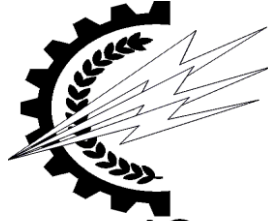


M.P.MADHYA KSHETRA VIDYUT VITARAN CO.LTD.

(A Wholly Owned Govt. of M.P. Undertaking)

BHOPAL



प्रकाश एवं विकास

**TENDER SPECIFICATION
NO.CMD/MK/04/228
(DUE FOR OPENING ON 11-10-2011)
FOR SUPPLY OF**

**33 KV & 11 KV OIL IMMERSED COMBINED
CT: PT (METERING EQUIPMENTS) UNITS OF
VARIOUS RATIOS**

**CHIEF GENERAL MANAGER (PUR),
OFFICE OF THE CHAIRMAN AND MANAGING DIRECTOR,
M.P. MADHYA KSHETRA VIDYUT VITARAN CO. LTD.,
NISHTHA PARISAR, BIJLINAGAR, GOVINDPURA, BHOPAL-462023**

PHONE NO.(0755)-2678325, 2602033 to 2602036

FAX NO. (0755)- 2589821

Website – www.madhyavitaran.nic.in

**OFFICE OF THE CHAIRMAN AND MANAGING DIRECTOR
M.P. MADHYA KSHETRA VIDYUT VITARAN CO. LTD
NISHTHA PARISAR, GOVINDPURA,
BHOPAL - 462023**

**TENDER SPECIFICATION NO. CMD/MK/04/228
DUE FOR OPENING: 11.10.2011**

Name of Item

***33 KV & 11 KV OIL IMMERSED COMBINED CT: PT
(METERING EQUIPMENTS) UNITS OF VARIOUS RATIOS***

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**OFFICE OF THE CHAIRMAN & MANAGING DIRECTOR
M.P. MADHYA KSHETRA VIDYUT VITARAN CO. LTD.
(A Wholly Owned Govt. of M.P. Undertaking)
NISHTHA PARISAR, BIJLINAGAR, GOVINDPURA, BHOPAL-23
PHONE NO. 0755-2602033-36 FAX NO.0755-2589821**

TENDER – NOTICE

MPMKVVCL, Bhopal, invites **online** bids from **manufacturers only** as per Tender Specifications on the website <http://mpmkvvc.mpeprocurement.gov.in>, under e-Procurement System as per details tabulated hereunder :-

Tender specn. Number	Particulars	Approx. value (Rs. in Lakhs)	Tender fee (in Rs.)	Date of Pre-Bid Conference	Last date of purchase of tender document by making payment online	Date of opening of tender (at 3.30 pm)
CMD/MK/04/228	Procurement of 33 KV & 11 KV Oil Immersed Outdoor combined CT:PT (Metering equipment) units of various ratio	585.13	2000.00	29.09.11	4.10.11	11.10.11

1. Tender documents can be purchased **only online** from <http://mmkvvc.mpeprocurement.gov.in> by making online payment for the Tender Document Fees **upto 04/10/2011**.

2. The Bid Data should be filled in and the Bid Seals (Hashes) of all the envelopes and the documents which are to be uploaded by the Bidders should be submitted online upto as per time schedule (Key Dates).

3. **The Pre Bid Conference with O/o CMD (CZ) will be held on 29.09.11 at 03.30 noon.**

4. The **EMD** of Rs. 50,000/- in favour of Sr. A.O (HOAU), MPMKVV Co. Ltd. payable at Bhopal along with **hard copy** of offer duly filled in & **supporting documents** *excluding Price & Quantity* should be dropped in the Tender Box of Purchase Section, O/o CMD (CZ), Bhopal by due date of opening of respective tender by 1500 hrs.

5. Since the online bidders are required to sign their bids online using Class III – **Digital Certificates** only, hence they are advised to obtain the same at the earliest. For further information, Contractors are requested to contact **Nex Tenders (India) Pvt. Ltd.**, A-6 Sahyog Parisar, E-8 Shahpura, Opp. Maakhan Lal University, Bhopal – 462 039, Tel No. 0755-4075010, Email Address : bhopal@nextenders.com

(Note : It may take upto 4 working days to issue Digital Certificates)

6. Bidders intending to participate in the Tender are required to get themselves trained on the e-Procurement System. The Bidders are required to contact the Service Provider - Wipro – Nex Tenders to confirm their session in advance.

(iii) The complete tender would be available on MPMKVVCL website www.madhyavitaran.nic.in but *only for* reference and for hard copy submission.

//save electricity//

**(SANJEEV P. PURANIK)
CHIEF GENERAL MANAGER (PUR)**



**OFFICE OF THE CHAIRMAN & MANAGING DIRECTOR
M.P.MADHYA KSHETRA VIDYUT VITARAN CO. LTD.
(A Wholly Owned Govt. of M.P.Undertaking)
NISHTHA PARISAR, BIJLINAGAR, GOVINDPURA, BHOPAL-23
PHONE NO. 0755-2678325, 2602033 to 2602036
FAX NO.0755-2589821**

Postal Order/Demand Draft No.....

.....

Tender issued to M/s

.....

TENDER FORM

The undersigned hereby tender and offer (subject to the Company's conditions of tendering) the MP Madhya Kshetra Vidyut Vitaran Co. Ltd., Bhopal 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. **CMD/MK/04/228** 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 2011

TENDERER'S SIGNATURE
(With Seal)

ANNEXURE – III**IMPORTANT INSTRUCTION TO BIDDER FOR SUBMITTING BID AGAINST
TENDER SPECIFICATION NO. CMD/MK/04/228**

1. Here are some of the very important instructions which every tenderer should read carefully for compliance before submitting his bid.

2. The tender is in three parts as explained below:-

(a) **PART - I:** This part is fulfilling the requirement of deposit towards Earnest Money. The tenderer in this envelope should put either the original money receipt in support of having deposited cash with Sr. A.O. (HOAU), MPMKVV Co. Ltd., Bhopal towards Earnest Money OR the Bank Draft for the purpose OR the photocopy of his permanent Registration with District Industries centre as SSI Unit of M.P. for the items quoted duly attested by the General Manager of DIC of the area. Photocopy of valid registration certificate issued by NSIC, for small or medium scale unit, as the case may (as validity of certificate is three years as per NSIC, the certificate should be re-validated, in case date of issue / last re-validation is more than three years old.)

(b) **PART-II: -** Envelope for this part shall contain Technical and Commercial aspects of the Bid and documents supporting the same.

(c) **PART-III: -** Envelope for this part shall contain only the Price Bid, Schedule-I (A&B) (**only Online**).

3. **METHOD OF SUBMISSION OF BIDS AND THEIR OPENING:**

(a) There have to be three envelopes for each of the Parts of the Bid as explained above in point No. 2. All the three envelopes shall then be put in one main envelope. The main envelope shall be super scribed as under:-

- | | |
|-------|---|
| (i) | "T.S. CMD/MK/04/228 DUE FOR OPENIGN ON 11.10.2011 |
| (ii) | "THIS ENVELOPE CONTAINS THREE ENVELOPES TOWARDS PART-I, II AND III OF THE BID" |
| (iii) | "IT IS CERTIFIED THAT WE CATEGORICALLY AGREE TO THE FOLLOWING CLAUSES OF THIS TENDER SPECIFICATION":- |
| (a) | PAYMENT TERMS : AGREED |
| (b) | SECURITY DEPOSIT : AGREED |
| (c) | PENALTY : AGREED |
| (d) | PERFORMANCE GUARANTEE : AGREED |
| (e) | P.V. CLAUSE : AGREED |

In absence of above certification on the main envelope itself, the same shall not be opened and the offer shall stand rejected.

(b) Even, after certification on the body of the main envelope, if any ambiguity is found in any part upon opening of the main envelope or even after opening of the subsequent envelopes, the offer shall be rejected.

(c) In addition to the superscription as detailed above on the main envelope, each of the three envelopes towards Part-I, II & III are to be super scribed as under:-

“Part-I/II/III, as the case may be, of Tender Specification No.CMD/MK/04/228 due for opening **11.10.2011.**”

(d) Upon successful verification of the fulfillment of the requirement of earnest money deposit on opening of envelope of Part-I, second envelope towards Part-II shall be opened on the same day. The price bid i.e. Part-III shall be opened on the same day or later on for the tenderers who have fulfilled the eligibility criteria of the tender.

4. The questionnaire appended in Schedule-V (A, B & C) should be very clearly answered.

5. The quoted prices should be “**VARIABLE**” and indicated strictly in the format appended with this Tender Specification in Schedule-I (A&B). The prices quoted in any other manner/format shall not be considered for evaluation of the tender.

6. The Company may not entertain any deviation from commercial terms & conditions as specified in the Tender Specification and the offers showing deviations are likely to be rejected.

7. Photocopies of the orders/performance reports received from other Electricity Boards/Govt. undertakings etc. should be enclosed, in case no orders received from MPEB in the past. However, the details of the past experience in respect of supply of tendered items either of MPSEB or of the other Boards/Utilities have to be given in Schedule-VII (A).

8. **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 the same rate is quoted by more than one bidder, suggestive of a cartel, then such offers may not be considered by the Company. It may also please be noted that the competitive rate quoted by each tenderer may be one of the main criteria quantity to be ordered on each successful bidder.

9. **BASIC QUALIFICATION OF BIDDERS:**

a) The bidding is open only to manufacturer who provide satisfactory evidence:

(i) As per clause -2 of Annexure-I appended herewith.

(ii) In case of new unit not yet executed order from MPSEB or its successor companies, should have minimum five years experience in the field of design, manufacturing of the equipment offered and have supplied 25% of the tendered quantity (assorted rating) to any State Electricity Boards, Power Utilities during last five years. The order copy and Material Receipt Certificate is required to be enclosed with the offer as documentary evidence.

10. **Type Test Certificates**:- The tenderers are advised to submit the following type test certificates as per relevant IS in force with type tested drawings from CPRI, ERDA or any NABL accredited test laboratory in India or from laboratories of International repute duly attested by “Competent Testing Authority” alongwith the tender invariably. **Type test**

reports/certificates for the tests conducted on the tendered item/material shall not be older than 5 years on the date of opening of technical commercial bid:-

- (i) Short time current test certificate as per IS: 2705/1992 for 33 KV & 11 KV Oil Immersed CT: PT (metering) units, for each ratio as per tender specification.
- (ii) Lightning Impulse test certificate as per IS: 3156/1992 IS: 2705/1992 for each ratio of 33 KV & 11 KV oil immersed CT: PT units.
- (iii) Temperature rise test certificate as per IS: 3156/1992 IS: 2705/1992 for each ratio of 33 KV & 11 KV oil immersed CT: PT units.
- (iv) High voltage power frequency wet withstand test certificate as per IS: 3156/1992, IS: 2705/1992 for each ratio of 33 KV & 11 KV oil immersed CT: PT units.
- (v) Determination of error/accuracy class.

