works shall be ISI marked, where material bearing ISI marked, are not available, material conforming to ISI shall be used with prior approval of the Engineer In-charge.
- (iii) Suitable and open storage accommodation shall be provided by the department free of cost to the agency. However, temporary structure if any required by the contractor for safe and lockable storage of material shall be allowed at his own cost.
- (iv) The department will not be liable for any damage, losses and compensation payable at law in respect of or in consequence of any accident or injury to any person.

Schedule of procurement of material/equipment shall be submitted by successful tenderer within 15 days from the date of award of work. Procurement of material shall be as per the approval of Engineer- in-charge.

## **9. QUALITY OF MATERIAL AND WORKMANSHIP**

All parts of the equipment shall be of such design, size and material so as to function satisfactorily under all rated conditions of operation. All components of the equipments shall have adequate factor of safety. The work of fabrication and assembly shall conform to sound engineering practice and on the basis of

“Fail Safe Design”. The mechanical parts subject to wear and tear shall be easily replaceable type. The construction of the equipments shall be such as to facilitate easy operation, inspection, maintenance and repairs. All connections and contacts shall be designed to minimize risk of accidental short circuits caused by animals, birds and vermin etc. All identical items and their component parts should be completely, interchangeable including spare parts.

#### **10. INSPECTION AND TESTING AT SITE**

- i) The installation shall be subject to necessary inspection during every stage of erection, by the Engineer In-charge or his authorized representative. The successful tenderer shall provide all facilities and assistance for the purpose.
- ii) The completed installation shall be inspected and tested by the Engineer-in-charge in the manner as will be laid down by him, in consultation with the contractor.
- iii) All instruments and facilities necessary for the tests shall be provided by the contractor.

#### **11. COMPLETENESS OF TENDER**

All fittings, equipments, accessories, hardware, foundation bolts, terminal lugs for electric connections, cable glands and items which are necessary for efficient assembly, shall deemed to have been included in the scope of work. The installation shall be completed in all details even where such details have not been mentioned in these specifications.

#### **12. GUARANTEE**

All equipments shall be guaranteed for a period of 12 months from the date of acceptance and taking over of the installation by the Department against unsatisfactory performance and/or breakdown due to defective design, material, manufacture, workmanship or installation. The equipment or component or any part thereof so found defective during the guarantee period shall be repaired or replaced free of cost to the satisfaction of the Engineer in-charge. In case it is felt by the department that undue delay is being caused by the

contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of Engineer-in-charge in this regard shall be final.

### 13. PAYMENT TERMS

The following percentage of contract rates shall be payable against the stages of work shown herein. Deduction/release of security deposit shall be as per standard relevant clause.

S. No.	Stage of Work	Pole, Fixture, Feeder Pillar, Cable
1.	After initial inspection (wherever specified) and delivery at site in good condition on pro rata basis.	85%
2.	After completion of installation in all respect.	10%
3.	After testing commissioning trial run and handing over.	5%

### 14. COMPLETION PLAN & DATA:

- i) The contractor shall give three copies of ***completion plans*** & data as per details below within one month after actual date of completion failing which an amount @ 2.5% of tendered cost subject to maximum of Rs.15,000/- shall be deducted from any amount due to the contractor.
- ii) The contractor shall submit ***completion certificate*** as per relevant CPWD specification of the work within one month after actual date of completion failing which an amount @ 1% of tendered cost subject to maximum of Rs.10,000/- shall be deducted from any amount due to the contractor.

15. Security / Safety of installation shall be the responsibility of agency.

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SE (E)P

## **TECHNICAL SPECIFICATIONS**

### **1. FEEDER PILLAR**

Working drawing of the feeder Pillars, detailed drawing for foundation of Poles shall be submitted for approval from Engineer in Charge.

- i) Feeder pillar shall be of floor mounting, free standing cubical type suitable for outdoor installation and shall be dust, vermin and weather proof construction and as per drawing conforming to IP-54.
- ii) This shall be suitable for continuous operation on 415 Volts (Nominal) 3 Phase, 4-Wire, 50Hz.
- iii) The outer enclosure shall be fabricated from CRCA M.S. sheet. All load bearing members shall be fabricated from 2 mm CRCA M.S. sheet.
- iv) Hinged double door of the same material shall be provided on the front and rear sides, with necessary handles and in built locks with double keys. Neoprene gasket shall be provided for the doors.
- v) Suitable M.S. top cover with suitable slant, overhang shall be provided for protection against rain/weather etc.
- vi) Detachable cable gland plates shall be provided at the bottom having suitable knock out for compression glands. Adequate space shall be provided below the same for safe bending & termination of cables.
- vii) The enclosure shall be provided with ventilation louvers covered with the wire mesh, lifting hooks, supporting legs, double earth terminals with double nuts & washers.
- viii) The internal arrangement shall be compartmentalized for incoming, outgoing switch gears/bus bars & design shall be such as to permit suitable arrangement for incoming & outgoing cables.
- ix) Provision shall be made for lighting inside the feeder pillar.
- x) All incoming and outgoing switch gears shall be properly marked, indicating the connected load, cable sizes, and outgoing connections etc as required.
- xi) The feeder pillar shall be provided with a danger notice plate as per CPWD specification for electrical works part-1 (Internal) 2005.
- xii) Interconnection of the various mountings on the feeder pillar shall be done using PVC insulated conductor or solid strips with PVC taping / sleeving of appropriate sizes. Termination shall be made such that local heating is avoided.

