

OFFICE OF CHIEF GENERAL MANAGER (BHOPAL REGION)
MADHYA PRADESH MADHYA KSHETRA VIDYUT VITARAN COMPANY
LTD.

BHOPAL

TENDER SPECIFICATION No. CGM/ BR/ 02/ PUR/ 05/ 5791

BHOPAL DATE 12.10.11



SUPPLY OF INSULATED METER CUM- PROTECTION BOX SUITABLE

FOR 25 KVA DISTT. X-MERS.

Due for opening on: 31.10.11

O/o CHIEF GENERAL MANAGER (BHOPAL REGION)

M.P. M.K. V.V. Co. Ltd.

NISHTHA PARISAR, BIJLI NAGAR COLONY

GOVINDPURA,

BHOPAL (MP)

INDIA

Phone : 0755 – 2602298, FAX: 0755 – 2600004
E-mail: sepurbpl@mpmkvvc.com



OFFICE OF CHIEF GENERAL MANAGER (BHOPAL REGION)
M.P. MADHYA KSHETRA VIDYUT VITARAN CO. LTD.
(A Wholly Owned Govt. of MP Undertaking)
Nishtha Parisar, Bijli Nagar Govindpura, Bhopal-462023
FAX- 0755-2600004 TEL. 0755-2602298.
Website: www.madhyavitaran.nic.in e-mail:
sepurbpl@mpmkvvc.com

No.CGM/ BR/02/ Pur/05/ 5791

Bhopal, Dt 12.10.11

NOTICE INVITING TENDERS


Sealed tenders, in duplicate, are invited for supply of **insulated meter cum- protecton box suitable for 25 KVA Distt. X-mers**, from original manufacturers on behalf jurisdiction of M.P. Madhya Kshetra Vidyut Vitaran Co. Ltd. Bhopal for supply to Area store at Bhopal.

- | | | |
|-----------|--|--|
| A. | Approximate Value of the item - | Rs. 50.00 Lakhs |
| B. | Date of sale of tender document | 21.10. 2011 to 29.10. 2011
(During office hours only) |
| C. | Due date of submission of tender | 31.10. 2011 up to 2.00 p.m. |
| D. | Due date of opening of tender | 31.10. 2011 at 3.00 p.m. |
| E. | Earnest Money to be deposited
by Pay Order / DD | Rs. 20,000/- |
| G. | Cost of Tender document | Rs.750/- to be paid in the
form of Demand Draft / Pay
Order payable at Bhopal to
Sr. Accounts Officer, A/U CE
(BR) M.P.M.K.V.V.Co. Ltd,
Bhopal. (Rs. 820/- in case
the tender document is
desired by post /courier service). |

The Bid document can be purchased from Addl. G.M. (Purchase) O/o Chief General Manager (Bhopal Region), MP MK VV Co. Ltd. Bhopal. In case the due date for submission / opening of tender is declared holiday, it will get shifted to the next working day.

The tender documents against aforesaid TS shall also be available on our website: www.madhyavitaran.nic.in . The bidders may also download the tender documents from this website. In this case the tender document fee shall be required to be deposited in the form of DD at the time of submission of bid documents failing which the bids shall not be accepted.

CHIEF GENERAL MANAGER (BR)
M.P. M.K. V.V. CO. LTD.
BHOPAL

 <p>M.P. Madhya Kshetra Vidyut Vitaran Co. Ltd. (Wholly Owned Govt. of M.P. Undertaking) Nishtha Parisar, Govindpura, Bhopal-462023 TEL No.0755-2602298 Fax No.: 0755-2600004 Website: www.madhyavitaran.nic.in</p>				
No. CGM/ BR/ 02/ Pur/ 5791 Bhopal, Dt. 12.10.11				
<u>SHORT TERM TENDER NOTICE</u>				
Sealed tenders are invited from Manufacturer/ Transporters only for supply of various items/ transportation.				
T.S No.	Name of item	Approx. value (Rs. in Lacs)	Tender fee (Rs.)	Dt. Of opening
i. CGM/ BR/ 02/ Pur/ 06.	Transportation of PC poles from pole factories located in M.P to a district.	Rs. 50 Lakhs	750/-	29.10.11
ii. CGM/ BR/ 02/ Pur/ 07.	Supply of Insulated meter cum- protection boxes suitable for 25 KVA Distribution X-mers.	Rs. 50 Lakhs	750/-	31.10.11
Detailed tender specification would be available in about a week on the above company website.				
(R.K. Mishra) Chief General Manager (BR) MP.M.K.V.V.Co.Ltd. Bhopal				
//SAVE ELECTRICITY//				



M.P. MADHYA KSHETRA VIDYUT VITARAN CO.LTD.,
(A Wholly Owned Govt. of MP Undertaking)
NISHTHA PARISAR, BIJLI NAGAR GOVINDPURA,
BHOPAL-462023, FAX NO.- 0755-2600004.
TEL.No. 0755-2602298.

Website :www.madhyavitaran.nic.in
E-mail : cebhopal@mpmkvvc.com

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. CGM (BR)/02/ 07/ PUR/ 5791 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

TENDERER'S SIGNATURE
(with seal)

ANNEXURE-I

GENERAL INSTRUCTIONS TO BIDDERS

Sealed tenders are invited by the Chief General Manager (BR), M.P. Madhya Kshetra Vidyut Vitran Co. Ltd., Bhopal for the supply of Insulated meter cum protection box suitable for 25 KVA Distt. X-mers as per Technical specification attached (Shedule-II).

1. BASIC QUALIFICATION OF BIDDERS

This bidding is open for Manufacturers only who provides satisfactory evidence:-

- (a) That they are qualified Manufacturers who are regularly manufacturing / supplying the materials specified and have adequate knowledge and experience. The proof having supplied the material to the Power Utilities/Electricity Boards etc. may be furnished.
- (b) That, they have adequate financial stability and status to meet the financial obligations pursuant to the scope of the assignments.
- (c) That, they have adequate plant and manufacturing capacity or supply capacity available to perform the assignment properly and expeditiously within the time period specified.

2. EARNEST MONEY :-

(a) The Earnest money Rs. 20,000/- shall be deposited in the form of Bank draft drawn in favour of Sr. Accounts Officer, A/U CE (BR) MPMKVV. Co. Ltd., Bhopal.

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

i) S.S.I. 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 the date of opening of tender.

ii) 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) otherwise EMD has to be furnished by the bidder.

iii) The Medium/Large Scale Manufacturing Units, located in Madhya Pradesh (other than SSI/ Ancillary Units to MPSEB and Govt. undertakings) 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.

iv) Fully owned State/Central Govt. manufacturing Units, if 100% shares are held by the respective Govt. for which documentary evidence must be furnished with the offer.

v) The photocopy of the NSIC/SSI Registration Certificate for the tendered items duly notarized/ attested by G.M./ Manager, DIC of the Area/ any officer of Central Discom not below the rank of E.E. shall be furnished with the offer. In case of unattested/un-notarized copy, the original certificate should be produced at the time of tender opening for verification.

vi) All the SSI/NSIC units should quote/offer the material only to the extent they are registered for respective items with the SSI/NSIC organization.

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

(d) **RETURN OF EARNEST MONEY TO BIDDERS**

i) EMD shall be returned to unsuccessful bidder, as soon as possible after the tender is decided. No interest shall be paid on EMD amount.

- ii) EMD of the bidder's on whom the order have been placed, shall be returned on acceptance of security deposit. No, interest shall be paid on interest amount.

No offer will be accepted without valid Earnest Money Deposit, unless exempted by the Company. If on opening of tender, it is revealed that EMD amount is inadequate/any other discrepancy is noticed, the tender shall be rejected and return to the bidder.

3. TAXES AND DUTY

- (i) All taxes, duties and charge as may be applicable as per law in force, must be included in the quoted price. Any silent charges, even if statutory in nature, shall not be payable extra, in the event of an order.
- (ii) Excise duty, CST/ VAT and any other levy shall not be payable extra, even if it under goes any upward revision during contractual delivery period.
- (iii) M.P. Madhya Kshetra Vidyut Vitaran Company Limited, Bhopal is a registered dealer under MP General Sales Tax Act 1994 and Central Sales Tax Act 1956. The Tin No. is 23263605361. Necessary declaration form for availing concessional CST, (wherever applicable and if so mentioned in Special Terms & Conditions of Purchase), shall be furnished after receipt of material at destination and verification of the legal position at our end.

