

OFFICE OF THE CMD (WEST ZONE)
M.P. Paschim Kshetra Vidyut Vitaran Co. Ltd.
G.P.H. Compound, Pologround, Indore.



Tender Specification No.CMD/WZ/06/PUR/459,

Due for opening on: - 04.08.2010 AT 3.30 PM

**SUPPLY OF 33 & 11 KV CONTROL & RELAY
PANEL**

Issued by:

The Chief Engineer (Corp. Office - Pur)

O/o CMD (West Zone),
M. P. Paschim Kshetra Vidyut Vitaran Co. Ltd,
G.P.H. Compound, Pologround,
Indore (M.P.)

EPABX No.: 0731-2423577, 2422544, 2423263, 2422045 Extn. 144, 115 & 303 Fax No. 0731 2423300.

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Volume I

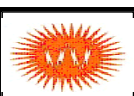
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Basic Tender Information

Particulars	Details
Name of Work	SUPPLY OF 33 & 11 KV CONTROL & RELAY PANEL
Tender Specification number	CMD/WZ/06/PUR/459
Date of Sale of Tender documents	From 15.07.2010 to 04.08.2010 (upto 12.00 Noon)
Last Date of Bid Submission (Date & Time)	04.08.2010 At 3.00 PM
Due Date of Opening of Technical & Commercial bids	04.08.2010 At 3.30 PM
EMD to be Deposited	Rs. 20,000/- through DD in favour of MPPKVVCL, Indore
Cost of Tender Documents	Rs. 2,000/- plus Rs 300/- extra if desired by post.

Tender Notice



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

GPH COMPOUND, POLOGROUND, INDORE

(EPABX Ph. No: 0731-2422045, 2423263, 2422544, Extn. 144, 203 & 303 Fax No: 2423300)

No. CMD/WZ/06/PUR/12246

Indore, dated: 06.07.2010

NOTICE INVITING TENDERS

Sealed tenders are invited for following items by the dates indicated here under: -

Sr. No.	T.S. No. CMD/WZ/06/PUR/	Name of Item / work	Approx. quantity	Tender Fee (Rs.)	Last date for submission up to 3:00 PM & opening at 3:30 PM
1	451	PVC Cable, 1100 Volts Gr. Armoured Aluminum Cable (KM)			
		2.5 sq.mm. 2 core	1000	10000/-	02.08.2010
		4.0 Sq.mm. 2 core	6680		
		6.0 Sq.mm. 4 core	535		
LT Aerial Bunched Cable					
2	452	3X25 +1X16+1X25 Sq MM	10	10000/-	02.08.2010
		3X95+1X16+1X70	50		
		3X120+1X16+1X95	260		
		3X70+1X16+1X50	110		
3	453	1100V., Single Core XLPE/PVC insulated Un-Armoured Aluminum Conductor Cable (KM)			
		16 Sq.mm.	22105	5000/-	02.08.2010
		25 Sq.mm.	200		
		35 Sq.mm	150		
		70 sq.mm	30		
		150 Sq.mm	60		
300 Sq.mm	20				
4	454	33 KV / 11 KV Isolator			
		33 KV Isolator (600 A.)	186	5000/-	03.08.2010
		11 KV Isolator (600 A.)	304		
11 KV Aerial Bunched Cable (KM)					
5	455	11 KV Aerial Bunched Cable 185 sq. mm	10	5000/-	03.08.2010
		11 KV Aerial Bunched Cable 95 sq. mm	5		
6	456	Current Transformer/ Potential Transformer (Nos.)			
		33KV CT Ratio 200/100/5	276	5000/-	03.08.2010
		33KV CT Ratio 300/150/5	18		
		11KV CT Ratio 500/250/5	30		
		11KV CT Ratio 300/150/5	254		
		11KV CT Ratio 200/100/5	466		
11 KV PTs: Single Phase .	120				
7	457	33 KV & 11 KV AB Switch (Nos.)			
		33 KV AB Switch	80	2000	04.08.2010
		11 KV AB Switch	1300		
Lightning Arrestor (Nos.)					
8	458	33 KV Lightning arrestors (Station Type)	300	2000/-	04.08.2010
		11 KV Lightning arrestors (Line Type)	10131		
		11 KV Lightning arrestors (Station Type)	120		
9	459	Control & Relay Panel			
		33 KV Control & Relay Panel for transformer protection	28	2000/-	04.08.2010
		33 KV Control & Relay Panel for feeder protection	6		
		11 KV Control & Relay Panel for transformer protection	28		
11 KV Control & Relay Panel for feeder protection	105				
10	460	HT Meter Testing Equipments			
		Portable 3 Phase Electronic Reference Standard Meter (Accuracy Class 0.05s) (Set)	2	2000/-	05.08.2010
		Portable Static Phantom load Testing Kit (Set)	2		
Primary Injection Kit 300 Amp (Set)	2				
11	461	XLPE cable of assorted ratings			
		11 KV XLPE cable 3 core 185 sq.mm	3	2000/-	05.08.2010
	33 KV XLPE cable 3 core 185 sq.mm	1			
11	462	Copper Control cable (KM)			
		Copper Control cable (4 core 2.5 Sq.mm. unarmoured)	13	1000/-	05.08.2010
		Copper Control cable (8 core 2.5 Sq.mm. unarmoured)	8		
		Copper Control cable (2 core 2.5 Sq.mm. unarmoured)	7		
Copper Control cable(12 core 2.5 sq. mm armoured)	5				
13	463	30V-100AH Lead Acid Battery (Nos.)	40	1000/-	06.08.2010
14	464	30 Volts-10 AMP Battery Charger (Nos.)	40	1000/-	06.08.2010
15	465	Double compartment standard HT meter boxes	500	1000/-	06.08.2010

Note:- 1. The detailed NIT, Qualifying criteria along with technical specification is available on our website – www.mppkvcl.org. The tender documents must be purchased from the Chief Engineer (Corporate Office), O/o CMD (WZ), M.P.P.K.V.V.Co.Ltd., G.P.H. Compound, Polo-ground, Indore from dated 15.07.10, on payment of non refundable tender fees as specified against the respective tenders, between 11.00 Hrs. to 17.00 hrs on all working days. The payment towards EMD / Cost of Bidding Document shall be made by crossed Demand Draft in favors of M.P.P.K.V.V.Co.Ltd., Indore payable at Indore. Cheque / Cash / Postal orders will not be accepted. The last date of selling of tender documents shall be 12:00 Noon on due date of opening of respective tenders Further, if required by Post Rs. 300/- for Sr. no. 1 to 11 and Rs. 100/- for 12 to 15 shall be payable extra 2. The tender document downloaded from website will not be entertained. In case of any ambiguity, the terms & condition mentioned in the tender document will be final.

www.mppkvcl.org

//Save Electricity//

Chief Engineer (Corp. Office)

EXTANTION OF DUE DATE

The due date of submission of tender specification No. 450 for supply and installation of 14 No. ACs issued vide NIT No. CMD/WZ/06/Pur/10608 dated 11.06.2010 due on 05.07.2010 is hereby extended up to 20.07.2010. The other terms & conditions will remain unchanged.

TS NO. CMD/WZ/06/PUR/459 DUE ON 04.08.2010
SUPPLY OF 33 & 11 KV CONTROL & RELAY PANEL

**OFFICE OF THE CMD (WEST ZONE) M.P.P.K.V.V.C.L.
G.P.H. COMPOUND POLOGROUND INDORE**

Postal Order/Demand Draft No.....

Tender issued to M/s
.....

TENDER FORM

The undersigned hereby tender and offer, the **M.P. Paschim Kshetra Vidyut Vitaran Company Ltd., Indore** to supply the plant, machinery and materials; and execute/do several works and things, which are described or referred to at various places in the tender document no. CMD/WZ/06/PUR/459 dated 06.07.2010; 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 which can be reasonably inferred from the said tender documents, for the sums and at the rates set out in Schedule –I annexed here to.

The information desired in the Schedules enclosed with this tender document has been fully furnished (if the desired information is not submitted, 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).

We have examined in detail and have understood and agree to abide by all the terms and conditions stipulated in the tender document and in any subsequent communication from MPPKVVCL in this regard (if any). Our technical proposal is consistent with all the requirements of submission as stated in the tender document or in any of the subsequent communication from MPPKVVCL in this regard (if any).

We hereby undertake that the information submitted in our offer is complete and correct to the best of our knowledge and belief. We would be solely responsible for any errors or omissions in our offer. We agree that, in case of any ambiguity/ incompleteness found in the information furnished by us in the offer, same shall be interpreted by MPPKVVCL to its advantage. We agree to abide by all your tender / order terms and conditions.

Date the Day of.....

BIDDER'S SIGNATURE
(With Seal)

Bidders Address: -
.....
.....

Section I: Qualifying Criterion

1. General:

The Bidding is open for manufactures only, who provide satisfactory evidence that –

- (i) They are qualified manufacturer, who regularly manufacture/supply the equipment / material of the type specified and have adequate technical knowledge and practical experience.
- (ii) They do not anticipate change in the ownership during the proposed period of contract, (if such a change is anticipated, the scope and effect thereof shall be defined).

2. Financial:

- (i) Bidder must have adequate financial stability and status to meet the financial obligations pursuant to the scope of the assignments. (The Bidders should submit copies of their profit and loss account and balance sheet for the last two financial years, duly audited wherever applicable, for ascertainment of the same).

3. Technical:

- (i) The bidder (if he is a manufacturer) or his principal (if bidder is an authorised dealer of principal manufacturer) must have-
 - a. Adequate plant and manufacturing capacity available to perform the assignment properly and expeditiously within the time period specified. The bidder shall have to submit adequate evidence in this regard, which 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 in adequacy 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.
 - b. Established quality assurance system and organizations designed to achieve high level of quality equipment and reliability during their manufacturing activities.
 - c. **Type Test**
The offered material / item should be type tested as per specification from NABL Accredited Testing Laboratory. The type test report should not be older than 5 years as on date of tender opening. The notarised copy of type test reports along with the approved drawing of offered material / item from NABL lab must be furnished along with offer. In the absence of the type test reports or type test reports found more than 5 years old, the offer shall be out rightly rejected. Similarly, type test reports of laboratories, other than NABL accredited, shall not be acceptable.

Section II: Special Terms and Conditions of purchase

1. TERMS OF PAYMENT & PAYMENT PROCEDURE

- (i) Subject to completion of all contractual formalities, 100% payment will be made on assured basis within 45 days, after acceptance of material at our Stores in good condition, However, the M.P.P.K.V.V. Co. Ltd, Indore shall not be liable for any interest due to delay in payment. The term 'Acceptance' shall mean as defined in clause "**Testing & Acceptance of Material**", detailed in this section.
- (ii) The supplier shall forward the original RR/MTR and Excise gate pass directly to consignee along with copies of following documents:-
 - a) A copy of bill
 - b) Delivery Challan
 - c) Original copy of excise duty gate pass along with a photocopy
 - d) The inspection and or T.C. approval
 - e) Detailed packing list, if required.
- (iii) The original bills should be forwarded to the paying authority AO CBP Cell (located in RAO Indore) and should be marked "**ORIGINAL**". The bill should indicate Tax Registration Number and date allotted to him under CST Act/ ST/ VAT Act.
- (iv) The following documents will have to be forwarded to the paying authority along with bills in triplicate:-
 - a) Bill/ Invoice.
 - b) Xerox copy of despatch documents i.e. RR/ MTR etc.
 - c) Dispatch clearance / instructions.
 - d) Photo-copy of Excise Duty gate-pass.
 - e) Certificate/ undertaking covering following –
 - a. State of origin of invoice (i.e. invoice has been originated under TIN number of MP or any other state).
 - b. Goods are being supplied Entry Tax Paid or Entry Tax is required to be paid by Purchaser.
 - c. C-form is required by Vendor or not ?
 - d. Confirmation from vendor if the transaction is in the nature of 'Interstate Sale in Transit'
- (v) 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.
- (vi) For payment, the invoice in triplicate with relevant documents such as Material Receipt in good condition etc. should be submitted to the AO (CBP Cell).
- (vii) The vendor, while claiming 100 % payment, shall have to certify that prices as charged have not undergone any downward variation as per applicable PV formula/ circulars. Claim for upward variation in prices shall have to be submitted by vendor separately.

