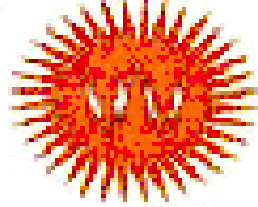


**OFFICE OF THE CHIEF ENGINEER (UJJAIN REGION)**  
**M.P. Paschim Kshetra Vidyut Vitaran Co. Ltd.**  
**JYOTI NAGAR, NEAR GIRLS DEGREE COLLEGE**  
**UJJAIN (M.P.)**

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Tender Specification No.CE/UR/PUR/2011-12/  
**TS-08/14236/18.06.11,**

Due Date for opening of Tender **23.07.2011**

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**SUPPLY OF**  
**11 KV D.O. FUSE UNIT**

**Issued by:**

**EXECUTIVE ENGINEER (PUR)**  
**O/o The CHIEF ENGINEER (UR),**  
M. P. Paschim Kshetra Vidyut Vitaran Co. Ltd,  
Jyoti Nagar, Near Girls Degree College,  
Dashera Maidan, Ujjain (M.P.)

Phone No.0734-2530157, Fax No.0734-2530149

## **IMPORTANT**

**By virtue of the order vide no. 3679/FRS/13/18/2002 dated 31-05-2005 of the Department of Energy Government of M.P. the MPSEB has been reorganized and restructured and full autonomy is given to various independent companies.**

**Henceforth, in all the papers wherever the word MPSEB occurs is substituted with the name of the company i.e. “M.P. Paschim Kshetra Vidyut Vitaran Company Ltd.”**

**Signature of Tenderers**

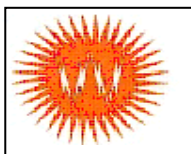
**Name of Item: - Supply of 11 KV D.O. Fuse Unit.**Tender Specification No. CE/UR/2011-12/Pur./Tender-08 Due on **23.07.2011.****I N D E X**

| <b>S. No.</b> | <b>Particulars</b>                                       | <b>Annexure / schedule</b>  | <b>Page No.</b> |
|---------------|--|---|-----------------|
| 1             | Tender Notice  | For information   | 2               |
| 2             | Tender Form  | (To be filed, signed & returned by the tenderer with the offer)                               | 3               |
| 3             | General Instruction to Bidders                           | Annexure- I, (To be noted)  | 4-11            |
| 4             | General Terms & Conditions of Purchase                   | Annexure- II, (To be noted)   | 12-22           |
| 5             | Price and Quantity                                       | Schedule –I (To be filled & submitted by the tenderer with the offer as Part III)             | 23              |
| 6             | Technical Specification /G.T.P.                          | Schedule – II (A)<br>& Schedule – II (B) (Drawing)  | 24-30           |
| 7             | Schedule - III Questionnaire                             |   |                 |
|               | Part – A General Information                             | Schedule – III ( To be filled & submitted by the tenderer with the offer as Part II)          | 31-32           |
|               | Part – B Commercial Information                          | --do--  | 33-35           |
|               | Part – C Technical Information                           | --do--  | 36-37           |
| 8             | Schedule - IV  |   |                 |
|               | Part – A Past Experience                                 | Schedule –IV ( To be filled & submitted by the tenderer with the offer as Part II)            | 38              |
|               | Part – B Commercial Deviation                            | --do--  | 39              |
|               | Part – C Technical Deviation                             | --do--  | 40              |
| 9             | Cover page of part – II bid, Technical – Commercial bid. | Schedule – V (To be filled & submitted by the tenderer with the offer as Part II, cover page) | 41-42           |

**NOTE**

- (i) The tenderers are requested to ensure that they furnish the offer in original and each page of the tender should be signed and sealed by the tenderer. Any over corrections / overwriting should be signed by the tenderer. An offer with corrections / overwriting without signature of the tenderer is likely to be rejected without any consideration whatsoever.
- (ii) The Tenderers are requested to ensure that all required schedules along with questionnaire, duly filled-in are submitted with the offer. The tenderers should also note that in absence of any of the schedules, questionnaire, their offer is likely to be rejected.

Advertisement Ts-05 to 08



**OFFICE OF THE CHIEF ENGINEER (UR)  
M.P. PASCHIM KSHETRA VIDYUT VITARAN CO. LTD.,  
JYOTINAGAR,UJJAIN**

Phone No.0734-2530140,2530157, Fax No.0734-2530149 EMAIL cempseb@yahoo.co.in.

**No.CE/UR/PUR/2011-12/TS-05,06,07&08/ 14236** **Ujjain, Dtd. 18.06.11**

**:- NOTICE INVITING TENDER :-**

**Sealed tenders are invited from manufacturers / authorized dealers in three parts-(Earnest Money, Technical & Commercial, and Price Bid), for supply of following items. :-**

| <b>T.S. No.</b>                       | <b>Name of Items</b>             | <b>Qty.</b>       | <b>Tender Fee (Rs.)</b> | <b>Last date for selling of blank Tender document</b> | <b>Date/Time of submission of tender</b> | <b>Date /Time of opening of Tender</b> |
|---------------------------------------|----------------------------------|-------------------|-------------------------|---|--|--|
| <b>CE/UR/PUR / 2011-12/ Tender-05</b> | <b>Earthing Coil</b>             | <b>11292 Nos.</b> | <b>1000.00</b>          | <b>12.07.11 upto 5.00 PM</b>                          | <b>13.07.11 Upto 3.00 PM</b>             | <b>13.07.11 Upto 04.00 PM</b>          |
| <b>CE/UR/PUR / 2011-12/ Tender-06</b> | <b>GI Wire 4 mm (8 SWG)</b>      | <b>90 MT</b>      | <b>2000.00</b>          | <b>15.07.11 upto 5.00 PM</b>                          | <b>16.07.11 Upto 3.00 PM</b>             | <b>16.07.11 Upto 04.00 PM</b>          |
| <b>CE/UR/PUR / 2011-12/Tender-07</b>  | <b>GI Pipe 40 mm Dia (Light)</b> | <b>6500 Mtrs.</b> | <b>1000.00</b>          | <b>19.07.11 upto 5.00 PM</b>                          | <b>20.07.11 Upto 3.00 PM</b>             | <b>20.07.11 Upto 04.00 PM</b>          |
| <b>CE/UR/PUR/ 2011-12/Tender -08</b>  | <b>11 KV DO Set</b>              | <b>4333 Sets</b>  | <b>2000.00</b>          | <b>22.07.11 upto 5.00 PM</b>                          | <b>23.07.11 Upto 3.00 PM</b>             | <b>23.07.11 Upto 04.00 PM</b>          |

**The tender documents may be purchased from this office, on payment of a non refundable fee indicated against each in person (extra Rs.100/- each by post ), by crossed Demand Draft in favour of Sr. A.O., MPPKVCo: Ltd; UJJAIN. Payable at Ujjain.**

**//Save Electricity//**

**Sd/-  
Executive Engineer(Pur)  
O/o CE (UR) MPPKVCO; LTD;UJJAIN**

T.S.Form No. \_\_\_\_\_ Dt. \_\_\_\_\_

**Demand Draft No** .....  
**& dt./Banker's cheque**  
**No. & dt.**

**Tender issued to M/s.** .....  
.....  
.....  
.....

**TENDER FORM**

The undersigned hereby tender and offer (subject to the MPPKVVCL's conditions of tendering) the **M.P. Paschim Kshetra Vidyut Vitaran Company Ltd.** to supply the plant, machinery and materials and execute and do the several works and things which are described or referred to in the Details of Technical Particulars attached to tender document No. CE/UR/PUR/2011-12/**Tender-08 due on 23-07-11**, and its enclosure and in Schedules to the side Details of Technical Particular Copies of which are annexed here to and which under the terms thereof are to be supplied, executed and done by the contractor and to perform and observe the provisions and agreements or the part of the contract contained in or reasonable to be referred from the said tender documents for the sums and at the rates sets out in Schedule –I annexed here to.

The questionnaire enclosed with this tender document has been fully answered and is enclosed herewith (if the questionnaire is not answered in full, the answer to various question may be taken so as to be advantageous to the Company [unless contrary is mentioned in the body of the tender.

Date the            Day of.....

TENDERER'S SIGNATURE  
(With Seal)

Tenderers Address: - .....  
.....  
.....

## **ANNEXURE – I**

### **GENERAL INSTRUCTIONS TO BIDDERS**

1. **GENERAL** :-

The Chief Engineer(Ujjain Region), M.P.P,K.V.V.C.L., Ujjain on behalf of “The Madhya Pradesh Paschim Kshetra Vidyut Vitaran Co. Ltd., Indore” here in after referred to as “Company”, will receive sealed tenders / bids for purchase of **11 KV D.O. Fuse Unit** with the attached specification for supply to Area Stores at **Ujjain / Indore..**

2. **BASIC QUALIFICATION OF BIDDERS**:-

- (i) The Bidding is open for manufactures/Authorized dealers who provide satisfactory evidence.
- (ii) That they are qualified manufacturers who regularly manufacture the equipment /material of the type specified and has adequate technical knowledge and practical experience.
- (iii) That they do not anticipate change in the ownership during the proposed period of contract, (if such a change is anticipated, the scope and effect thereof shall be defined).
- (iv) That, they have adequate financial stability and status to meet the financial obligations pursuant to the scope of the assignments. (The Bidders should submit copies of their profit and loss account and balance sheet for the last three years including Turn-over).
- (v) That, they have adequate plant and manufacturing capacity available to perform the assignment properly and expeditiously within the time period specified. The evidence shall consist of written details of the installed manufacturing capacities and present commitments (excluding the assignment under this specification) of the bidder or his principal.
- (vi) That they have established quality assurance system and organizations designed to achieve high level of quality equipment and reliability during their manufacturing activities.