Feeder pillar shall be pre-treated with 7 tank process followed by powder coating.

- xiii) **Foundation:** The coarse sand and stone aggregate for pole foundation should be sound quality, containing siliceous material, clean shape free from earth, organic material and slat, Mixture of concrete shall be stiff & such as to produce sound & compact water proof concrete. It should be free from grit & dirt. After installation of pole & fitting gap between base plate and foundation shall be filled in with grouting.

The firm shall have to provide GI foundation bolts with nuts and washers manufactured from the pole manufacturing company only.

## **2. SMC JUNCTION BOX**

- i) The junction box shall withstand harsh weather, external hazards and internal hazards, having anti-corrosive, dust proof, rust proof, shock proof, vermin and water proofs, U.V. stabilized and pilfer proof features, resistant to high heat and should not deform by flame.
- ii) Junction Box will comply to requirements as given in enclosed drawing.
- iii) Junction Box should be suitable for outdoor use.
- iv) Junction Box should not melt at high temperature.
- v) Material of construction of junction box shall be THERMOSETTING PLASTIC i.e. Glass Reinforced Polyester Sheet Moulding Compound (SMC) as per IS: 13410-1992 and conforming to the requirements of this specification.
- vi) All M.S. parts should be zinc passivated.
- vii) Hinges Shall be made out Anticorrosive Material.
- viii) Junction Box shall comprise of a moulded base and moulded door.
- ix) Thickness of SMC Door / base will be minimum 2 mm.
- x) The door in closed position should be overlapped on collar of base such as to protect electrical item from ingress of external solid, dust and liquid object.
- xi) All the corners of the junction box should be round and not pointed ones.
- xii) Mounting arrangement in side box has to be made as per requirement of electrical item.

### **xiii) Guaranteed technical particular of junction box**

1.	Material	Thermosetting Plastic
2.	Grade of Material	SMC Ref. Standard IS: 13410-1992 Grade 1
3.	Thickness of base / door (Min)	2 mm.

- xiv) T-Spanner of suitable size for every 30 no. junction boxes shall be supplied for which nothing extra shall be paid.

## **3. PROCEDURE FOR PU PAINTING**

- i) Galvanized surface shall be applied a coat of Etch primer followed by rubbing.
- ii) Etched and rubbed surface shall be coated with Epoxy Zinc Phosphate primer and shall be rubbed.



- iii) Subsequently first coat epoxy putty will be applied on the indentions or any other marks on the pole surface so as to fill them and make them even.
- iv) After epoxy putty, second coat of epoxy zinc phosphate primer shall be applied.
- v) After second coat it shall be rubbed and the first coat of PU paint (in approved color / shade) shall be applied.
- vi) After first color coat the second coat of color/clear lacquer shall be applied.
- vii) All the coating shall be done with spray gun.