2. DELIVERY

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

3. PERFORMANCE GAURANTEE

- (i) If during the course of 18 Months subsequent to the date of receipt 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 by the supplier, free of all charges. All necessary arrangement on these accounts will be made by the suppliers.

- (ii) The said material, if required to be replaced, shall be collected by the supplier/firm from Area Stores/ work side at their own cost and at their own responsibility. These material will likewise be returned duly repaired/replaced and tested subsequently by the supplier to the destination indicated, on "Freight paid basis" at their cost within a period of 30 days from the date if intimation. The guarantee period as stipulated in sub-clause (i) above shall also be applicable for repaired/ replaced material, which shall however be counted afresh from the date of its delivery in our stores/at site.
- (iii) Further, it is clarified that all the charges towards carrying out repairs including packing /forwarding loading/unloading shall be borne by the supplier. The amount deposited under security deposit clause shall also cover the performance guarantee of the material.
- (iv) All equipment/line materials reported failed within specified guarantee period shall be replaced free of cost by the supplier/manufacturer concerned.
- (v) Actual cost of dismantling and replacement of these equipments /materials with the new ones, shall be charged to the supplier's account.
- (vi) To and fro transportation cost of such failed equipment shall also be borne by the supplier.
- (vii) In the event of the supplier's inability to adhere to the aforesaid provisions, suitable penal action will be taken against them, which may, inter-alia, include black-listing of the firm for future business with the Company for a certain period.

4. TYPE TEST

The offered material / item should be type tested as per specification from NABL Accredited Testing Laboratory. The type test report should not be older than 5 years as on date of tender opening. The copy of type test report along with the approved drawing of offered material / item from NABL lab must be furnished along with offer. In the absence of the type test reports or type test reports found more than 5 years old, the offer shall be out rightly rejected. Similarly, type test reports of laboratories, other than NABL accredited, shall not be acceptable.

5. TOLERANCE IN THE SUPPLIED QUANTITY

A tolerance in the supplied quantity will be allowed to the extent of $\pm 2\%$ (plus/ minus two %) of the ordered quantity. MRCs shall be issued for actual receipt of quantity only.

6. ISSUANCE OF C FORM

Intended procurement is entitled for CST at concessional rates. As such, necessary declaration form for availing concessional CST shall be furnished to only those bidders who have indicated in their bids that they shall be supplying materials through Inter-State Sale or Interstate Sale in Transit type of transactions. The form shall be issued after receipt of material at destination and verification of the legal position at our end. Bidders are requested to quote rates after taking cognizance of above.

7. PERMANENT SECURITY DEPOSIT

Facility of Permanent Security Deposit can NOT be availed by the vendor for this tender, (even if mentioned in **Section V - General Terms and Conditions of Purchase**).

8. TESTING AND ACCEPTANCE OF MATERIAL :-

A. **Collection of sample for testing**:-The sample from each lot of material received at the respective Area Stores of the Company will be collected in accordance with the relevant **IS specifications**. The representative of the bidder may be present during collection of samples. In case the material of one lot is supplied at more than one area stores, the company reserves the right to select one or more area stores from which sample for testing shall be drawn.

- B. **Testing:** - The sample collected at the area stores will be forwarded to a laboratory, specified as under, for testing.
- C. **Laboratory for testing of material:-** Only the laboratory having accreditation from NABL shall mean a Laboratory for this purpose under this clause.
- D. **Selection of Laboratory:-** The Company will have the sole discretion to select a NABL accredited Laboratory for this purpose.
- E. **Testing fees:-** The Company shall recover the cost of testing fees as intimated by NABL accredited laboratories by way of deduction from bills of vendors.
- F. **Acceptance of Material:-** The test report of samples, collected pursuant to clause A of this section in accordance with clause B to D above, indicating the sample to be in conformity to the specification will be considered as acceptance of material received by the consignee .
- G. **Status of other test reports :-** Notwithstanding any confirmatory report issued by the officers of the company and or by the agency appointed by the company in this regard, at any stage prior to collection of samples as specified above at “A”, the test report as mentioned above at F will be the sole criterion for acceptance of material .

9. **CONFLICTING INTEREST**

“No two or more concerns in which an individual is interested as a proprietor and / or partner shall tender for the execution of the same work. If they do so, all such tender shall be liable to be rejected”.

10. Bidders are also advised to furnish following documents: -

- a) Permanent Account Numbers (PAN) of all the partners/Directors (in case of company) along with names, addresses and telephone Nos./ Mobile Nos. of each Partner/Director.
- b) Latest partnership/ownership deed of the firm quoting the tender.
- c) Copy of list of directors (in case of a company) with names, addresses and telephone Nos./Mobile Nos. of each director.
- d) Power of Attorney to sign the tender documents and all correspondence before and after placement of order.

11. All the terms and conditions and technical specifications mentioned in the tender document purchased from the Chief Engineer (Corp. Office - Pur) O/o CMD (WZ) MPPKVVCL, GPH Compound Pologround, Indore shall only be applicable. As such, in case if it is down loaded from Web Site, it should be invariable verified by the bidder from the tender document purchased.

-Sd-

Chief Engineer (Corp. Office - Pur)
O/o. CMD (WZ) MPPKVVCL,
Indore

Section III : Technical Specifications

INDOOR CONTROL PANELS FOR 11 /33 KV VCBs

- 1 SCOPE: This section contains the technical specification for the Indoor Control, indication, relay and metering panels associated with the outdoor switchgear for use at various sub-stations. The control and relay panels and other requirements specified under this section shall be complete in themselves with all main and auxiliary relays, fuses, links, switches, wiring, labels, terminals blocks, earthing terminals, foundation bolts, illumination, cable glands etc.
2. PANEL FINISH AND COLOUR: The purchaser has standardized that the colour finish of control panel shall be Opeline green as per colour no. 275 of BS: 381C (1948). Equivalent colour as per relevant Indian Standards or any other standard shall be acceptable. This colour finish shall be applied to all the exterior steel work of the panels. The exterior finish shall be semi-glossy only and shall not be fully glossy. The interior of the panels shall be painted with egg shell white.
3. PROTECTIVE RELAYS AND INSTRUMENTS: The protective relays shall be manufactured, tested and supplied with the guaranteed particulars, as per following Indian Standard Specifications with latest amendment thereof :-

i	IS-3842 (Part-I) 1967	Application guide for electric relays for A.C. Systems over-current relays for Feeders and Transformers
ii	IS-3842 (Part-IV) 1967	Application guide for electric relays for A.C. System thermal protection relays
iii	IS-3231 (1965)	Electric Relay for Power System Protection
iv	IS-1885 (Part-I & II)	Electro-technical vocabulary Electrical Relays & Electrical Power System Protection
v	IS-4483 : preferred panel cut-out	
vi	IS-1248 Indicating instruments	
v	All indicating instruments shall conform to IS-722 or BS-89	

The equipment meeting any other authoritative standard which ensures equal or better quality than the standards mentioned above shall also be acceptable. Equipment for which Indian Standards are not available the relevant British Standards and IEC recommendations will be applicable.

STATIC/ MICRO-PROCESSOR BASED OVER CURRENT & EARTH FAULT RELAY:

Static/ Micro Processor based non-directional triple pole IDMT over current and earth fault relays with 2 over current and 1 earth fault elements. However for transformer protection control panel the relay shall have all the three over current elements. Relays shall be suitable for 5 Amp. C.T. secondary current and 30 Volts DC auxiliary supply with 1.3/0.6 seconds operating time at 10 times current setting and instantaneous cut off features with setting 4 to 10 times of rated current with arrangement to by pass the features, when not required. The relay shall conform to following specifications:-

CURRENT SETTING RANGE:

- 50% to 200% in seven equal steps of 25% for over current elements.
- 10% to 40% in seven equal steps of 5% for earth fault element.

However, setting in more than seven steps will be preferred. Further, change of settings under load condition should be possible without interruption of feeder.

Resetting Current: More than 90% of setting value.

Transient over reach less than 3% on maximum and 5% on minimum setting for primary source angle upto 75 degree. Time of operation 30 seconds at times setting.

Over shoot time of maximum 80 secs. at 10 times current.

Pick Up Current: 1.1 times the current rating.

Operating Time: 1.3/0.6 secs. at 10 times current with time multiplier 1.0.

The setting should be in 10 times more, fixed calibrated steps from 0.01 to 1.0 and in between variable separately for over current and earth fault relays.

Resetting Current: More than 90% of setting value.

Resetting Time: Less than 5 m sec.

Burden: Less than 1 VA.

Accuracy: Clause 5

Contacts :- Two sets of NO contacts (for Trip and Annunciation) self rest type suitable for make and break having continuous rating 1250 W/VA and 30 W/VA respectively.

Operational Indicator: Should be provided by way of LED for, ON, O/C 1, O/C 2, E/F, and should fulfill the following requirements:

- Must give permanent visual signal after fault is cleared and relay has been reset.
- Should operate with pulse time of less than 20 m sec..
- Should not give indication until the trip pulse is being executed.

Other: Facility to re-set indicating lamp manually should be provided. During testing / calibration of relays, facility for blocking tripping should be provided. Facility for self monitoring / test should be provided, so that hardware and software are constantly monitored and irregularities are immediately detected and signaled.

In case of non-draw out type relays test socket alongwith test prob should be provided, so that calibrated current and values are checked as also current can be injected through and adaptor.

Since the static relay are being procured by us to replace existing Electro Mechanical relays the relays should be provided with a blanking plate of 18 SWB MS sheet having dimension of 550x250mm and duly painted with gray paint.

4. TYPE TEST CERTIFICATES FOR RELAYS: The following type test certificates of relays as per IS: 3231 or any equivalent International standard are required to be submitted by the bidder from NABL accredited testing laboratory :-

- i. Performance test
- ii. Thermal requirement test
- iii. Accuracy test
- iv. Re-set value test
- v. Re-set time test
- vi. Over shoot time test
- vii. Rated burden & impedance test
- viii. Insulation requirement test
- ix. Mechanical requirement test
- x. Contact performance.

The bidders should submit the following type test certificates in respect of relays offered by them for their control panels:

- i) 5 KV Impulse peak voltage test on the relays. This type test report is essential for over current and earth fault relays.
- ii) Type test report for vibration test to prove the stability of relays under vibration normally encountered and also vibration under abnormal conditions.
- iii) Type test report for overshoot time for IDMT relays.

NOTE: Regarding testing of the relays, reference may please be made to BS - 142 - 19. The tenders not accompanied with the above type test reports shall be rejected.