11. EARNEST MONEY:

The tenderers shall deposit the Earnest Money amounting to Rs.50,000.00 as per details in Annexure-I. Please note that in case of units registered with DIC having permanent registration, (valid up to validity of the offer) has to produce necessary competency certificate.

12. To enable us quick and easy examination and evaluation of the bids, it is advised to follow below mentioned instructions while submitting bids:-

- (a) Photocopies of the orders/performance reports received from other Electricity Boards/ Govt. undertakings etc. should be enclosed, in case no orders received from MPSEB in the past. However, the details of the past experience in respect of supply of tendered items, either of MPSEB/Discoms or of the other Boards/Utilities have to be given in Schedule-VII (A).
- (b) The documents should be put in Part-II of the Bid in the following sequence:-
 - (i) Tender form in original.
 - (ii) Schedule-VI (Details of Type Tests carried out on Equipments alongwith copy of Type Tests certificate from Govt. recognized laboratory of National Repute).
 - (iii) Schedule-VIII (Source of procurement of raw material alongwith copy of invoice).
 - (iv) Questionnaire duly answered (Schedule-V Part-A, B & C).
 - (v) Schedule-VII (Part-A) (towards performance & past experience).
 - (vi) Schedule-VII (Part-B) (towards commercial deviations).
 - (vii) Schedule-VII (Part-C) (towards technical deviations).
 - (viii) Schedule-II [Technical Specification
 - (ix) Schedule-III (A&B) [Guaranteed Technical Particulars].
 - (x) Certificates towards capacity, sales tax clearance, income tax clearance or towards exemption of sales tax or excise duty.
 - (xi) Printed literatures towards technical specification etc.
 - (xii) Any other documents required as per the tender.
- (c) In part-III of the Bid, price bid only online, which should be strictly as per our prescribed format (Schedule-I (A&B))

(Sanjeev P. Puranik)
**CHIEF GENERAL MANAGER (PUR),
O/O CMD, MPMKV CL. LTD. BHOPAL**

ANNEXURE – I**GENERAL INSTRUCTIONS TO BIDDERS****1. GENERAL:-**

The Chief General Manager (Purchase), on behalf of the CMD, M.P. Madhya Kshetra Vidyut Vitaran Co. Ltd Bhopal here in after referred as "Company", will receive **Online** tenders / bids for procurement of 33 KV & 11 KV Oil Immersed combined CT: PT (metering equipments) units of ratios as indicated in Schedule-I (A&B) in accordance with the attached specification for supply at area stores Bhopal, Gwalior and Guna in Madhya Pradesh.

2. BASIC QUALIFICATION OF BIDDERS:-

This bidding is open for Manufacturers only.

(a) That they are qualified manufacturers who regularly manufacture the 33 KV & 11 KV Oil Immersed combined CT: PT (metering equipments) units and have adequate technical knowledge and practical experience.

(b) That they do not anticipate change in the ownership during the proposed period of contract i.e. 48 months from the date of supply of last consignment, (if such a change is anticipated, the scope and effect thereof shall be defined).

(c) That, they have adequate financial stability and status to meet the financial obligations pursuant to the scope of the assignments. (The Bidders should submit at least two copies of their profit and loss account and balance sheet for the last three years including Turn-over). The Bidder should furnish documentary evidence regarding execution of purchase order to Government. Departments/SEBs/NTPC etc in past three years.

(d) 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. If the present commitments are such that the installed capacity results inadequacy of the manufacturing capacities to meet the requirement of equipment / material corresponding to this bid, then the details of alternative arrangements to be organized by the Bidder for this purpose shall also be furnished.

(e) That they have established quality assurance system and organizations designed to achieve high level of quality equipment and reliability during their manufacturing activities. For this, quality assurance plan and action taken for implementing the same has to be furnished.

3. EARNEST MONEY:-

(i) The Tenderer shall deposit the Earnest Money amount vis-à-vis the value of the material offered as shown hereunder:-

	Value of Material	Earnest Money
(a)	Upto Rs. 10000/-	Rs. 100/-
(b)	Above Rs. 10000/- and upto Rs. 2.5 Lakhs	@ 1%
(c)	Above Rs. 2.5 Lakhs and upto Rs. 3.0 Lakhs	Rs. 2,500/-
(d)	Above Rs. 3.0 Lakhs and upto Rs. 7.0 Lakhs	Rs. 5,000/
(e)	Above Rs. 7.0 Lakhs and upto Rs. 15.0 Lakhs	Rs. 7,000/
(f)	Above Rs. 15.0 Lakhs and upto Rs. 25.0 Lakhs	Rs. 10,000/

(g)	Above Rs. 25.0 Lakhs and upto Rs. 35.0 Lakhs	Rs. 15,000/
(h)	Above Rs. 35.0 Lakhs and upto Rs. 50.0 Lakhs	Rs. 20,000/
(i)	Above Rs. 50.0 Lakhs and upto Rs. 75.0 Lakhs	Rs. 30,000/
(j)	Above Rs. 75.0 Lakhs and upto Rs. 100.0 Lakhs	Rs. 40,000/
(k)	Above Rs. 100.0 Lakhs	Rs. 50,000/

(ii) The tenderers are permitted to quote for part quantities and pay earnest money only to the extent of the participation on the basis of slabs specified above. If the earnest money amount is found to be less than required for corresponding value of the materials offered, the offer shall be limited to that quantity only.

(iii) The Earnest Money can be deposited in one of the following forms only:-

- (a) In cash, to be deposited with the Sr.A.O.(HOAU), MPMKVV Co. Ltd., Bhopal.
- (b) By Bank Draft in favour of "Sr.A.O.(HOAU), MPMKVV Co. Ltd., Bhopal".

No offer will be accepted without Earnest Money Deposit, unless exempted by the Board/Company. If on opening of tender any discrepancy in EMD amount is noticed, the tender shall be rejected and returned to the tenderer.

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

(a) SSI Units of Madhya Pradesh permanently registered with DIC / Ancillary Units of MPSEB. **The registration should be permanent and should be specifically for the items quoted in the tender and valid on date of opening of tender.**

(b) **Small Scale Units registered with NSIC:-** The small Scale Unit permanently registered with NSIC, whose registration certificate is valid for the item quoted on due date of opening of commercial and technical bid shall be entitled for exemption from EMD. (The renewal / amendment of certificate should not be more than 3 years old from the due date of opening of tender).

(c) The Medium / Large Scale Manufacturing Units, located in Madhya Pradesh (other than SSI / Ancillary units to MPSEB and Govt. undertaking) are permitted to furnish the EMD @ 50% (Half) of the rates prescribed above. 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.

(e) The photocopy of the NSIC / SSI Registration Certificate/Competency Certificate for the tendered items duly attested by GM / Manager, DIC of the area or an officer of MPMKVV Co. Ltd. not below the rank of EE, shall be furnished with the offer. In case of unattested copy, the original certificate should be produced at the time of tender opening for verification.

(f) All the SSI/NSIC units should quote / offer the material only to the extent they are registered for respective items with SSI / NSIC organisation. The certificate should be valid and duly renewed as the case may be.

(v) The bidder, who comes under above categories, should furnish documentary evidence with the offer, failing which his offer shall be rejected.

(vi) In case, the bidder withdraws this offer during the validity period, after placement of order, the EMD amount shall be forfeited.

(vii) **RETURN OF EARNEST MONEY TO UNSUCCESSFUL BIDDERS:-**

a) EMD shall be returned to the unsuccessful bidders, as soon as possible, 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 returned on acceptance of security deposit. No, interest shall be paid on EMD amount.

4. **TAXES AND DUTES:-**

4.1 MODVAT: - The Tenderer should confirm in his offer that effect of modvat has already been taken care of while quoting the prices.

4.2 **All taxes and duties should be indicated in the quoted prices. Any kind of taxes and duties shall not be paid extra in any case.**

4.3 M.P. Madhya Kshetra Vidyut Vitaran Company Ltd., Bhopal is a Registered Dealer and TIN Number is **23263605361**. Therefore necessary declaration form, wherever applicable, shall be issued after receipt of material at destination, by the M.P. Madhya Kshetra Vidyut Vitaran Company Ltd., Bhopal. Any other applicable declaration form for concessional rate of Sales tax/Commercial tax as may be in force shall be given only after the legal position is verified at our end.

4.4 Tenderers outside the State of M.P. should also include the prevailing rate of Sales Tax/Commercial Tax in the State of origin so that the concessional rate of CST payable against 'C' form may be limited to the Sales Tax applicable for State of origin, from where the material move, in case, these are lower than the concessional rate of CST.

5. **AMENDMENT IN SPECIFICATION:-**

The Company 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 as Amendment / Addendum to the invitation of tender.

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, CMD, M.P. Madhya Kshetra Vidyut Vitaran Co. Ltd, Nishtha Parisar, Bijlinagar, Govindpura, Bhopal (MP)-462023, on all working days indicated in tender notice between 10.30 hours to 15.00 hours only. Nobody is authorised to receive grant receipt for tender delivered by hand.

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

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

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

The Company 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 Board. No extension in time shall be granted on such grounds.

9. **ALTERNATIVE BIDS:-**

Bid should be submitted as per intent of tender documents; any alternative offers are liable to be rejected.

10. **MISTAKES IN BIDS:-**

Rates 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. Such offers can also be rejected.

11. **LUMP SUM BASED BIDS:-**

In case prices for some items or all items are given as a lump sum, instead of unit prices as required in the tender specifications, Company can summarily reject such incomplete tender.

12. **PRINTED TERMS AND CONDITIONS IN BIDS:-**

Supplier's printed terms and conditions will not be considered as forming part of the tender under any circumstances whatsoever it may be.

13. **ALTERATION – CORRECTION IN BIDS:-**

No alteration / correction in the tender document will be permitted.

14. **INCOMPLETE BIDS:-**

Tender which is incomplete or obscure is liable for rejection.

15. **ACCEPTANCE OF PART / WHOLE BIDS – RIGHTS THEREOF:-**

Company reserves the right to accept/reject wholly or partly any tender without assigning any reason whatsoever. No correspondence in this regard shall be entertained.

16. **AMBIGUITIES IN CONDITIONS OF BIDS:-**

In case of ambiguous or self contradictory terms / conditions mentioned in the bid, interpretation as may be advantageous to the Company may be taken without any reference to the tenders.

17. **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. Bidder 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.

18. **LANGUAGE OF BIDS:-**

All tenders should be made either in English or in Hindi only.

19. **INCOME TAX / SALES TAX CLEARANCE CERTIFICATE:-**

The bidder shall furnish Income 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 Income Tax and Sales Tax certificate or the reasons for the bidder's inability to furnish such a certificate are not furnished.

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

A “QUESTIONNAIRE” (Schedule V, Part A, B & C) alongwith specification is enclosed for technical/commercial details. It is compulsory on the part of the bidder to furnish all details as per the “Questionnaire”. In case, this is not filled in and enclosed with the offer, the bid will be rejected.