3. **EARNEST MONEY:-**

- (i) The Tenderer shall deposit the Earnest Money as per following schedule/amount for the offered quantity.

| S.No | Value of Material                         | E.M.D Required |
|------|---|----------------|
| 1    | Up to 10,000/-                            | 100/-          |
| 2    | Above Rs 10,000/- and upto Rs 02.5 Lack   | 1%             |
| 3    | Above Rs 02.5 Lack and upto Rs 03.0 Lack  | 2,500/-        |
| 4    | Above Rs 03.0 Lack and upto Rs 07.0 Lack  | 5,000/-        |
| 5    | Above Rs 07.0 Lack and upto Rs 15.0 Lack  | 7,000/-        |
| 6    | Above Rs 15.0 Lack and upto Rs 25.0 Lack  | 10,000/-       |
| 7    | Above Rs 25.0 Lack and upto Rs 35.0 Lack  | 15000/-        |
| 8    | Above Rs 35.0 Lack and upto Rs 50.0 Lack  | 20000/-        |
| 9    | Above Rs 50.0 Lack and upto Rs 75.0 Lack  | 30000/-        |
| 10   | Above Rs 75.0 Lack and upto Rs 100.0 Lack | 40000/-        |
| 11   | Above Rs 100.0 Lack.                      | 50000/-        |

- a) The Earnest Money to be deposited through Bank Draft of any Nationalized Bank in favour of Senior Accounts Officer, MPPKVCo; Ltd; Ujjain only.

**No offer will be accepted without applicable Earnest Money Deposit, unless exempted.** If on opening of tender any discrepancy in EMD amount is noticed, the tender shall be rejected.

- (ii) **The following are exempted from payment of Earnest Money Deposit:-**

- a) SSI Units of State of Madhya Pradesh permanently registered with DIC.  
b) **Small Scale Units registered with NSIC** : The small Scale Unit permanently registered with NSIC

**The registration should be permanent and should be specifically for the items quoted in the tender and valid on the date of opening of tender.**

- c) The Medium/Large Scale Manufacturing Units, located in Madhya Pradesh (other than SSI) are permitted to furnish the EMD @ 50% (Half) of the rates prescribed. Here also permanent registration is a must in respect of specified item against this tender.
- d) Fully owned State/Central Govt. manufacturing units, if 100% shares are held by the Govt. concerned for which documentary evidence must be furnished with the offer.
- (iii) The photo copy of the NSIC/ SSI Registration Certificate for the tendered items duly attested by any gazetted officer or an officer of MPPKVCo; Ltd; or other Discom of M.P. not below the rank of AE, shall be furnished with the offer.
- (iv) **In case, the bidder withdraws this offer during the validity period, after placement of order, the EMD amount shall be forfeited.**

v) **RETURN OF EARNEST MONEY TO BIDDERS:-**

- a) EMD shall be returned to the unsuccessful bidders after the tender is decided. No interest shall be paid on EMD amounts.
- b) EMD of bidders on whom the orders have been placed, shall be adjusted in security deposit. No, interest shall be paid on EMD amount.

4. **TAXES AND DUTIES:-**

- a) The quoted price should be mentioned inclusive of all the taxes & duties (Entry Tax/VAT/CST etc.). The taxes and duties should be elaborated separately arriving the total cost inclusive of taxes and duties.
- b) M.P. Paschim Kshetra Vidyut Vitaran Co; Ltd; Indore is a registered dealer under MP General Sales Tax Act 1958 and Central Sales Tax Act 1956 bearing registration number i.e. TIN No.23380203311. Necessary declaration form, be furnished after receipt of material at destination, by MPPKVCo; Ltd;. Any other applicable declaration form for concessional rate of Sales Tax/ Commercial Tax/VAT as may be in force shall be given only after the legal position is verified at our end

5. **AMENDMENT IN SPECIFICATION:-**

The MPPKVCo; Ltd; may revise or amend the specification, prior to the date notified for opening of tender. Such revision/amendment, if any, will be communicated to all those who have bought the tender documents.

6. **BIDS RECEIVED BY MESSENGER:-**

When tenders are delivered by a special messenger, the same should be dropped in the Tender Box, kept in the O/o Chief Engineer (UR), MPPKVCL. JYOTINAGAR, Ujjain on all working days indicated in tender notice between 10-30 hours to 15 hours only. **Nobody is authorized to receive or grant receipt for tender delivered by hand.**

7. **TELEX/TELEGRAPHIC/FAX BIDS:-**

Telex/Telegraphic/Fax offers will not be considered under any circumstances.

8. **DELAYED/LATE BIDS:-**

- a) The M.P.P.K.V.V.Co; Ltd; shall not assume any responsibility for any postal delays either for the late receipt of documents by bidders or late receipt of bids by the MPPKVCo; Ltd; **No extension in time shall be granted on such grounds.**
- b) Price Bid should be submitted on tender documents issued by this office only strictly. Rates should be quoted as per requirement in tender and should be quoted in both figures and words. In case of ambiguity between rates in figures and words, lower of the two shall be considered.

9. **INCOMPLETE BIDS:-**

Incomplete tender is liable for rejection.

10. **REJECTION OF TENDER :-**

MPPKVCo; Ltd; reserves the right to reject any tender without assigning any reason whatsoever. The MPPKVCo; Ltd; in this regard shall not entertain any correspondence.

11. **DISQUALIFICATION OF BIDS:-**

A bid which gets opened before the due dates as a result of improper or no indication having been given on the cover to indicate that it is a tender, will be disqualified. Bidders will not be permitted to change the substance of his tender on post interpretation/improper understanding grounds. This includes post tender price changes/modifications etc. after opening of Price Bid. In such events, otherwise, i.e., when a bidder does not comply, tender will be rejected.

12. **LANGUAGE OF BIDS:-**

The tenders should be filled in English/Hindi only.

13. **SALES TAX CLEARANCE CERTIFICATE:-**

The bidder shall furnish Sales Tax Clearance Certificate from competent authority. Alternatively, the bidder shall give reasons for his inability to furnish such a certificate. The Company reserves the right to reject any tender if Sales tax certificate or the reasons for the bidder's inability to furnish such a certificate are not furnished.

14. **QUESTIONNAIRE FILLING IS ESSENTIAL:-**

A "QUESTIONNAIRE/Check list "(Schedule – III) along with specification is enclosed for technical/commercial details. It is essential on the part of the bidder to furnish all details as per the "Questionnaire"/Check list. In case, this is not filled up and enclosed with the bid the MPPKVCo; Ltd; will have right to accept/reject the offer.

15. **DEVIATIONS FROM TERMS/CONDITIONS:-**

Offers with deviation in the terms of payment, liquidated damages, security deposit and performance guarantee are liable to the rejected outright.

16. **PAST EXPERIENCE:-**

Tenderer having past experience in manufacture and supply of material to MPSEB/other organization details of supplies made (along with order copies) during the past few years as per enclosed Schedule IV part "A".

17. **SUBMISSION OF BIDS:-**

- (i) The tender shall be submitted in three (3) parts:-  
**Part-I** shall contain **“EARNEST MONEY DEPOSIT/DOCUMENT WHICH ENTITLE FOR EXEMPTION FROM EMD”**.  
**Part-II** shall contain **“COMMERCIAL BID AND THE TECHNICAL BID”**

The details about these two bids are discussed in Annexure I and II respectively. Relevant information that the bidders are liable to submit, comprises duly filled-in Questionnaire, all schedules any other the information that is sought in the tender.

**Part-III** shall contain **“PRICE BID”**, in the price Schedule. The bidder shall ensure that the prices/rates are filled in accordance with the Proforma for **“Price and Quantity” Schedule-I**

- (ii) Tender being submitted must be signed by a person holding a Power of Attorney authorizing him to do so, certified copies of which shall be enclosed.
- (iii) Tender submitted on behalf of companies registered with the Indian Companies Act, for the time being in force, shall be signed by persons duly authorized to submit the Tender on behalf of the Company and shall be accompanied by certified true copies of the resolutions, extracts of Articles of Association, special or general Power of Attorney etc. to shown clearly the title, authority and designation of persons signing the Tender on behalf of the Company.
- (iv) **All the three parts shall be submitted in three separate sealed envelopes and these envelopes shall be properly super scribed as :**  
**Part-I “Earnest Money Deposit”**  
**Part-II “Commercial Bid and Technical Bid”**  
**Part-III “Price Bid”**  
Each envelope shall also be super scribed with name of the item and TS number for which the tender is submitted, the name of the said bidder and the date of opening, as advertised. **The tender i.e. the three parts shall be submitted each in original.**
- (v) **The above three envelopes duly sealed are to be kept again in one envelope called main envelope and sealed.** This envelope should be properly super scribed stating that this envelope contains three separate envelopes for part I **“EARNEST MONEY DEPOSIT”**, Part – II **“COMMERCIAL AND TECHNICAL BID”** and Part – III **“PRICE BID”**, in addition to tender specification No., name of item and tenderer. Details of Earnest Money Deposit, and due date of opening should be super scribed on this common envelope also. Beside this, it shall be certified on the main envelope itself that Company’s **PAYMENT TERMS, PENALTY, SECURITY DEPOSIT, and PERFORMANCE GUARANTEE CLAUSES**, as mentioned in tender specification, are acceptable to the bidder. This certification shall be in following manner:-