5 PANEL CUT OUT AND DIMENSIONS

- i) The panels shall be fabricated from 2.5 mm steel sheets free from all surface defects. The panels shall have sufficient structural reinforcement to ensure a plain surface to limit vibration and to provide rigidity during despatch and installation. All control panels and switchgear cubicles shall be made absolutely vermin-proof and subjected to the approval of the owner. Pre-treatment & painting of panels shall be done as per the procedure detailed in clause –22 at Sr. No. 21 of this schedule.
- ii) The panels shall have the following dimensions:-

Height	1475 mm
Width	700 mm
Depth	300 mm

No deviation in height/ depth will be permitted. However, width can be increased depending upon the actual requirement, which shall be subjected to approval from the owner.

- iii) The preferred panel cut out dimensions for mounting of the relays shall be as per Indian Standard Specification IS-4483 (Part – I & II).
- iv) The design, material selection and workmanship shall be such as to present a neat appearance, outside and inside with no works of welds, rivets, screw or bolt heads apparent from the exterior surface of the Control Panels.

6. PANEL LIGHTING

- a) For interior illumination, an filament incandescent lamp/ 2 feet fluorescent tube operating at 230 Volt 50 Hz with ON / OFF switch shall be provided in each panel. The lamp/ tube shall be located at the ceiling and guarded with protective cage. The ON / OFF switch shall be mounted on one of the sidewalls and shall be easily accessible.

- b) One 5 Amp. 3 Pin receptable with plug ON / OFF switch and fuse shall be provided in each control panel.

7. AUXILIARY SUPPLY

- a) For each Control Panel, the owner will provide the following:-

- i) 230 V plus 10% minus 20%, single phase, 2 wire, 50 Hz neutral grounded A.C. supply, frequency variation 4 to 4%.
- ii) 30 V \pm 10% D.C. supply.
- b) H.R.C. fuses shall be provided by the agency for both the A.C. and D.C. power supplies.
- c) All H.R.C. fuses and links shall be with holder. The base of fuse holder shall be mounted on slant support and with identification labels.

CONTROL WIRING

- a) The agency shall provide complete wiring up to the terminal block for the equipment, instrument devices mounted in the control panel strictly according to the wiring diagram prepared by the bidder based on the owner's information and schematic diagram and get approved from the owner.
- b) The wiring shall be completed in all respects so as to ensure proper functioning of the control, protection and metering schemes. Agency shall supply, lay and terminate all the control cables between VCB panel, Control panel (Indoor) and CT.
- c) All spare contacts of relays and switches shall be wired up to the terminal block.
- d) The Control Panels shall be supplied completely wired ready for owner's external connections at the terminal blocks. For CT circuits the wiring shall be carried out with 1100 V Grade PVC insulated stranded copper conductor of size 2.5 sq. mm. For PT circuits and also for control circuits, the wiring shall be carried out with 1100 Volt Grade PVC insulated stranded copper conductor of size 1.5 sq. mm.
- e) Colour coded wires should be used to facilitate easy tracing, as under:-
- i) Three Phase A.C. Circuit:-
Red for R Phase
Yellow for Y Phase
Blue for B Phase
Black for Neutral
- ii) Single Phase A.C. Circuit:-
Red for Phase
Green for Earthing
Black for Neutral
- iii) D.C. Circuit:-
Red for Positive
Black for Negative
- iv) Control Wiring:-
Grey for annunciation and other control circuits.
- f) Each wire shall be identified at both ends with wire designation number by plastic ferrules, as per wiring diagram based on latest revision of IS-375 to denote the different circuit functions. The agency shall take approval for the system of wire numbering.

- g) All wire termination shall be made with solder less compression type connectors. Wires shall not be tapped or spliced between terminal points. All wire shall have crimp type termination and direct connection at any place is not at all required.
- h) All series connected devices and equipment shall be wired-up in sequence. Loop-in/loop-out system of wiring shall be avoided, as far as possible and the common buses shall normally be made through the terminal block for better reliability of testing and maintenance.
- i) Fuses and links shall be provided for isolation of individual circuit from the bus wires without disturbing the other circuits' and equipments.
- j) The DC trip and DC voltage supplies and wiring to main protective gear shall be segregated from these for back up protection and also for protective apparatus for special purposes. Each such group shall be fed through separate fuses, either direct from main supply fuses or the bus wires.
- k) Since a number of wires will run from one point to another, it is desired that the support arrangement should be adequate and neat. The conventional method of bunching of wire should not be adopted, since the same may create problems in case any wire is required to be removed. The wires should be accommodated in plastic channel with sliding plastic cover mounted inside the panel, suitably. Inspection/removal of wires should be possible by sliding the covers.
- l) Blank plastic channels should be provided by the sides of the panel to accommodate the incoming cables from switchyard through the cable glands.
- m) The circuit diagram of control circuit along with operating instructions (DOS/DON'TS) embossed on metallic plate duly laminated shall be provided on rear side of the door.

8. TERMINAL BLOCKS

- a) Multi-way terminal blocks complete with necessary binding screws and washers for wire connections and marking strips for circuit identification shall be provided for terminating the panel wiring and outgoing cables. The terminal block shall be suitable for receiving atleast
2 x 2.5 mm & 2 x 1.5 mm stranded copper conductor wire per terminal.
- b) Terminal blocks shall have shorting and disconnection facilities. The panel-side and outgoing wires should be dis-connectable just by opening the disconnecting links which slide up or down without dislodging the wires from their position. However, dish-connectable type terminal connectors may be limited to CT & PT circuits only.
- c) The terminal blocks shall be grouped according to circuit functions and each terminal block group shall have at least 20% spare terminals.
- c) Instrument transformer wires shall be terminated through suitably mounted test terminal blocks for site testing facility.
- d) The terminal blocks shall be grounded according to circuit functions and each terminal block group shall have at least 20% spare terminal, Adjacent rows of terminal block shall be spaced not less than 100 mm apart. These shall be mounted vertically at the sides of the cubicle and set obliquely towards rear doors to give easy access of terminating end to enable ferrule number to be read without difficulty, The bottom of terminal blocks shall be spaced at least 200 mm the cable gland of incoming multi core cable.

9. CABLE ENTRY

- a) The control panel shall have provision of cable entry from the bottom. One no. Cable gland suitable for 12 core & one 8 core, two 4 core 2.5 sq mm un-armored

cables duly fitted in gland plate and covered with dummy plate shall also be provided by the supplier. The agency will arrange for necessary floor opening, below the panels to suit the requirement. Agency shall also be responsible for laying of control cable in trench, floor opening below the panel, trench cutting and making the damages good as per the satisfaction of Engineer in charge inside the control room.

- b) The wiring through terminal blocks shall be such located so that it is convenient for floor opening.
- c) The control panel shall have provisions inside for fixing the multi-core cable glands, which shall be included by the bidder in scope of supply. For fixing these cable glands, detachable gland plates of 4 mm thickness shall be mounted at least 200 mm above the floor level.
- d) The cable gland plate and rear door shall be properly gasketed.
- e) Rigid supports shall be provided along the terminal block for holding plastic channel. Suitable clamps may also be provided in plastic channel for holding cables.

10. GROUNDING

- a) 25 mm × 6 mm copper round bus shall be provided extending along with the entire length of the panel and effectively grounding all metal structures. The earth bus should be designed for suitable inter connection with adjacent control panel which are to be placed side by side in the control room.
- b) Each continuous length of ground bus shall have provision of two terminals at two separate points for connection to ground.
- c) Potential and Current transformer neutrals shall be grounded only at the terminal blocks where they enter the control panel from the transformer.
- d) Wherever a circuit is shown grounded in the drawings, a single wire for the circuit shall run independently to the ground bus and connected to it.

11. DOORS

Each panel shall be completed with end enclosing sheets on both sides and door in the rear. There shall be one door with handle and also turn twist locks at top and bottom. Proper gasketing shall be provided on the door. A type test report from NABL accredited testing laboratory on degree of protection test (IP-55) shall also be furnished with the tender. The doors should be grounded with flexible braided copper conductor of 10 sq.mm.

12. CONTROL AND RELAY PANELS

- 12.1 The control panels required for installation at all the sub-stations shall be of simplex type. The control and indication apparatus, all meters (*Ammeter, Voltmeter, Power factor meter*) and relays shall be mounted in the front. The instruments and relays shall be flush pattern. **The space for energy meter (to be supplied by the owner) should be provided.**
- 12.2 The labeling for the circuits shall be provided at the front control panel, as well as on the inside wall. All indicating instruments, meters and important components shall have identification labels from inside also, in addition to outside. The terminal block shall also have identification labels to them, clearly indicating phase's identifications and also circuits and instruments identification. For example, the terminal connector shall have an identification indicating that CT circuit for metering, for protection etc. Using 2 mm thick should provide labeling aluminium

strip embossed with desired information and fitted in the panel sheet by means of rivets.

13 PROTECTION SCHEME

The protection schemes to be supplied under this control shall cover the following equipments:

- a) 33/11 KV Power Transformers
- b) 11 KV Overhead sub-transmission lines

The protection schemes are described in the following clauses: -

13.1 Transformer Protection: -

Transformer Control Panel is required for control/ protection on both 33 KV and 11 KV sides of 33/ 11 KV transformers. This will be in the form of a relay set having 2 Nos. O/C and 1 No. E/F elements in 11 KV Control Panel. In 33 KV Control Panel the relay set shall have 3 Nos. O/C elements. The current settings of O/C relay elements shall be from 50 to 200% and of E/F relay element from 10 to 40%. They shall be suitable to work on 30 Volt D.C. supply. The secondary rating of C.T. shall be 5 Amps. The over current and earth fault relays shall have operating time of 1.3 sec. at 10 times of plug setting current. The relays shall be of draw out type with CT shorting facility. Further, the relays shall have self re-set contacts and hand re-set flag arrangement. Besides this provision for alarm and tripping due to Buchholtz relay operation, OTI and WTI may be kept in the panel.

Tripping on OTI, WTI and Buchholtz operation is also needed for both 33 KV and 11 KV transformer breakers panels.

13.2 Feeder Protection: -

- a) Feeder Control Panel is required for control/ protection of 11 KV sub-transmission lines. This will be in the form of a relay having 2 Nos. O/C and 1 No. E/F elements. The current settings of O/C relay element shall be 50 to 200% and of E/F relay element 10 to 40%. They shall be suitable to work on 30 Volt D.C. supply. The secondary rating of C.T. shall be 5 Amps. The over current and earth fault relays shall have operating time of 0.6 sec. at 10 times of plug setting current. In this case also, the relays shall be of draw out type with C.T. shorting facility. Further, the relays shall have self re-set contacts with hand reset flag arrangement.
- b) The feeder control panel shall also have auto re-closing scheme. The re-closing relay time shall be adjustable between 4 to 10 sec. or near about in case of 11 KV Control Panel. Suitable adjustment knob for the same shall be provided on the front of the relay for this purpose.