21. **DEVIATIONS FROM TERMS & CONDITIONS:-**

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

22. **PAST EXPERIENCE:-**

Supplier having past experience in manufacture and supply of material should furnish the list of supplies made (alongwith order copies) during the last 3 years for the materials supplied by them, as per enclosed Schedule – VI Part “A”. A certificate in this regard from the organisation to which supply is made in the past shall have to be furnished alongwith the offer, failing which the tender may not get any preference for his past experience.

23. **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 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 (A&B) (submit only online)**.

The cost of Tender document in case downloaded from mention above website shall be kept in a separate cover inside the main envelop and the main envelope should be superscribed stating.

(ii) Tender being submitted must be signed class 3 digital signature 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 authorised to submit the Tender on behalf of the Company and shall be accompanied with certified true copies of the resolutions, extracts of Articles of Association, special or general Power of Attorney etc. to show 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” and Part-III “Price Bid” (submit only online)**. 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. all the three parts shall be submitted each in duplicate.**

(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 the Price Schedule. Submitted **Online only** 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.....DUE FOR OPENING ON
FOR PROCUREMENT OF**
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"(Online)

Note:- Price Bids are to be submitted mandatorily 'ONLINE' and shall not be accepted in physical form in any case.

TO,

**THE CHIEF GENERAL MANAGER (PUR),
O/o CMD, M.P. MADHYA KSHETRA VIDYUT VITARAN CO. LTD.,
NISHTA PARISAR, BIJLINAGAR, GOVINDPURA,
BHOPAL – 462023 (M.P.)**

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

- | | | |
|-------|------------------------|----------|
| (i) | PAYMENT TERMS | : AGREED |
| (ii) | SECURITY DEPOSIT | : AGREED |
| (iii) | PENALTY | : AGREED |
| (iv) | PERFORMANCE GUARANTEE | : AGREED |
| (v) | PRICE VARIATION CLAUSE | : AGREED |

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

(v) In absence of such certification on the main envelope itself, the same shall not be opened and the offer shall be rejected.

(vi) Even after certification on the body of 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.

24. 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 authorised 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 of 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.

25. **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.

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

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 shall be eligible for opening of their Price Bid. The price bid shall be opened at a later date for which separate intimation will be sent to the tenderers, who have fulfilled the eligibility criteria of the Tender.

27. **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 authorised 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.

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

The materials as per the specifications are required to be delivered at area stores situated at Bhopal, Itarsi, Gwalior and Guna only. The prices quoted should be on **F.O.R. DESTINATION** anywhere in these Area Stores accordingly.

29. **VALIDITY OF BIDS:-**

The offers shall be **valid for 180 days**. Validity of the offer shall be counted from the date of opening of bids. 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.

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

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

31. **ACCEPTANCE OF TENDER:-**

- i) The Company may reject any or all tenders or to accept any tender considering advantageous to Company whether it is the lowest offer or not.
- ii) The Company may split the quantities against the tender on more than one firm for the same item. No reasons shall be assigned by the Company for this and the same will be binding on the tenderers.

32. CHANGE OF QUANTITY:-

The Purchaser reserves the right to vary the quantities of any or all items as specified in the technical specifications/schedules as may be necessary, based on Purchaser's judgement and vendor rating. No correspondence shall be entered into, nor discussed regarding quantity variation and no reason shall be assigned thereof in this regard.

33. 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 the Company. 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."

(Sanjeev P. Puranik)
CHIEF GENERAL MANAGER (PUR),
O/O CMD, MPMKVV CO.LTD. BHOPAL

ANNEXURE-II**GENERAL TERMS AND CONDITIONS OF PURCHASE****1. PRICES:-**

- (i) The quoted prices shall be variable. The bidders are advised to clearly indicate the charges/taxes/duties i.e. ex-work, excise duty, Central sales tax/MP VAT, freight charges and any other tax etc. for supply of material to any Area Stores at Bhopal, Gwalior & Guna in Madhya Pradesh.
- (ii) The bidders are advised to fill in the prices in schedule-I(A) and I(B) for 33 KV and 11 KV CT:PT units (MEs) respectively and keep them in independent envelopes. Both these envelopes shall be kept in one envelop marked "PRICE BID" part-III. The offers shall not be accepted in any other format.

2. PRICE VARIATION:-

The ex-works price shall be Variable as per IEEMA Price Variation formula annexed for instrument transformers up to 72.5 KV, both on plus & minus side without any ceiling. The basic price of the material and indices used shall be as published by IEEMA prevailing as on first working day of the month, one month prior to the date of tender i.e. **01.09.2011**.

3. TAXES & DUTIES :-

Excise duty, CST/VAT and statutory levies shall be paid at the rate prevailing at the time of delivery. No upward variation shall be payable beyond the contractual delivery period, where the supplier is responsible for the delays. The bidders are advised to quote the present rate of ED, ST/VAT etc. applicable to them. Wherever applicable bidders outside the State of M.P. should also quote the prevailing rate of Sales Tax/VAT in the state of origin so that the concessional rate of CST payable against "C" form may be limited to the Sales Tax applicable for the state of origin from where the material moves, in case these are lower than the concessional rate of CST.

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. TRANSIT RISK:-

(a) Responsibility regarding covering of risk during transit of material shall entirely be on the supplier. The Company 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 the Company 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.

7. DELIVERY SCHEDULE:-

(i) The supply of first lot of minimum 10% of order quantity shall be completed within 30 days from the date of approval of drawing subject to the condition that bidder will submit the drawing strictly within 15 days from the date of receipt of order. In case drawing are not submitted within specified period and the total time of 45 days shall be considered as supply period including drawing approval from the date of receipt of order. The balance supply shall be completed in 4 equal monthly installments thereafter. Early completion of supplies is also acceptable.

(ii) Deferment of deliveries:- MPMKVVCL reserves the right to defer the supplies or reschedule the delivery of the orders, if needed. The price variation shall be given for quantities deferred along with any change in excise duty, sales tax and any statutory levies.

(iii) 7 days shall be allowed for postal receipt of order.

8. FORCE MAJEURE:-

Force majeure condition is herein defined as:-

- (a) Natural phenomena, such as floods, draught, earth-quake 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 continuing 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 cause 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:- In case of much delay, the cause of force majeure condition will be taken into consideration only if the supplier within 15 days from the day of occurrence of such delay notifies. The company 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 Company shall be binding on the firm.

9. TERMS OF PAYMENT:-

- 9.1 Subject to completion of all contractual formalities, 100% payment alongwith excise duty and taxes corresponding to the consignment would be made within 45 days from the date of receipt of material at consignee in good condition against **MATERIAL RECEIPT CERTIFICATE (MRC)** issued by the consignee at the places given in Annexure-IV.
- 9.2 The supplier shall forward the original RR/MTR and Excise gate pass directly to consignee alongwith copies of following documents:-
 - (i) A copy of bill
 - (ii) Delivery challan
 - (iii) Original copy of excise duty gate passes alongwith a photo copy.
 - (iv) The inspection and/or T.C. approval.
 - (v) Detailed packing list.
- 9.3 The original bills in triplicate 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.
- 9.4 The following documents will have to be forwarded to the paying authority alongwith bills in triplicate:-
 - i) Bill/Invoice.
 - ii) Original copies of excise duty gate pass along with one photocopy.

- iii) The inspection and /or T.C. approval.
 - iv) Xerox copy of dispatch documents, i.e. RR/MTR etc.
- 9.5 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.
- 9.6 The bills valuing up to Rs. 10 lakh should be submitted to the concerned Sr. AO/RAO, MPMKVV Co. Ltd. respectively. In case bill value is more than the above amount, the bill should be submitted to the Director (Finance), O/o CMD, MPMKVV Co. Ltd., Bhopal for making payment.

10. **PENALTY:-**

(a) 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 Company as its option shall either:

- (i) recover from the supplier/contractor as agreed towards liquidate damages as sum of ½% (half percent) of the price of any stores not delivered per week or part there of subject to a maximum of 10% (ten percent) of the price of any stores not delivered.

OR

- (ii) Purchase from elsewhere on account and at the risk and responsibility of the supplier, the stores not delivered or others or similar description.

OR

- (iii) Cancel the contract for part or whole of the quantity on order, with liability.

(b) "For the purpose of calculating penalty, the date of receipt of offer of material in the office of CMD, MP Madhya Kshetra Vidyut Vitaran Co. Ltd., Bhopal shall be considered as the date of delivery subject to the condition that the offer has been received 15 days in advance of terminal date of scheduled delivery period and material delivered at stores within 21 days of despatch clearances. For early inspection, offer may be sent telegraphically or by telex/fax. The Company will not be responsible for any delays for ordinary/registered post inspection offers. Please note, in case material is not received within 21 days from the date of issue of despatch instructions, even though the delivery period exists, penalty shall be applicable on delay of despatch.

11. **PERFORMANCE GUARANTEE:-**

- (i) If during the course of 36 months subsequent to the date of dispatch of consignment, any of the goods found to be defective in materials or workmanship or develops defects during service, they will have to be replaced / repaired by the suppliers free of all charges. All necessary arrangements on this account will be made by the suppliers.
- (ii) The said material if required to be replaced / repaired, shall be collected by the supplier from Area Stores 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 Area Stores on freight paid basis at their cost in a reasonable time of 90 days from the date of intimation by the Area Stores.
- (iii) Unit once failed within guarantee period and returned to Area Stores duly repaired free of charges, shall be guaranteed for a minimum of 12 months or un-expired guarantee period left as on the date of failure of the unit, whichever is later.

- (iv) In case unit is subsequently failed within 12 months and the total period of service given by the unit is more than 24 months but less than 36 months, then unit shall has to be repaired again free of charges, by the supplier. In case the unit further fails within 12 months of its last return duly repaired, then the unit shall be repaired again free of charges by the supplier but the guarantee for the repaired unit, in this case, shall be for the un-expired period out of 12 months.

12. **SECURITY DEPOSIT:-**

- 12.1 On acceptance of offer, the supplier will have to deposit an amount of 10% of the total value of the order in cash or Demand Draft or Bank Guarantee as Security Deposit.
- 12.2 Cash to be deposited with Senior Accounts officer (HOAU), MPMKVV Co. Ltd., Bhopal and original receipt shall be produced to this office which shall be returned after conveying the acceptance of Security Deposit.
- 12.3 Demand Draft to be drawn in favour of Senior Accounts officer (HOAU), MPMKVV Co. Ltd., Bhopal drawn on any nationalized/scheduled Bank and payable at Bhopal.
- 12.4 Bank Guarantee in lieu of cash deposit on any nationalized/ scheduled bank strictly as per Company's proforma (to be supplied along with the order) valid sufficiently to cover the guarantee period in the office of CMD, MPMKVVCo Ltd, Bhopal.
- 12.5 All SSI Units registered with Industries Department of MP shall be required to pay Security Deposit for only 5% (five percent) value of the order, subject to maximum of Rs.20,000/- in cash or DD. This concession is for such SSI Units of M.P. who are doing business up to Rs.50 Lacs annually only.
- 12.6 The Security Deposit shall have to be deposited within 30 days of issue of order.
- 12.7 The Company shall forfeit the security deposit in the event of non-execution/ part execution of the orders/poor performance of supplier/contractor besides invoking the Penalty Clauses.
- 12.8 The Security deposit shall be returned to the successful tenderer 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 tenderers/ suppliers.
- 12.9 No interest shall be paid by the Company on security deposit furnished by the suppliers.