4. UNSATISFACTORY PERFORMANCE:-

- (i) In case of those bidders whose past performance has not been satisfactory against previous tenders their offers may be rejected.
- (ii) Offers of those bidders who have been debarred / black listed for future business with our company shall be summarily rejected.

5. VALIDITY OF BIDS :-

Offers should be kept open for acceptance for at least 180 days from the date of opening. Those who do not agree for a validity of 180 days will do so at their own risk and no request for extending the validity is likely to be made from this office. However, if due to any circumstances beyond control, tenderers are advised to extend the validity, they shall not be permitted to revise their rates, offer any rebate or concession while extending the validity which may materially result in any reduction or increase in the computed prices of their original offer.

6. PRICES

The prices quoted in Schedule-I should be FIRM and on "F.O.R Destination in delivery to the Office of the Addl. G.M (Store), MP MKVCo. Ltd. Bhopal.

7. SECURITY DEPOSIT:

On acceptance of offer the successful bidder shall have to deposit an amount of 10% of the total value of the order in the form of D.D, as Security deposit as detailed in Clause-6 of Annexure-II.

8. DELIVERY :

The delivery of the ordered quantity of material shall be commence within 60 days from the date of the order. Any delay in delivery beyond this period shall attract penalty as detailed in clause-4 of Annexure -II.

9. CONSIGNEE :

The supply shall be made to the office of the Addl. G.M (Store), MPMKV. Co. Ltd, Bhopal.

10. TERMS OF PAYMENT :-

Subject to completion of all contractual formalities, 100% payment will be made by the Sr. Accounts Officer, AU, CE (BR), MPMKV. Co. Ltd., Bhopal, within 45 (Forty five) days, from the date of receipt of material at Area Stores in good condition against MATERIAL RECEIPT CERTIFICATE (M.R.C.) issued by the consignee. The CGM (BR) shall not be liable for payment of any interest on delayed payment.

11. SUBMISSION OF SAMPLE:-

Bidder must submit the sample of Insulated meter cum protection box suitable for 25 KVA Distt. X-mer before one day of submission of tender. Submission of sample is compulsory failing which their offer may not be accepted.

The bidders are requested to kindly go through the tender document's instructions and various terms and conditions contained in Annexure-I & II, except as modified/laid-down hereunder. It may be noted that no conditions or stipulations to the contrary or which are inconsistent will be accepted. Bidders are requested to ensure that all such schedules along with questionnaire (duly filled-in), are submitted along with their offer. The bidders should also note that in absence of any of the schedules, their offer is likely to be rejected. Bidders are requested to confirm, their acceptance to the (a) commercial terms & conditions in Schedule-IV and (b) Technical specifications in Schedule-II enclosed here with.

Encl: - Annexure-I (General Instruction to Bidder)
Annexure-II (General Terms & Condition)
Annexure-III (Important Instruction to Bidder)
Annexure- IV & V (Tech. specification & GTP)
Schedule- I (Quantity & price)
Schedule-II (Technical information)
Schedule-III (General Information)
Schedule -IV (Commercial information)
Schedule -V (Past Experience)
Schedule -VI (Source of material and places of manufactur,
testing & inspection)
Schedule -VII (Submission of Earnest money)
Schedule- VIII (Under taking)
Drawing 3 Pages

ADDL. GENERAL MANAGER (PUR)
O/o CHIEF GENERAL MANAGER(BR)
M.P.M.K.V.V. CO. LTD. BHOPAL

ANNEXURE-II
GENERAL TERMS AND CONDITIONS OF PURCHASE

1. PRICES

- (i) It is obligatory that FIRM and FOR destination prices are quoted by the bidders for supply of materials/ equipments as per specifications to the Area Store Bhopal, inclusive of all taxes, duties levies, VAT, packing, freight, forwarding, insurance etc.
- (ii) The prices shall be quoted exactly as per the price schedule enclosed with the tender specification, including all elements. In absence of this, the offer shall be liable for rejection.
- (iii) All taxes, duties and charge as may be applicable as per law in force, must be included in the quoted price. Any silent charges, even if statutory in nature, shall not be payable extra, in the event of an order.
- (iv) Excise duty, CST/ VAT and any other levy shall not be payable extra, even if it under goes any upward revision during contractual delivery period.
- (v) In case any new tax is made applicable after submission of bids by the bidders, additional payment on account of such new taxes would be considered by the company. However, decision of the company would be final in this regard.
- (vi) In case of non-registration with Sales Tax Department, Purchase Tax as admissible shall be deducted by the purchaser form the bills of the supplier.
- (vii) M.P. Madhya Kshetra Vidyut Vitaran Company Limited, Bhopal, is a registered dealer under MP General Sales Tax Act 1994 and Central Sales Tax Act 1956. The registration nos. is Tin No. 23263605361. Necessary declaration form for availing concessional CST, (wherever applicable and if so mentioned in Special Terms & Conditions of Purchase), shall be furnished after receipt of material at destination and verification of the legal position at our end.

2. DELIVERY

The delivery of the ordered quantity of material shall be commence within 45 days from the date of issuance of dispatch instructions. Any delay in delivery beyond this period shall attract penalty as detailed in clause-4 here under.

3. **TERMS OF PAYMENT :**

Subject to completion of all contractual formalities, 100% payment will be made by the Sr. Accounts Officer, AU CE (BR), MPMKVV. Co. Ltd., Bhopal, within 45 (Forty five) days, from the date of receipt of material at Area Stores Bhopal in good condition against MATERIAL RECEIPT CERTIFICATE (M.R.C.) issued by the consignee. The CGM (BR) shall not be liable for payment of any interest on delayed payment.

4. **PENALTY:**

In case of delay in execution or non execution of the order, the MPMKVV. Co. Ltd., at its option shall either:-

- a) Recover from the supplier a sum of ½ % (half percent) of the price of any stores not delivered per week or part thereof subject to maximum of 10% (ten percent) OR
- b) Purchase from elsewhere on account and at the risk and responsibility of the supplier, the Stores not delivered or others of similar description. OR
- c) Cancel the contract for part or whole of the quantity on order, with liability.

5. **PERFORMANCE GUARANTEE :**

If during the course of 18 months from the date of receipt of consignment in the Area Store, Bhopal or 12 months from the date of commissioning whichever is earlier any of the goods found to be defective in material or workmanship or develops defects during service, they will have to be replaced/ rectified by the supplier free of all charges possibility within a week's time from the date of intimation.

6. **SECURITY DEPOSIT:-**

- (a) On acceptance of offer, the successful bidder will have to pay the Security Deposit @ 10% of the total value of the order in Demand Draft or Bank guarantee as security deposit.
- (b) Demand Draft to be drawn in favour of Sr. Accounts Officer, AU, CE (BR), MPMKVVCL Bhopal of respective consignee drawn on any nationalized / scheduled Bank and payable at respective destination.
- (c) Bank Guarantee on any Nationalized Bank, or any other bank mentioned in Section VII, strictly as per Company's Proforma (to be supplied along with the order) valid sufficiently to cover the guarantee period, in the office of the order placing authority.

- (d) SSI Units registered with Industries Department of MP are 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 with the Company.
- (e) The Security Deposit shall have to be deposited within 10 days of issue of order and prior to offering supply of material against the order.
- (f) The CGM (BR) shall forfeit the Security Deposit in the event of non execution / part execution of the orders / poor performance of vendor, besides invoking the penalty clauses.
- (g) The Security Deposit shall be returned to the successful bidder only after due and faithful performance of the order as per terms and conditions of the order, and on expiry of guarantee period provided, there are no claims outstanding to be recovered against the bidders / suppliers. This shall not be applicable in case of permanent security deposit.
- (h) No interest shall be paid by the CGM (BR) on security deposit furnished by the manufacturer / suppliers.

7. **EXTENSION ORDER** :

The MPMKVV. Co. Ltd. reserves the right to place an extension order for additional quantity to the extent of 100% quantity of the original order on the same rates terms and conditions within six months from the date of original order.

8. **TYPE TEST CERTIFICATES**

Wherever, applicable or called for duly authenticated photo copies of appropriate **Type Test Certificates from the government standard test laboratories in India** would have to be furnished by the bidders, otherwise their offers shall be liable to be rejected.