14 CONTROL AND INDICATING CIRCUITS

The control and relay panels shall have the following instruments, relays and accessories:-

- 1 no. - 3 Pole static type / software based relay, flush pattern, having 3 Nos. O/C element (settings 50 to 200%), suitable for operation on 30 V DC and 5 Amp. CT secondary rating (for 33 KV Transformer Control Panel). The relay shall have operating time of 1.3 seconds at 10 times of plug setting current, as mentioned above.
- 1 no. - 3 Pole static type / software based relay, flush pattern, having 2 Nos. O/C element (settings 50 to 200%) and 1 No. E/F element (settings 10 to 40%), suitable for operation on 30 V DC and 5 Amp. CT secondary rating (for 33

KV Feeder Control Panel, 11 KV Feeder Control Panel and 11 KV Transformer Control Panel). The relay shall have operating time of 1.3/ 0.6 seconds at 10 times of plug setting current, as mentioned in above para.

- 1 Set – provision for alarm and tripping due to Buchholtz relay operation, OTI and WTI may be kept in the 33 KV transformer control panel.
- 1 Set - Auto reclosing relay with adjustable time delay between 4 seconds to 10 seconds.
(for 11 KV Feeder Control Panel only).
- 1 Set - Auto reclosing relay with adjustable time delay between 10 seconds to 60 seconds for 1st shot and 30 to 180 seconds for 2nd shot (for 33 KV Feeder Control Panel only).
- 1 no - Relay for OTI, WTI and Buchholtz operation tripping – both in 33 KV and 11 KV Transformer breaker panel.
- 1 no - Fully static energy meter for incomer and outgoing feeders' energy and system parameters indication and record.
- 1 no. - Auto/ manual selector switch (for panels with auto reclosing relays).
- 1 no. - Circuit Breaker Control switch (Push Button type) having Trip/ Neutral/ Close positions.
- 4 nos. - Lamps for circuit breaker “ON”, “OFF”, “TRIP CKT HEALTHY” and “AUTO TRIP” indications. LED indicating lamp complete with static circuits and features should be supplied with Low voltage protection circuit (LVGP) and surge suppressor circuit having LED indication. Lamp assembly should be of fire – retardant glass epoxy PCB , industrial heat resistant, fire resistant, non hygroscopic DMC material, chrome – plated corrosion resistant solid brass bezel, polycarbonate lens in desired colour shades of Red, Green , Amber, Yellow etc. the intensity of light should be minimum 100 mcd at 20 mA . Indication lamp should be suitable to operate on 30 V direct current supply source. Acceptable make are BINAY Opto Electronic Private Ltd. or equipment.
- 1 no. - Ammeter 96 sq. mm. Square MISC type flush pattern having class 1.0 accuracy. The ammeter shall have dual scale 0-200/100 Amps. or 0-300/150 Amps as per requirement.
- 1 no. - Ammeter selector switch to indicate current in three R, Y and B phases.
- 1 no. - Voltmeter 96 sq.mm. Square MISC type flush pattern having class 1.0 accuracy with selector switch (for Transformer Control Panel. (The range of Voltmeter shall be 0-15 KV for 11 KV Control Panel and 0-40 KV for 33 KV Control Panel).
- 1 no. - Alarm bell for circuit breaker trip alarm.
- 1 no. - Alarm cancellation relay for C.B. trip alarm
- 2 nos.- Push Buttons for alarm “ACCEPT” & “RESET”
- 1 no. - DC Failure Visual indication by way of providing a lamp.
- 2 nos.- Push Button for testing healthy condition of trip circuit. (Separate circuits for Supervision of healthiness of two trip coils are required. Accordingly, the DC circuit complete with fuses etc. shall be separate for the two trip coils).
- 1 no. - Illumination lamp with cage and switch.
- 1 no. - Space heater with associated ON-OFF switch.
- 1 no. - Power type 3 pin 5 Amps plug and socket with ON-OFF switch and fuse.

A trip healthy lamp shall be provided for each circuit breaker and connected in such a way as to indicate the healthy condition of the trip circuit. The lamp should have the indication on demand when breaker is on. Such indication is also necessary when the breaker is off, but it should be possible to check the trip circuit condition before closing the circuit breaker. In brief, pre and post close trip supervision facility on demand is required and shall be included.

The automatic tripping of the circuit breaker due to operation of protective relays shall be indicated by a common audible alarm. The audible alarm shall be cancelled by the flag cancellation of relay, in case of relays of hand-reset type. Space shall be provided for provision of KWH meter, with proper sealing.

NOTE: - Any other indications which are required for proper protection/ operation of circuit breaker should be provided in control panel, without any extra cost.

15 RELAYS

All relays, except where otherwise approved, shall be capable of breaking the maximum current which shall not be affected by vibration or by external magnetic fields. The contacts shall be of silver, platinum or other approved materials and shall be capable of repeated operation, without deterioration.

All relays, which are connected to complete the tripping circuit breaker coil of the auxiliary tripping relay shall be provided with approved flag indication, which whenever possible, shall be mechanically operated type. Indicators shall also be provided on such additional relay elements as it will enable the type and phase of the fault condition to be identified. Each indicator, whether of the electrically or mechanically operated type, shall be capable of being reset by hand, without opening the relay case. Each indicator shall be so designed that it cannot move before the relay has completed its operation.

It shall not be possible to operate any relay by hand without opening case.

All relays shall be so arranged that on opening the case it shall be impossible for any dust, which may have collected in or upon the case to fall on the relay mechanism.

Over current relays shall be of static type / software based and shall have inverse definite minimum time limit characteristics with separately adjustable time and current settings. Unless otherwise approved, the definite minimum time shall be continuously variable from 0.2 seconds and current setting range shall be variable between 50% and 200% in six equal steps of 25% each. The relay rating shall be 5 Amps.

All relays shall be of draw out type and also that O/C and E/F relays shall have characteristics 1.3 second for protection of transformer on both primary as well as on secondary sides and 0.6 second characteristics for protection of 11 KV feeders. In case of 33 KV feeder protection, the characteristics operating time shall be 1.3 seconds. Further, these relays shall have self re-set contacts with hand re-set DC operated flag arrangement.

Type test certificates for relays shall be submitted.

16 INSTRUMENTS

All indicating instruments shall conform to IS – 1248 and shall be of types and sizes specified under Sr. No. 15 above. They shall be capable of carrying their full load currents continuously without heating. They shall have long clearly divided and indelibly marked scales of engraved or enameled metal and the pointers shall be of clean outline. The pointers and scales shall be subject to approval. The marking on the dials shall be restricted to the scale marking. All indicating instruments, shall be provided with non-reflecting glass type fronts. All indicating instruments shall be of class 1.0 accuracy.

Type test certificate for Ammeter and Voltmeter shall be submitted.

The following may be carefully noted :-

- i) The components of alarm scheme shall be strictly in accordance with tender specification and shall be explained very clearly. The alarm scheme is required with Transformer Control Panel only.
- ii) The scheme incorporated should ensure that flag resetting of relay is “self-hand operated” type. Thus it should not be necessary to reset the flag at the time alarm/annunciation is accepted in case of fault. It should be possible to separately reset the flag, after the fault is attended.

The automatic tripping of the circuit breakers due to operation of protective relays shall be indicated by audible alarm. The offered alarm scheme shall be complete in all respects including one DC bell for trip alarm with a connector/ auxiliary relay suitable to handle breaking of DC bell current. The contactor/ auxiliary relay will get energized through the self-reset alarm contact of protective relay and will remain actuated by its own seal-in contact. A push button shall be provided to accept the alarm by breaking the seal-in circuit.

17 TESTS

- o Each control panel shall be completely assembled, wired, adjusted and tested at the factory prior to despatch.
- o The tests shall include wiring continuity tests, insulation tests and functional tests to ensure operation of the control scheme and individual equipment.
- o The test procedures shall have prior approval of the owner.
- o All instruments, meters and relays shall be tested and calibrated in accordance with relevant standards.
- o All auxiliary instrument transformers shall be tested in accordance with procedure as laid down in relevant standards.

18 TEST WITNESSING

The tests shall be performed in presence of owner’s representative. The agency shall give atleast fifteen (15) days advance notice of the date when the tests are to be carried out.

19 TEST CERTIFICATE

Copies of test certificates for all routine and acceptance tests shall be furnished to the owner for approval before despatch of the equipment from the works. Test

certificates for important components used shall also be furnished along with drawings.

20 PRE-TREATMENT AND PAINTING PROCESS

The control panel sheet steel shall be subjected to pre-treatment process before painting. The process shall be carried out as under.

The procedure can broadly be divided as “Metal Treatment” and “Painting”.

A. METAL TREATMENT

i) DEGREASING

This can be achieved either by immersing in hot alkaline degreasing bath or in hot dry chlorothelene solution. In case, degreasing is done by alkaline bath, rinse with cold water thoroughly.

ii) PICKLING

This is to remove rust and metal scales by immersing in diluted sulphuric acid (approximately 20%) at nearly 80°C until scale and rust are totally removed.

iii) Rinse in cold water in two tanks to remove traces of acids.

iv) Treat with phosphoric acid base neutralizer, for removal of chlorine from the above acid pickling and again wash with running water.

v) PHOSPHATING

Immerse in grenadine Zinc phosphate solution for about 20 minutes at 80 to 90°C. The uniform phosphate coating of 4 to 5 gms. per sq. meter shall be achieved.

vi) Swill in cold water.

vii) Rinse in decxy to bath at 70 to 80°C to neutralize any traces of salts.

viii) Seal the above phosphate coating with hot dilute chromate solution.

ix) Dry with compressed air

B. PAINTING

i) Spray one coat wet on wet specially developed, “High Lusture” Zinc chromate primer and stove at 150 to 160°C for 25 to 30 minutes. Alternatively, Red-oxide primer with chromate content may be used. However, former process is preferred.

ii) Rubbing and putting :-

Apply putty to fill up the scar, if any, to present smooth surface and stove 15 to 20 minutes. Apply putty several times to get perfectly smooth finish.

iii) Surfacing :-

Sand down with mechanical abrasive and stove for 20 minutes.

iv) Primer :-

Spray second coat of primer as per(i) above or grey primer surface wet on wet and stove for 30 to 40 minutes at 150°C.

v) Finish Paint :-

Rub down dry and spray first coat of synthetic enamel finish paint wet on wet and stove for 30 minutes.

vi) Surfacing :-

Sand down or rub dry to prepare for final finish. Spray 2 coats of synthetic enamel finish paint wet on wet and stove it at 150°C for 30 minutes.

NOTE :-

- i) Necessary stiffness may be welded between large cut outs to provide rigidity before painting process.
- ii) Painting process shall be done within 24 Hrs. of completion of metal treatment.
- iii) Small coating shall be supplied along with equipment for touching up at site.

-Sd-
Chief Engineer (Corp. Office - Pur)
O/o. CMD (WZ) MPPKVCL,
Indore

SECTION - IV**PRICE VARIATION FORMULA FOR SWITCHGEAR AND CONTROLGEAR**

The price quoted/confirmed is based on the 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/ components 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 number, the price payable shall be subject to adjustment up or down in accordance with the following formula :-

$$P = \frac{P_o}{100} \left\{ 25 + 17 \frac{IS}{IS_o} + 18 \frac{C}{C_o} + 10 \frac{Al}{Al_o} + 13 \frac{In}{In_o} + 17 \frac{W}{W_o} \right\}$$

Wherein,

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

P_o = Price quoted/ confirmed

IS_o = Wholesale price index of 'Iron and Steel' (Base: 1993- 94=100) (refer note)

This index is as applicable on the first week ending Saturday of the month, three months prior to the date of tendering.

C_o = Price of electrolytic copper wire bars (refer notes).

This price is as applicable on the first working day of the month, one month prior to the date of tendering.