**AE (E) P**

**EE (E) P**

**SE (E)P**

## **LIST OF APPROVED MAKES**

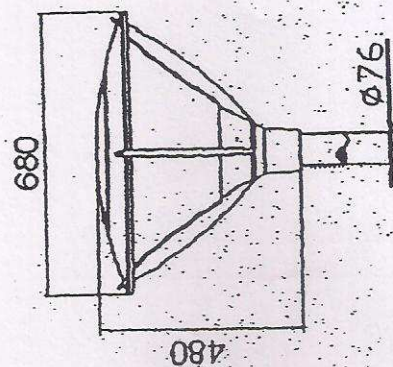
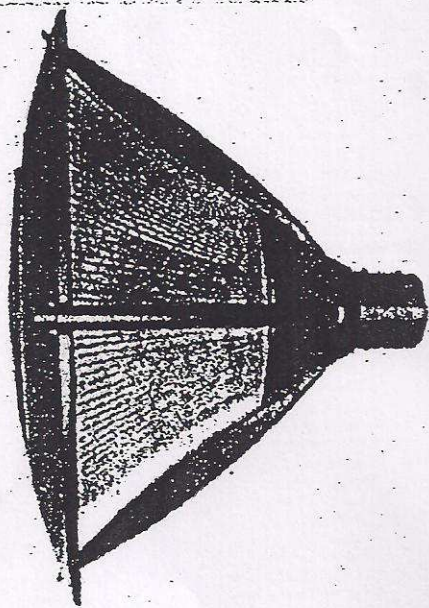
S.NO.	ITEM	MANUFACTURER (BRAND NAME)	
1.	FEEDER PILLAR	:	ADVANCE PANELS & SWITCHGEARS (P) LTD.
		:	TRICOLITE
		:	ASSOCIATED SWITCH GEAR & PROJECTS .LTD.(ASPL)
		:	ADLEC SYSTEMS PVT. LTD.
2.	G.I. Poles	:	Surya
		:	Mastech Technologies Pvt. Ltd.
		:	Vipin ST Poles
		:	Bajaj
3.	MINIATURE CURCUIT BREAKER ( MCB)	:	LEGRAND (LEXIC)
		:	SCHNEIDER (M.G.) MULTI-9
		:	L& T –HAGER
		:	A.B.B.
		:	SIEMENS (BETA GUARD )
4.	LED TYPE INDICATING LAMPS	:	SIEMENS
		:	C & S
		:	A.E.
		:	KAYCEE
5.	L.T.CABLES XLPE INSULATED	:	UNIVERSAL
		:	POLYCAB
		:	KEI
		:	SKYTONE
		:	RALLISON
6.	G.I. Pipe	:	TATA
		:	Jindal (Hissar)
		:	Surya
7.	POLY CARBONATE GLOBE FITTING / External Gate Light	:	Glowmac
		:	Hi-Lite

	Fixture	:	Havells
		:	Lord Jyoti
			Twinkle
			Holomax
			Decon
8.	CFL LAMP	:	OSRAM
		:	PHILIPS
9.	Junction box	:	SINTEX
		:	BOXMANN
		:	SIMPEX