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

9. **INSPECTION:-**

The inspection and test of material shall be done by the discom (cz)'s inspecting officer or third party inspection agency. The readiness of material should be intimated at least 15 days in advance so as to enable us to arrange inspection in time. Other provisions stipulated in the enclosed schedule- ii (a) shall also be applicable.

9. CANCELLATION OF ORDER

- (i) The CGM (BR) may, upon written notice of default, terminate contract in the circumstances detailed hereunder:-
- a) If in the opinion of the CGM (BR), the supplier fails to deliver the material within the time specified or during the period for which extension has been granted by the CGM (BR).
- b) If in the opinion of the CGM (BR), the supplier fails to comply with any of the other provisions of this contract or material is found to be not in accordance with prescribed specifications, and / or the approved samples.
- (ii) In the event of such termination, the CGM (BR) shall exercise the discretionary powers as:-
- a) To recover from the supplier, penalty as mentioned in the clause no.4 above.

AND / OR

- b) To purchase from elsewhere, on account and at the risk of the vendor, goods of similar description to the consignment which is not delivered, after giving due notices to the vendor.

AND / OR

- c) To cancel the contract reserving Company's rights to recover damages.

10. JURISDICTION:

Any dispute or difference, if any, arising out of or in respect of this tender due to be settled exclusively at Bhopal or be TRIALABLE in any competent court situated at Bhopal only. Unless stated specifically anything contrary it shall be deemed that you have agreed to all term and conditions mentioned in this tender enquiry and the same shall be binding on you.

**ADDL. GENERAL MANAGER (PUR)
O/o CHIEF GENERAL MANAGER (BR)
M.P.M.K.V.V. CO. LTD. BHOPAL**

ANNEXURE-III
IMPORTANT INSTRUCTIONS TO BIDDER

Sealed tenders are invited from **Manufacturers** only who provide satisfactory evidence for supply of **insulated meter cum protection box suitable for 25 KVA Distt. X-mers** detailed in Schedule-I, as per technical specification in Schedule-II and on the terms and conditions detailed in Annexure-I enclosed.

1. 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**".

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

(ii) Tender being submitted must be signed by a person holding a Power of Attorney authorizing him to do so, certified copies of which shall be enclosed.

(iii) Tender submitted on behalf of companies registered with the Indian Companies Act, for the time being in force, shall be signed by persons duly authorized to submit the Tender on behalf of the Company and shall be accompanied by certified true copies of the resolutions, extracts of Articles of Association, special or general Power of Attorney etc. to 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 superscribed as Part-I "Earnest Money Deposit", Part-II "Commercial Bid and Technical Bid" and Part-III "Price Bid".** Each envelope shall also be superscribed with name of item and T.S. No. for which the tender is submitted, the name of the said bidder and the date of opening, as advertised. **The tender i.e. the three parts shall be submitted each in 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 superscribed stating that this envelope contains three separate envelopes for Part-I "EARNEST MONEY DEPOSIT", Part-II "COMMERCIAL AND TECHNICAL BID" and Part-III"PRICE BID", in addition to tender specification No., Name of Item & bidder. Details of Earnest Money Deposit and Due date of opening should be superscribed on this common envelope also. Beside this, it shall be certified on the main envelope itself that CGM (BR)'s PAYMENT TERMS, PENALTY, SECURITY DEPOSIT and PERFORMANCE GUARANTEE & PRICE VARIATION (WHEREVER APPLICABLE) CLAUSES, as mentioned in tender specification, are acceptable to the bidder. This certification shall be in the 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"**

TO,

**THE CHIEF GENERAL MANAGER (BR)
M.P.M.K.V.V.Co.Ltd.
NISHTHA PARISAR,
BIJLI NAGAR COLONY, GOVINDPURA,
BHOPAL-462023, FAX NO.- 0755-2600004.**

**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**

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

- (vi) Even after certification on the body of the main envelope, if any ambiguity is found upon opening of the main envelope or after

2. DUE DATE & TIME FOR RECEIPT/ OPENING OF OFFERS:-

- a) Due date & time for receipt of offers 31.10.11 up to 2.00 PM.
b) Date & time of opening of offers 31.10. 2011 at 3.00 PM

Sealed offers should be delivered in the Tender Box/ Enquiry Box kept in the Office of the CGM (BR), Bhopal on all working days between 10.30 hrs. to 17.30 hrs only no body is authorized to receive or grant receipt for the offer delivered by hand

3. OPENING OF EMD AND COMMERCIAL & TECHNICAL BID:-

The first envelopes i.e **PART-I** containing Earnest money deposit, shall be opened on the due date and time, as notified in the tender enquiry After verifying the requirements for the above, the **PART-II** i.e. commercial and technical bid shall be opened on the same date in respect of eligible bidders.

The offers which are in conformity with important commercial terms and conditions including payment terms, penalty, security deposit and performance guarantee clauses of the tender enquiry shall be eligible for opening of their price bid. The price bid i.e. **PART-III** shall also be opened either on the same day or at a later date for the tenders who will fulfill the eligibility criteria of the tender. This date shall be intimate to such all tenderers, separately.

**ADDL. GENERAL MANAGER (PUR)
O/o CHIEF GENERAL MANAGER(BR)
M.P.M.K.V.V. CO. LTD. BHOPAL**

ANNEXURE- IV

TECHNICAL SPECIFICATION OF INSULATED METER CUM PROTECTION BOX FOR 25 KVA TRANSFORMERS

1.0 SCOPE::

This specification covers design, manufacture, assembly testing at manufacturer's works, packing and delivery at Area store(s) of MPMKVV. Co. Ltd, Bhopal with accessories of Insulated Meter Cum Protection Box for housing 1 No. 40 Amps., four pole, 36 KA MCCB; 4 Nos. three phase, four wire static / electronic energy meters and 4 Nos. TPN 20 Amps. C Series MCBs for outgoing protection for three phase supply system with internal wiring arrangement made of insulating material in MPMKVVCL.CZ Discom.

2.0 STANDARDS::

Unless otherwise specified elsewhere in this specification, the rating as well as performance and testing of Insulated Meter Cum Protection Box for housing 1 No. 40 Amps., four pole 36 KA MCCB; 4 Nos. three phase, four wire static / electronic energy meters and 4 Nos. TPN 20 Amps. C Series MCBs for outgoing protection for Three Phase supply system with internal wiring shall conform to the latest revisions and amendments of the following standards.

SI No.	Standard No.	Title
1.	IS: 14772	Enclosures for Electrical Installations
2.	IS/IEC 60947-2	Low Voltage Switchgear & Control gear Assemblies.
3.	IS: 4249	Tests for Non Ignitable and Self Extinguishing Material Fire
4.	IS: 11731	Flammability Test for Solid Electrical insulating Material Fire
5.	IS: 11000	Hazard Testing

3.0 CLIMATIC CONDITIONS:

Equipment to be supplied against this specification shall be suitable for satisfactory continuous operation under the following tropical conditions:

	Location	Anywhere in MP
i)	Max. Ambient Air temp. In shade (deg. C)	50
ii)	Min. Ambient Air temp. In shade (deg. C)	(-)5
iii)	Average Daily Ambient Air temp. In shade (deg. C)	45
iv)	Max. Yearly weighted ambient temp. (deg C)	35
v)	Max. Relative Humidity (%)	95
vi)	Average annual rainfall(mm)	100 to 1000mm (depending upon area)

vii)	No. of rainy days P.A.	70
viii)	Max. Wind Pressure (Kg/Sq.m.)	195
ix)	Max. altitude above mean (Sea level (meters))	815
x)	Isoceranic level (days/ year)	4 months (June to Sept.)
xi)	Seismic level (horizontal acceleration)	0.08G

Note: Moderately hot and humid tropical climate conducive to rust and fungus growth. The climatic conditions are also prone to wide variations in ambient conditions. Smoke is also present in the atmosphere. Heavy/lightning also occurs during June to October.

4.0 TECHNICAL PARTICULARS, MATERIAL & CONSTRUCTIONAL DETAIL:

Design, manufacture, testing before dispatch, supply and delivery of Insulated Meter Cum Protection Box with clamping arrangement to mount on PCC Pole made of Polycarbonate having transparent cover and Grey Base for housing 1 No. 40 Amps., four pole 36 KA MCCB; 4 Nos. three phase four wire static / electronic energy meters and 4 Nos. TPN 20 Amps. C Series MCBs along with electrical wiring with 1 core 10 Sq. mm multi-strands unarmoured PVC copper wire. The copper wire must be of ISI marked of reputed make and must be provided of standard colour coding for R-phase, Y-phase, B-phase & Neutral with suitable copper lugs/ferrules.