Al_o = Price of busbar grade aluminium (refer notes).

This price is as applicable on the first working day of the month, one month prior to the date of tendering.

In_o = Price of phenolic moulding powder for switchgear and control gear of medium/ lower voltage (upto 650 volts) or price of epoxy resin for HT switchgear (above 650 volts) (refer notes).

This price is as applicable on the first 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 2001=100).

This index is as applicable for the month, four months prior to the date of tendering.

For example, if the date of tendering falls in May 2007, the applicable prices of electrolytic copper wire bars (C), busbar grade aluminium (Al) and insulating material (In) should be for the month of April 2007 and wholesale price index of "Iron and Steel" (IS) should be

for the first week ending Saturday of February 2007 and all India average consumer price index number (W) should be for the month of January 2007.

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

IS = Wholesale price index of 'Iron and Steel' (base 1993- 94=100) (refer notes).

This index is as applicable on the first week ending Saturday of the month, four months prior to the date of delivery.

C = Price of electrolytic copper wire bars (refer notes)

This price is as applicable on the first working day of the month, two months prior to the date of delivery.

Al = Price of busbar grade aluminium (refer notes).

This price is as applicable on the first working day of the month, two months prior to the date of delivery.

In = Price of phenolic moulding powder for switchgear and of medium/lower voltage (upto 650 volts) or price of epoxy resin for HT switchgear (above 650 volts) (refer notes).

This price is as applicable on the first working day of the month, two months 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 2001=100).

This index is as applicable for the month, five months prior to the date of delivery.

For example, if the date of delivery in terms of clause given below falls in December 2007 the applicable price of raw materials viz: C, Al and In should be for the month of October 2007 wholesale price index of 'Iron & Steel' (IS) should be for the first week ending Saturday of August 2007 and all India average consumer price index number (W) should be for the month of July 2007.

The "date of delivery" is the date on which the switchgear equipment is notified as being ready for inspection/dispatch (In the absence of such notification the date of manufacturer's dispatch 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.

(b) All prices are as on first working day of the month.

(c) The details of prices are as under :-

- 1) 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 is being published weekly on provisional

basis. However, the same gets finalised after eight weeks and is normally available after two months. Therefore, we are considering in our calculations this final index published by Economic Advisor for the first Saturday of the months, two months prior to the date of which the prices of other raw materials such as C, Al and In are published for the corresponding month.

- 2) **The price for electrolytic copper wire bars (in Rs/MT) is ex-godown price as quoted by the primary producer of copper.**
- 3) The price of bus bar grade aluminium (in Rs/MT) is the average of ex-works price as quoted by the two primary producers for the bus bar size 152.4 x 6.35 mm flat approximately of grade equivalent to E91E as per IS:5082-1981(or the latest).
- 4) The price of insulating material (in Rs/Kg).is the average price of phenolic molding powder quoted by three manufacturers(for switchgear and controlgear of medium/ lower voltage upto 650 volts) or is the price of epoxy quoted by a resin manufacturer for their grade CT 5900 or its nearest equivalent (for HT switchgear above 650 volts).

Sd/-
Chief Engineer (Corp. Office - Pur)
O/o. CMD (WZ), MPPKVVCL,
Indore

Schedule I: Price and Quantity
(TO BE KEPT IN ENVELOPE PART-III PRICE BID)

Sr. No.	Particulars	Tender Quantity (in Nos.)	Qty Offered (in Nos.)	Ex-works price (Rs./Nos.)	Freight & Insurance charges for delivery in any Area Stores of WZ (Rs./Nos.)	Total FOR price exclusive of taxes & duties (Rs./ Nos.) (5+6)	ED on Ex-works price (indicate in % only)	Central Sales tax / VAT on Ex-works price plus ED (indicate in % only)	Any other levies / tax/ indicate and specify in % only)	Entry Tax on total price (indicate in % only)	Total FOR destination price inclusive of all taxes and duties i.e. Total of (5+6+8+9+10+11) (Rs/ Nos.)
1	2	3	4	5	6	7	8	9	10	11	12
1	33 KV Indoor Control & Relay Panel for Transformer protection with static / software based IDMT relay as per technical specification attached.	28									
2	33 KV Indoor Control & Relay Panel for Feeder protection with static / software based IDMT relay as per technical specification attached.	6									
3	11 KV Indoor Control & Relay Panel for Transformer protection with static / software based IDMT relay as per technical specification attached.	6									
4	11 KV Indoor Control & Relay Panel for Feeder protection with static / software based IDMT relay as per technical specification attached.	105									
Discount if any											
Conditions to avail above discount if any											

TS NO. CMD/WZ/06/PUR/459 DUE ON 04.08.2010
SUPPLY OF CURRENT TRANSFORMER / POTENTIAL TRANSFORMER

NOTE

1. Discount, if any, must be clearly mentioned above. However, it may be noted that for evaluation purpose, only unconditional discount shall be taken into consideration. Conditional discount of any type, will not be taken into account for evaluation purpose. However, in the event of such an offer, without considering discount, is found to be lowest, the purchaser may avail such discount at the time of award.
2. Rates in various tapering steps shall not be considered.
3. The offers, with the rates given in any form/Proforma, other than that mentioned above, shall be summarily rejected and shall not be considered, in any case.
4. Payment of any type of Govt. statutory levies/ taxes will be responsibility of the bidder.
5. **The quoted price should be “VARIABLE”.**
6. Cost of entry tax must be included in the quoted prices even if responsibility for payment of entry tax rests with purchaser.
7. If any taxes are not quoted as per the currently applicable rates without giving details or proof of applicability of the taxes at any concessional/ higher rates, the purchaser reserves the rights to load the quoted prices as per the applicable rate of taxes prevalent at the time of bid evaluation for price comparison purposes. However, responsibility in this regard shall solely rest with bidder.
8. Tender is due on dated 04.08.2010, therefore prices of IEEMA Circular dated 01.07.2010. (please enclosed IEEMA Price Circular, along with the offer).
9. In case of any ambiguity or conflict between the Techno-commercial Offer and the Price Bid (i.e. this schedule) the Price Bid shall prevail.

Signature of Bidder with Seal of Firm :

Place-

Name (in full) :

Date-

Designation :

SCHEDULE – II (A)
GTP OF INDOOR CONTROL PANELS FOR 11 KV VCBs

Sr. No	Particulars	Requirement	To be categorically specified by the tenderer
1	Name of Manufacturer & Place of Manufacture	To be indicated	
2	Manufacturer's type and Description		
3	Panel Dimension	(H 1475 × W 700 × D 300) mm, Simplex floor mounting type	
4	Thickness of sheet steel used	Minimum 2.5 mm	
5	Arrangement of Rear Door	Rubber gasket should be provided all along the sides of rear door and cable gland plate. Provision of twist lock at top & bottom and handle in the centre.	
6	Interior illumination	Incandescent lamp with protective cage or 2 feet fluorescent tube ,operating at 230 Volts, 50 Hz, with cover and ON/OFF switch.	
7	Provision of Gland Plate	Detachable type 4 mm thick MS sheet mounted at 200 mm above floor level and fitted with cable gland gasket with appropriate quality (i) One 12 core 2.5 mm (ii) One 8 core 2.5 mm (iii) Two 4core2.5mm.	
8	Type, Make and Rating of Terminal Connectors for CT/PT (Disconnectable type)	Make- To be indicated Type-VTFA-45/CATDMA Rating- 30 Amp	
9	Type, Make and Rating of Terminal Connectors for Controls (2 × 6 sq mm)	Make- To be indicated Type- Stud Rating-15 Amp	
10	Provision of Spare Terminal Connectors	(20% extra)	
11	Size of Conductor used for wiring of CT/PT Terminals and Control Circuits	(i) 2.5 sq mm multi-stranded Cu wire 1100 grade Volts PVC insulated for CT wiring. (ii) 1.5 sq mm multi-stranded Cu wire 1100 grade PVC insulated for PT & control circuit wiring.	
12	Wiring colour codes for R, Y, B phase neutral (AC) & for Earth and Positive (DC)	(i) Three phase AC circuit- Red, Yellow, Blue for phase & Black for neutral.	

Sr. No	Particulars	Requirement	To be categorically specified by the tenderer
		(ii) Single phase AC circuit- Red, for phase, Black for neutral and green for earthing (iii) DC circuit- Red for + ive & Black for – ive (iv) Control wiring-Grey (v) Earthing- Green	
13	Instrument Identification (Labels to be provided)	All indicating instruments, meters & important components shall have identification both	
14	CT, PT, AC, DC - Circuit Identification	Levels to provided the terminal block shall have identification level attached to them clearly indicating type of supply (AC/DC) identification circuit controls (metering and production and instrument identification)	
15	Final Outside Finish	Exterior with semi glossy opeline green as per color no. 275 of BS: 38IC (1948).	
16	Inside Finish	Interior with Egg shell white.	
17	Make, Type & Rating of Ammeter (96 sq.mm, Flush Mounting, Moving Iron, Dual Range)	<u>Make-</u> To be indicated, <u>C.T. Operated-</u> 5A <u>Accuracy class-</u> 1 <u>Type-</u> Analogue, <u>Range-</u> 0-100-200 Amp for feeder-panel 0-150-300 Amp for X'mer panel.	
18	Make, Type & Rating of Voltmeter (96 sq.mm, Flush Mounting, Moving Iron, Range) for X'mer panel : PT Ratio 11 KV/ 110 Volt	<u>Make-</u> To be indicated, <u>Accuracy class-</u> 1 <u>Type-</u> Analogue, <u>Range-</u> 0-15 KV	
19	Make, Type & Rating of Ammeter/ Voltmeter Selector Switch	Make- To be indicated Type- CAM Ammeter selector switch 4 position- R-Y-B-OFF Voltmeter selector switch 4 position-RY-BY-BR-OFF Rating- 10 Amp/ 440 Volt / 50 Hz.	