**AE (E) P**

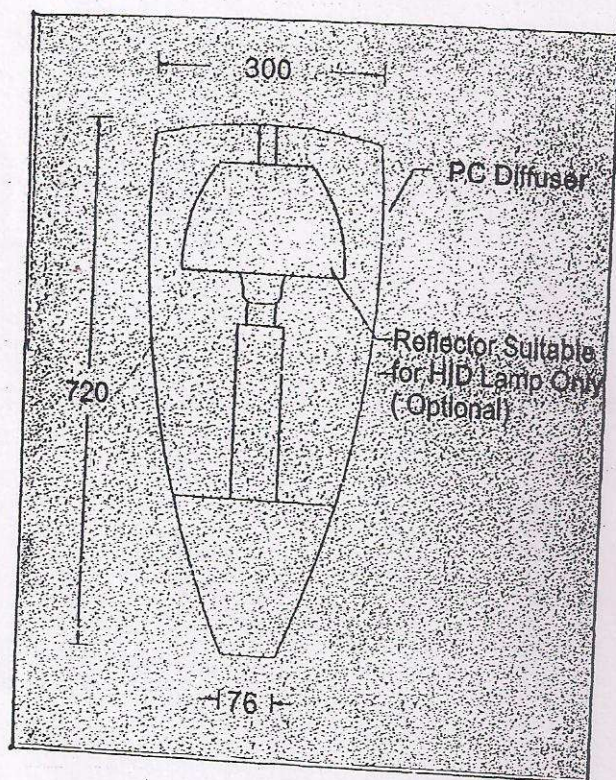
**EE (E) P**

**SE (E)P**



DRG. NO. 8





# **PRISMATIC / FROSTED PC GLOBE**

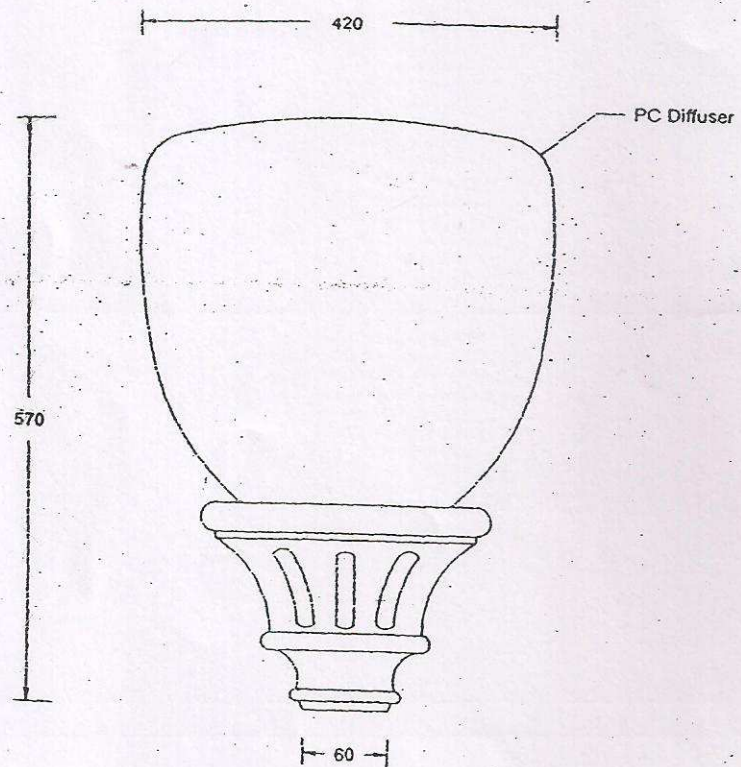
**(For Path Lighting of General Parks**

- 1 All dimensions are in mm.
- 2 Dimensions are nominal

**Drawing no.7**



**DRG. NO. 6**



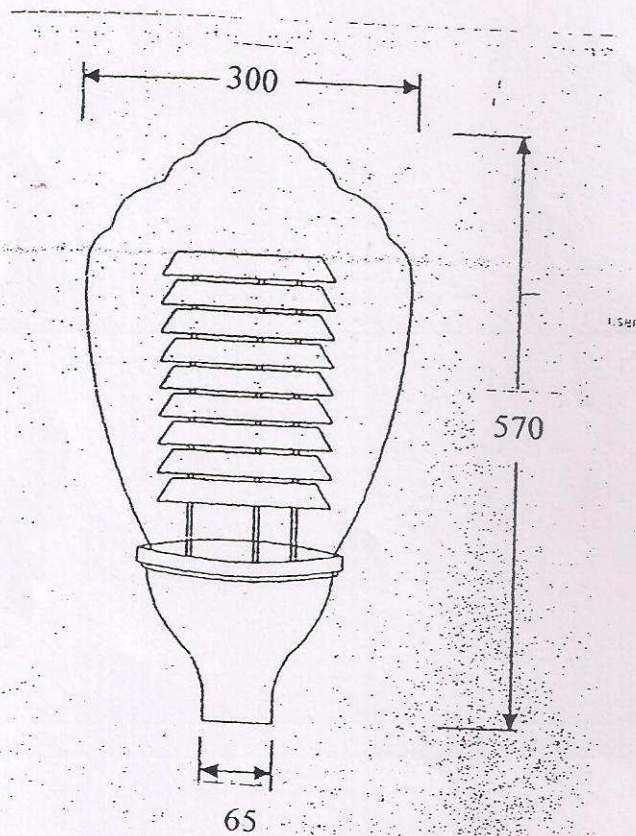
**PRISMATIC/FROSTED PC GLOBE**

**(For Path Lighting of General Parks)**

- 1 All dimensions are in mm.
- 2 Dimensions are nominal



DRG. NO. 5



PRISMATIC/FROSTED PC GLOBE

(For Path Lighting of General Parks)