The Insulated Meter cum Protection Box shall comprise of the following:

- 4.1 One chamber having provision to house 1 No. 40 Amps. Four pole MCCB and 4 Nos. three phase 4 wire energy meters. This Chamber may be called CHAMBER NO. 1 or Metering Cum Protection Chamber.**
- 4.2 One chamber having provision to house 4 Nos. TPN 20 Amps C Series MCBs. This chamber may be called CHAMBER NO. 2 or Distribution Chamber.**
- 4.3 Supporting MS Frame work for the above Chambers Nos. 1 to 2.**
- 4.4 Internal Wiring**
- 4.5 MCCB**
- 4.6 MCBs**
- 5.0 Other components & Features**

Further details of the above are :

4.1 CHAMBER NO. 1 or Meter Cum Protection Chamber :

One chamber having provision to house 1 No. 40 Amps. four pole MCCB and 4 Nos. three phase 4 wire energy meters.

4.1.1 MATERIAL OF ENCLOSURE:

- a) The meter cum protection Chamber shall be made from UV Resistant Polycarbonate by the following method:

Injection Moulding Method:

The base and cover of the Insulated Meter Cum Protection Chamber shall be made through injection moulded engineering plastic. The collar of the body shall be provided with good quality rubber 'O' ring. The design of lining shall be such that it provides proper sealing between the cover & base of Insulated Meter Cum Protection Chamber to avoid penetration of dust and ingress of water. This may be achieved by providing a 'U' shaped groove in the outer flange of the base & an all around projection provided on the cover periphery which keeps the 'O' ring pressed and also to provide an outside collar to cover the groove. This will avoid ingress water, dust etc.

- b) The Insulated Meter Cum Protection Chamber i.e. base shall be made of UV Resistant Polycarbonate high grade flame retardant having good dielectric and mechanical strength. The top cover of the Insulated Meter Cum Protection Chamber must be made from totally transparent polycarbonate as to provide clear visibility to itself & the entire meter installation to facilitate meter reading and evidencing any tampering or pilferage thereof. The material must be 'UV' stabilized to ensure that the moulded meter cup-board should not change in colour, shape, size, dimension. The base should be grey in colour and cover transparent.

The Insulated Meter Cum Protection Chamber should have suitable surface /corners to prevent stay of rain water at the top of the Insulated Meter Cum Protection Chamber. The thickness should be 3.0 mm \pm 0.2 mm, capable of withstanding boiling water for 10 minutes without deformation of Chamber material. The heat deflection temperature of the Chamber material should be 125°C @ 0.45mpa. The flammability rating of the material as per UL 94 should be V0.

4.1.2 DIMENSION OF THE CHAMBER:

Dimensions of the Chamber No. 1 or Metering cum Protection Chamber will be as per drawing no.MPEZ/IMCPB/25KVA/TP/2010.

4.1.3 MCCB Mounting Provision:

There should be provision for mounting 1 No. 40 A four pole 36 KA MCCB in this enclosure for protection. The preferred way to mount the MCCB is vertical, but horizontal placement of MCCB can also be accepted, it depends upon the suitability of neat and ease of wiring.

4.1.4 Meter Mounting Provision:

There should be provision for mounting 4 Nos. three phase 4 wire Static / electronic whole current energy meter of current range 10-40 Amp or higher rating, 3X240 volts.

4.1.5 Other Features:

- a) The meter base support inside the Chamber is raised by min. 35 mm for ease of wiring, 4 Nos. (As per respective drawing) adjustable Meter Brackets shall be provided on inside base of meter Chamber in such a manner that various makes of meters can be installed on it.

- b) The Top Cover should be clamped with base of the Insulated Meter Cum Protection Chamber by min. 2 Nos. bolts & nut. Two nos. hinges are to be provided on one side of the Insulated Meter Cum Protection Chamber for opening of the cover.
- c) (i) To provide extra safety arrangement, on four corners 4 Nos. of sealing arrangement is to be provided on the Insulated Meter Cum Protection Chamber so as to close the cover on the base and also seal the cover with the base & any effort to open the Insulated Meter Cum Protection Chamber and will ensure the breakage of these seals also. There should be a arrangement to provide pad lock for better safety.

(ii) The cover shall rest on the base of Insulated Meter Cum Protection Chamber in such a way that any access from outside to the meter is not possible. The cover in closed position should be overlapped on collar of base such that direct entry of screw driver or any other tool/ wire is not possible.
- d) Insulated Meter Cum Protection Chamber shall be adequately protected against rust, dust, water and corrosion both from inside and outside.
- e) All the screws and washers shall be properly zinc passivated as per IS:1340-1959 and 1573-1970 with latest amendments.
- f) As per drawing, an elbow gland must be provided to prevent the in grace of rainy water etc. This gland must be suitable for incoming of 4 core PVC 25 mm² armoured Aluminium cable.

4.1.6 I.P. Level:

For protection against ingress of moisture, Water Particles and Dust etc., the Chamber should meet with I.P. Level - I.P-55.

- a). Soft rubber gasket be provided all around the cover.
- b) The Chamber shall have built in type hinges, no screws/rivets be visible from outside.

4.2 CHAMBER NO. 2 - DISTRIBUTION CHAMBER:

One chamber having provision to house 4 Nos. TPN 20 Amps. C Series MCBs.

4.2.1 MATERIAL OF CHAMBER (ENCLOSURE) :

- a) The Distribution Chamber shall be made from UV Resistant Polycarbonate by the following method:

Injection Moulding Method:

The base and cover of the Distribution Chamber shall be made through injection moulded engineering plastic. The collar of the body shall be provided with good quality rubber 'O' ring. The design of lining shall be such that it provides proper sealing between the cover & base of Distribution Chamber to avoid penetration of dust and ingress of water. This may be achieved by providing a 'U' shaped groove in the outer flange of the base & an all around projection provided on the cover periphery which keeps the 'O' ring pressed and also to provide an outside collar to cover the groove. This will avoid ingress water, dust etc.

- b) The Distribution Chamber i.e. base & cover shall be made of UV Resistant Polycarbonate high grade flame retardant having good dielectric and mechanical strength. The material must be 'UV' stabilized to ensure that the moulded distribution

Chamber should not change in colour, shape, size, dimension. The base should be grey in colour and cover transparent.

The Distribution Chamber should have suitable surface / corners to prevent stay of rain water at the top of the Distribution Chamber. The thickness should be 3.0 mm \pm 0.2 mm, capable of withstanding boiling water for 10 minutes without deformation of Chamber material. The heat deflection temperature of the Chamber material should be 125°C @ 0.45mpa. The flammability rating of the material as per UL 94 should be V0.

4.2.2 DIMENSION OF THE CHAMBER:

Dimensions of the Chamber No. 2 or Distribution Chamber will be as per drawing No. MPEZ/IMCPB/25KVA/TP/2010.

4.2.3 MCB Mounting Provision:

There should be provision for mounting 4 Nos. TPN 20 Amps. C Series ISI Marked, MCBs in this chamber for distribution.

4.2.4 MCBs operating Window:

There should be 4 Nos. of individual window to operate the MCB. These windows should have sealing facility on them. These should have a provision to padlock also. The window should be made of Polycarbonate.

4.2.5 Other Features:

- a) The Top Cover is clamped with base of the Distribution Chamber by min. 2 Nos. bolts & nut. One (1) No. hinge, built in type, are to be provided on one side of the Distribution Chamber for opening of the cover and base.
- b) To provide extra safety arrangement, on four corners 4 Nos. of sealing arrangement is to be provided on the Insulated Distribution Chamber so as to close the cover on the base and also seal the cover with the base & any effort to open the Distribution Chamber and will ensure the breakage of the seal also.

The cover shall rest on the base of Distribution Chamber in such a way that any access from outside to the meter is not possible. The cover in closed position should be overlapped on collar of base such that direct entry of screw driver or any other tool/ wire is not possible.