13. **EXTENSION ORDER:-**

The Company 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 order.

14. **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.

15. 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 CMD, MPMKVV Co. Ltd, Nishta Parisar, Govindpura, Bhopal, for approval alongwith 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 ISS.

16. (A) **TYPE TEST CERTIFICATE:-** - The tenderers are advised to submit the type test certificates as per relevant IS as per Sr. No. 10 of Annexure-III.

(B) **DRAWING & CATELOGUE:-** General arrangement drawing showing location & details of Metering unit of secondary termination box & other accessories, rating plate drawing, sectional, dimensional drawing & design details shall be submitted by the tenderer with their offer.

17. STAGE/ FINAL INSPECTION:-

i To ensure about the quality of CT:PT Units, the inspection shall be carried out by the Discom-CZ's representative/third party inspector at following two stages:-

(a) When the raw material is received, and the assembly is in process in the shop floor.

(b) At finished stage i.e. CT:PT Units are fully assembles and are ready for dispatch.

ii. After the main raw-materials i.e. CTs/core and coil materials and tanks are arranged and CT:PT Units are taken for production on shop floor and a few assembly have completed, the firm shall intimate the O/o CGM (PUR), MPMKVVCL, Bhopal in this regard, so that an officer /third party inspector for carrying out such inspection could be deputed, as far as possible within seven days from the date of intimation. During the stage inspection inspecting officer shall verify that the material and sizes of all the important components used are of good quality and as per TS and relevant IS requirement. Further, as and when the CT:PT Units are ready for dispatch, an offer intimation about the readiness for final inspection for carrying out tests as per relevant ISS and as in clause 9.2 of Schedule-II, shall be sent by the firm. Besides the tests as per IS, one no. CT:PT unit shall be dismantled to ensure that material and sizes of all the important components used are of good quality and as per TS and relevant IS requirement.

In case, the materials and sizes of all the important components used are not found to be of good quality and as per TS and relevant IS requirement, the lot shall be rejected and the firm shall have to reoffer the lot, which shall be accepted in the similar manner as above.

iii. No material shall be dispatched from the point of manufacture unless the material has been satisfactorily inspected, tested and after issue of dispatch instructions.

iv. The acceptance of any quantity of the equipment shall in no way relieve the successful bidder of his responsibility for meeting all the requirement of this specification and shall not prevent subsequent rejection if such equipment are later found to be defective.

(ii) **Factory Inspection:-**

(a) The factory inspection of the tenderers who have not executed any order of MPSEB shall be carried out before placing detailed order.

- (b) During pendency of the order, the factory inspection may be conducted by Company's authorized officers, as and when felt necessary, for ensuring production of quality material.

18. **FAKE INSPECTION CALL**:- All such firms who after giving inspection call do not offer materials to Inspecting officer for inspection due to one or other reasons, shall be required to remit a sum of Rs. 5,000/- per officer.

19. **ACCEPTANCE OF MATERIAL**

The MPMKVVCL has option to conduct Routine/Type tests/STC test with acceptance test on the samples from the consignment of material received at our consignee Area Stores before its acceptance from any of the lot to be supplied against the order. The said test shall be conducted on any one unit of the received lot.

The sample Unit shall be selected for conducting Type Test/routine tests/STC test with acceptance test from the lot of CT:PT units received in Area stores. The selected samples shall be sent with complete details for testing as per specification at any independent NABL accredited Laboratory like ERDA, CPRI etc. In case the sample unit fails in any of the Routine/Type tests/Acceptance test(with STC test), the entire lot shall be rejected.

The EE (stores) shall verify and ensure that the serial number and make is engraved on the sides of the CT:PT Units.

“The Type test/Acceptance test charges of NABL testing shall be borne by MPMKVVCL. In case the sample fails in Type test/Acceptance test, then the entire charges, including transportation & establishment expenses shall be recovered from the supplier.”

20. **PRICE CONSIDERATION ZONE (10% Above Lowest Acceptable Rate) :-**

Subject to fulfilling the financial, experience and techno-commercial criteria, the MPMKVVCL reserves the right to distribute the quantities amongst the bidders other than lowest also. The counter offer shall be limited to the bidders whose computed FOR rate including taxes, duties and freight, other levies is within the price band of 1.10 times of the lowest acceptable offer.

The offers of lowest 3 bidders confirming acceptance to all commercial and technical terms and conditions as also meeting technical requirements as per tender specifications and whose quoted prices are within above price consideration zone of 10% above Lowest Acceptable Rate shall be considered eligible.

21. **OFFERED QUANTITY:-**

The bidder who has quoted/offered the **Lowest Acceptable Rate** will be required to accept the quantity allocated, if it is within the offered quantity by him. In the event of non acceptance, the bid security (EMD) shall be forfeited, alongwith punitive action against the firm including debarring the firm for a period of five years for any business with Discom.

22. **DISTRIBUTION OF QUANTITY AMONGST ELIGIBLE BIDDERS**

(A) **In case lowest acceptable F.O.R. destination rate is from regular firm:-**

60% of proposed quantity to L-1 bidder (limiting the same to offered quantity) and balance 40% quantity amongst L-2 to L-3 bidders falling within price consideration zone of 10% above L-1 and at the price of L-1. The order shall be placed to L-3 when the offered quantity by L-2 is less than the balance 40% and at the price of L-1. However the bidders shall have to offer a minimum of 10% of the proposed quantity, below which there bid shall not be evaluated.

(B) In case lowest acceptable F.O.R. destination rate is from a new firm (not supplied material to Discoms of MP and whose supply performance is not known) and difference between L-1 & other eligible bidders is within price consideration zone of 10%:-

Capacity of the L-1 bidder or 50% of proposed quantity, whichever is lower, to L-1 bidder (subject to satisfactory inspection prior to placement of detailed order and limiting the same to offered quantity) and balance quantity amongst L-2 and L-3 bidders only falling within the price consideration zone of 10% above L-1 and at the price of L-1. Order shall be placed to L-3 when the offered quantity by L-2 is less than the balance 50%, at the price of L-1. However the bidders shall have to offer a minimum of 10% of the proposed quantity, below which their bids shall not be evaluated.

(C) In any of the cases of para 21 (A) and (B) above where L-2 & L-3 do not accept the counter offers.

If L-2 & L-3 bidders do not accept the counter offer for the quantity and price offered by the utility, the balance quantity shall be procured through retendering or by enhancement of the quantity on L-1. The L-1 will be required to accept the enhanced quantity provided it is within the offered quantity. In the event L-1 does not accept enhanced quantity, as above, bid security shall also be forfeited. Suitable provisions in this regard shall be incorporated in the bid documents.

23. UNSATISFACTORY PERFORMANCE

Even on fulfillment of all the criteria it may please be noted that:-

- (i) The bidders should not be debarred/black listed by any Discoms of MP including Central Zone Company. In such cases, the offers of such bidders shall be summarily rejected. An undertaking (self certification) to this effect has to be produced/enclosed by the bidders with their offer.
- (ii) In case of those bidders whose past performance has not been satisfactory against previous tenders of MPSEB / Companies formed on restructuring of MPSEB, they may not be considered for order. Following shall attribute to poor performance of a bidder:-
 1. Non-execution of previous order(s)/inordinate delay in supply of material.
 2. Failures of material in testing & non-replacement of the same by the supplier.
 3. Failures of material enmasse as reported by the field officers.

24. RECOVERIES FOR LIABILITIES AGAINST OTHER CONTRACTS:-

All amounts recoverable from the successful bidder against earlier contracts with the Board will be adjusted from payment due against the contract that may be awarded under this specification.

25. ROYALTIES AND PATENTS:-

All royalties for patent or any charges for usage or infringement there of that may be involved in the supply shall be included in 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.

26. 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.

27. **CANCELLATION OF ORDER:-**

27.1 The Company may upon written notice of default, terminate contract in the circumstances detailed hereunder:-

- a) If in the opinion of the Board, the supplier fails to deliver the material within the time specified or during the period for which extension has been granted by the Company.
- b) If in the opinion of the Company, 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 the Board to the supplier to suspend further activities and to take urgent steps towards corrective measures, failing which the entire order would be cancelled.

27.2 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. 9 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 Company's right to recover damages.

27.3 Notwithstanding that the powers under clause [22.2 (a), (b) & (c)] referred to above, are in addition to the rights and remedy available to the Board under the law of India relating to contract.

27.4 In the event of risk purchase of stores of similar description, the opinion of the Company shall be final. In the event of action taken under the clause 22.2 (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 any saving all such purchases made against the default.

27.5 The decision of the Company shall be final regarding the acceptability of the store supplied by supplier and the Company shall not be required to give any reason in writing or otherwise at any time for the rejection of the stores/material.

27.6 In the event, the Company does not terminate the order as provided in clause 22.1 and 22.2 above, the supplier shall continue execution of this order, in which case he shall be liable to the Company for liquid detail damages for the delay as per clause 9, until supplies are accepted.

28. **ARBITRATION:-**

If, at any time, any question, 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 provisions of the Indian Arbitrator Act 1940, 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.

29. **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 Bhopal only.

30. **VARIATION 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.