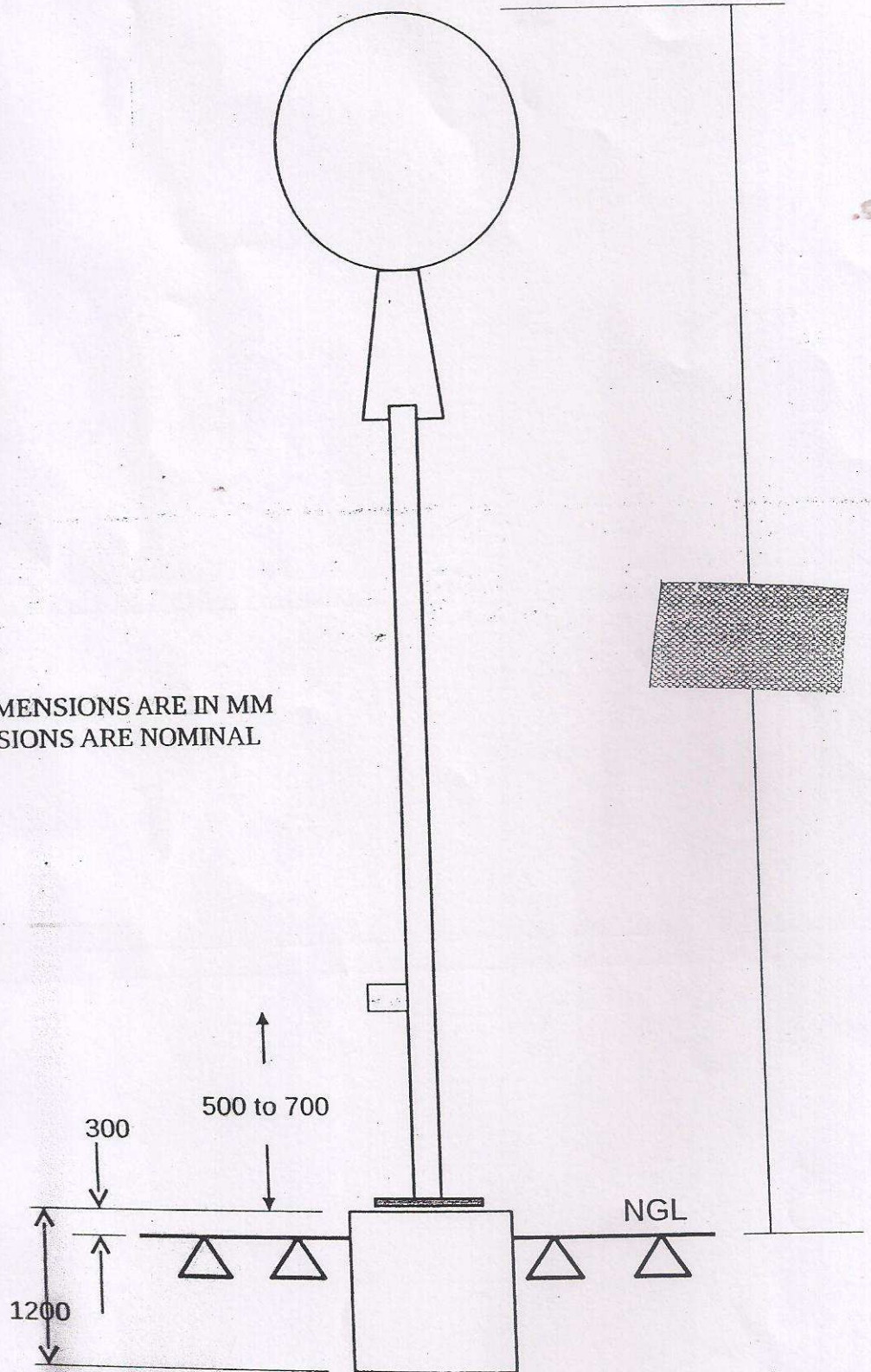
1 All dimensions are in mm.