- c) Holes shall be as per respective drawing with 4 Nos. superior quality plastic / rubber cable grommet of 15 mm each for outgoing cables shall be provided at the bottom of the Distribution Chamber.
- d) Distribution Chamber shall be adequately protected against rust, dust, water and corrosion both from inside and outside.
- e) All the screws and washers shall be properly zinc passivated.

4.2.6 I.P. Level:

For protection against ingress of moisture, Water Particles and Dust etc., the Chamber should meet with I.P. Level - I.P-55.

- a) Soft rubber gasket be provided all around the cover.
- b) The Chamber shall have built in type hinges, no screws/rivets be visible from outside.

4.3 Supporting MS Frame for Chamber Nos. 1 to 2 :

- 4.3.1.** MS Channels 2.5 mm thick \pm 2% should be used to make the back frame of the entire system. It should be made in such a manner that entire back side edge / corner should be held by this frame rigidly. Each Chamber is to be fixed at min. 8 places at Base.
- 4.3.2** MS Frame should be Hot Dip Galvanized or made of pre galvanized MS material. It should have provision for 2 nos (min) ear thing, Bolts also.
- 4.3.3** The workman ship and finish must be of good quality. The hot dip galvanized items should with stand 4 dip test of one minute each as per IS: 2633-1972 with latest amendments. The supporting frame should not have any burrs at end points of the frame, back clamps or at holes.

4.4 Internal Wiring:

Single core 10 sq. mm PVC insulated un-armoured copper wire has to be provided from MCCB to each Meter for input and single core 10 Sq. mm copper wire has to be provided from each meter to MCB, by providing proper size of copper lugs/ferrules. The lugs must be confirming to the relevant I.S; of reputed make i.e. Dowells, Jainsons, cember etc.

4.5 MCCB:

The following makes of MCCB shall be acceptable: Siemens / L&T / ABB / GE Power / Schneider - France / MONTEL / HAVELS / Hyundai.

1 No. Four Pole, MCCB is to be provided on LV side for overload protection and magnetic trip release for instantaneous tripping in the wake of short-Circuits.

The MCCB should be double make / double break Type (It should have 2 sets of contacts i.e. 4 Nos. of contacts and 2 Nos. of Arc extinguishers per pole).

These MCCB's shall be confirming to IS / IEC 60947-2:2003 as amended upto date. The rated un-interrupted current of MCCB shall be 40 Amp. The output terminal strip of the MCCB should be L shaped terminal and should have 2 Nos. holes for connection of 4 lugs of 10 Sq. mm each.

The MCCB's shall be manually independent & shall have quick make, quick break Mechanism, the detailed specification of MCCB shall be as under :

Application	Outdoor (enclosed).
Utilization category	'A' (IS/IEC: 60947-2:2003) as amended upto date
Type	Thermal-Magnetic trip free mechanism
Number of poles	Four
Peak Ambient temperature	50 °C.
Rated insulation level	600 V.
Rated operational voltage	433 V.
Continuous current rating	40 A
Ultimate Short Circuit Breaking capacity (ICU)	36 KA
Rated service Short Circuit Breaking capacity (ICS)	36 KA
Power factor for Short Circuit (max.)	0.4 (lag.)
Application Standard	IS/IEC: 60947-2:2003
Time current characteristics	To co-ordinate with HV fuse.

The MCCB shall not cause any nuisance tripping due to switching current of motor & capacitor loads.

The Bidder shall submit the type test reports as per IS/ IEC:60947-2:2003 for test sequence I & II complete with certified drawings, Oscillograms and approved drawing from CPRI / ERDA laboratory along with the offer

The MCCB's shall be marked with 'Brand Name' of manufacture and Ics in KA and other particulars may be marked as per the manufacturer's standard practice.

The contacts of MCCB should be self-wiping type so as to keep the contacts clean and milli-volt drop low. The MCCB shall be provided with push to trip facility.

4.6 MCBs :

The following makes of MCBs shall be acceptable: Siemens / L&T / ABB / GE Power / Schneider - France / MONTEL / HAVELS / Hyundai.

4.6.1 APPLICABLE STANDARD:

Unless otherwise stipulated in this specification, the MCBs shall comply with the latest version of IS/IEC 60898-1:2002.

4.6.2 NO. OF POLES:

MCBs required are of TPN type.

4.6.3 RATED VOLTAGE AND FREQUENCY:

The rated voltage shall be 240 Volts and frequency 50 Hz.

4.6.4 RATED CURRENT:

The rated current shall be 20 Amp.

4.6.5 RATED SHORT CIRCUIT CAPACITY:

The MCB shall be suitable for 10 KA breaking capacity as per IS/IEC: 60898-1:2002.

4.6.6 SERVICE SHORT CIRCUIT CAPACITY:

The rated service short circuit capacity of MCBs shall be 10 KA as per IS/IEC: 60898-1:2002. The procedure for making the S.C.Test and the test circuit etc. shall be in accordance with the IS/IEC: 60898-1:2002.

4.6.7 OPERATING CONDITIONS:

- a) Time current characteristics: The MCBs shall have a fixed, unadjustable time / current characteristics. The same shall be prepared in accordance with IS/IEC: 60898-1:2002 and the manufacturer shall submit the copies of these curves with his bid document. Tripping time-current characteristics shall be as per type 'C' as per IS/IEC: 60898-1:2002.

- b) Mechanical and Electrical Endurance: MCBs shall be capable of carrying out a given no. of operation cycles as per IS/ IEC: 60898-1:2002.
- c) Limits of Temperature Rise: Temperature rise of several parts of circuit breakers measured during the test carried out under the conditions specified in IS/ IEC:60898-1:2002 shall not exceed the limiting values stated in Tables V.

4.6.8 DESIGN & CONSTRUCTIONS OF MCB:

- a) Materials shall be suitable for the particular application and capable of passing the appropriate tests. The MCBs shall have trip free operating mechanism.
- b) The metallic portions of the mechanism shall be either inherently resistant to, or so treated as to make them resistant to atmospheric corrosion.
- c) **Marking:** Each MCB to be supplied in accordance with this specification shall bear markings as per IS/ IEC:60898-1:2002.
- d) The mechanism shall be fitted with an automatic release which shall at all times function independently of the means used to close the circuit breaker.
- e) Circuit breakers shall be arranged for manual closing and opening and for automatic tripping on over current / short circuit.
- f) The operating mechanism case shall be effectively sealed by the manufacturer to prevent access to the mechanism. The case may be of insulating material and shall be designed to withstand reasonably rough usage without fracture or permanent distortion.
- g) Ventilating Outlets : Ventilating Outlets from circuit breakers shall be so situated that a discharge of gases or hot air from arc chambers, when provided in air circuit breaker, will not cause electrical breakdown and shall be directed away from any place where an operator may have to be in the course of his ordinary duties.

The construction shall be such that gas can not collect at any point where ignition can be caused during or after operation by sparks arising from normal operation of a circuit breaker or its ancillary equipment.

4.6.9 TERMINALS:

The terminals shall be of substantial mechanical construction and shall provide adequate electrical contact for the 1.5 to 25 sq. mm size of cable used. The use of aluminum conductors for the incoming terminal shall be taken into account.

Terminal shall be such that they cannot turn or to be displaced when the connecting screws are tightened and such that the conductor cannot become displaced / loose.

Terminals shall be “terminal with stirrup type as per drawing given in IS/ IEC:60898-1:2002 and shall be such that live parts are not accessible. Live part cannot be touched by the test finger of design shown in IS/ IEC: 60898-1:2002.

Terminals shall be so mounted that the appropriate wire or cable may be connected without impairing the normal performance of the unit.

No contact pressure shall be transmitted through insulating material and the gripping of the conductor shall take place between metal faces.

5.0 OTHER COMPONENTS & FEATURES:

5.1 Spacers for connecting the Chambers:

For joining the Chamber No. 1 with Chamber No. 2; 1 No. specially designed polycarbonate spacer has to be used.

5.2 External Earthing Plate for Earthing:

M.S. 2 mm \pm 2.5% thick hot dip galvanized plate with 8 Nos. of M6x40 Nut, bolts and washer should be fitted on the bottom of chamber for providing earthing for outgoing connections.

5.3 Cable Clamps for Incoming Cables:

1 number of MS U Shaped bend clamps with bots and nuts should be fitted on metal frame to hold and support the incoming cable firmly.