31. **CORRESPONDENCE:-**

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

- i) CGM (PUR), O/o CMD, MPMKV Co. Ltd., Bhopal
- ii) Dir.(Finance) O/o CMD, MPMKV Co. Ltd., Bhopal
- iii) Concerned consignee
- iv) Concerned Sr. Accounts Officer/Regional Accounts Officer

(Sanjeev P. Puranik)
**CHIEF GENERAL MANAGER (PUR),
O/O CMD, MPMKV CO.LTD. BHOPAL**

ANNEXURE –IV**LIST OF CONSIGNEE AREA STORES AND SENIOR/REGIONAL ACCOUNTS OFFICER**

Sr. No.	Name of Consignee	Name of Place to which material are to be despatched	Concerned Sr. AO/RAO MPMKVV Co. Ltd.
01.	Addl. SE/EE (Stores), MPMKVV Co. Ltd.	Bhopal	Bhopal
02.	Addl. SE/EE (Stores), MPMKVV Co. Ltd.	Gwalior	Gwalior
03.	Addl. SE/EE (Stores), MPMKVV Co. Ltd.	Guna	Guna

ANNEXURE –V**LIST OF SCHEDULED BANKS**

S.No.	Name of R.A.O./Sr. A.O.	Name of Bank.
1.	Bhopal	(i) State Bank of India,
		(ii) Allahabad Bank
		(iii) State Bank of India, Evening Branch
2	Gwalior	(i) State Bank of India
		(ii) Central Bank of India
3	Guna	(i) State Bank of India,
		(ii) Punjab National Bank

SCHEDULE-I (A)
(PRICE SCHEDULE)

(To be kept in the envelope Part-III "Price Bid")

Sl. No	Description of Material	Quantity (Nos)		base date as on	Unit Ex-works price including packing with (Rs.)	ED on Ex-works Price (indicating Amount) (Rs.)	Sales Tax/ VAT on ex-works Price + ED (indicating amount) (Rs.)	Forwarding & freight Charges (Rs.)	Any other levy/ duty etc.	Total FOR Destination Price (Rs.)	Entry Tax (Rs.)	Total FOR destination price including entry tax price (Rs.)
		Tendered	Offered									
1.	33 KV, 0.5 S Class Outdoor pole mounting type oil immersed Combined Metering Equipments (CT:PT units) of following CT ratio conforming to IS:2705:1992, IS:3156:1992 with latest amendment and technical specification attached:-			01.9.11								
i	400-200/5 Amps	190										
ii	200/5A	14										
iii	100/5A	14										
iv	50/5A	12										
v	30/5A	14										
vi	20/5A	67										
vii	10/5A	154										
viii	5/5A	175										

PLACE:

DATE:

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

SCHEDULE-I (B)
(PRICE SCHEDULE)

(To be kept in the envelope Part-III "Price Bid")

Sl. No	Description of Material	Quantity (Nos)		base date as on	Unit Ex-works Price including packing with (Rs.)	ED on Ex-works Price (indicating Amount) (Rs.)	Sales Tax/ VAT on ex-works Price + ED (indicating amount) (Rs.)	Forwarding & freight Charges (Rs.)	Any other levy/ duty etc.	Total FOR Destination Price (Rs.)	Entry Tax (Rs.)	Total FOR destination price including entry tax price (Rs.)
		Tendered	Offered									
1.	11 KV, 0.5 S Class Outdoor pole mounting type oil immersed Combined Metering Equipments (CT:PT units) of following ratio conforming to IS:2705:1992, IS:3156:1992 with latest amendment and technical specification attached:-			01.09.11								
i	7.5/5	16										
ii	15/5A	30										
iii	25/5	32										
iv	50/5	17										
v	300-150/5 Amps	358										

PLACE:

DATE:

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

SCHEDULE-II

TECHNICAL SPECIFICATION OF 11KV & 33KV OIL IMMERSED CT:PT (METERING EQUIPMENT) UNITS

1.0 SCOPE:

This specification covers design, engineering, manufacturing, testing and inspection before dispatch and delivery of Oil immersed naturally Air cooled (type ONAN) outdoor type 11 KV and 33 KV metering equipment (ME) units comprising of 3 nos C.Ts conforming to IS-2705: 1992 and 1 no three phase PT conforming to IS: 3156:1992. 11 KV and 33 KV ME units shall be suitable for 50 Hz frequency & for service under the system conditions having frequency fluctuations of +/- 4% and voltage fluctuation of + 9% / -13.5%.

2.0 STANDARDS:

The 11 KV and 33 KV oil immersed CT: PT unit (ME) and the associated accessories shall conform in all respect to the following relevant standard specification, with latest amendment there-to: -

Indian Standard specification	Title
IS 2705: 1992	Specification for Current Transformer
IS: 3156:1992	Specification for Voltage Transformers
IS: 335:1983	Specification of Transformers Oil
IS: 2099:1986	Specification for bushing for AC voltage above 1 KV
IS:5561	Specification for terminal connector
IS:4201	Application guide for current Transformer

3.0 CLIMATIC SERVICE CONDITIONS:

The 11 KV and 33 KV oil immersed CT: PT (metering equipment) unit to be supplied against this specification should be capable of performing and maintaining required accuracy under extreme hot, cold, tropical and dusty climate and solar radiation typically existing in the State of M.P. The 11 KV and 33 KV oil immersed CT: PT (metering equipment) unit shall be required to operate satisfactorily and continuously under the following tropical climatic conditions:

(a)	Maximum ambient air temperature	50°C
(b)	Maximum ambient air temperature in shed	45°C
(c)	Maximum temperature attainable by the ME exposed to sun	85°C
(d)	Minimum ambient temperature	(-) 5°C
(e)	Average daily ambient air temperature	40°C
(f)	Maximum relative humidity	95%
(g)	Number of months of tropical monsoon condition	4 months
(h)	Maximum altitude above mean sea level	1000 m
(i)	Average annual rain fall	150 cms
(j)	Maximum wind pressure	150 kg/sq.mm
(k)	Isoceraunic level (days per year)	50
(l)	Seismic level (horizontal accn.)	0.30 g
(m)	Permitted noise level	45.db

All the parts & surface, which are subject to corrosion shall either be made of such material or shall be provided with such protective finish, which provides protection from any injurious effect of humidity.

4.0 **PRINCIPAL PARAMETERS:**

11 KV and 33 KV combined CT:PT ME units shall be suitable for 50 Hz frequency & for service under the system conditions having frequency fluctuations of +/- 4% and voltage fluctuation of + 9% / -13.5%. The 11 KV and 33 KV oil immersed combined CT: PT (metering equipment) units shall be hermetically sealed and suitable for service under the system conditions as per following specific parameters:

Sl. No.	Particulars	Parameters	
		11 KV	33 KV
1.	Type of installation	Outdoor	
2.	System frequency	50 Hz \pm 4%	
3.	Normal System Voltage	11KV	33 KV
4.	Highest System Voltage for substantially long period	12KV	36 KV
5.	System voltage fluctuations	+ 9% & -13.5%.	
6.	System earthing	Solidly grounded	

5.0 **TECHNICAL REQUIRMENT:**

The 11 KV and 33 KV oil immersed combined CT:PT (metering equipment) units shall conform to the following specific parameters

S. n	Particulars	Requirement	
		11 KV	33 KV
1	Frequency.	50 HZ	
2	Specification of CT and PT of Metering Unit		
A	Current Transformer		
i	CT Ratio for consumer metering	As per requirement	As per requirement
ii	Dual CT ratio for Energy Audit	300-150/5A	400-200/5A
iii	Accuracy Class	0.5s	
iv	VA burden	10 VA	
v	Power Frequency withstand voltage	28KV(rms)	70KVrms
vi	Lightning impulse with stand voltage	75 KV (peak)	170 KV peak.
vii	Short time thermal current rating in KA.	(i) 6.4 KA for 1 Sec. for CT having primary current 5A to 10Amp. (ii) 13.1KA for 1 Sec. for CTs having primary current above 10A. (iii)13.1KA for 2 Sec for dual ratio.	
B	Potential Transformer (VT)		
i.	PT ratio	$\frac{11KV}{110V}$	$\frac{33KV}{110V}$
ii	VA burden per phase	30 VA	

	iii	Class of accuracy	0.5	
	iv	Power Frequency withstand voltage	28 KV (rms)	70 KV (rms)
	v	Lightning impulse with stand voltage	75 KV peak	170 KV peak
	vi	Winding connection	Star/ Star	Star/ Star
3		Maximum attainable winding temperature	85° C	
4	a	Minimum phase to phase distance	255mm	430mm
	b	Shortest distance between metal part & earth	190 mm	380mm
	c	Creepage distance of HV bushing	300mm (Min)	900mm (Min)
5		Gauge of the MS tank	- Min 5 mm for top cover and bottom - Min 3mm for tank sides	
6		Bi-metallic terminal connector with a nut, plain washer, spring washer & check nut suitable for DOG Conductor.	6 nos to be provided	

6.0 **CT: PT**

- 6.1 11 KV and 33 KV combined metering equipment unit shall comprise of 3 nos. CTs conforming to IS-2705:1992 and should not exceed the current ratio error and phase displacement error as prescribed therein and 1 no. three phase PT conforming to IS-3156: 1992 and should not exceed the ratio error and phase replacement as prescribed therein. The oil characteristics shall be conforming to IS-335:1983 & with latest amendments and upgrade, if any. The CT secondary winding shall be suitable for transformer oil filled equipment.
- 6.2 The primary of PTs shall be 3 phase star connected with HV side neutral floating. The primary winding has to be designed for unearthed neutral for the highest system voltage i.e. 36 KV for 33 KV and 12 KV for 11 KV. PT winding should have uniform insulation throughout from live terminal to neutral end, and not the graded insulation. The 11 KV metering unit should be suitably designed for with-standing the unbalanced voltages developed due to single phasing operation during load regulatory measures in 11KV distribution system. It should be capable of withstanding the disturbance of back e.m.f., magnetic characteristic and consequential mechanical inter-play of forces, if any, under such single phasing. Secondary winding of PT should be three phase star connected with neutral brought out. On secondary side of PT four terminals shall be marked as r, y, b and n. No PT fuses are to be provided either on primary side or on secondary side.
- 6.3 The conductor in the secondary winding of the CT shall not be less than 14 SWG/3.24 sq.mm. The material of the conductor/winding shall be copper.
- 6.4 Normal current density shall not be more than 1.6 Amps/ sq.mm. in primary winding of the CT. The material of conductor/winding shall be copper.
- 6.5 The primary winding shall be of adequate cross section to carry the rated current plus 20% percent overload continuously. **Calculation sheet in this regard to justify the size shall invariably be submitted with the offer.**

6.6 Size of the primary conductor or CT circuit shall be worked out on the basis of nominal current density and also to meet out requirements stipulated in clause 9.6 of IS 2705 (Part-I) 1992 relating to short time thermal current test. The requirements of size of conductor shall be worked out for both criteria and higher of the two cross section area will have to be adopted.

7.0 **COMBINED CT: PT TANK**

7.1 The metering equipments shall be contained in a weather proof out door double pole mounting type M.S. tank with 6 nos. of 11 KV / 33 KV weather proof bushings with Brass stud/HDHC Copper provided that proper mechanical strength in threads is available as per rating of combined CT:PT (metering equipment) units.\

7.2 Three nos. bushings on incoming and 3 nos. bushings on outgoing terminals i.e. (Main side & load side) with M and L indelibly marked/embossed on the top cover of MS tank to identify incoming and outgoing terminals of the metering unit shall be provided.

7.3 The tank should be given three coats of rust preventing paint and finished with light grey No.631-IS-5 on all external surfaces. The internal surface of the tank shall be painted with two coats of a suitable oil-insoluble paint.

7.4 The ME shall be supplied complete with duly filled Transformer oil conforming to IS:335-1982 with latest amendment thereof. The test certificate of oil being used shall be provided at the time of inspection. The oil in the ME shall be filled under vacuum. Oil drain valve or sampling cock or non return type oil filling valve provided to facilitate factory processing shall be sealed before dispatch of MEs.

7.5 The ME shall be hermetically sealed. The volume above the oil level in the tank shall be filled with Nitrogen gas conforming to commercial grade as per IS:1747:72. A suitable space needs to be provided for dry nitrogen in order to accommodate the volumetric expansion of oil due to change in temperature. The volume of space to be provided for dry nitrogen shall be atleast 10% in volume that of total quantity of oil in ME. **Bidder shall satisfy with calculations that for maximum temperature condition, the pressure generated will be below the diaphragm rupture pressure of explosion vent.**

7.6 The procedure for filling of dry nitrogen and making the unit hermetically sealed shall be as per manufacturer's standard practice.