2 Dimensions are nominal

A  
C  
D  
OW  
CS } NIL



DIMENSIONS ARE IN MM  
DIMENSIONS ARE NOMINAL

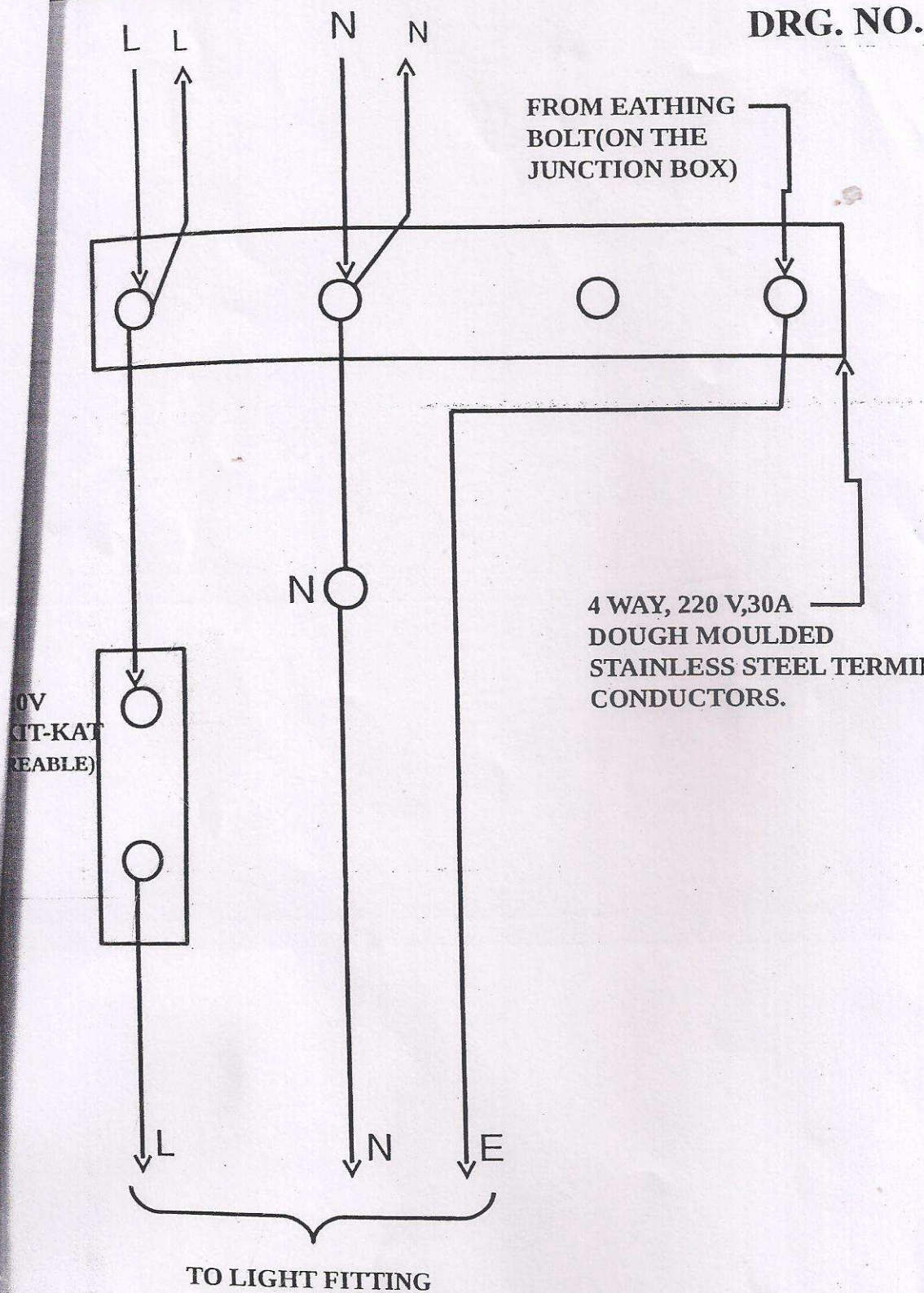


Drawing no.4

MOUNTING DETAIL OF  
POLE, FITTING & FOUNDATION



DRG. NO.