**TENDER SPECIFICATION NO. :- CE/UR/PUR2011-12/Tender-08/ 14236 Dtd. 18.06.11.**

**DUE FOR OPENING ON - 23.07.11**

**FOR PROCUREMENT OF 11 KV D.O. Fuse Unit**

**THIS ENVELOPE CONTAINS 3 SEPARATE ENVELOPES FOR:-**

- i) PART I : “EARNEST MONEY DEPOSIT”**
- ii) PART II: “COMMERCIAL AND TECHNICAL BID”**
- iii) PART III: “PRICE BID”**

**TO,**

**THE CHIEF ENGINEER (UJJAIN REGION)  
M.P.PASCHIM KSHETRA VIDYUT VITARAN Co. Ltd,  
JYOTINAGAR,UJJAIN 456010**

**IT IS CERTIFIED THAT WE AGREE THE FOLLOWING CLAUSES OF  
TENDER SPECIFICATION:-**

- |              |                              |                  |
|--------------|------------------------------|------------------|
| <b>(i)</b>   | <b>PAYMENT TERMS</b>         | <b>: AGREED.</b> |
| <b>(ii)</b>  | <b>SECURITY DEPOSIT</b>      | <b>: AGREED.</b> |
| <b>(iii)</b> | <b>PENALTY</b>               | <b>: AGREED.</b> |
| <b>(iv)</b>  | <b>PERFORMANCE GUARANTEE</b> | <b>: AGREED.</b> |
| <b>(v)</b>   | <b>DELIVERY PERIOD</b>       | <b>: AGREED.</b> |

**SIGNATURE OF TENDERER  
STATUS AND COMPANY’S SEAL**

- (vi) In absence of such certification on the main envelope itself, the same shall not be opened and the offer shall be rejected.**
- (vii) Even after certification on the main envelope, if any ambiguity is found upon opening of the main envelope or after opening of the Price Bid, the offer shall be rejected.**

**18. DATE AND TIME OF OPENING OF BIDS – CHANGES:-**

Tender shall be opened on the due date and time as notified in the presence of the tenderers or their authorized representatives who may be present. If the due date of opening / submission of tender documents is declared as holiday by Central / State Govt. or local Administration, it will be automatically get shifted to the next working day, for which no prior intimation shall be given. The tender opening shall be continued on subsequent day, in case the opening of the entire tender is not completed on the day opening.

It may please be noted that the due date / time of opening can be altered, extended, if desired by the purchaser, without assigning any reasons thereof. However, due intimation shall be given / published in News-Paper in such a case.

19. **OPENING OF EMD AND COMMERCIAL AND TECHNICAL BID:-**

The first envelope of Earnest Money Deposit shall be opened on the due date and time, as notified in the Notice Inviting Tenders. The requirement for **EMD** shall be verified and thereafter, the second part, i.e. the Commercial and Technical Bid, shall be opened on the same date in respect of eligible tenderers.

20. **OPENING OF PRICE BID:-**

**The price bid shall be opened only after evaluation of technical and commercial bid either on the same date or subsequent date to be notified separately:-**

The offers which are in conformity with important commercial terms and conditions including Payment terms, Penalty, Security Deposit and Performance Guarantee clause of Tender specification and exactly as per our technical specification, shall be eligible for opening of their Price Bid.

21. **CANVASSING OF BIDS:-**

Tender shall be deemed to be under consideration, after opening of tender/ bid, till placement of order. During this period, the tenderers or their authorized representatives or other interested parties are advised strongly, in their own interest, to refrain from contacting by any means any of the Company's personal or Representative, on matters relating to tender under process.

22. **DESTINATIONS WHERE MATERIALS ARE REQUIRED:-**

The materials as per the specifications are required for Area Stores situated at **Ujjain/Indore**. The prices quoted should be on **FOR DESTINATION** basis.

23. **VALIDITY OF BIDS:-**

- (a) The offers shall be **valid for 180 days**. Validity of the complete tender document shall be counted from the date of opening of bids.
- (b) Those who do not agree for a validity of 180 days will do so at their own risk and their offers are liable to be rejected.
- (c) However if due to circumstances, beyond control, tenderers are advised to extend the validity, but they shall not be permitted to revise their rate, offer any rebate or concession while extending the validity which may materially result in any reduction or increase in the computed price of their original offer.

24. **AUTHORISATION/LOCAL REPRESENTATIVE:-**

Only authorized representative, possessing necessary authority letter from the bidder shall be allowed to participate in the tender opening.

25. **ACCEPTANCE OF TENDER:-**

- i) MPPKVCo; Ltd; may reject any or all tenders or to accept any tender considering advantageous to MPPKVCo; Ltd; whether it is the lowest offer or not.

- ii) MPPKVCo; Ltd; may split the quantities against the tender on more than one firm for the same item. No reasons shall be assigned by the MPPKVCo;Ltd; for this and the same will be binding on the tenderers.

26. **CHANGE OF QUANTITY:-**

The Purchaser reserves the right to vary the quantities of any or all items as specified in the technical specification/schedules as may be necessary, based on Purchaser's judgment and vendor rating. No correspondence shall be entered into, neither discussed regarding quantity variation, nor any reason will be assigned thereof.

27. **POOL RATES:-**

"The bidders, specifically the SSI Units of the State, are advised to quote their own individual rates. It may please be noted that if more than one bidder quotes the same rate, suggestive of a cartel, then such offers may not be considered by MPPKVCo; Ltd;. It may also please be noted that the competitive rate quoted by each tenderer may be one of the main criteria for quantity to be ordered on each successful bidders."

**IMPORTANT NOTE:**

- (i) The tenderers are requested to ensure that they furnish the offer in original and each page of the tender should be signed and sealed by the tenderer. Any over corrections / overwriting should be signed by the tenderer. An offer with corrections / overwriting without signature of the tenderer is likely to be rejected without any consideration whatsoever.
- (ii) The Tenderers are requested to ensure that all required schedules along with questionnaire, duly filled-in are submitted with the offer. The tenderers should also note that in absence of any of the schedules, questionnaire, their offer is likely to be rejected.
- (iii) The Tenderers are required to offer 50 % of quantity asked in NIT. The offers with quantity offered less than 50 % of quantity tendered will be summarily rejected and shall not be considered in any case.

**Executive Engineer (Pur)**  
**O/o.C.E. (UR).**

## ANNEXURE-II

### GENERAL TERMS AND CONDITIONS OF PURCHASE

#### 1. PRICES AND STATUTORY LEVIES:-

- (i) It is obligatory that FIRM and FOR Destination prices inclusive of all taxes, duties levies, packing, freight, forwarding & Entry Tax etc. are quoted for the consignee Executive Engineer (Stores), Area Stores, M.P. Paschim Kshetra Vidyut Vidyut Vitaran Co; Ltd; **Ujjain/Indore.**
- (ii) The prices shall be quoted exactly as per the price schedule enclosed with the tender specification, including all elements. In absence of this, the offer shall be liable for rejection.
- (iii) Any charge as may be applicable as per law in force, must be included in the quoted price. Any of such silent charges, even if statutory charges, shall not be payable extra in the event of an order.
- (iv) The order shall be placed on FIRM and FOR destination price inclusive of packing and forwarding charges, Sales Tax/Commercial Tax/Vat Tax, excise duty and Entry Tax etc.
- (v) **Excise duty, Sales tax/Vat Tax and other levies are not payable extra even these under goes upward revision during contractual delivery period.**

#### 2. PRICE VARIATION :-

As mentioned earlier the prices are FIRM and no price variation is admissible. In case of any deviation observed in above price term, the offer will be liable for rejection.

#### 3. TRANSIT RISK:-

- (a) Responsibility regarding covering of risk during transit of material shall entirely be on the supplier. MPPKVCo,Ltd; shall, in any case, not bear the transit risks/ transit insurance charges.
- (b) Transit damages/ shortages/ losses shall be reported by the consignees within 30 days from the receipt of the consignments. Such damages / shortages/losses shall be repaired/ replaced by the suppliers, free of cost within one month from the date of intimation by the consignee without waiting for his settlement from carrier or Insurance Company etc. If the supplier fails to do so the consignee (s) shall be free to get the repair work done from other sources and they shall be free to recover the cost of such material / expenses of repairs either from the supplier / balance bills or from the security deposit as deemed fit.
- (c) While the necessary assistance shall be rendered by the consignee in lodging and processing the claims with carriers and the supplier's insurance underwriters, the responsibility shall rest with the supplier to immediately make good the shortages/losses/ damages, without any extra cost and without waiting for the settlement of the claim.

(d) **Replacement of goods lost / broken or damaged including loss due to fire:-**

Notwithstanding anything here-in contained, the supplier shall undertake responsibility for the safe arrival of the material in good condition and without any loss or damage at the final destination and until the same is actually delivered to/ received by MPPKVCo; Ltd; at its stores or other places of final destination. For this purpose, material carried by Railway or Road transport or other carriers shall be deemed to be so carried at the risk of the suppliers, In the case of transport damages/ shortage, the payment shall be made only for the quantity received in good and working condition and consignee shall lodge claim with the suppliers / carrier with all necessary documents for settlements of the same with the carriers at supplier's end.