7.7 Suitable size of conventional explosion vent (may be around 2 inch diameters) at a proper location shall be provided i.e. at any of the smaller sides of the metering Unit with proper clearance. The rupture pressure shall be 0.49 Kg/sq.cm.

7.8 The ME shall be fitted on HV side with outdoor type porcelain bushings of appropriate voltage & current. These bushings shall conform to IS:2099:1986. Further, sealing arrangement shall be such that oil should not leak out from the bushing/ME tank. For gasketed joints, wherever used, nitrite butyl rubber gaskets/neoprene or any other improved material shall be used. The gasket shall be fitted properly with adequate space for accommodating the gasket under compression. It should be ensured that the quality of gaskets used between the joints and also for mounting of oil level indicator will be of best quality to avoid leakage of oil. The quality of gasket should be selected keeping in mind the ambient temperature of 50°C. The end turns insulation of PT HV winding towards bushing side should be appropriately enhanced. The dimensions and electrical

characteristics of the bushing shall be in accordance with relevant ISS and its subsequent amendments, if any. The minimum electrical clearance between phases and phase to earth shall be provided as specified in relevant ISS.

- 7.9 During lowest temperature condition when oil level is lowest, atleast 30 mm incase of 33 KV CT:PT units and at-least 20mm in case of 11 KV CT:PT units of bushing bottom shall remain dipped in the oil. However it is to be ensured that during exigency, may be due to oil leakage or any other reason if bottom of bushing does not remain dipped in the oil, proper insulation is provided on the leads to avoid insulation failure.

Bidder shall submit clear dimensional drawing indicating the lowest oil level and physical location of bottom of bushing proposed to be used. This drawing shall also indicate the space/volume available above the oil level for dry nitrogen to accommodate expansion of oil without generation of under pressure.

- 7.10 The insulating materials for winding between HV & LV between interlayer of the winding and for end turn shall be as per relevant ISS. However, end turns have to be provided with enhanced insulation and lead connecting the bushing shall be provided extra insulation of fibre glass sleeve.
- 7.11 The metering equipment shall have a built in secondary terminal box. Entry of the cable into the box on the unit shall be through one no. gland and check nuts etc. Metallic cable gland to suit upto 10 core 4 sq.mm. armoured copper control cable shall be supplied. The secondary box shall be preferably on line side on top with a suitable arrangement that in case of water accumulation, it should be drained out automatically. The control cable entry in the secondary box should be from bottom.
- 7.12 In single ratio MEs, the location of the secondary terminal box shall be with top fitting cover and the level of the cover shall be aligned with top cover of ME. For Dual ratio MEs, the secondary box may be provided on side wall of the tank with side cover. The ratio changing arrangement (for dual ratio ME only) should be provided on secondary side. The top of the tank will have slope to drain the rainwater.
- 7.13 Top cover flange of metering unit should be provided with holes for proper sealing arrangement at all four corners of the tank and cover. Secondary terminal box cover should have 8 nos. nuts & bolts with hole for sealing arrangement. For this, 8 nos. holes should be provided on the cover & flange of secondary terminal box at the corners & middle of each face for fixing nut bolts.
- 7.14 The metering unit shall be provided with non-detachable anodised aluminium name plate showing position of the terminals, their marking, connection diagram along with the information as specified in IS: 2705 and IS: 3156 i.e. type, voltage ratio, CT ratio, rated burden, class of accuracy, sr. no. of unit, order no. & date, month and year of dispatch etc. of metering unit. Further, MS plate size 125 x 125 mm be got welded on width side of metering unit for fixing of the nameplate.
- 7.15 For gasketed joints, wherever used, nitrite butyl rubber gaskets, neoprene or any other improved material having a thickness of 3 mm or more shall be used. The gasket shall be fitted properly with adequate space for accommodating the gasket under compression. Bidders shall submit complete details and justify that the quality of gaskets used between the joints to avoid leakage of oil and also for mounting of oil level indicator of adequate size which is able to indicate the level of oil for the minimum temperature condition and also for the maximum temperature. The tank shall be of robust construction having thickness of top and bottom sheet of minimum 5mm and all the sides of tank made up of

minimum 3 mm sheet. The welded joints of the metering unit shall be strengthened by providing 25 x 25 x 3mm angle all along the welded length and welded properly inside the tank. All joints of the tank and fitting shall be oil tight. The tank shall be reinforced by welded angle of size 25 x 25 x 3mm on the entire outside wall on the edge of the tank to form two equal compartments. One face of reinforcement angle should be continuous welded with the tank surface such that other side of the angle forms inverted "L".

7.16 The CT & PT winding within the tank shall have proper mounting arrangement. Floating windings with paper insulation are not acceptable. The windings must be secured & fixed to guard against physical movements during transit and/or during system short circuits. This shall be got verified during final inspection of the lot, on opening of one CT:PT Unit at firms work.

7.17 The mounting of the bushing on the metering equipment should be in oblique plane particularly in case of single ratio metering unit. CT primary and secondary terminals shall be marked clearly as indicated in Annexure-C of IS: 2705, the terminal marked P1 of primary and S1 of secondary in case of current Transformer and corresponding in case of PT shall have the same polarity at any instant.

On secondary side of PT, four terminals shall be marked as r, y, b and n.

7.18 The metering unit shall have the following:-

- (i.) Riveted Rating and Diagram plate (with mention of Guarantee Period). In addition to this, Name of the firm, Order no. & dt., Rating of CT:PT Unit and Serial No. shall be engraved on a small plate of size 125mm x 125mm, which shall be welded to the tank at suitable location to form as integral part of the tank. These shall be verified by the EE(Stores) prior to issue of MRC.
- (ii.) 4 Nos. welded lifting lugs of MS plate 4 mm thick.
- (iii.) 2 Nos. base mounting channels size 75 x 40 mm across length of metering unit.
- (iv.) 2 Nos. earthing terminals with lugs.
- (v.) Provision of 6 nos. threaded Bi-metallic clamps suitable for Dog conductor.
- (vi) Area of contact of clamp should be minimum 1 Amp/Sq.cm.
- (vii.)The terminal connector shall conform to the latest version of IS:5561. In respect of terminal connectors following should be ensured.
 - a. The terminal connector should be made of A6 Aluminium Alloy and manufactured by gravity/pressure die-cast.
 - b. All castings shall be free from blow holes, surface blisters, cracks and cavities. All sharp edges should be rounded off.
 - c. No part of clamp shall be less than 12 mm thick
 - d. The bimetallic strips/sleeves shall be minimum 2 mm thick
 - e. all nuts/bolts/washers shall be of stainless steel.
 - f. The conductor should be tightened by minimum 4 bolts. Conductor hold length shall be minimum 60 mm.
- (viii) The distance between the holes of mounting channel shall be 445 mm in case of 33 KV & 305 mm in case of 11 KV MEs.

8.0 EARTHING:

The assembly comprising of chassis, frame work and the fixed parts of the metal casing of the combined CT:PT metering equipment shall be provided with two separate earthing terminals in accordance with clause 5.2 of IS:3156 (part-I)

9.0 TESTS:

The design of metering unit shall be type tested for short time current test, temperature rise test, lightning impulse test, accuracy test, high voltage power frequency voltage withstand test as per IS-2705/1992 and IS-3156/1992 (with latest amendment) from CPRI, ERDA or any other NABL accredited lab. The test certificates should not be more than five years old on the date of opening of tender.

9.1 ROUTINE TEST

Each of completely assembled metering unit shall be subjected to the following routine tests at the manufacturer's works in accordance with the details specified in IS:2705 and IS:3156 :-

- a. Verification of terminal marking and polarity test of CT and PT of metering unit
- b. Power frequency dry withstand test on primary winding of CT and PT of metering unit.
- c. Power frequency dry withstand test on secondary winding of CT and PT of metering unit.
- d. Over Voltage inter turn test on CT of metering unit.
- e. Determination of errors or other characteristics according to requirements and class of accuracy of CT and PT of combined Metering Equipment.
- f. Induced voltage test on PT of metering unit.
- g. Pressure test on tank of metering unit at 0.8 kg./ sq.cm. for 30 minutes.
- h. Ratio & phase angle error test of CTs of metering unit.
- i. Insulation Resistance test with 1 KV meager.

(Sanjeev P. Puranik)
CHIEF GENERAL MANAGER (PUR),
O/O CMD, MPMKV CO.LTD. BHOPAL

SCHEDULE-III (A)**GUARANTEED TECHNICAL PARTICULARS OF OUTDOOR OIL
IMMERSED 33 KV ME (CT: PT UNITS)**

S. no	Particulars	Requirement	Offered
1	Nominal System Voltage	33 KV	
2	Highest System Voltage	36 KV	
3	Frequency.	50 HZ	
4	Specification of CT & PT of Metering Unit		
A	Current Transformer (300-150/5A)		
	i	Type	Oil immersed
	ii	Accuracy Class	0.5 S
	iii	Rated output	10 VA
	iv	Insulation level	70KVrms/ 170 KVpk.
	v	Short time thermal current rating	- Single Ratio up to and including 10 Amps – 6.4 KA for 1 second - Single Ratio above 10 Amps -13.1KA for 1 second - Dual Ratio – 13.1KA for 2 second
	vi	Saturation factor	To be indicated
	vii	Normal current density of primary winding	≤1.6 Amps per Sq.mm
B	Potential Transformer		
	i	Type	Oil immersed
	ii	PT ratio	33KV/110V
	iii	Rated output VA/phase	30
	iv	Class of accuracy	0.5
	v	Insulation level	70KVrms/ 170 KVpk
	vi	Winding connection	Star/Star
	vii	Rated voltage factor & duration	To be indicated
	viii	Method of Connection HV LV	
5.	Dimension of MS tank		
	a	Height mm	To be indicated
	b	Breadth mm	
	c	Length mm	
6.	Thickness of MS Tank Side walls, Top, Bottom	3mm, 5mm,5mm	
7.	Weight of core and winding		
A.	Current transformer		
	i	Core	To be indicated in separate for each rating
	ii	Primary winding	