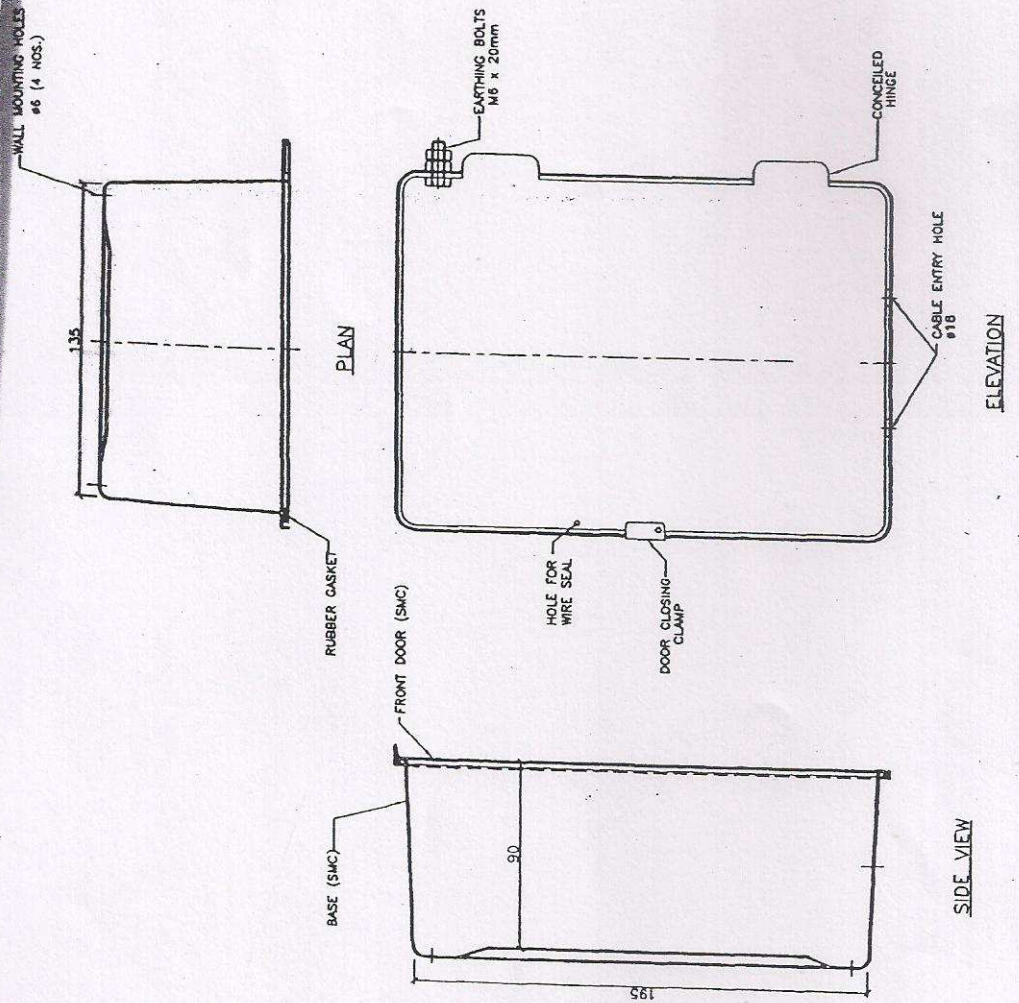
LINE DIAGRAM FOR CONNECTOR BOX



- (1) MADE OUT OF (THERMOSETTING PLASTIC) SHEET MOULDING COMPOUND BY THE PROCESS OF HOT PRESS COMPRESSION MOULDING CONFIRMING TO IS : 13410
- (2) SMC BASE OR DOOR SHALL NOT SOFTEN OR BEND ON HEATING.
- (3) DOOR FITTED TO BASE BY CONCEALED HINGES.
- (4) DIMENSIONS :  
INSIDE :- H=195mm, W=135mm, D=90mm.
- (5) COLOUR :- OFF WHITE

1 All dimensions are in mm.

2 Dimensions are nominal

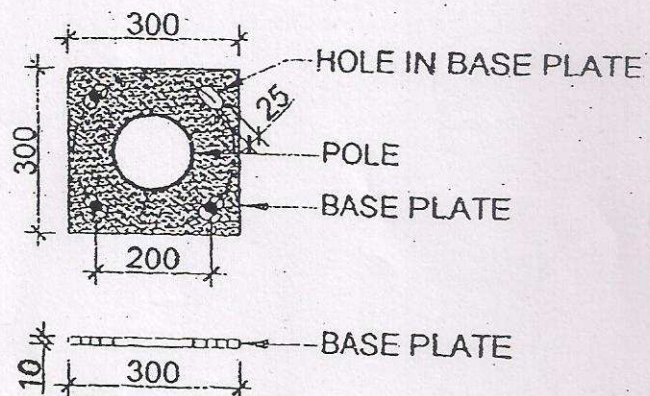


SMC JUNCTION BOX

DRG NO. 2



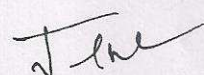
DRG. NO. 1

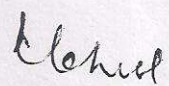


DETAIL OF BASE PLATE

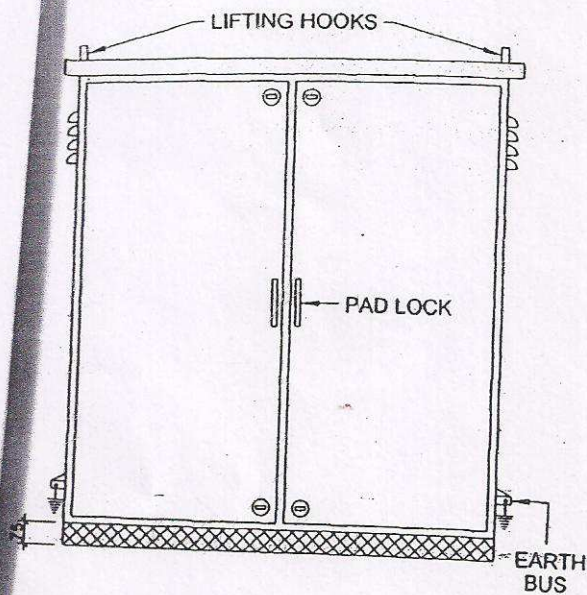
1. All dimensions are in mm.
2. Dimensions are nominal