4. **PACKING AND FORWARDING:-**

- (a) The supplier shall be responsible for the Stores being sufficiently and properly packed at his expenses for transport by rail, road or sea, so as to ensure them being free from the loss/ damage due to handling and transport to the destination.
- (b) Each package shall be prominently and distinctly marked on atleast two faces, indicating the full address of the consignee, destination station, name of equipment, purchaser's order number, weight and volume of the package etc.
- (c) Each package shall contain in a water proof cover, a detailed description indicating the order reference and date and list of the contents. Each item contained in the package or box shall be described sufficiently, to enable easy identification. The quantity, weights etc. shall also be given.
- (d) The packaging shall conform to the specification, rules and regulation prescribed by the Underwriters, Railways, and Transport Agencies. In case of any loss / damages to the consignment, due to non-standard packing the same shall be made good free of all charges to Purchaser by the supplier. All the provision of this clause shall apply whether the disrupting cause is total or partial in its effects upon the ability of the supplier to perform.

5. **MODE OF DISPATCH:-**

The tenderer should clearly indicate mode of dispatch for the material. In case of dispatch through rail, the material is to be booked for respective destination railway station. In case of dispatch through road transport, the material should be dispatched through bank approved road transporter on door delivery basis only.

6. **SUBMISSION OF DRAWING AND LITERATURE.**

All the relevant literature / drawings shall be submitted along with the offer.

7. **INSPECTION AND TEST CERTIFICATE:-**

- i) Each lot of offered material shall be inspected by MPPKVCo; Ltd's inspecting officer before despatch. The supplier shall extend all reasonable and necessary testing help to the inspecting officer of the MPPKVCo; Ltd; to carry out testing of material at his works.
- ii) An intimation about the date, by which material shall be ready for inspection, indicating quantity be given by the order placing authorities, by the supplier, so as to reach him sufficiently in advance, failing which, the suppliers shall be responsible for delay in delivery on account of inspection. On receipt of such intimation, the material shall be inspected normally within 15 days.
- iii) The supplier shall not dispatch the material unless specific dispatch instructions are issued by the order placing authorities or any other authorized officer of the MPPKVCo; Ltd; .
- (iv) In case the inspector deputed for inspection does not find the offered lot ready, MPPKVCo; Ltd; reserves the right to recover from the supplier, such charges as may have been incurred towards arranging such inspection. These charges have been mentioned in clause 9 below.

8. i) **RIGHT TO CARRY OUT THE INSPECTION DURING MANUFACTURING**

MPPKVCo; Ltd; at its option, will inspect the material on order during its process of manufacturing including the inspection of raw material and will request the supplier to carry out such tests as may be necessary to ensure proper quality check. Samples of components of the material shall be subjected to quality check by the Inspecting Officer, during manufacturing. In the event of stage inspection, if any discrepancy is noticed, the supplier shall be given immediate notice to suspend further manufacturing until corrective measures are taken and the process cleared.

ii) **FACTORY INSPECTION:-**

- a) The factory inspection of the Tenderer, who have not executed any order of MPPKVCo; Ltd; may be carried out before placing detail order.
- b) During pendency of the order, the factory inspection may be conducted by MPPKVCo; Ltd's authorized officer as and when felt necessary for ensuring production of quality material.
- iii) The Supplier shall extend all reasonable and necessary assistance to the inspecting officer of MPPKVCo; Ltd; to carry out testing of equipment/material at his works.

9. **FAKE INSPECTION CALL:-**

All such firms, who after giving inspection call, do not offer materials to Inspecting Officer for inspection due to one or the other reasons, shall be required to remit a sum of Rs. 5000/- per officer.

10. **DELIVERY:-**

- (i) Normally supply shall be commence within one month from the date receipt of order and to be completed within 3 months. However early delivery shall be preferred.
- (ii) The material should be delivered to the consignees within 21 days from the date of issue of despatch instructions/clearances. Any delay in delivery beyond this period shall attract penalty, even if the delivery period exists.
- (iii) **Deferment of deliveries:-**  
MPPKVCo; Ltd; reserves the right to defer or reschedule the delivery. However, no variation in price and any other statutory levies will be payable as applicable.

11. **FORCE MAJEURE:-**

**Force majeure condition is herein defined as:-**

- (a) Natural phenomena, such as floods, draught, earth-quakes and epidemics.
- (b) Act of any Government Authority, domestic or foreign, such as war, quarantines, embargoes, licensing control or production or distribution restrictions.
- (c) Accident and disruption such as fires, explosion, and increase in power cut with respect to date of tender opening, break-down of essential machinery or equipment etc.
- (d) Strikes, slow down, lockout containing for more than three (3) weeks.
- (e) Failure or delay in the supplier's source of supply due to force majeure causes enumerated at (a) do (d) above, provided the supplier produces documentary evidence to show that there were no other alternative sources of supply available to him or if available, the lead time required was likely to be longer than the duration of the force Majeure at the normal source of supply.
- (f) Any cause which is beyond the reasonable control of the supplier or purchaser as the cast may be.

All the provisions of this clause shall apply whether the disruption cause is total or partial in its effect upon the ability of the supplier to perform.

**Note:** -The cause of force majeure condition will be taken into consideration only if the supplier within 15 days from the occurrence of such delay notify to the MPPKVCo; Ltd; who shall verify the facts and grant such extension as the facts justify. For extension due to force majeure conditions, the supplier shall submit his representation with documentary evidence for scrutiny by the purchaser and decision of the MPPKVCo; Ltd; shall be binding on the firm.

12. **TERMS OF PAYMENT:-**

- 12.1 Subject to completion of all contractual formalities, 100% assured payment would be made within **45 days** for the quantity of GoMP / KMPY scheme after acceptance of material at Stores in good condition. The M.P.P.K.V.V. Co. Ltd, shall not be liable for any interest. Any other terms of payment shall not be considered.

- 12.2 The supplier shall forward the original RR/MTR and Excise gate-pass directly to consignee along with copies of following documents:-
- i) A copy of bill
  - ii) Delivery Challan
  - iii) Original copy of excise duty gate pass along with a photocopy
  - iv) The inspection and or T.C. approval
  - v) Detailed packing list, if required.
- 12.3 The original bills should be forwarded to the paying authority and should be marked “**ORIGINAL**”. The bill should indicate Sales Tax Registration Number and date allotted to him under Sales Tax Act.
- 12.4 The following documents will have to be forwarded to the paying authority along with bills in triplicate:-
- i) Bill/ Invoice.
  - ii) Xerox copy of dispatch documents i.e. RR/ MTR etc.
  - iii) Dispatch clearance / instructions.
  - iv) Photo-copy of Excise Duty gate-pass.
- 12.5 The material Receipt Certificate will be forwarded by the consignee to the paying authority for payment, as well as to the suppliers towards acknowledgement of receipt of material including part consignment to the extent it is received in good condition and is serviceable.
- 12.6 For payment, the invoice in triplicate with relevant documents such as Material Receipt in good condition etc. should be submitted to the concern Senior Account Officer for the quantities supplied in respective Area stores, MPPKVVCo; Ltd; .
13. **PENALTY:-**
- The time for and the date of delivery of the material stipulated in the order shall be deemed to the essence of the contract. In case of delay in execution or non-execution of the order, the Board as its option shall either recover from the supplier/ contractor as agreed towards liquidate damages as sum of ½% of the price of any stores not delivered per week or part there of subject to a maximum of 10%.
- For these purpose, the date of offer of material in the office of order placing authorities shall be considered as the date of delivery, subject to the condition that offer has been made 15 days in advance of terminal date of schedule delivery and material is delivered at stores within 21 days of clearance. For early inspection, offer may be sent telegraphically or by fax. MPPKVVCo; Ltd; will not be responsible for delay for ordinary/ registered post inspection offers. Please note, in case material is not received within 21 days from the date of issuance of dispatch instructions, even though the delivery period exists, penalty shall be applicable on delay of dispatch.

14. **PERFORMANCE GAURANTEE:-**

- 14.1 If during the course of 18 Months subsequent to the date of receipt of consignment or 12 months from the date of commissioning, any of the goods found to be defective in materials or workmanship or develops defects during service, they will have to be replaced by the supplier, free of all charges. All necessary arrangement on these accounts will be made by the suppliers.
- 14.2 The said material if required to be replaced, shall be collected by the supplier/firm from Area Stores/ work site at their own cost and at their own responsibility. These material will like-wise be returned duly repaired/replaced and tested subsequently by the supplier to the destination indicated on “Freight paid basis” at their cost in a **reasonable time** of 30 days from the date of intimation. The guarantee period as stipulated in clause 14.1 above shall also be applicable for repaired/ replaced material, which shall however be counted afresh from the date of its delivery in our stores/at site.
- 14.3 Further, it is clarified that all the charges towards carrying out repairs including packing /forwarding loading/unloading shall be borne by the supplier. The amount deposited under security deposit clause shall also cover the performance guarantee of the material.
- 14.4 All equipment/line materials reported failed within specified guarantee period may be replaced free of cost by the supplier/manufacturer concerned.
- 14.5 Actual cost of dismantling and replaced of these equipment /material with the new ones may be charged to the supplier’s account.
- 14.6 To and fro transportation cost of such failed equipment may also be borne by the supplier contractor.
- 14.7 In the event of the supplier’s inability to adhere to the aforesaid provisions, suitable penal action will be taken against them which may interalia black-listing of the firm for future business with MPPKVCo; Ltd; for a certain period.