	iii	Secondary winding			
B.	Potential transformer				
	i	Core	To be indicated		
	ii	Primary winding			
	iii	Secondary winding			
8.	Quantity of oil in Ltr		To be indicated		
9.	Total weight of complete ME including all accessories and oil		To be indicated		
10	Resistance of primary & secondary winding at 75° C per phase :-				
	a	CT Winding (i) Primary	To be indicated		
		(ii) Secondary	To be indicated		
	b	PT Winding (i) Primary	To be indicated		
		(ii) Secondary	To be indicated		
	11	Maximum attainable winding temperature		85° C	
12	a	Minimum phase to phase distance	430mm		
	b	Shortest distance between live part & earth	380mm		
13	a	Make & type of HT bushing	To be indicated		
	b	Creepage distance of HV bushing	900mm (Min)		
14	Bi-metallic terminal connector with nut, plain washer, spring washer & check nut suitable for DOG Conductor		6 nos. to be provided with conductor hold length not less than 60 mm		
15	Type of core material		To be indicated		
16	Type & thickness of gasket used on				
	a	Top cover & tank	To be indicated		
	b	Secondary terminal box	To be indicated		
	c	HV & LV bushings	To be indicated		
17	Details of Metering Unit				
A	CT details				
	a	Cross section area of each turn of CT winding (in sq. mm.)			
	i.	Primary winding	To be indicated		
	ii.	Secondary winding	To be indicated		
	b.	No. of turns			
	i.	Primary winding	To be indicated		
	ii.	Secondary winding	To be indicated		
	c.	Winding material			
	i.	Primary winding	To be indicated		
	ii.	Secondary winding	To be indicated		
	B	PT details			
		a	Cross Section area of each turn of PT (in sq. mm.)		
i.		Primary winding	To be indicated		
ii		Secondary winding	To be indicated		
b		Number of turns			
i.		Primary winding	To be indicated		
ii		Secondary winding	To be indicated		

	c	Winding materials	
	i.	Primary winding	To be indicated
	ii	Secondary winding	To be indicated
18	Size of conservator & its capacity		
19	Type, size, material and location of explosion vent		
20	Identification/markings		
	i.	Primary terminals	
	a	Incoming	RM, YM, BM
	b	Outgoing	RL, YL, BL
	ii	Secondary terminals	
	a	CTs	1s1- 1s2- 1s3, 2s1-2s2- 2s3, 3s1-3s2- 3s3
	b	PTs	r,y,b,n
19	Size and material of		
	i.	Primary studs	M16
	jj	Secondary studs	M6

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

SCHEDULE-III (B)**GUARANTEED TECHNICAL PARTICULARS OF OUTDOOR OIL
IMMERSED 11 KV ME (CT: PT UNITS).**

S n	Particulars	Requirement	Offered
1	Nominal System Voltage	11 KV	
2	Highest System Voltage	12 KV	
3	Frequency.	50 HZ	
4	Specification of CT & PT of Metering Unit		
A	Current Transformer (200-100/5A)		
	i	Type	Oil immersed
	ii	Accuracy Class	0.5 S
	iii	Rated output	10 VA
	iv	Insulation level	28KVrms/ 75 KVpk
	v	Short time thermal current rating	- Single Ratio up to and including 10 Amps – 6.4 KA for 1 second - Single Ratio above 10 Amps -13.1KA for 1 second - Dual Ratio – 13.1KA for 2 second
	vi	Saturation factor	To be indicated
	vii	Normal current density of primary winding	≤1.6 Amps per Sq.mm
B	Potential Transformer		
	i	Type	Oil immersed
	ii	PT ratio	11 KV/110V
	iii	Rated output VA/phase	30
	iv	Class of accuracy	0.5
	v	Insulation level	28KVrms/ 75 KVpk
	vi	Winding connection	Star/Star
	vii	Method connection HV LV	To be indicated
vii	Rated voltage factor & duration	To be indicated	
5.	Dimension of MS tank		
	a	Height mm	To be indicated
	b	Breadth mm	
	c	Length mm	
6.	Thickness of MS Tank Side walls, Top, Bottom	3mm, 5mm, 5mm	
7.	Weight of core and winding		
A.	Current transformer		
	i	Core	To be indicated in separate sheet for each rating
	ii	Primary winding	
	iii	Secondary winding	

B.	Potential transformer			
	i	Core	To be indicated	
	ii	Primary winding		
	iii	Secondary winding		
8.	Quantity of oil in Ltr		To be indicated for each	
9.	Total weight of complete ME including all accessories and oil		To be indicated	
10	Resistance of primary & secondary winding per phase at 75° C:-			
	a	CT Winding (i) Primary	To be indicated in separate sheet for each rating	
		(ii) Secondary		
	b	PT Winding (i) Primary	To be indicated	
(ii) Secondary		To be indicated		
11	Maximum attainable winding temperature		85° C	
12	a	Minimum phase to phase distance	255mm	
	b	Shortest distance between metal part & earth	190 mm	
13	a	Make & type of HT bushing	To be indicated	
	b	Creepage distance of HV bushing	300mm (Min)	
14	Bi-metallic terminal connector with minimum 4 nos. nut, plain washer, spring washer & check nut suitable for Raccoon Conductor		6 nos to be provided with conductor hold length not less than 60 mm	
15	Type of core material		To be indicated	
16	Type & thickness of gasket used on			
a	Top cover & tank		To be indicated	
b	Secondary terminal box		To be indicated	
c	HV & LV bushings		To be indicated	
17	Details of Metering Unit			
A	CT details			
	a	Cross section area of each turn of CT winding (in sq. mm.)		
	i.	Primary winding	To be indicated in separate sheet for each rating	
	ii.	Secondary winding		
	b.	No. of turns		
	i.	Primary winding	To be indicated in separate sheet for each rating	
	ii.	Secondary winding		
	c.	Winding material		
	i.	Primary winding	To be indicated	
	ii.	Secondary winding	To be indicated	
B	PT details			
	a	Cross Section area of each turn of PT (in sq. mm.)		
	i.	Primary winding	To be indicated	
ii	Secondary winding	To be indicated		

	b	Number of turns	
	i.	Primary winding	To be indicated
	ii	Secondary winding	To be indicated
	c	Winding materials	
	i.	Primary winding	To be indicated
	ii	Secondary winding	To be indicated
18	Size of conservator & its capacity		
19	Type, size, material and location of explosion vent		
20	Identification/marketing of		
	i.	Primary terminals	
	a	Incoming	RM, YM, BM
	b	Outgoing	RL, YL, BL
	ii	Secondary terminals	
	a	CTs	1s1- 1s2- 1s3, 2s1-2s2- 2s3, 3s1- 3s2- 3s3
	b	PTs	r,y,b,n
21	Size and material of		
	i.	Primary studs	M16
	jj	Secondary studs	M6

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

SCHEDULE-IV**PRICE VARIATION CLAUSE FOR INSTRUMENT TRANSFORMERS
BELOW 72.5 KV**

(Applicable for Current and Potential Transformers designed for operation on system voltage below 72.5 KV)

The price quoted/confirmed is based on the input cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials, index number for instrument transformers and all India average consumer price index number for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and Index numbers, the price payable shall be subject to adjustment up or down in accordance with the following formula:-

$$P = \frac{P_o}{100} \left(18 + 18 \frac{C}{C_o} + 20 \frac{ES}{ES_o} + 10 \frac{IS}{IS_o} + 12 \frac{ER}{ER_o} + 09 \frac{TB}{TB_o} + 13 \frac{W}{W_o} \right)$$

Wherein,

P = Price payable as adjusted in accordance with the above formula.

P_o = Price quoted/confirmed.

C_o = Average LME settlement price of copper wire bars (refer notes)
This price is as applicable for the month, two months prior to the date of tendering.

ES_o = C&F price of CRGO Electrical Steel Sheets (refer notes)
This price is as applicable on the 1st working day of the month, one month prior to the date of tendering.

IS_o = Wholesale price index number for 'Iron & Steel (base:1993-94=100)' (refer notes)
This index number is as applicable for the week ending 1st Saturday of the month, three months prior to the date of tendering.

ER_o = Price of Epoxy Resin (refer notes)
This price is as applicable on the 1st working day of the month, one month prior to the date of tendering.

TB_o = Price of Transformer Oil base stock (refer notes)
This price is as applicable on the 1st working day of the month, one month prior to the date of tendering.

W_o = All India average consumer price index number for industrial workers, as published by the labour bureau, Ministry of Labour, Govt. of India (Base 1983=100)

This index number is as applicable for the first working day of the month, three months prior to the date of tendering.

For example, if date of tendering falls in October-2005, the applicable prices of Copper Wire Bars(C_o) and Transformer Oil Base Stock (TB_o) should be for the month August-2005, where as the applicable price of CRGO Electrical Steel Sheets (ES_o)and Epoxy Resin (ER_o) should be as on 1st September-2005 and wholesale price index number for 'Iron & Steel' (IS_o) should be for the week ending first Saturday of July-2005 and all India average consumer price index number (W_o) should be for the month of July-2005.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA(PVC)CTPT/___/___ prevailing as on first working day of the month i.e. one month prior to the date of delivery:-

C = Average LME settlement price of copper wire bars (refer notes)

This price is as applicable for the month, two months prior to the date of delivery.

ES = C&F price of CRGO Electrical Steel Sheets (refer notes)

This price is as applicable on the 1st working day of the month, one month prior to the date of delivery.

IS = Wholesale price index number for 'Iron & Steel (base:1993-94=100)' (refer notes)

This index number is as applicable for the week ending 1st Saturday of the month, three months prior to the date of delivery.

ER = Price of Epoxy Resin (refer notes)

This price is as applicable on the 1st working day of the month, one month prior to the date of delivery.

TB = Price of Transformer Oil base stock (refer notes)

This price is as applicable on the 1st working day of the month, one month prior to the date of delivery.

W = All India average consumer price index number for industrial workers, as published by the labour bureau, Ministry of Labour, Govt. of India (Base 1982=100)

This index number is as applicable for the first working day of the month, three months prior to the date of delivery.

For example, if date of delivery in terms of clause given below falls in December-2005, the applicable prices of Copper Wire Bars(C) and Transformer Oil Base Stock (TB) should be for the month October-2005, where as the applicable price of CRGO Electrical Steel Sheets (ES)and Epoxy Resin (ER) should be as on 1st November-2005 and wholesale price index number for 'Iron & Steel' (IS) should be for the week ending first Saturday of September-2005 and all India average consumer price index number (W) should be for the month of September-2005.

The date of delivery is the date on which the instrument transformer is notified as being ready for inspection/despatch (in the absence of such notification, the date of manufacturer's despatch

note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

Notes:-

- (a) All prices of raw materials are exclusive of modvatable excise/CV duty amount and exclusive of any other central, state or local taxes; octroi etc. Instrument transformers manufacturers import major raw materials like Copper, CRGO Electrical Steel Sheets and TOBS etc. The landed cost of these imported raw materials includes applicable custom duty but exclusive of modvatable CVD.
- (b) All prices are as on first working day of the month.
- (c) The details of prices are as under:-
 1. The LME price of Copper Wire Bars (in Rs./MT) is the LME average settlement price of Copper Wire Bars for one month prior to the month of the circular converted into Indian Rupees with applicable exchange rates prevailing as on 1st working day of the subsequent month. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
 2. The price of CRGO Electrical Steel Sheets (in Rs./MT) is the average CIF price in US \$ per MT converted into Indian Rupees with applicable exchange rate prevailing as on 1st working day of the month, as quoted by primary producers. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
 3. The wholesale price index number for 'Iron & Steel' is as published by the Office of Economic Advisor, Ministry of Industry, Govt. of India, New Delhi with base 1993-94=100. This wholesale price index number is being published weekly on provisional basis. However, the same gets finalized after eight weeks and is normally available after two months. Therefore, we are considering in our calculations this final index for the first Saturday of the months two months prior to the date of which the prices of other raw materials such as AI, IM are published for the corresponding month.
 4. The price of Epoxy resin is price quoted by resin manufacturer for their grade CT 5900 or its nearest equivalent.
 5. The price of TOBS is C&F price (in Rs./K.Ltr) for Group-II grade 70 Base Oil as published in ICIS-LOR bulletin for the 1st week of the previous month. This price is normally published in US \$ per US Gallon, which is converted in Rs./K.Ltr with applicable exchange rate prevailing on 1st working day of the subsequent month. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.