  
AE(E) P

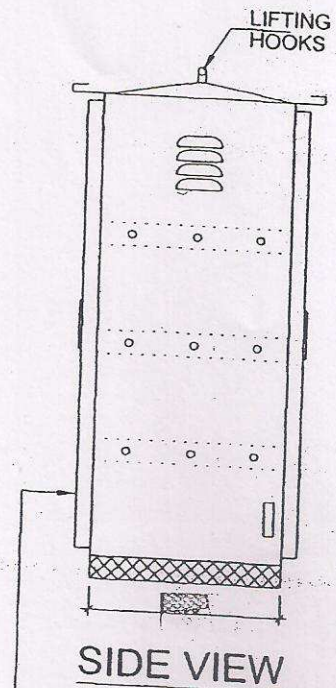
  
EE(E) P

  
SE(E) P



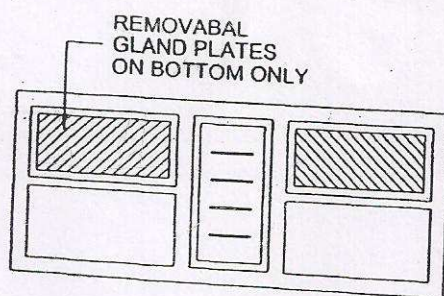


**FEEDER PILLAR**  
FRONT VIEW WITH DOOR



**SIDE VIEW**

REAR DOOR HINGED  
TYPE PANEL LOCKABLE  
WITH PAD LOCK



**BOTTOM VIEW**

**NOTE:-**

1. DIMENSION SHOWN ARE INDICATIVE BUT ACTUAL SHALL BE AS PER REQUIREMENT.

(TYPICAL)

**1. THE PANEL SHALL BE FABRICATED WITH:-**

- |  |                |
|--|----------------|
| a. MAIN FRAME AND LOAD BEARING MEMBERS | - 2 mm CRCA    |
| b. DOORS AND PARTITIONS                | - 2 mm CRCA    |
| c. REMOVABLE GLAND PLATE               | - 3 mm CRCA    |
| d. BASE FRAME                          | - ISMC 75x5mm. |

**DRG. NO. 9**

<b>ANNEXURE -3</b>		
<b>Name of Work:- D/o Parks &amp; Green for providing lighting in South Zone</b>		
<b>S. No.</b>	<b>Name of Park &amp; Location</b>	
<b>1.</b>	<b>Park at Block A, District park, Janak Puri.</b>	<b>A-32</b>
<b>2.</b>	<b>Park at A-2 park Gurudwara Janak Puri</b>	<b>A-33</b>
<b>3.</b>	<b>Model park at B-Block, Janak Puri</b>	<b>A-34</b>
<b>4.</b>	<b>Park at C-3 (Plotted area), Janak Puri</b>	<b>A-35</b>
<b>5.</b>	<b>Park at A-5, A Block Janak Puri.</b>	<b>A-36</b>
<b>6.</b>	<b>Park at B-2C Dasherra Ground Janak Puri</b>	<b>A-37</b>
<b>7.</b>	<b>Park at sports fields Janak Puri.</b>	<b>A-38</b>
<b>8.</b>	<b>Park at Sanitary land fill Pit no.-2 Vikas Puri.</b>	<b>A-39</b>
<b>9.</b>	<b>Park at B-Block keshav Kunj NDMC society Vikas Puri</b>	<b>A-40</b>
<b>10.</b>	<b>Park at Park, Supriya Aptt. Paschim Puri</b>	<b>A-41</b>
<b>11.</b>	<b>Park near GH-12 Paschim Vihar</b>	<b>A-42</b>
<b>12.</b>	<b>Park G-17 area Paschim Vihar.</b>	<b>A-43</b>
<b>13.</b>	<b>Park at green Belt A- Block Janak Puri</b>	<b>A-44</b>
<b>14.</b>	<b>Janamashtami Park –Ring Road, Paschim Vihar</b>	<b>A-45</b>
<b>15.</b>	<b>Park at RBI Colony-Ring Road, Paschim Vihar</b>	<b>A-46</b>
<b>16.</b>	<b>Park at Inder puri.</b>	<b>A-47</b>
<b>17.</b>	<b>Park at Nariana Vihar</b>	<b>A-48</b>
<b>18.</b>	<b>Distt. Park at Block ‘B’ Paschim Puri</b>	<b>A-49</b>
<b>19.</b>	<b>Park at NH P Paschim Vihar near ‘B’ Block adjoining to S.S. mota Public School.</b>	<b>A-50</b>
<b>20.</b>	<b>Park at G Block- Pushkar Enlcave, Paschim Vihar</b>	<b>A-51</b>
<b>21.</b>	<b>Park at ‘M’ Block Vikas Puri</b>	<b>A-52</b>
<b>22.</b>	<b>Park at ‘F’ Block Vikas Puri Navyug Colony</b>	<b>A-53</b>
<b>23.</b>	<b>Park at Bhagwati Talab Mandir Madipur</b>	<b>A-54</b>
<b>24.</b>	<b>Rock Garden at Patel Nagar</b>	<b>A-55</b>