15. **SECURITY DEPOSIT:-**

- 15.1 On acceptance of offer, the supplier will have to deposit an amount of 10% of the total value of the order in the form of Demand Draft or Bank Guarantee as Security Deposit.
- 15.2 Demand Draft to be drawn in favour of Sr. Accounts Officer, MPPKVCo; Ltd; **Ujjain** drawn on any nationalized / scheduled Bank and **payable at Ujjain**.
- 15.3 Bank Guarantee in lieu of cash deposit on any nationalized/scheduled Bank strictly as per MPPKVCo; Ltd’s Proforma (to be supplied along with the order) valid sufficiently to cover the guarantee period in the office of the order placing authorities.
- 15.4 The Security Deposit shall have to be deposited within 30 days of issue of order.
- 15.5 The MPPKVCo.Ltd; shall forfeit the Security Deposit in event of non execution / part execution of the orders / poor performance of supplier / contractors besides invoking the penalty clauses.

- 15.6 The Security Deposit shall be returned to the successful bidder only after due and faithful performance of the order as per terms and conditions of the order and on expiry of guarantee period provided there are no claims outstanding to be recovered against the bidders / suppliers.
- 15.7 In case of SSI Units of M.P., whose annual business is upto Rs.50 lacs, they will be required to pay security deposit @ 5% of the value of individual order subject to maximum of **Rs.20000/- in the form of D.D.** only.
- 15.8 No interest shall be paid by the MPPKVVCo; Ltd; on security deposit furnished by the suppliers.

16. **EXTENSION ORDER:-**

- 16.1 The MPPKVVCo; Ltd; reserves right to place an extension order for any additional quantity to the extent of **50%** quantity of the original order on the same rates, terms and conditions within 6 months from the date of orders.
- 16.2 The supplier shall have to accept order for additional quantity if placed by other two DISCOMs i.e. CMD (CZ), Bhopal and CMD (EZ), Jabalpur.

17. **TESTING FACILITY AND TESTS TO BE CONDUCTED:-**

The tenderer must give their production capacity, all about testing lab and line testing facilities available with them in details for the tendered material. The tenderer should also give the details of test proposed to be conducted in their labs in the event of order with the details Indian Standard Specification / Codes.

18. **MATERIAL TEST CERTIFICATE:-**

Each item of the lot should be tested by the supplier and routine test certificate in duplicate giving the results of all tests prescribed in the relevant ISS(as mentioned in the Technical Specification Schedule ) for ordered item shall be submitted to the office of the order placing authorities, for approval along with the letter / offer for inspection of material. Please note that each lot will be inspected at your works, which includes witnessing of all tests prescribed in IS.

19. **TYPE TEST CERTIFICATES:-**

Wherever applicable or called for photo copies of type test certificates from the Govt. Standard Test Laboratories in India or from Laboratories of International repute dully attested by “Competent Testing Authority” should be submitted.

**Type test reports/certificates for the test conducted on the tendered item/material shall not be older than 5 years on the date of opening of technical/commercial bid.**

**Important :**

The material should be type tested as per specification from **NABL** Accredited Testing Laboratory. The copy of test report must be furnished along with offer.

20. **RECOVERIES FOR LIABILITIES AGAINST OTHER CONTRACTS:-**

All amounts recoverable from the successful bidder against earlier orders with MPPKVVCo; Ltd; will be adjusted from payment due against the order that may be placed under this specification.

21. **ROYALTIES AND PETENTS:-**

All royalties for patent or any charges for usage or infringement there of that may be involved in the supply shall be included the offered price and the supplier shall protect purchaser against any claim thereof. Supplier is fully responsible for such contractual dealing and purchaser shall not be called upon to bear any such charges.

22. **COMPLIANCE OF REGULATIONS:-**

The supplier shall warranty that all goods covered under procurement, shall have been produced, sold, dispatched, delivered ,tested, in strict compliance with all applicable rules, Regulation including Industrial (Development and Regulation) Act 1951 and any amendment there under, labour agreement, working conditions and technical codes and requirements, as applicable from time to time.

The supplier should execute and deliver such documents, as may be needed, by the purchaser in evidence of compliance. All laws, Rules and Regulation are required to be incorporated in this reference. Any liability arising out of contravention of any of the laws shall be the sole responsibility of the vendor and the purchasers shall not be responsible in any manner whatsoever.

23. **CANCELLATION OF ORDER:-**

23.1 MPPKVVCo; Ltd; may upon written notice of default, terminate contract in the circumstances detailed hereunder:-

- a) If in the option of the MPPKVVCo; Ltd; the supplier fails to deliver the material within the time specified or during the period for which extension has been granted by the MPPKVVCo; Ltd .
- b) If in the option of the MPPKVVCo; Ltd, the supplier fails to comply with any of the other provisions of this contract or material is found not in accordance with prescribed specifications and or the approved samples.
- c) If as a result of stage inspection, it is revealed that material and/or, workmanship is sub-standard which is likely to affect the performance of the finished products a notice would be served by MPPKVVCo; Ltd; to the supplier to suspend further activities and to take urgent steps towards corrective measures, failing which the entire order would be cancelled.

23.2 In the event of such termination, the Company shall exercise the discretionary powers as:-

- a) To recover from the supplier then agreed liquidated damages as approved in the clause no.13 above.

**OR**

- b) To purchase from elsewhere after giving due notices to the supplier on account and at the risk of the contractor such stores/material not so delivered or others of similar description in respect of consignment not yet delivered.

**OR**

- c) To cancel the contract reserving MPPKVVCo; Ltd's right to recover damages.

- 23.3 Notwithstanding that the powers under clause( 23.2 a ,b, and c) referred to above, are in addition to the rights and remedy available to the MPPKVVCo; Ltd; under the law of India relating to contract.
- 23.4 In the event of risk purchase of stores of similar description, the opinion of the MPPKVVCo; Ltd; shall be final. In the event of action taken under the clause 23.2 (a) or (b) above, the supplier shall be liable to pay for any loss, which the company may sustain on that account but the supplier shall not be entitled to avail any saving on all such purchases made against the default.
- 23.5 The decision of the MPPKVVCo; Ltd; shall be final regarding the acceptability of the store supplied by supplier and the MPPKVVCo; Ltd; shall not be required to give any reason in writing or otherwise at any time for the rejection of the stores/material.
- 23.6 In the event, MPPKVVCo; Ltd; does not terminate the order as provided in clause 23.1 and 23.2 above, the supplier shall continue execution of this order, in which case he shall be liable to the Company for liquidated damages for the delay as per clause 13 until suppliers are accepted.

24 **ARBITRATION:-**

If, at any time, any question, dispute or difference, whatsoever shall arise between the purchaser and the supplier, upon, or in relation to or in connection with the contract, either party may forthwith give to the other, notice in writing of the existence of such question, dispute or difference, and the same shall be referred to the adjudication of two Arbitrators, one to be nominated by the purchaser and the other to be nominated by the supplier in the case of said Arbitrator not agreeing, then to adjudication of the Umpire to be appointed by the Arbitrator, whose, decision shall be final and binding on the parties and The arbitration shall be conducted as per provision of The Madhya Pradesh Madhyastha Adhikaran Adhinyam 1983, and of the rules there under and any statutory modification thereof shall be deemed to apply. The Arbitrators or the Umpire as the case may be, are bound to give a detailed speaking award assigning reasons for the findings.

Suppliers under the contract shall be continued by the Supplier during the arbitration proceedings, unless otherwise, directed in writing by the purchaser or unless the matter is such that the work cannot possibly be continued until the decision of the Arbitrator or of the Umpire, as the case may be, is issued.

25. **JURISDICTION**

Any dispute or difference, arising under, out of, or in connection with Tender/ contract order shall be subject to exclusive jurisdiction of court at Indore only.

26. **RANDOM TESTING:-**

26.1 Inspection of material before dispatch or waiver of inspection will not relieve the supplier from his responsibility to supply the material strictly in accordance with the specification.

26.2 In case, the samples fails to withstand the required test, the entire lot will be liable to be rejected( i.e. unused material so supplied) and the supplier will have to refund the amount paid, including all taxes and duties, as well as the test charges thereof, after inspection. Such quantities or rejected material as identified, shall be removed by the supplier and replaced in full at his own cost. MPPKVCo; Ltd; will not be responsible for levy of taxes on such rejected material and deduction shall be in totality.

26.3 In case of random checking of the supplies, if any deviation is noticed, a notice shall be given to the supplier, who shall arrange to depute his representative within 15 days for joint inspection. If during joint inspection any deviation is observed and material supplied is found not conforming to standards laid down in the relevant ISS, the MPPKVCo; Ltd; reserves the right to impose any appropriate penalty for full quantity of materials supplied against the order. The decision of the Discom in this respect shall be final and binding on the supplier.

26.4 After receipt of material at our Area Stores, random sampling shall be done and all acceptance tests as per specifications mentioned in **Schedule-II A & B (P.No. 24 to 30)** shall be got conducted at any Govt. recognized lab or **NABL accredited Lab. Please note that only after receipt of satisfactory results of Acceptance Test from aforesaid Labs. Material Receipt certificate shall be issued.**

27. **VARITION IN THE ORDERED QUANTITY:-**

A tolerance in the ordered quantity will be allowed to the extent of  $\pm 2\%$  (plus minus 2%) and not for each consignment. MRCs shall be issued for actual receipt of quantity only.

28. **SUBMISSION OF DESPATCH DETAILS:-**

On completion of supplies, a statement showing details of offer and supplies made shall be furnished to this office promptly i.e. in first week of following months in following Proforma:-

Page 1

| Sl. No. | Particular | Qty offered | Date of offer | Date of D.I. |
|---------|------------|-------------|---------------|--------------|
|         |            |             |               |              |

Page 2

| Qty. for which D.I. is given | Bill no. & Date | Qty supplied | Name of consignee |
|------------------------------|-----------------|--------------|-------------------|
|                              |                 |              |                   |

Page 3

| Liability intimated<br>By consignee | Details of remittance of<br>liability | Addl. Information | Remarks if any |
|-------------------------------------|---------------------------------------|-------------------|----------------|
|                                     |                                       |                   |                |

Similar information for supplies made during each month shall be submitted by the first week of subsequent month.