(Sanjeev P. Puranik)

**CHIEF GENERAL MANAGER (PUR),
O/O CMD, MPMKVV CO.LTD. BHOPAL**

SCHEDULE- V**SCHEDULE OF QUESTIONNAIRE
PART "A" GENERAL INFORMATION
(TO BE KEPT IN THE ENVELOPE PART-II
“(COMMERCIAL/TECHNICAL BID)”**

- (i) Strike off, whichever is not applicable.
(ii) 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. Confirm whether tenderer is a
Manufacturer :
4. Manufacturer to give the
following particulars :
- a) Address of factory :
- b) Year of starting manufacture :
- c) Whether same/similar
materials 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 has supplied the tendered items to MPSEB/Discoms in the past. : Yes/No
- b) If yes, whether documentary evidence with details of orders received & executed during last five years, enclosed. :
7. Whether the tendered items supplied to other SEB / Union Territory. Give details of orders received & executed during last five years. :
8. Whether the tendered items under the Enquiry have been manufactured in the past. Give name of SEB to which supplied enclosing order copy in support. :
9. 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-V**PART “B”: COMMERCIAL INFORMATION
(TO BE KEPT IN THE ENVELOPE PART-II,
“COMMERCIAL/TECHNICAL BID)”**

(i) Strike off, whichever is not applicable.

(ii) Separate sheets should be used, wherever necessary.

1. i) Earnest Money details : Bank draft/Bankers cheque/
Cash with Sr.AO,(HOAU), MPMKVV Co. Ltd.,
Bhopal.
- 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
State/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
of opening of commercial/
technical bid.
3. State whether the quoted : Yes/No
prices are VARIABLE.
4. MODE OF DESPATCH : By Rail/By Road
NOTE: Despatch by Road is acceptable
to the Company only when the tenderer agrees:-
i) to supply the material on door delivery basis
and through bank approval road Transporter, and
ii) for payment after receipt of material in good
condition.
5. 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 state condition :
6. PAYMENT TERMS:- :
Whether Company's terms of payment : Yes/No
is acceptable to the tenderer.
7. DELIVERY PERIOD:-
- a) Whether Company's delivery period : Yes/No
clause is acceptable to the tenderer.

8. PENALTY CLAUSE:-
Whether agreeable to Company's penalty clause. : Agreed
9. GUARANTEE PERIOD:
Whether agreeable to Company's Guarantee clause : Agreed
10. SECURITY DEPOSIT:-
Whether agreeable to furnish Company's Standard security deposit @ 10% of value of order, for faithful execution of the order & to cover performance guarantee period. : Agreed
11. Indicate State, Central Sales Tax Registration Number (Please note that in case of non-registration with Sales Tax Central Department Purchase Tax as admissible shall be deducted by the Purchaser from the bills of the supplier. : State
12. Whether photocopy of the clearance from the Sales Tax Dept - copy of Income Tax return & profit & loss Account and Turn over for last 5 years up to the last financial year have been enclosed. : Yes/No
13. EXTENSION ORDER:-
Whether you are agreeable to accept extension order for 50% quantity on the same rates, terms & condition, if any extension order is placed within 6 months from the date of placement of detailed order. : Yes/No
14. Whether rates offered are applicable for part quantities also. : Yes/No

PLACE :

DATE :

SIGNATURE OF TENDERER
WITH SEAL OF FIRM
NAME IN FULL
DESIGNATION/STATUS

SCHEDULE- V**PART "C" TECHNICAL INFORMATION
(TO BE KEPT IN THE ENVELOPE PART-II
"COMMERCIAL/ TECHNICAL BID")**

(i) Strike off, whichever is not applicable.

(ii) Separate sheets should be used, wherever necessary.

1. a) Whether material offered is exactly as per the technical specification : Yes/No.
b) If not, give details of technical deviation (information may be given in deviation schedule given with documents for this purpose) :
2. Whether the copies of orders received during last 5 years from other State Electricity Boards/ NTPC and from other organisation for the item under Enquiry. : Yes/No give details.
3. Whether performance certificate from such organization regarding supplies enclosed. : Yes/No give details.
4. Whether pamphlets/technical details literatures alongwith drawing etc. furnished with the offer. : Yes/No give details.
5. Whether the tenderer agrees to furnish material test certificates in respect of chemical composition and physical properties from Govt./ Govt. Lab. with each batch of supplies. : Yes/No.
6. Whether the tenderer has furnished details of manufacturing process and short history of plant. : Yes/No.
7. a) Whether all testing facilities for conducting Routine & Acceptance tests are available, if so, give details of facilities. :
b) Whether agreeable for inspection by Company's representative prior to despatch and bear the testing : Yes/No (give full details if test to be conducted

charges for all tests as per
relevant standards.

and reference of relevant
Standard specification).

PLACE :

DATE :

SIGNATURE OF TENDERER
WITH SEAL OF FIRM
NAME IN FULL
DESIGNATION/STATUS

UNDERTAKING

I _____ Sole proprietor/partner of M/s _____
_____ is giving undertaking that detail 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
WITH SEAL OF FIRM
NAME IN FULL
DESIGNATION/STATUS

SCHEDULE- VI**APPLICABILITY OF TYPE TEST REPORTS****2. STC TEST REPORT:**

Sl. No	DETAILS OF TESTED CT of ME							DETAILS OF OFFERED CT of ME						
	Name of Lab & Test Report No	Drg. No.	STC KA/s	Prim. Turn & Area in mm ²	I ₂ t (KA) ² s	Dyn. Peak KAT _P	STC Density A/mm ² /s	Item No.	Drg. No.	STC KA/s	Prim. Turn & Area in mm ²	I ₂ t (KA) ² s	Dyn. Peak KAT _P	STC Density A/mm ² / s

N.B. 1. In case duration of “STC” for tested CT is different, the equivalent “STC” value for required “duration” is calculated based on “I₂ t” principle. The value of "I₂ t and Dynamic Peak KAT_P" for offered CT should be = that of the tested CTs.

2. In accordance with IS 2705-1992 (part I), the primary current rating, number of cores and its burden shall not be considered significant for this test.

2. HIGH VOLTAGE POWER FREQUENCY WET WITHSTAND TEST REPORT:

Sl. No.	Test conducted on ME or Bushing & rating	Name of Lab & Test Report No.

3. IMPULSE TEST REPORT:

Sl. No.	DETAILS OF TESTED CT			DETAILS OF OFFERED CT		
	Name of Lab & Test Report No.	Drg. No.	Impulse Tested KVP	Item No.	Drg. No.	Impulse withstand required KVP

4. ACCURACY TEST REPORT:

Sl. No.	DETAILS OF TESTED CT			DETAILS OF OFFERED CT		
	Name of Lab & Test Report No.	Drg. No.	PT burden & CT burden	Item No.	Drg. No.	PT burden & CT burden

5. TEMPERATURE RISE TEST REPORT:

Sl. No.	DETAILS OF TESTED CT			DETAILS OF OFFERED CT		
	Name of Lab & Test Report No.	Drg. No.	Primary Current	Item No.	Drg. No.	Primary Current

SCHEDULE-VII**PART "A": SCHEDULE OF PAST EXPERIENCE
(TO BE KEPT IN THE ENVELOPE PART-II,
"COMMERCIAL/TECHNICAL BID")**

Bidder's Name & Address:

To,

The Chief General Manager (Pur),
M.P. Madhya Kshetra Vidyut Vitaran Co.Ltd.,
Nishtha Parisar, Bijlinagar, Govindpura,
BHOPAL-462023

Dear Sir,

Sub: - Performance/past experience.

We furnish herewith the record of our performance and experience as follows:-

Sl. No.	Purchaser's Name & Address	Order No. & date	Ordered Qty. (Ratio-wise) (nos.)	Qty. supplied (Ratio-wise) (nos.)	Value of order

PLACE:

DATE:

SIGNATURE OF TENDERER
WITH SEAL OF FIRM
NAME IN FULL
DESIGNATION/STATUS

Note:- Photocopy of the orders & performance reports received from other State Electricity Boards/Govt.undertakings etc. should be enclosed.

SCHEDULE-VII**PART “B”: SCHEDULE OF COMMERCIAL DEVIATIONS
(TO BE KEPT IN THE ENVELOPE PART-II,
“COMMERCIAL/TECHNICAL BID)”**

Bidder's Name & Address:

To,

The Chief General Manager (Pur),
M.P. Madhya Kshetra Vidyut Vitaran Co.Ltd.,
Nishtha Parisar, Bijlinagar, Govindpura,
BHOPAL-462023

Dear Sir,

Sub: - Commercial Deviation.

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

Sr. No.	Condition	Clause No. of Tender Document	Page No. of Tender Document	Statement of deviation and variation

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 considerations while finalizing the tender.

PLACE:

SIGNATURE OF TENDERER
WITH SEAL OF FIRM
NAME IN FULL
DESIGNATION/STATUS

DATE:

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

SCHEDULE-VII**PART “C”: SCHEDULE OF TECHNICAL DEVIATIONS
(TO BE KEPT IN THE ENVELOPE PART-II,
“COMMERCIAL/TECHNICAL BID)”**

Bidder’s Name & Address:
To,

The Chief General Manager (Pur),
M.P. Madhya Kshetra Vidyut Vitaran Co. Ltd.,
Nishtha Parisar, Bijlinagar, Govindpura,
BHOPAL-462023

Dear Sir,

Sub: - Technical Deviations.

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

Sr. No.	Condition	Clause No. of Tender Document	Page No. of Tender Document	Statement of deviation and variation

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 considerations while finalising the tender.

PLACE:

SIGNATURE OF TENDERER
WITH SEAL OF FIRM

DATE:

NAME IN FULL
DESIGNATION/STATUS

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

SCHEDULE-VIII**(To be kept in the envelope Part-II, Commercial/Technical Bid)****SOURCE OF PROCUREMENT OF MATERIALS**

S.No.	Source of procurement	Place of manufacture of raw material	Place of testing & inspection

DATE:
PLACE:SIGNATURE OF TENDERER
WITH SEAL OF FIRM
NAME:
DESIGNATION:

SCHEDULE – IX**CALCULATIONS AND OTHER IMPORTANT DETAILS**

In this schedule the bidder shall furnish calculations and other important details as required in specification.

S. No.	Reference of Clause No.	Requirement	Details of calculations/ particulars to be furnished by the bidder.

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