5.4 Cable Clamps for outgoing Cables:

Sufficient numbers of MS U Shaped bend clamps with bots and nuts should be fitted on metal frame to hold and support the outgoing cables firmly.

5.5 Arrangement for mounting of Chambers on Pole:

3 Nos. 40 x 6 mm thick M.S. Back clamps have to be given to mount the Chambers on a pole (As per drawing). This claim must be hot dip galvanized.

6.0 MARKING:

The following shall be embossed / printed on the cover of box in big font:

- a) Name of the manufacturer.
- b) Property of MPMKVCL
- c) Guarantee period - 18 month
- d) P.O. No.
- e) Serial No.....
- f) Danger Logo and “440 Volts” in red colour with good visibility.

7.0 Type Tests:

1) **Enclosure (Box) :** The type tests to be conducted on the enclosure from NABL accredited lab as per IS:14772. The following tests shall constitute the type tests: The type test certificate shall not be more than three (3) years old from the date of opening of bid:-

S. No.	NAME OF TEST	STANDARD	CLAUSE NO.	Remarks	
				Type Tests	Acceptance Test
1	Visual examination	As Per GTP/ approved drawing		T	A
2	Verification of dimensions & Marking	As Per Spec/GTP/ approved drawing		T	A
3	Protection against electric Shock	IS: 14772	9	T	-
4	Resistance to ingress of solid object & to harmful ingress of water (IP-55)	IS: 14772	12	T	-
5	Test of Mechanical Strength / Impact Resistance Test	IS: 14772	13	T	-
6	Resistance to heat				
7	Resistance to Rusting				
8	Glow Wire Test at 950 degree Centigrade	IS:14772/ IEC 695-2-1		T	-
9	Verification of Dielectric Properties at 5 KV	IS:8623	8.2.2.2	T	-
10	Heat Deflection Test at 125°C at 0.45 Mpa	IS : 13411 / ISO : 75		T	-
11	Test for Self Extinguishing Properties	IS:4249	3.5.1	T	-
12	Flammability Test	IS:11731 II		T	-
13	U V Resistance Test	Din 53387		T	-
14	Withstand Voltage Test			T	-

2) **MCCB:** The type tests to be conducted on the MCCB from CPRI/ERDA only as per IS/IEC 60947-2:2003. The following tests shall constitute the acceptance tests.

1. Overall Dimensional Checking.
2. High Voltage test at 3 kV for one minute.
3. Insulation resistance test.

3) **MCB:** The MCB should be 'ISI' marked as per IS / IEC 60898-1:2002 from BIS. The following tests shall constitute the acceptance tests.

1. Overall Dimensional Checking.
2. High Voltage test at 3 KV for one minute.
3. Insulation resistance test.

8.0 Acceptance test of lot :- 5 Nos. samples of each sub lot/lot of 1000 Nos. or part there of from each lot received in stores shall be selected for test checking of material as detailed below:-

- 8.1: For Enclosure (outer Box) chamber no.1 and 2:-
 - (a) Visual Examination
 - (b) Verification of Dimensions and marking
- 8.2: For MCB/ MCCB:-

- (a). Overall Dimensional Checking.
 - (b). High Voltage test at 3 KV for one minute.
 - (c). Insulation resistance test.
- 8.3: For Galvanized Parts (as mounting frame, back clamp etc).
- (a). Visual Examination.
 - (b). Verification of Dimensions.
 - (c). 4 dip test of 1 minute each as per IS 2633:1972 with latest amendments.

Addl. General Manager (Pur)
O/o Chief General Manager (BR)
MPPKVCL, Bhopal.

ANNEXURE- V**GUARANTEE TECHNICAL PARTICULARS OF
INSULATED METER CUM PROTECTION BOX**

S. No.	Particulars	Description
1	Material of Chamber / Enclosure	UV Resistant Fire Retardant Polycarbonate Base : Grey Colour Cover : Transparent
2	Thickness of Chamber	3 mm \pm 0.2 mm
3	Dimension of Chamber / enclosure	As per Drawing.
4	MCCB/Make	40 A four pole - 36 KA - 1No.
5	MCB/Make	TPN 20 A - 4 Nos.
6	MCB Operating window made of polycarbonate	4 Nos.
7	Internal Wiring from MCCB to meter	4 Nos. x 1C x 10 sq. mm - multistrend Copper wire of standard colour coding R,Y,B and N to each meter.
8	Internal Wiring from Meter to MCBs	4 Nos. x 1C x 10 sq. mm - multistrend Copper wire of standard colour coding R,Y,B and N to each MCB.
9	Earthing bolts, Washers and Nuts.	4 Nos.(Hot dip Galvanized)
10	Earthing Logo	Earthing symbol
11	Hinges	3 Nos. Hinges
12	IP Level of individual Chambers	IP 55
13	Holes for cable	As per respective drawings
14	Mounting MS. Back clamps	40x6 mm – thick MS. Flat (Hot dip Galvanized)-3 nos.
15	Elbow Gland suitable for incoming 1 No. 25 Sq mm 4 Core PVC insulated armoured Aluminium cable.	PG 29 Nylon - 1 No.
16	Gland suitable for outgoing 4 Nos. 6 Sq mm 4 Core PVC insulated un-armoured Aluminium / copper cable.	Rubber Grommets - 4 Nos.
17	Colour	BASE: Grey COVER: Transparent

18	Marking	a) Name of the manufacturer. b) Property of MPPKVVCL c) PO. No. d) Serial No. e) Guarantee period - 18 month f) Danger Logo "440 Volts" in red colour
19	Base Frame (Hot dip galvanized)	MS Channel of 2.5 mm thick

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

SCHEDULE- I

QUANTITY AND PRICE

(PART-III PRICE BID TO BE KEPT IN THE SEALED ENVELOPS)

Sl. No.	Particulars	Quantity tendered (in Nos.)	Quantity offered (in Nos.)	Unit FOR destination price inclusive of packing, forwarding & freight charges, ED/ST etc. (Rs.) per Nos	Remarks
1.	Supply of Insulated meter-cum-protection box suitable for 25 KVA Distt. X-mers as per Schedule-II (Technical specification & drawing enclosed)	300			

NOTE :-

1. Please indicate the following:-

- (i) Unit Ex-works rates including packing charges.
- (ii) Percentage of Excise Duty and amount.
- (iii) Percentage of Sales Tax/MPCT and amount.
- (iv) Forwarding & freight charges.
- (v) Any other levies/taxes.
- (vi) Total FOR destination unit rate including all taxes & duties **(in figures and in words)**

2. Quantities mentioned above are purely tentative and are subject to change at the discretion of CE(BR) to any extent.

3. Price are to be filled in strictly in this format.

4. No. column shall be left blank.

5. The amount should be indicated in figures & words both.

Place :-

Date :-

**SIGNATURE OF BIDDER
WITH SEAL OF FIRM**

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

- (i) Strike off, whichever is not applicable.
 (ii) Separate sheets should be used, wherever necessary.

1.	i	Whether material offered is exactly as per the technical specification.	
	ii	If not, give details of technical deviation (Information may be given in deviation schedule given with documents for this purpose.	
2		Whether the list of orders received during last 3 years from other State Electricity Board/NTPC & from other organization for similar materials is furnished.	
2.		Whether the tender has furnished details of manufacturing equipments and short history of plant.	
3.		Whether pamphlets/technical details literature along with drawing etc. furnished with the offer	
4.		Whether the tender agrees to furnish material test certificates in respect of chemical composition and physical properties, wherever required, from Govt./Govt. approved Lab. With each bath of supplies.	
5.		Whether details of manufacturing process furnished with offer.	
6.	i.	Whether all testing facilities are available. If so, give details and in case of non-availability of facilities indicate approved lab. available in surrounding areas where tests are proposed to be conducted.	
	ii	Whether you agree for inspection by Discom-CZ's representative prior to despatch and bear the testing charges for all tests as per relevant standard.	Yes/No
7.		Please furnish/indicate the quality assurance programme/plan of your product being followed in your works.	