Sr. No	Particulars	Requirement	To be categorically specified by the tenderer
20	Make, Type & Rating of Breaker Control Switch(Pistol grip handle returned to neutral)	To be indicated -----As above----- Position- Trip-Neutral-CLOSE	
21	Make, Type & Rating of 3 Pole (2-Nos. O/c & 1 No. E/f) for feeder control Inverse Definite Minimum Time Relay a) (Flush mounting) Static/ Software based Configuration (horizontal Total No. of NO/NC contact (hand and self reset)	Make- To be indicated Model no.- DMT- 0.6 Sec Rating- 5 Amps 30 Volt DC Setting- O/c-50-200% E/f- 10- 40%	
22	Make, Type & Rating of 3 Pole (2-Nos. O/c & No. E/f) for X'mer control Inverse Definite Minimum Time Relay a) (Flush mounting) Static/ Software based Configuration (horizontal b) Total No. of NO/NC contact (hand and self reset)	Make- To be indicated Model no.- DMT- 1.3 Sec Rating- 5 Amps 30 Volt DC Setting- O/c-50-200% E/f- 10- 40%	
23	Make, Type & Rating/ Size of Indicating Lamps	Make- To be indicated Rating-30 V DC	
24	Make, Type & Rating Local/ Remote Selector Switch(Single pole 2 way rotary switch)	Make- To be indicated Type- CAM Rating-10 Amp	
25	Make, Type & Rating of Auto/ Manual Selector Switch	-----As above-----	
26	Make, Type & Rating of Push Buttons	Make- To be indicated Type- Rating- 15 Amp Qty- Feeder/X'mer	
27	Details of Fuses used	HRC fuse with base & carrier	
28	Material & Size of Earthing Bus	Entire length of panel should be provided with 25 x6mm Cu Bus	
29	Make, Type & Rating of Alarm Relay	Make- To be indicated Type- Base mounting Rating- 30 V DC	
30	Make, Type & Details of Bell 1 No. DC 1 No. AC	Make- To be indicated Rating-30 v DC /230 V AC Type- Electronic bell	

Sr. No	Particulars	Requirement	To be categorically specified by the tenderer
31	Provision of Alarm Cancellation Relay	Make- To be indicated Type- 230 V AC Rating- 80 W	
32	Provision of Space Heater with Switch (indicate Make, Type, Rating)	Make- To be indicated Type- 230 V AC, Rating- 80 W	
33	Type of Termination	Crimp Tag Termination	
34	Provision of Channel with Cover for wiring	The wire should be accommodated in plastic channel with sliding plastic cover mounted inside the panel.	
35	Provision of Spare Channel with Cover	Blank plastic channel should be provided by the side of the panel	
35	Make, Type and Details of Auto Reclosing Relay for Feeder Control Panels : a) Single Attempt with Adjustable Time 4 to 10 Sec b) Double Attempt with Adjustable Time 10-60 Sec	Make- To be indicated Type-	
36	Ferruling of wires at both ends	Each wire shall be identified at both ends with wire designation No. by plastic ferrules as per wiring diagram. The supplier take approval for the system of wire numbering.	
37	Provision of 230 Volt AC Plug Socket (3 Pin) with switch & fuse	ANCHOR/L&T/Havel /MDS	
38	Distance of Gland Plate from Base of the Panel	200 mm	
39	Provision of Gaskets and their Details	25x0.5 mm Flat rubber gasket	
40	Provision of Lifting Eye-Bolts & their details		
41	Provision of Circuit Diagram on Rear Door of Panel (Embossed on Metallic Plate duly laminated).		
42	Provision of Engraved Name Plate on front of the Panel.		
43	Provision of annunciation Ckt. With indicating lamps for		

Sr. No	Particulars	Requirement	To be categorically specified by the tenderer
	OTI, WTI and Bucholz Operation in the X'mer controll panel		
44	Provision of copper earthing bus (6 mm x 25mm x 250mm)		

Signature of Bidder with Seal of Firm :

Place-

Name (in full) :

Date-

Designation :

SCHEDULE – II (B)
GTP FOR INDOOR CONTROL PANELS FOR 33 KV VCBs

Sr. No	Particulars	Requirement	To be categorically specified by the tenderer
1	Name of Manufacturer & Place of Manufacture	To be indicated	
2	Manufacturer's type and Description		
3	Panel Dimension	(H 1475 × W 700 × D 300) mm, Simplex floor mounting type	
4	Thickness of sheet steel used	Minimum 2.5 mm	
5	Arrangement of Rear Door	Rubber gasket should be provided all along the sides of rear door and cable gland plate. Provision of twist lock at top & bottom and handle in the centre.	
6	Interior illumination	Incandescent lamp with protective cage or 2 feet fluorescent tube ,operating at 230 Volts, 50 Hz, with cover and ON/OFF switch.	
7	Provision of Gland Plate	Detachable type 4 mm thick MS sheet mounted at 200 mm above floor level and fitted with cable gland gasket with appropriate quality (i) One 12 core 2.5 mm (ii) One 8 core 2.5 mm (iii) Two 4core2.5mm.	
8	Type, Make and Rating of Terminal Connectors for CT/PT (Disconnectable type)	Make- To be indicated Type-VTFA-45/CATDMA Rating- 30 Amp	
9	Type, Make and Rating of Terminal Connectors for Controls (2 × 6 sq mm)	Make- To be indicated Type- Stud Rating-15 Amp	
10	Provision of Spare Terminal Connectors	(20% extra)	
11	Size of Conductor used for wiring of CT/PT Terminals and Control Circuits	(i) 2.5 sq mm multi-stranded Cu wire 1100 grade Volts PVC insulated for CT wiring. (ii) 1.5 sq mm multi-stranded Cu wire 1100 grade PVC insulated for PT & control circuit wiring.	
12	Wiring colour codes for R, Y, B phase neutral (AC) & for Earth and Positive (DC)	(vi) Three phase AC circuit- Red, Yellow, Blue for phase & Black for neutral.	

Sr. No	Particulars	Requirement	To be categorically specified by the tenderer
		(vii) Single phase AC circuit- Red, for phase, Black for neutral and green for earthing (viii) DC circuit- Red for + ive & Black for – ive (ix) Control wiring-Grey (x) Earthing- Green	
13	Instrument Identification (Labels to be provided)	All indicating instruments, meters & important components shall have identification both	
14	CT, PT, AC, DC - Circuit Identification	Levels to provided the terminal block shall have identification level attached to them clearly indicating type of supply (AC/DC) identification circuit controls (metering and production and instrument identification)	
15	Final Outside Finish	Exterior with semi glossy opeline green as per color no. 275 of BS: 38IC (1948).	
16	Inside Finish	Interior with Egg shell white.	
17	Make, Type & Rating of Ammeter (96 sq.mm, Flush Mounting, Moving Iron, Dual Range)	<u>Make-</u> To be indicated, <u>C.T. Operated-</u> 5A <u>Accuracy class-</u> 1 <u>Type-</u> Analogue, <u>Range-</u> 0-50-100 Amp	
18	Make, Type & Rating of Voltmeter (96 sq.mm, Flush Mounting, Moving Iron, Range) for X' mer panel : PT Ratio 11 KV/ 110 Volt	<u>Make-</u> To be indicated, <u>Accuracy class-</u> 1 <u>Type-</u> Analogue, <u>Range-</u> 0-15 KV	
19	Make, Type & Rating of Ammeter/ Voltmeter Selector Switch	Make- To be indicated Type- CAM Ammeter selector switch 4 position- R-Y-B-OFF Voltmeter selector switch 4 position-RY-BY-BR-OFF Rating- 10 Amp/ 440 Volt / 50 Hz.	
20	Make, Type & Rating of Breaker Control Switch(Pistol grip handle returned to neutral)	To be indicated -----As above----- Position- Trip-Neutral-CLOSE	

Sr. No	Particulars	Requirement	To be categorically specified by the tenderer
21	Make, Type & Rating of 3 Pole (2-Nos. O/c & 1 No. E/f) for transformer control Inverse Definite Minimum Time Relay a) (Flush mounting) Static/ Software based Configuration (horizontal) Total No. of NO/NC contact (hand and self reset)	Make- To be indicated Model no.- DMT- to be indicated Rating- 5 Amps 30 Volt DC Setting- O/c-50-100% E/f- 10- 40%	
22	Auxiliary relay for transformer panel Make, Type & Rating Configuration (horizontal) a) Total No. of NO/NC contact (hand and self reset) Auxiliary voltage (30 volt DC)	Make- To be indicated Model no.- DMT- 1.3 Sec Rating- 5 Amps 30 Volt DC Setting- O/c-50-200% E/f- 10- 40%	
23	Make, Type & Rating/ Size of Indicating Lamps	Make- To be indicated Rating-30 V DC	
24	Make, Type & Rating Local/ Remote Selector Switch(Single pole 2 way rotary switch)	Make- To be indicated Type- CAM Rating-10 Amp	
25	Make, Type & Rating of Auto/ Manual Selector Switch	-----As above-----	
26	Make, Type & Rating of Push Buttons	Make- To be indicated Type- Rating- 15 Amp Qty- Feeder/X'mer	
27	Details of Fuses used	HRC fuse with base & carrier	
28	Material & Size of Earthing Bus	Entire length of panel should be provided with 25 x6mm Cu Bus	
29	Make, Type & Rating of Alarm Relay	Make- To be indicated Type- Base mounting Rating- 30 V DC	
30	Make, Type & Details of Bell 1 No. DC 1 No. AC	Make- To be indicated Rating-30 v DC /230 V AC Type- Electronic bell	
31	Provision of Alarm Cancellation Relay	Make- To be indicated Type- 230 V AC Rating- 80 W	
32	Provision of Space Heater with Switch (indicate Make, Type, Rating)	Make- To be indicated Type- 230 V AC Rating- 80 W	
33	Type of Termination	Crimp Tag Termination	

Sr. No	Particulars	Requirement	To be categorically specified by the tenderer
34	Provision of Channel with Cover for wiring	The wire should be accommodated in plastic channel with sliding plastic cover mounted inside the panel.	
35	Provision of Spare Channel with Cover	Blank plastic channel should be provided by the side of the panel	
36	Ferruling of wires at both ends	Each wire shall be identified at both ends with wire designation No. by plastic ferrules as per wiring diagram. The supplier take approval for the system of wire numbering.	
37	Provision of 230 Volt AC Plug Socket (3 Pin) with switch & fuse	ANCHOR/L&T/Havel /MDS	
38	Distance of Gland Plate from Base of the Panel	200 mm	
39	Provision of Gaskets and their Details	25x0.5 mm Flat rubber gasket	
40	Provision of Lifting Eye-Bolts & their details		
41	Provision of Circuit Diagram on Rear Door of Panel (Embossed on Metallic Plate duly laminated).		
42	Provision of Engraved Name Plate on front of the Panel.		
43	Provision of annunciation Ckt. With indicating lamps for OTI, WTI and Buccholz Operation in the X'mer controll panel		
44	Provision of copper earthing bus 6 mm x 25mm x 250mm)		

Signature of Bidder with Seal of Firm :

Place-

Name (in full) :

Date-

Designation :

SCHEDULE – II (C)

DECLARATION BY THE TENDERER

(To be submitted on non-judicial stamp paper worth Rs.100/-)

I Sole proprietor / partner of M/s
..... undertake that I am not interested as a
proprietor and/or partner in any other firm, who has participated in the WZ
Discom tender No. ----- due for opening on -----
--- for procurement of -----.

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

OFFICE OF THE CMD (WEST ZONE)
M.P. Paschim Kshetra Vidyut Vitaran Co. Ltd.
G.P.H. Compound, Pologround, Indore.



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Section V: General Instructions to Bidders

The Chief Engineer (Corporate Office-Pur), O/o CMD (West Zone), M.P.P,K.V.V.C.L., Indore on behalf of “**The Madhya Pradesh Paschim Kshetra Vidyut Vitaran Co. Ltd., Indore**” here-in-after referred to as “**Company**”, will receive sealed tenders/ bids for **supply of materials/ equipments** as per the specifications, at various places of M P Paschim Kshetra Vidyut Vitran Co Ltd, Indore.

1. **GENERAL :-**

- (i) The bidders are requested to ensure that they furnish the offer in duplicate and each page of the tender should be signed and duly stamped by the bidder. Any over corrections / overwriting should be signed by the bidder. An offer with corrections / overwriting without signature of the bidder is likely to be rejected.
- (ii) The Bidders are requested to ensure that all required schedules duly filled-in, are submitted with the offer. The bidders should also note that in absence of any of the schedules, their offer is likely to be rejected.
- (iii) Transfer of the documents purchased by one bidder to any other bidder is not permissible.
- (iv) The submission of a tender by the bidder implies that he has read and accepted the instructions, conditions of the contract and made himself aware of the scope and specifications of the work to be done/ supplies to be made. The company will not, after acceptance of contract rate, pay extra charges for any reason whatsoever, in case the bidder is found later to have misjudged any condition(s).
- (v) It is necessary to purchase the tender documents from the office of Tender issuing authority. Tender documents downloaded from web-site will not be accepted, as the same are for information / guidance only.