29. **CORRESPONDENCE:-**

Copies of all important correspondence regarding the order shall be endorsed to the following:-

- i) Concerned consignee
- ii) Concerned Sr. AO /Regional AO
- iii) S.E. (Stores), MPPKVVCL, G.P.H. Compound Pologround Indore
- iv) Chief Engineer (UR), MPPKVVCL, Jyoti Nagar UJJAIN.

**Executive Engineer (Pur)**  
**O/o.C.E. (UR).**

**SCHEDULE – I (PRICE & QUANTITY)**  
**SUPPLY OF 11 KV D.O. Fuse Unit**  
**TENDER SPECIFICATION No.CE/UR/PUR/2011-12/Tender-08 Due on 23.07.2011.**

| S. No. | Description of material | Quantity tendered (in Sets) | Quantity offered (in Sets) | Unit Rates (Rs. in both figure and words) in Sets. |             |  |                                    |   |   | Unit F.O.R. Destination price inclusive of all the charges, Taxes & duties (5+6+7+8+9-10) = (11). |
|--------|-------------------------|-----------------------------|----------------------------|--|-------------|--|------------------------------------|---|---|---|
|        |                         |                             |                            | Ex-works rate inclusiv of packing charges.         | Excise Duty | Forwarding & freight/Insurance charges | Sales Tax/ VAT. (specify clearly). | Entry Tax/Any other Tax. (specify clearly). | Conditional/ Unconditional rebate if any. |   |
| 1      | 2                       | 3                           | 4                          | 5  | 6           | 7                                      | 8                                  | 9   | 10  | 11  |
| 01     | 11 KV D.O. Fuse unit    | 4333                        |                            |  |             |  |                                    |   |   |   |

**NOTE :-**

1. As stated in clause 4 of Annexure – I, M.P. Paschim Kshetra Vidyut Vitaran Co; Ltd; Indore is a Registered Dealer for availing the benefit of concessional rate of Sales Tax. For this purpose, necessary declaration form shall be furnished after receipt of material at destination. This shall be kept in mind by the tenderer, while quoting the competitive prices.
2. Rates in various tapering steps shall not be considered.
3. The offers, with the rates given in any form/Proforma, other than that mentioned above, shall be summarily rejected and shall not be considered, in any case.
4. Payment of any type of Govt. statutory levies/ taxes will be responsibility of the tenderer.
5. Remark if any, may please be specified clearly.
6. **The quoted price should be “FIRM” and on F.O.R. destination basis inclusive of all taxes and duties.**
7. **The offer with quantity offered less than 50 % of quantity tendered will be summarily rejected and shall not be considered in any case.**

PLACE :  
DATE :

SIGNATURE OF TENDERER  
NAME IN FULL  
DESIGNATION/STATUS IN THE FIRM  
COMPANY SEAL

**SCHEDULE-II (A)****TECHNICAL SPECIFICATION OF 11 KV D.O. FUSE UNITS****1. SCOPE**

This specification provides for manufacture, testing at works before dispatch and delivery of 11 KV DO fuse units to respective Area Stores. This covers outdoor open, drop out expulsion type fuse suitable for installation in 50 Hz 11 KV Distribution System.

2. **APPLICATION** : The DO fuses are intended for use on Distribution transformers for protection / Isolation of the same during overload or fault conditions.

**3. APPLICABLE STANDARD**

Unless otherwise modified in this specification, the drop out fuse shall conform to IS:9385 (Part-I - III) as amended from time to time.

**4. CLIMATIC CONDITONS:-**

The climatic conditions where equipment are intended for installation could be taken as under:-

|    |  |   |
|----|--|---|
| 1  | Maximum temperature of air in shed                     | 45° C   |
| 2  | Minimum temperature of air in shed                     | 4°C   |
| 3  | Maximum relative humidity                              | 95%(The humidity some time approaches saturation point) |
| 4  | Minimum relative humidity                              | 10%   |
| 5  | Average no. of dust-storm days per Annum               | 40 days   |
| 6  | Average no. of rainy days per Annum                    | 90 days   |
| 7  | No. of months of tropical monsoon conditions per annum | 3 months  |
| 8  | Average annual rain fall                               | 1250 mm   |
| 9  | Maximum wind pressure                                  | 150 kg/sq. mm   |
| 10 | Altitude not exceeding                                 | 1000 meters.  |

(The limit of ambient temperature shall be 45° C peak and 35°C average over a period of 24 hours)

**5. DROP OUT FUSES :**

The drop-out fuses shall be expulsion type. This shall be 'D' type and out-door lift off type suitable for manual operation by an operating rod from the ground level. The drop out operation will be angular in vertical plane.

5.1 The equipment offered, shall be suitable for 11 KV 3 phase 50 C/S solidly grounded earthed neutral systems. It shall be designed for a normal current rating of 200 Amps.

5.2 The drop out fuses are required with Post Insulators. These shall be suitable for mounting on the structure. The bracket/channel hardware for DO fuses shall be provided with adequate sizes of nuts, bolts and washer for mounting on the structures of the purchaser.

## 6. POST INSULATORS

Each 11 KV DO fuse shall have two Nos. 11 KV Post Insulators. The insulator shall conform to IS:2544 of 1973 with latest amendment. The porcelain used for manufacture of DO fuse units shall be homogeneous, free from flaws or imperfections that might affect the mechanical or dielectric strength. They shall be thoroughly vitrified tough and impervious to moisture. The glazing of the porcelain shall be of uniform brown colour free from blisters, burns and other similar defects. Insulators of the same rating and type shall be interchangeable.

The porcelains and metal parts shall be assembled in such a manner that any thermal expansion differential between the metal and porcelain parts through range of temperature variation shall not loosen parts or create undue internal stresses which may affect the electrical or mechanical strength and rigidity. Each cap and base pin shall be made of high-grade cast steel or malleable steel casting and they shall be machine faced and smoothly galvanized. The cap and base shall be properly cemented with insulators to give perfect grip. Excess use of cement shall be avoided.

The suppliers shall invariably enclose with the offer, the type test certificate of MPPKVVCL design DO Fuse along with certified copy of the drawing and other relevant technical guaranteed particulars. Please note that offers without the type test reports/certificates will not be entertained and may be rejected.

6.2 Each 11 KV Post Insulators should have technical parameters as detailed below :

| Sr. No. | Particulars                                     | Values                                     |
|---------|---|--|
| i       | Nominal system voltage KV (rms)                 | 11   |
| ii      | Highest system voltage KV (rms)                 | 12   |
| iii     | Dry Power Frequency with stand voltage KV (rms) | 35   |
| iv      | Power Frequency puncture voltage KV (rms)       | 1.3 times the actual dry flashover voltage |
| v       | Impulse withstand voltage KV (rms)              | 75   |
| vi      | Visible discharge voltage KV (rms)              | 9  |
| vii     | Creepage distance in mm (minimum)               | 320  |
| viii    | Cantilever strength (KN)                        | 6.60                                       |

7. As stated above unless otherwise modified in this specification the drop out shall conform to IS:9385 (Part I to III) and as amended from time to time.

7.1 Rated Voltage : The rated voltage shall be 11 KV for 11 KV Fuses.

7.2 Rated Current : The rated current shall be 200 Amp. For 11 KV DO Fuses.

7.3 Rated Lightning impulse with stand voltage values for the fuse base :-

The rated lightning impulse withstands voltage both for positive and negative polarities shall be as given below :

| S.No. | Particulars                                | Values     |
|-------|--|------------|
| a.    | To earth and between poles                 | 75 KV Peak |
| b.    | Across the isolating distance of fuse base | 85 KV Peak |

7.4 Rated one minute power frequency withstands voltage (dry and wet) values for the fuse base.

| S.No. | Particulars                                | Values     |
|-------|--|------------|
| a.    | To earth and between poles                 | 28 KV Peak |
| b.    | Across the isolating distance of fuse base | 32 KV Peak |

## 7.5 Temperature Rise in Air above Ambient Temperature :

| S.No. | Particulars                         | Values  |
|-------|-------------------------------------|---|
| a.    | Brass contact silver faced terminal | 65°   |
| b.    | Terminals                           | 50°   |
| c.    | Metal parts acting as spring        | The temperature shall not reach such a value that elasticity and metal is changed |

## 7.6 Rated Breaking capacity :

The rated breaking capacity shall be 8 KA (a symmetrical). Submission of type test certificate of rated breaking capacity in case of 11 KV DO Fuse unit is essential (otherwise offer may be rejected).

**8. Main Contacts**

The main contacts of the DO fuse shall suitable for heavy duty, properly aligned and made from Brass material. These shall have good finish and smooth surface and shall be silver-plated. All the sharp edges shall be rounded off. These contacts shall be so designed to withstand highest short circuit breaking current that may be encountered during service. In nutshell the contact assembly shall ensure.

- (i) Electrodynamics withstands ability during short circuit without any risk of repulsion of contact.
- (ii) Thermal withstands ability during short circuits.
- (iii) Constant contact pressure even when the lower parts of the insulator stacks are subjected to tensile stresses due to linear expansion of connected bus bar or flexible conductors either because of temperature variation or strong winds.
- (iv) Proper alignment to ensure smooth operation of D.O. Fuse without adjustment.