PLACE:

SIGNATURE OF TENDERER

DATE

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

SCHEDULE - III
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 for correspondence
 2. Name & Address of the firm/Company etc
 - (a) Registered office
 - (b) Factory/ works address
 - (c) Telegraphic address
 - (d) Telephone Nos.
 - (e) Fax Nos.
 - (f) Email
 3. Confirm whether bidder is a Manufacturer Yes/ No.
 4. Only Manufacturer to give following particulars
 - (a) Address of factory
 - (b) Year of starting manufacture
 - (c) Whether same/similar materials Manufactured/printed earlier, (if yes, give reference
 - (d) Yearly/monthly production Capacity
 - (e) Maximum yearly production achieved so far
 5. Whether the firm is an MP SSI Unit Yes/ No
 - (a) If yes, write registration No.
 - (b) Whether documentary evidence regarding registration enclosed
 - (c) Items of registration
 - (d) Period of Registration
 - (e) Furnish latest copy of competency certificate Yes/ No
 6. (a) Whether the bidder is old participant with MPSEB Yes/ No
 - (b) If yes, whether document evidence enclosed.
 7. Any other information that bidder If yes, whether document evidence enclosed. If yes, give details may like to give in order to highlight his bid

PLACE:

SIGNATURE OF TENDERER

DATE

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

SCHEDULE - IV
PART “B”: COMMERCIAL INFORMATION
 (TO BE KEPT IN THE ENVELOPE PART-II,
 (COMMERCIAL/TECHICAL 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 in favour of Sr.AO(AU), CE (BR), MPMKVCL, Bhopal.
	ii	(a) Amount of EMD	Rs.10,000/-
		(b) Particulars/details	
	iii	If exempted, state whether the bidder is	SSI Unit of M.P./ Small Scale unit registered with NSIC/ Fully owned State/ Central Govt. Unit.
	iv	Whether reference of documentary evidence regarding exemption enclosed.	Yes/ No
2.		Whether the offer is valid for 180 days from the date of opening of commercial / technical bid	Yes/ No (If no, state validity period).
3.		State whether the quoted prices are Firm/Variable	
4.		Mode of despatch	By Rail/By Road
5.		DISCOUNT:-	
	i	Whether any rebate/ discount is offered & percentage. Remarks:-Please note that the offered discount/ rebate shall be un-conditional only. If conditional rebate/discount is offered, then the same shall be treated as unconditional.	Yes/No
6.		PAYMENT TERMS	
		Whether Discom-CZ's terms of payment is acceptable to the tenderer (If no state conditions)	Yes/ No
7.		DELIVERY PERIOD	
		Whether agreeable to Discom-CZ's Delivery Clause. If agreeable, please indicate:-	
	a	Commencement period from the date of receipt of order.	
	b	Monthly supply rate, rating-wise.	
8.		PENALTY CLAUSE	
		Whether agreeable to Discom-CZ's penalty clause	
9.		GUARANTEE PERIOD	

		Indicate guarantee period of material offered by you.	
10.		SECURITY DEPOSIT	
	a.	Whether agreeable to furnish Security deposit @10% of value of order for satisfactory execution of the order and to cover guarantee period.	Yes/No
	b.	If not, indicate deviation, specifically	
11.	a.	Indicate applicable rate of Excise Duty.	
	b.	Indicate applicable rate of VAT/CST.	
12.		EXTENSION ORDER	Yes/ No
		Whether you are agreeable to accept extension order for 100% quantity on the same rates, terms & condition, if any extension order is placed within 6 months from the date of placement of detailed order.	
13.		Whether rates offered are applicable for part quantities also.	Yes/ No
14.		Have you noted that you have quoted prices in the desired format	
15.		Please mention the quantity quoted in the Price Schedule (Rating & size-wise, if any).	
16.		Please furnish photocopy of the Sales Tax Clearance Certificate from Sales Tax Deptt and audited profit & loss Account and Turn over for last 3 years upto the last financial year have been enclosed.	

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

SCHEDULE-V

SCHEDULE OF PAST EXPERIENCE

Bidder's Name & Address:

To,

The Chief General Manager (BR)
M.P.M.K.V.V.Co.Ltd.
Nishtha Parisar,
Bijli Nagar Colony, Govindpura,
Bhopal.

.Sub: Performance/ past experience.

Dear Sir,

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

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

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

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

SCHEDULE-VI

**SOURCE OF MATERIAL AND PLACES OF MANUFACTURE, TESTING
& INSPECTION**

S.No.	Name of manufacturer	Place of manufacture	Place of testing & inspection	Source of material

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

PART- I

SCHEDULE- VII

SUBMISSION OF EARNEST MONEY

I hereby submit the Earnest money of Rs. 20,000/- against T.S. No. CGM/ BR/ 02/ 07/5791 Dt. 12.10.11 for supply of Insulated meter cum protection box suitable for 25 KVA Distt. X-mers vide D.D No. _____ Dt. _____ issued from _____

Encl :-

SIGNATURE :

NAME :

ADDRESS :

Dated :

Schedule VIII

UNDERTAKING

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

PLACE:

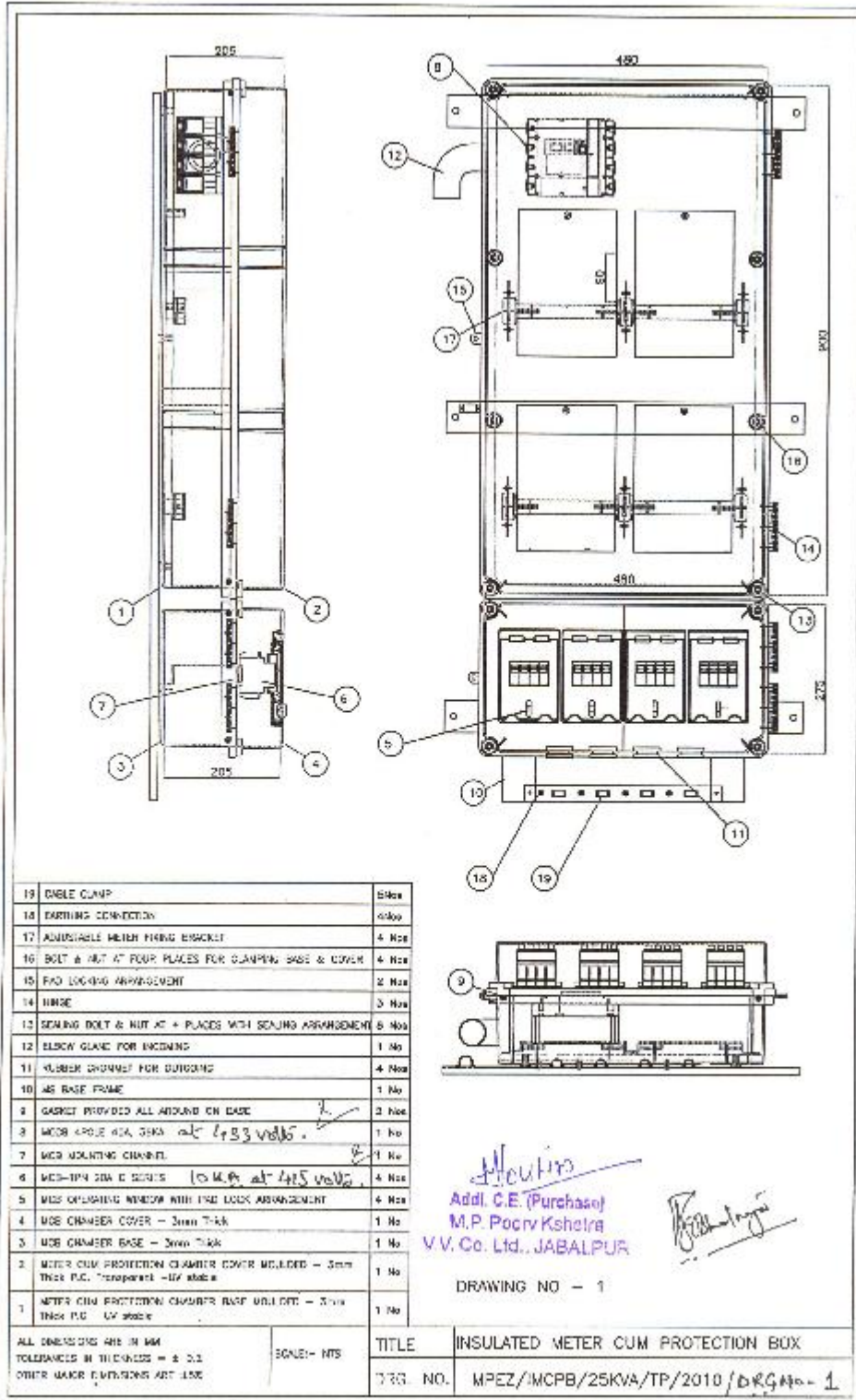
SIGNATURE OF TENDERER

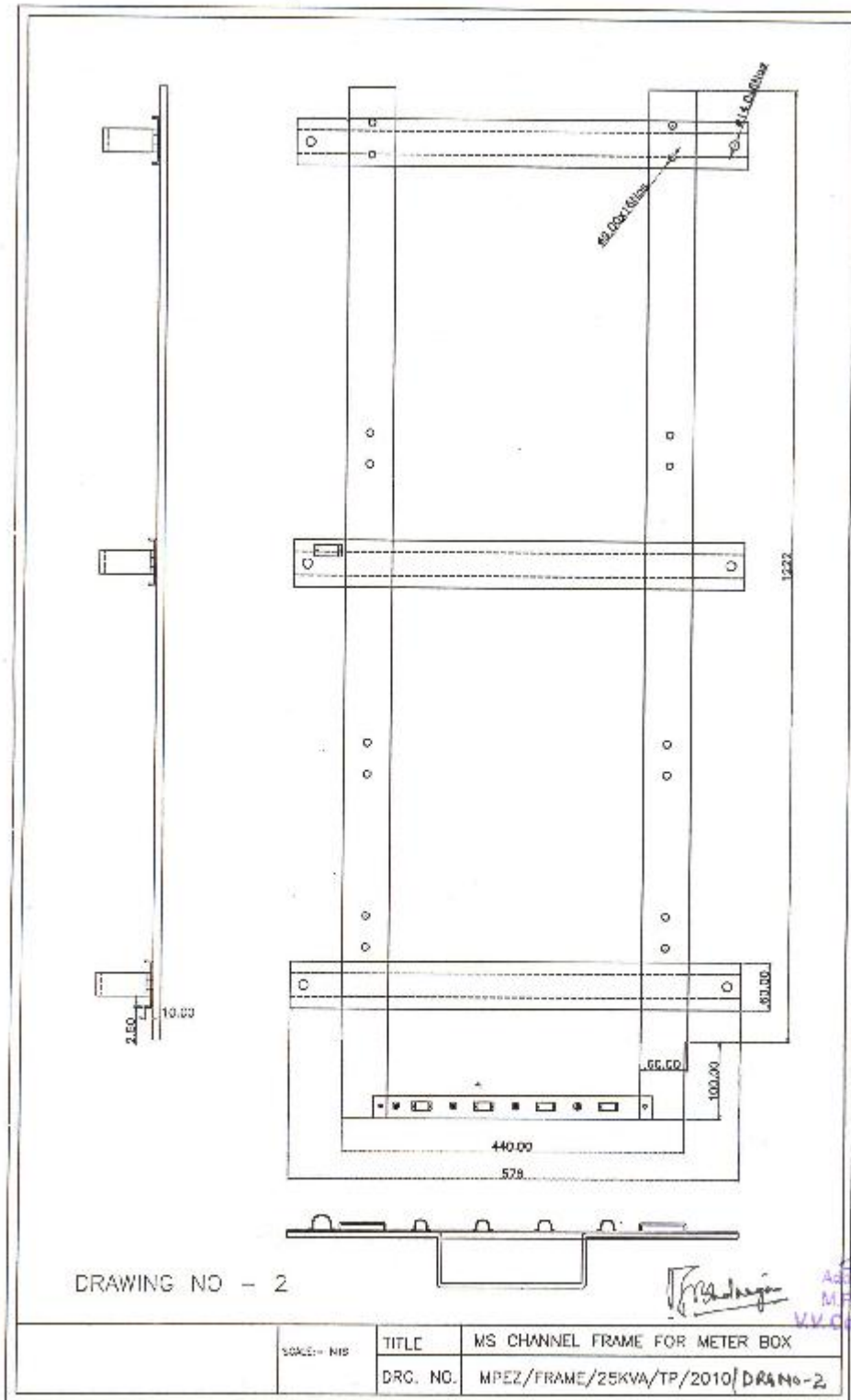
NAME IN FULL

DATE

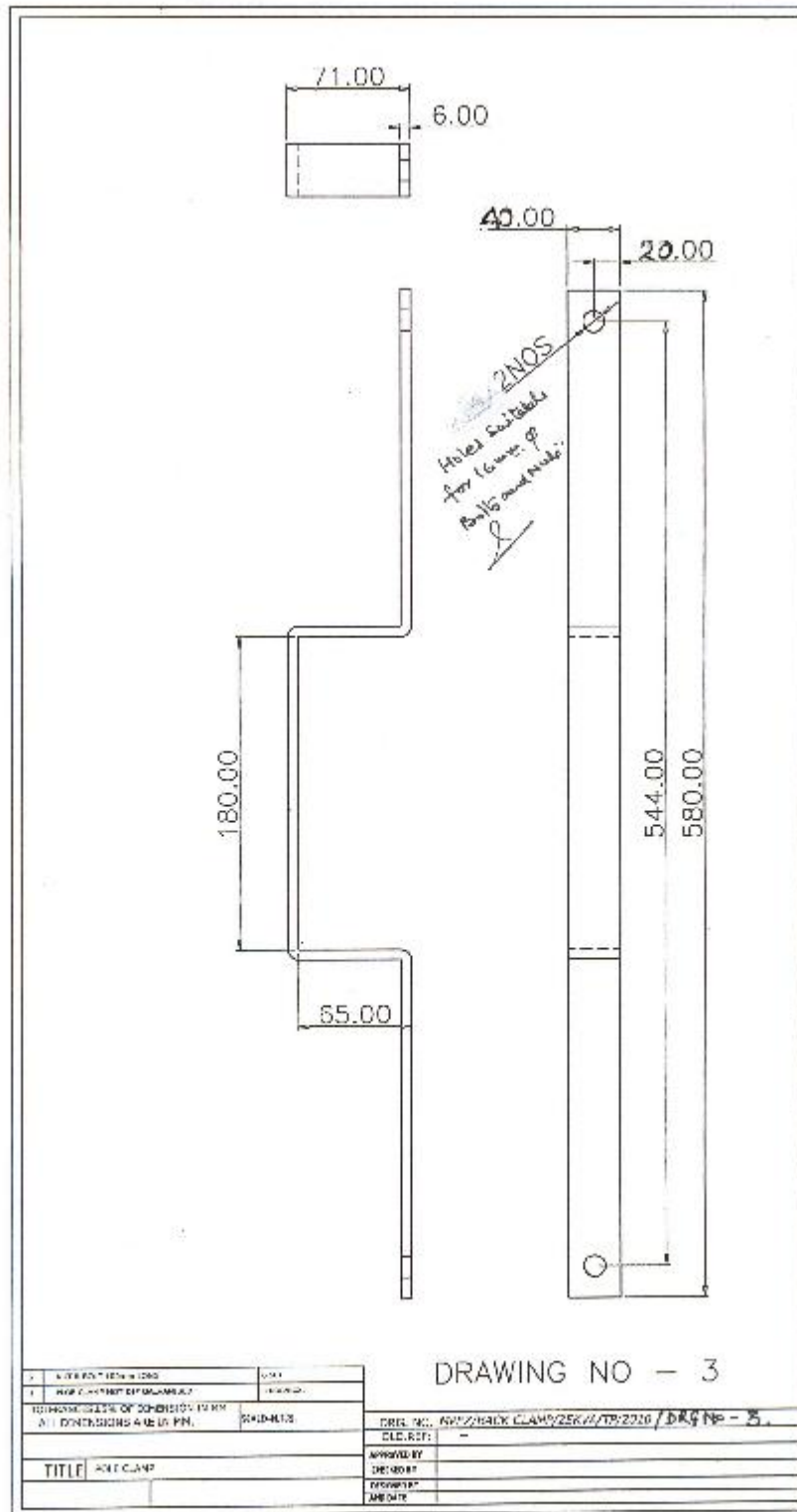
DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL





Handwritten Signature
 Add. C.E. (Purchase)
 MP, Poorv Kshetra
 V.V. Co. Ltd., JABALPUR



[Signature]

[Signature]

Addl. C.E. (Purchase)
M.P. Poorv Kshetra
V.V. Co. Ltd., JABALPUR