2. **EARNEST MONEY:-**

- (i) Unless EMD amount has been specified in the Notice Inviting Tender (NIT), the Bidder shall deposit the Earnest Money amount vis-à-vis the value of the material offered as shown hereunder. However, in case EMD amount has been specified in NIT, same shall be applicable:-

	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 Lakh and upto Rs. 3.0 Lakhs	Rs. 2,500/-
d)	Above Rs. 3.0 Lakh and upto Rs. 7.0 Lakhs	Rs. 5,000/-
e)	Above Rs. 7.0 Lakh 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 bidders 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 deemed to be limited to that quantity only. Amount of EMD and method of deposit must be mentioned on the Main Envelope of the bid.

- (iii) **No offer will be accepted without Earnest Money Deposit, unless exempted by the Company.** If on opening of tender any discrepancy in EMD amount is noticed, the tender shall be rejected and returned to the bidder. The Earnest Money can be deposited by Bank Draft drawn in favour of Senior Accounts Officer, MPPKVVCL, Indore.
- (iv) **The following are exempted from payment of Earnest Money Deposit:-**
- a) SSI Units of State of Madhya Pradesh permanently registered with DIC/Ancillary Units of MPPKVVCL. **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.**
 - b) 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 MPPKVVCL 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 photo copy of the NSIC/ SSI Registration Certificate for the tendered items duly attested by GM/Manager of DIC of the area, or an officer of MPPKVVCL not below the rank of EE, or any Gazetted officer not below the rank of Dy. Collector, 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 organization. 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) No interest shall be paid on EMD amounts
- (viii) **Return of earnest money to bidders.**
- a) EMD shall be returned to the unsuccessful bidders, as soon as possible, after the tender is decided.
 - b) EMD of bidders on whom the orders have been placed, shall be returned on acceptance of security deposit.

3. **TAXES AND DUTIES**

Bidders are requested to refer **Section V - General Terms and Conditions of Purchase**, regarding applicable taxes and statutory levies, and quote the prices accordingly.

4. **DISCOUNT**

Discount, if any, must be clearly mentioned in the **Schedule I – Price Bid**. However, it may be noted that for evaluation purpose, only unconditional discount shall be taken into consideration. Conditional discount of any type, will not be taken into account for evaluation purpose. However, in the event of such an offer, without considering discount, is found to be lowest, the purchaser may avail such discount at the time of award.

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 (WZ) MPPKVVCL G.P.H. Compound Pologround, Indore on any working day, between 10:30 hours to 15:00 hours only. **Nobody is authorized to receive or issue receipt for tender delivered by hand.**

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

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

8. **DELAYED/LATE BIDS**

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 Company. **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**

If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and total price shall be corrected. In case of ambiguity between rates in figures and words, the amount quoted in words would generally prevail. However, company may, in its sole discretion, take any other interpretation which appears reasonable considering facts and circumstances of the case in totality, or reject such offers.

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.
13. **ALTERATION/ CORRECTION IN BIDS**
No alteration/correction in the tender document will be permitted.
14. **INCOMPLETE BIDS**
Tender who 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. The Company in this regard shall not entertain any correspondence.
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. Bidders will not be permitted to change the substance of his tender on post interpretation/improper understanding grounds. This includes post tender price changes/modifications etc. after opening of Price Bid. In such events, otherwise, i.e., when a bidder does not comply, tender will be rejected.
18. **LANGUAGE OF BIDS**
All tenders should be made either in English or in Hindi only.
19. **VAT CLEARANCE CERTIFICATE**
The bidder shall furnish VAT 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 clearance certificate or the reasons for the bidder's inability to furnish such a certificate are not furnished.
20. **INFORMATION & QUESTIONNAIRE SUBMISSION**
Questionnaires for various information to be furnished by bidders are enclosed with the "Tender" as Schedule III Part A, B and C (for general, commercial & technical details). It is compulsory on the part of the bidder to furnish all details as per the Schedules. In case, the same are not filled up and enclosed with the tender, the bid is likely to be rejected.

In addition, a check list is attached (Schedule VI) with the tender document. Bidders are requested to fill it carefully to ensure that there are no shortcomings in the documents being submitted. Duly filled-up checklist may please be submitted with the Part II - Technical & Commercial bid.

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 outright.

Should the bidder desire to depart from other conditions and/or technical specifications in any respect, he shall draw attention to such deviations as per Schedule V part “A” and “B” stating fully the reasons thereof. Unless this is done, these conditions and specifications will hold good, as acceptable to the bidder.

It may clearly understood that, even if deviations have been mentioned anywhere in the offer, the same shall not be taken in to cognizance unless the same are specifically mentioned in the deviation schedule(s). Deviation Schedules must be duly stamped & signed (even when all terms and condition acceptable).

22. PAST EXPERIENCE

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

23. PROCEDURE FOR SUBMISSION OF BIDS:-

- (i) The bid shall be submitted in three (3) parts:-

Part-I shall contain “**EARNEST MONEY DEPOSIT or DOCUMENTS WHICH ENTITLE FOR EXEMPTION FROM EMD**”.

Part-II shall contain “**COMMERCIAL BID AND THE TECHNICAL BID**”

The details about Part I and Part II are discussed in Sections II to VII and Schedules II to VII of the tender documents. Relevant information that the bidders are liable to submit, comprises duly filled-in Questionnaire, all schedules and any other the information that is sought in the tender.

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

- (ii) Tender being submitted must be signed by a person holding a Power of Attorney authorizing him to do so, certified copies of which shall be enclosed.
- (iii) Tender submitted on behalf of companies registered with the Indian Companies Act, for the time being in force, shall be signed by persons duly authorized to submit the Tender on behalf of the Company and shall be accompanied by certified true copies of the resolutions, extracts of Articles of Association, special or general Power of Attorney etc. to 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”** Each envelope shall also be super scribed with name of the item and TS number for which the tender is submitted, the name of the said bidder and the date of opening, as advertised. The tender i.e. the three parts shall be submitted each in 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 addition to tender specification No., name of item and bidder. 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. CMD/WZ/06/PUR/

Due For Opening On-

For Procurement Of- Supply of

This Envelope Contains 3 Separate Envelopes For

Part I “Earnest Money Deposit”

Part II “Commercial And Technical Bid”

Part III “Price Bid”

TO,

**The Chief Engineer (Corporate Office-Pur)
O/O CMD (West Zone), M.P.P.K.V.V. Co. Ltd,
Industrial Area, GPH Compound,
Polo Ground, Indore (M.P.) 452 003**

**It Is Certified That We Unconditionally Agreed The Following Clauses
Of Tender Specification:-**

- | | |
|-----------------------------------|------------------|
| (i) PAYMENT TERMS | : AGREED. |
| (ii) SECURITY DEPOSIT | : AGREED. |
| (iii) PENALTY | : AGREED. |
| (iv) PERFORMANCE GUARANTEE | : AGREED. |

EMD has been deposited in the form of -

**Signature Of Bidder
Status And Company’s Seal**

- (vi) **In absence of such certification on the main envelope itself, the same shall not be opened and the offer shall be rejected.**
- (vii) Even after certification on the 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. VALIDITY OF BIDS

- (i) The offers shall be **valid for 180 days**. Validity of the offer shall be counted from the date of opening of bids.
- (ii) 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.
- (iii) However if due to circumstances, beyond control, bidders are advised to extend the validity, but they shall not be permitted to revise their rate, offer any rebate or concession while extending the validity which may materially result in any reduction or increase in the computed price of their original offer.

25. DATE AND TIME OF OPENING OF BIDS – CHANGES

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

26. AUTHORISATION/ LOCAL REPRESENTATIVE

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

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 bidders or their authorized representatives or other interested parties are advised strongly, in their own interest, to refrain from contacting by any means any of the Company's personal or Representative, on matters relating to tender under process.

The company desires to deal directly with the manufacturer/bidder, to avoid delay in decision making. It will be in the interest of bidder to avoid liaison agent / commission agent.

28. INTERESTED CONCERNS

No two or more concerns in which an individual is interested as a proprietor and/ or partner shall tender for execution of same work/ supply. If they do so, all such tenders shall be liable to be rejected.

29. 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 bidder may be one of the main criteria for quantity to be ordered on each successful bidders.”

30. 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 bidders.

31. OPENING OF PRICE BID

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

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

32. EVALUATION OF OFFERS AND 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 bidders.
- (iii) If any taxes are not quoted as per the currently applicable rates without giving details or proof of applicability of the taxes at any concessional/ higher rates, the Company reserves the rights to load the quoted prices as per the applicable rate of taxes prevalent at the time of bid evaluation for price comparison purposes. However, responsibility in this regard shall solely rest with bidder.
- (iv) **UNSATISFACTORY PERFORMANCE** - Even on fulfilment of all the criteria it may please be noted that:-
 - a. Offers of those bidders, who have been debarred / black listed for future business with our company/MPSEB/other Discoms, may be summarily rejected.
 - b. 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:-
 - i. Non-execution of previous order(s)/inordinate delay in supply of material.
 - ii. Failures of material in testing & non-replacement of the same by the supplier.
 - iii. Failures of material as reported en-mass by the field officers.

33. CHANGE OF QUANTITY

The quantity indicated in the tender are indicative only. The Purchaser reserves the right to vary the quantities of any or all items as specified in the technical specification/schedules as may be necessary. No correspondence shall be entered

into, neither discussed regarding quantity variation, nor any reason will be assigned thereof.

34. PRICE CONSIDERATION ZONE

Subject to fulfilling the financial, experience and techno-commercial criteria, the MPPKVVCL reserves the right to distribute the quantities amongst the bidders other than lowest also. While in the normal course 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 1.15 times of the lowest acceptable offer on merit basis; the Company also reserves the right to examine and accept the offers beyond above price band on counter offer price basis in case of urgency.

35. DESTINATIONS WHERE MATERIALS ARE REQUIRED

The materials as per the specifications are required for various Area Stores/ places situated as mentioned in **Section VI**.

36. SAMPLE

If requisitioned / specified in the *Volume I of the tender document*, the Bidders shall have to submit sample of equipments/ goods being supplied. In the absence of the requisitioned/ specified sample(s) the offer is likely to be ignored.

37. PRECEDENCE IN INTERPRETATION OF TERMS AND CONDITIONS

In case of any conflict between **General Terms and Conditions of Purchase** and **Special Terms and Conditions of Purchase**, the Special Terms and Conditions of Purchase would prevail.