**9. CONNECTORS :**

The connectors shall be made from Brass suitable for ACSR Squirrel, Weasel, Rabbit and Raccoon. The connectors should be bolted type having 4 bolts & groove to hold the conductor. All brass parts should be silver plated for corrosion resistance and efficient current flow. All ferrous parts should be hot dip galvanized as per the latest version of IS:2633. Nuts and bolts shall conform to IS: 1364 and should be holt dip galvanized. Spring washer should be Electro galvanized.

**10. FLY NUTS**

These shall be provided at both the ends of SRBP tube for tightening the fuse elements. The nut shall be provided with one flat washer of 25 mm dia. The arrangement shall be made to ensure that the fuse wire runs centrally inside the SRBP tube after tightening.

**11. SPRING STRIPS :**

The spring strips shall be of phosphore bronze multiline brush type having a high pressure contacts and should retain its tension under minimum continuous service current of 200 Amps at 90 degree C.

**12. OPERATING HOOKS :**

The brass operating hook shall be fixed over the SRBP tube in such a way that the barrel can be removed for replacing the fuse element by operating rod from the ground level.

The drop out fuse units shall operate efficiently; speed of operation shall not depend on the inclination of the fuse. However, the inclination of the fuse barrel shall be adjusted in such a way that the barrel does not drop by gravitational force.

**13. DO BARRELS :**

The DO Fuse Barrels shall be made from SRBP and shall conform to BSS: 1314. The agency shall furnish the test certificate for the fuse barrels offered for use in the drop out fuses along with each lot offered for inspection to the inspecting officer. The test certificates of SRBP barrel should indicate the following test results :-

- i. **DIMENSION**
  - (a) External dia :
  - (b) Wall thickness :
  - (c) Internal dia :
- ii. Max. wrapping in 12 " length of the tube :
- iii. Axial electric strength (Proof test in Oil 90 Degree C at 25 KV rms 50 C/s) The barrel should withstand this test at satisfactorily for one minute.
- iv. Radial electric strength (Proof test in : - do -  
oil at 90 degree C at 19KV rms 50 C/s)
- v. Surface electric strength (Proof test in air : - do -  
at room temp.(32 degree C) at 14 KV  
rms at 50 C/s.
- vi. Water absorption in 14 hours :
- vii. Resistance to Hot Oil :
- viii. Cohesion between layers :  
(Proof test)
- ix. Machineability

- 13.(ii) The supplier should indicate the name of manufacturers of SRBP roles from where they will purchase the barrels to make available the test certificate. The barrels should have the property to resist fire whenever the fuse is blown off. It should not catch fire easily during blowing off of fuse element inside the barrel which causes short time high temperature.

**14 DESIGN, MATERIALS AND WORKMANSHIP :-**

All materials used in the construction of the equipment shall be of the appropriate class, well finished and of approved design and material. All similar parts should be accurately finished and interchangeable. The connecting of cap and pin with insulator should be perfect to avoid any kind of loosening. After cementing the insulator should be cured adequately in water to attain good gripping.

**15 TESTS :**

Each D.O. Fuse units shall strictly comply with requirement of all the type tests and shall be subjected to all routine tests stipulated in the relevant standard. All tests shall be made prior to dispatch in the presence of the representative of the owner. No material should be dispatched without prior approval of the tests certificate by the purchaser.

Along with the inspection report of D.O. Fuse Units, the supplier should invariably furnish Routine Test Certificate of DO Fuse barrels & Post insulator from their respective manufacturers.

**16** Each DO Fuse Unit shall be provided with name plate of size 2”×1” on steel strip and shall be either riveted bolted or pasted.

The following shall be indicated on the plate :-

1. Name of manufacturer
2. Order No. and date
3. Sr. No. of the equipment
4. Rating ----- Amps. ----- Volts
5. Name of purchaser viz mode for MPPKVCL

Please note paper should not be used for name plate. The material should be packed in wooden cartoons.

**DIMENSION**

| <b>Sr. No.</b> | <b>Particulars</b>            | <b>Dimension of DO Fuse Unit in mm for 11 KV</b> |
|----------------|-------------------------------|--|
| 1              | Drawing No.                   | EB/0-6/MPSEB/5revised at<br>14.01.88             |
| 2              | MS Flat                       | 245×25×6   |
| 3              | MS Channel                    | -  |
| 4              | Fuse Barrels                  | 330×25×14  |
| 5              | Lower Contact Hinge of Barrel |  |
| i              | Connectors                    | 60×60×6  |
| ii             | Hinge Contact Length          | 95   |
| iii            | Hinge Contact Width           | 85   |
| iv             | Thickness of Hinge            |  |
|                | Outer                         | 5  |
|                | Inner                         | 4  |
| 6              | Barrel take out hook          |  |

|     |                                   |      |
|-----|-----------------------------------|------|
| i   | Width                             | 25   |
| ii  | Thickness                         | 4    |
| iii | Length                            | 30   |
| iv  | Inner dia meter                   | 25   |
| v   | Thickness between inner outer dia | 3 mm |
| 7   | Operating Hook                    |      |
| i   | Width                             | 18   |
| ii  | Thickness                         | 3    |
| iii | Inner Radius                      | 19   |
| iv  | Outer Radius                      | 22.5 |
| 8   | Female contact                    |      |
| i   | Main contact width                | 65   |
| ii  | Strip thickness                   | 1.5  |
| iii | Strip Length                      | 100  |
| iv  | Width                             | 20   |
| v   | Female contact height             | 75   |
| 9   | Female contact Holder             |      |
| i   | Length                            | 74   |
| ii  | Upper Width                       | 34   |
| iii | Lower Width                       | 40   |
|     | Creepage of insulator             | 320  |

**Note :**

Post Insulator of following standard makes or equivalent will be used for manufacturing of DO Fuse.

- i. M/s Alied Ceramics (P) Limited Calcutta.
- ii. M/s Jayashree Insulators, Rishra.
- iii. M/s Indian Potteries Limited Calcutta.
- iv. M/s Bharat Heavy Electrical, Bangalore.

**Executive Engineer (Pur)**  
O/o Chief Engineer(UR)  
M.P.P.K.V.V.Co.Ltd., Ujjain



**SCHEDULE – III****SCHEDULE OF QUESTIONNAIRE (CHECK LIST)  
PART “A”: GENERAL INFORMATION****(TO BE KEPT IN THE ENVELOPE PART –II, “COMMERCIAL/TECHNICAL BID)”**

- (\*) Strike off, whichever is not applicable.
- (\*) Separate sheets should be used, wherever necessary.
1. Name & Address of the Bidder :
  2. Name & Address of the firm/  
Company etc. :
  - a) Registered office :
  - b) Factory/ works address :
  - c) Telegraphic address :
  - d) Telex/fax Nos. :
  - e) Telephone Nos. :
  3. Mention whether tenderer is a  
Manufacturer or Authorised dealer. :
  4. Only manufacturer to give  
following particulars :
  - a) Address of factory :
  - b) Year of starting manufacture :
  - c) Whether the same /similar  
material manufactured earlier,  
(if yes, give reference) :
  - d) Yearly/monthly production capacity :
  - e) Maximum yearly production  
achieved so far. :

5. Whether the firm is an MP SSI Unit : Yes / No.
- a) If yes, write registration No. :
- b) Whether documentary evidence regarding registration enclosed. :
- c) Items of registration :
- d) Period of registration :
- e) Furnish latest copy of Competency certificate : Yes / No.
6. a) Whether the bidder is old participant with MPSEB/ MPPKVCo; Ltd; : Yes / No
- b) If yes, whether documentary evidence with details of orders received & executed during last five years, enclosed. :
7. Any other information that bidder may like to give in order to highlight his bid. :

PLACE:  
DATE:

SIGNATURE OF TENDERER  
WITH SEAL OF FIRM

NAME IN FULL  
DESIGNATION/STATUS

**SCHEDULE – III****PART “B”: COMMERCIAL INFORMATION****(TO BE KEPT IN THE ENVELOPE PART –II, “COMMERCIAL/TECHNICAL BID)”**

- \* Strike off, whichever is not applicable.
- \* Separate sheets should be used, wherever necessary.
- i) Earnest Money details : Bank draft/Bankers cheque/  
Cash with Sr. A.O,  
MPPKVCo;Ltd; Ujjain
- ii) Amount of EMD & full details : Rs.
- iii) If exempted, state : SSI Unit of M.P./small  
whether the bidder is Scale unit registered  
with NSIC/Fully owned  
Stated/Central Govt. Unit.
- iv) Whether reference of documentary : Yes/No  
evidence regarding exemption enclosed
2. Whether the offer is valid : Yes/No  
for 180 days from the date : (If no, state validity  
of opening of commercial/ period).  
Technical bid.
3. State whether the quoted :  
prices are FIRM.
4. **Offered Quantity** : \_\_\_\_\_Set / \_\_\_\_\_%
5. **MODE OF DESPATCH** :
- i) To supply the material on door delivery  
basis and through bank approved road  
Transporter, and
- ii) for payment after receipt of materials  
in good condition.
- 6. DISCOUNT:-**
- i) Whether any rebate/discount is offered :
- ii) If yes, whether the rebate is :  
unconditional/conditional
- iii) Rate/amount of rebate/discount :
- iv) If conditional sate condition

7. **PAYMENT TERMS:**  
Whether MPPKVCo; Ltd's;  
terms of payment is acceptable :  
to the tenderer.
8. **DELIVERY PERIOD:-**
- a) Commencement of supplies from :  
the date of order/approval of drawing
- b) Completion & supply date from the :  
date of LOI/Order
9. **PANALTY CLAUSE:-**  
Whether agreeable MPPKVCo; Ltd's;  
Penalty Clause. :
10. **GUARANTEE PERIOD:**  
Whether agreeable MPPKVCo; Ltd's;  
Guarantee Clause. :
11. **SECURITY DEPOSIT:-**  
Whether agreeable to furnish Board/  
MPPKVCo;Ltd's :  
Standard security deposit @ 10% of  
value of order, for faithful execution  
of the order and to cover performance  
Guarantee period.
12. Indicate State, Central Sales Tax : State  
Registration Number (Please note  
that in case of non-registration with  
Sales Tax Department Purchase : Central  
Tax as admissible shall be deducted by  
the purchaser form the bills of the supplier)
13. Whether photocopy of the clearance from : Yes / No  
the Income Tax & Sales Tax Dept. and  
profit & loss Account and Turn over for  
last 3 years up to the last financial year  
have been enclosed.
14. **EXETENSION ORDER:-**
- (a) Whether you are agreeable to accept : Yes / No  
extension order on the same on the  
same rates, terms & condition if any  
extension order is placed within 6 months  
from the date of placed on detailed order  
to the extent of 50% quantity indicated  
in main order.

- (b) Whether you are agreeable to accept order for additional quantity if place by other two DISCOMs i.e. CMD (CZ) Bhopal and CMD (EZ), Jabalpur. : Yes / No
15. Whether rates offered are applicable for part quantities also. : Yes / No
16. Have you noted that you have quoted total F.O.R. destination price inclusive of all taxes and duties in the price Schedule of the tender. :
17. Please furnish the break-up of following element included by you in your quoted price (The break-up in price have been asked for indicative purpose and shall not be payable extra). :
- (a) Excise Duty :
- (b) Sales Tax/Vat Tax & Surcharge :
- (c) Any other Taxes/Duties etc. :
- (d) Freight. :
- (e) Entry Tax. :

PLACE

SIGNATURE OF TENDERER  
WITH SEAL OF FIRM

DATE:

NAME IN FULL  
DESIGNATION/STATUS

**SCHEDULE – III****PART “C”: TECHNICAL INFORMATION****(TO BE KEPT IN THE ENVELOPE PART –II, “COMMERCIAL/TECHNICAL BID)”**

- \* Strike off, whichever is not applicable.
- \* Separate sheets should be used, wherever necessary.
1. a) Whether material offered : Yes / No  
is exactly as per the technical specification.
- b) If not, give details of technical :  
deviation (Information may be given  
in deviation schedule given with  
document for this purpose)
2. Whether the copies of orders : Yes / No. give details  
received during last 5 years from  
State Electricity Boards/ NTPC  
& form other organization for  
similar material enclosed.
3. Whether performance certificate : Yes / No. give details  
from such Organisation regarding  
supplies enclosed.
4. Whether pamphlets/technical : Yes / No. give details  
details, literatures etc. furnished  
with the offer.
5. Whether test certificates : Yes / No.  
in respect of chemical composition  
and physical properties of tendered materials  
from Govt./Govt. approved lab  
has been enclosed.
6. Whether the tenderer has furnished : Yes / No.  
details of manufacturing  
equipments and short history of plant.
7. Whether details of manufacturing : Yes/No.  
process furnished with offer.

8. a) Whether all testing facilities are available, if so, give details. In case of non-availability of facilities indicate approved lab. available in surrounding areas where tests are proposed to be conducted.
- b) Whether you agree for inspection by MPPKVVCo;Ltd;'s representative prior to despatch and bear the testing charges for all test as per relevant standards. : Yes / No. : (give full details if test to be conducted and reference of relevant standard specification).
9. If there are any deviations from the technical specification as described in the tender with the items offered by you the same shall be brought out separately in Part-C of Schedule –V. :

DATE:  
PLACE :

SIGNATURE OF TENDERER WITH SEAL.

**UNDERTAKING**

I, ----- Sole proprietor / partner of M/s. -----  
----- Undertaking that details given are correct to the best of my knowledge and I agree to abide by all your tender / order terms and conditions.

PLACE:  
DATE:

SIGNATURE OF TENDERER  
NAME IN FULL  
STATUS  
COMPANY SEAL

**SCHEDULE –IV****PART “A”****SCHEDULE OF PAST EXPERIENCE**

(TO BE KEPT IN THE ENVELOPE PART-II, “COMMERCIAL/TECHNICAL BID)”

Bidder’s Name &amp; Address:

To,

The Chief Engineer (Ujjain Region),  
MPPKVV Co. Ltd.,  
Jyotinagar UJJAIN.

**Sub: - Performance /past experience**

Dear Sir,

We furnished herewith the record of our performance and experience of quoted items as follows:-

| Sl. No. | Purchaser’s Name and Address | Order Number and Date | Ordered Quantity | Quantity supplied | Value Order. |
|---------|------------------------------|-----------------------|------------------|-------------------|--------------|
| 1.      | 2.                           | 3.                    | 4.               | 5.                | 6.           |
|         |                              |                       |                  |                   |              |

PLACE:

SIGNATURE OF TENDERER

DATE:

NAME IN FULL

DESIGNATION/STATUS IN  
THE FIRM  
COMPANY SEAL

Note: - Photocopy of the order & performance report received from other State Electricity Boards/Govt. undertaking etc. should be enclosed.

**SCHEDULE –IV****PART “B”****SCHEDULE OF COMMERCIAL DEVIATION**

(TO BE KEPT IN THE ENVELOPE PART-II, “COMMERCIAL/TECHNICAL BID”)

Bidder’s Name &amp; Address:

To,

The Chief Engineer (Ujjain Region),  
MPPKVV Co. Ltd,  
Jyotinagar UJJAIN

**Sub: - Commercial Deviation**

Dear Sir,

The Commercial Deviation & Variation to the specification stipulated in the tender,  
for the items quoted, as under:-

| Sl. | Condition | Clause No.<br>of Tender<br>document | Page No.<br>of Tender<br>document | Statement of<br>deviations and<br>variations. |
|-----|-----------|-------------------------------------|-----------------------------------|---|
| 1.  | 2.        | 3.                                  | 4.                                | 5.  |

2. Except aforesaid deviations, the entire order, if placed, on us shall be executed in accordance with your specifications and any other conditions, variations/deviations etc. if found, elsewhere in our offer should not be given any consideration while finalizing the tender.

PLACE :

SIGNATURE OF TENDERER

DATE:

NAME IN FULL

DESIGNATION/STATUS IN THE FIRM  
COMPANY SEAL.

Note: - Continuation sheet of like size & format may be used as per bidder’s requirement and shall be annexed to this schedule.

**SCHEDULE –IV****PART “C”****SCHEDULE OF TECHNICAL DEVIATIONS**

(TO BE KEPT IN THE ENVELOPE PART-II, “COMMERCIAL/TECHNICAL BID)”

Bidder’s Name &amp; Address:

To,

The Chief Engineer (Ujjain Region),  
MPPKVV Co. Ltd.,  
Jyotinagar UJJAIN.

**Sub: - Technical Deviations.**

Dear Sir,

The Technical Deviations & variations to the specifications stipulated in the tender,  
For the item quoted are, as under:-

| Sl. | Condition | Clause No.<br>Of Tender<br>document | Page No.<br>of Tender<br>document | Statement of<br>deviations and<br>variations. |
|-----|-----------|-------------------------------------|-----------------------------------|---|
| 1.  | 2.        | 3.                                  | 4.                                | 5.  |
|     |           |                                     |                                   |   |

2. Except aforesaid deviations, the entire order, if placed, on us shall be executed in accordance with your specifications and any other conditions, variations/deviations etc. if found, elsewhere in our offer should not be given any consideration while finalizing the tender.

PLACE :

DATE:

SIGNATURE OF TENDERER  
NAME IN FULL  
DESIGNATION/STATUS IN  
THE FIRM  
COMPANY SEAL.

Note: - Continuation sheet of like size & format may be used as per bidder’s requirement and shall be annexed to this schedule.

## **Schedule – V**

### **INDEX OF DOCUMENTS SUBMITTED BY THE BIDDER**

**(Kept in Part – II, envelop as a cover page)**

**Bidders are requested to indicate the page numbers of the following documents**

| <b>Sr. No</b> | <b>Particular</b>   | <b>Document Page No.</b> |
|---------------|---|--------------------------|
| 1             | If firm is Manufacturer indicate references.  |                          |
| 2             | Details of installed manufacturing capacity   |                          |
| 3             | If firm is Authorized Dealer, provide authorization letter.                                     |                          |
| 4             | Details of balance sheet for last 3 years.  |                          |
| 5             | Details of Present Commitments.   |                          |
| 6             | Details of Quality assurance system.  |                          |
| 7             | Sales Tax certification with tax clearance certificate or copies of latest challans submitted . |                          |
| 8             | Power of attorney of authorized signatory.  |                          |
| 9             | Original Tender form.   |                          |
| 10            | Original tender documents duly sealed and signed.   |                          |
| 11            | If type test required provide reference of certificates.  |                          |

| Sr. No | Particular  | Document Page No. |
|--------|---|-------------------|
| 12     | If ISI License required provide reference of ISI certificate. |                   |
| 13     | Reference of Schedule - III (A)                               |                   |
| 14     | Reference of Schedule – III (B).                              |                   |
| 15     | Reference Schedule - III (C).                                 |                   |
| 16     | Reference Schedule – IV(A).                                   |                   |
| 17     | Reference Schedule – IV (B)                                   |                   |
| 18     | Reference Schedule- IV(C).                                    |                   |

----- X -----