Sd-
Chief Engineer (Corp. Office - Pur)
O/o CMD (WZ), MPPKVVCL,
Indore

Section V: General Terms and Conditions of Purchase

1. PRICES AND STATUTORY LEVIES: -

- (i) It is obligatory that VARIABLE and FOR destination, prices are quoted clearly, giving break-up in the following elements:
 - (a) Unit Ex-works/Ex-godown rate including packing.
 - (b) Excise duty applicable on Ex-works prices as on date of Bid.
 - (c) Sales Tax: (i) C.S.T.
(ii) VAT
 - (d) Forwarding & Freight-Insurance Charges
 - (e) Any other levy /taxes. The details and rate to be specified.
 - (f) Entry Tax
 - (g) In case of exemption from excise duty and/ or Sales tax, documentary evidence shall be furnished with the offer.
 - (h) 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.
- (ii) Any charge as may be applicable as per law in force, must be clearly specified otherwise any of such silent charges, shall not be payable in the event of an order.
- (iii) The basic order shall be placed on Ex-factory price inclusive of packing and forwarding charges. CST/ VAT shall be paid on elements of Ex-factory price + Excise duty. Freight charges will not form part of price for the purpose of Excise duty. If legally applicable, this should be clarified in the bid.
- (iv) Central Sales Tax / VAT and Excise duty shall not be paid on forwarding & freight element, in any case.
- (v) The payment of statutory levies such as Excise duty, Central Sales Tax/ VAT against the contract shall be made on the basis of rates prevailing during the contractual delivery period only and on applicable quantity due, to be actually delivered as per delivery schedule of contract.
- (vi) In case, supplies against the contract are affected late i.e. beyond contractual delivery period and rate of Excise duty, Central Sales Tax /VAT undergoes upward revision, the payment will continue to be made only on the basis of rates prevailing during the contractual delivery period. However, in case the rate of statutory levy (ies) undergoes, downwards revision than the delayed supplies beyond contractual delivery period will attract reduced rate of statutory levy (ies).
- (vii) In case of delay in supply, if the supplier is able to prove that the delay involved is due to force majeure conditions, as detailed in the "Force Majeure" clause, supported with suitable documentary proofs and in case the delay is condoned with specific approval for payment of statutory levies during extended period, supplementary claim for Sales Tax/Excise duty shall be accepted and payment shall be released, accordingly.
- (viii) Pending decision on the request of the supplier, for condition of the delay in delivery, the supplier will claim Excise duty/ Central Sales Tax VAT as per the rates prevailing during the contractual delivery period. In case, this is not done, all financial losses will be to supplier's account.
- (ix) 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.

- (x) In case of non-registration with Commercial Tax Department, Purchase Tax as admissible shall be deducted by the purchaser from the bills of the supplier.
- (xi) M.P. Paschim Kshetra Vidyut Vitaran Company Limited, Indore is a registered dealer under MP General Sales Tax Act 1994 and Central Sales Tax Act 1956. The registration nos. is Tin No. 233 80203311. 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.
- (xii) **Entry Tax:** Entry tax is payable in the state of MP, in accordance with the provisions of Entry Tax Act 1976. Following provisions shall apply regarding Entry Tax.
- 1.1 The cost of entry tax must be included in the quoted prices, even in those cases where liability for payment of entry tax rests with Purchaser. The price bid (Schedule I of bid documents) must be filled up by bidder accordingly.
 - 1.2 If the quoted entry tax in the price schedule is incorrect, or in case of any ambiguity/ confusion, the same shall be corrected/ loaded by purchaser at the time of bid evaluation. The responsibility in this regard shall solely rest with bidder.
 - 1.3 In the commercial questionnaire (Schedule III Part B), the bidder has to clearly indicate whether '**Entry Tax Paid**' goods shall be supplied or Entry Tax shall be required to be paid by Purchaser to the commercial tax department (even though cost of entry tax is included in quoted prices).
 - 1.4 If '**Entry Tax Paid**' goods are being supplied, then vendor shall have to comply with following conditions-
 - 1.4.1 The vendor shall have to raise the invoice as a registered dealer (or manufacturer) of MP State (i.e. TIN number on invoice must be of MP State).
 - 1.4.2 The invoices must clearly be stamped as '**Entry Tax Paid by Supplier**' which must be duly authenticated by vendor.
 - 1.4.3 "**C-form**" for such transactions shall not be issued by purchaser.
 - 1.4.4 Transaction must NOT be in the nature of "**Inter-State Sale**" or "**Sale in Transit (E1-C/ E2-C etc.)**" type.
 - 1.4.5 The vendor shall have to furnish a certificate at the time of submission of invoice that he has complied with aforesaid conditions (i.e. clause 1.4.1 to 1.4.4). If any of the above conditions (1.4.1 to 1.4.4) are not met at the time of supply, the applicable amount of Entry Tax shall be deducted by purchaser from the invoice of the vendor at the prevalent rates and deposited with the Commercial Tax authorities under the TIN number of purchaser.
 - 1.5 If Entry Tax is required to be paid by purchaser , the amount of entry tax shall be deducted from the invoice of the vendor and remitted to the Commercial Tax department under TIN number of purchaser.
 - 1.6 It is specifically clarified that if any liability is raised on the purchaser, by the concerned tax department at a later date, on account of Entry Tax, the amount of liability will be recovered from the vendor's pending bills/ security deposit, or recovered in any other manner as may deem fit.

2. **PRICE VARIATION:** -

- 2.1 The quoted price of the tendered items shall be on VARIABLE and FOR destination basis with the condition that the material shall be transported by road transport duly insured during transit and also for unloading and delivery at Area Store entirely at the bidder cost. It should be ensured that the materials are suitably packed. The ex-works cost and cost of freight & insurance charges have to be indicated in schedule-I.
- 2.2 The Ex-works prices of PVC cables, the tenderers are advised to quote their VARIABLE prices. The price variation shall be payable as per PV formula indicated in schedule-III. No deviation is accepted. In case of any deviation, indicated by the tenderer, the offer will be liable for rejection. The following conditions shall be applicable: -
- a. Price variation shall be payable strictly based on contractual delivery period only. In case of delay in delivery, price variation shall be calculated based on contractual date of delivery and actual date of inspection call and lower of the two amounts shall be payable by us.
 - b. In case the ordered materials are not despatched within 21 days of the date of despatch clearance, we will calculate price variation based on the date of inspection call and also based on actual date of despatch and lower of the two amounts shall be payable.
 - c. Price variation will be applicable only if the resulting increase or decrease in price is more than 1% of the accepted ex-works price of material.
 - d. Price of freight and insurance charges shall be "FIXED (FIRM)" and no price variation of any nature shall be payable on these accord.

While claiming the price variation, the supplier shall furnish the relevant circulars/ price indices. The claim towards price variation, if any shall be submitted directly to the paying authority along with the relevant indices and other required documents.

3. **TRANSIT RISK**

- (i) Responsibility regarding covering of risk during transit of material shall entirely be on the supplier. The Company shall, in no case, bear the transit risks/ transit insurance charges.
- (ii) 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 supplier / manufacturer, 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.
- (iii) While 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.
- (iv) In the case of transport damages/ shortage, the payment shall be made only for the quantity received in good and working condition.

4. INSURANCE:-

The bidder will be responsible for taking out any appropriate insurance coverage, as may be required for successful completion of the work/ supply, at their own cost.

5. PACKING AND FORWARDING

- (i) 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.
- (ii) Each package shall be prominently and distinctly marked on at-least two faces, indicating full address of the consignee, destination station, name of equipment, purchaser's order number, weight and volume of the package etc.
- (iii) 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.
- (iv) 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.

6. MODE OF DISPATCH

The bidder 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 transporters on door delivery basis only.

7. SUBMISSION OF DRAWING AND LITERATURE

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

8. INSPECTION AND TEST CERTIFICATE

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

been incurred towards arranging such inspection. These charges have been mentioned in clause 9 below.

9. RIGHT TO CARRY OUT THE INSPECTION DURING MANUFACTURING

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

10. FACTORY INSPECTION

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

11. FAKE INSPECTION CALL

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

12. DELIVERY

Delivery schedule shall be as mentioned in Section II - Special Terms and Conditions of Purchase.

13. FORCE MAJEURE

Force majeure condition is herein defined as:-

- (i) Natural phenomena, such as floods, draught, earth-quakes and epidemics.
- (ii) Act of any Government Authority, domestic or foreign, such as war, quarantines, embargoes, licensing control or production or distribution restrictions.
- (iii) 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.
- (iv) Strikes, slow down, lockout containing for more than three (3) weeks.
- (v) Failure or delay in the supplier's source of supply, due to force majeure causes enumerated at (i) to (iv) 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.
- (vi) Any cause which is beyond the reasonable control of the supplier or purchaser as the case may be.

- (vii) All the provisions of this clause shall apply whether the disruption caused is total or partial in its effect upon the ability of the supplier to perform.
- (viii) The cause of force majeure condition will be taken into consideration only if the supplier, within 15 days from the occurrence of such delay gives a proper notice to the purchaser. The MPPKVVCL shall verify the facts and may grant such extension in delivery period as the facts justify. For delivery time extension due to force majeure conditions, the supplier shall submit his representation with documentary evidence for scrutiny by the purchaser and decision of the MPPKVVCL shall be binding on the firm.

14. TERMS OF PAYMENT

Payment Terms & Procedure shall be as mentioned in Section II - Special Terms and Conditions of Purchase.

15. PENALTY FOR DELAY

The time for delivery of the material shall be deemed to be the essence of the contract. In case of delay in execution of the order, the Company, at its discretion, shall recover from the vendor as penalty, a sum equal to ½ % of the price of any stores not delivered, for every week of delay. For the purpose of this clause, part of a week shall be considered as full week. However, maximum penalty under this clause shall be restricted to 10 % of the order value. This will be without prejudice to other remedies available to the Company as per the laws of India, or terms of this Tender.

For this purpose, the date of offer for supply of material in the office of the Order Placing Authority shall be considered as the date of delivery, subject to the condition that offer has been received 15 days in advance of terminal date of scheduled delivery, and material is delivered at stores within 21 days of clearance. For early inspection, offer may be sent telegraphically or by fax. The Company will not be responsible for delay in inspection, if inspection offer is not received timely. Please note, in case material is not received within 21 days from the date of issuance of despatch instructions, even though the delivery period exists, penalty shall be applicable on delay of despatch.

16. PENALTY FOR BREACH OF CONTRACT:-

Breach of any terms and conditions which are included in the any section of the tender documents, or various schedules, annexure, enclosures, appendix etc. which are referred in these sections, shall be deemed as breach of this Contract.

- (i) In case of breach of this contract by the bidder/ vendor, the Company shall be entitled to forfeit the available security deposit and to realise and retain the same as damages and compensation for the said breach. This will be without prejudice to the right of the Company to recover any further sums as damages, from any sums which are due or which may become due to the contractor by the company; or otherwise howsoever.
- (ii) The MPPKVVCL, Indore may black list / debar the firm for further business for declared period i.e. one to three years on breach of contract.

17. SECURITY DEPOSIT:-

- (i) On acceptance of offer, the successful bidder will have to pay the Security Deposit as per the applicability, as discussed below.

(A) ALTERNATE I (Normal SD) :

On acceptance of offer, the successful bidder shall have to pay the security deposit @ 10% of the total value of the order, in any of the following forms-

- (a) Cash to be deposited with Sr. Accounts Officer, MPPKVVCL Indore. After deposition of SD, original receipt shall have to be produced to this office, which shall be returned after conveying the acceptance of Security Deposit.

OR

- (b) Demand Draft to be drawn in favour of Sr. Accounts Officer, MPPKVVCL Indore of respective consignee drawn on any nationalized / scheduled Bank and payable at respective destination.

OR

- (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.

(B) ALTERNATE II (Permanent Security Deposit) : Facility to deposit permanent Security Deposit shall be available to vendors, only if so mention and permitted in **Section II – Special Terms and Conditions of Purchase**. Additionally, following terms and conditions shall apply in respect of Permanent SD.

- (a) The outside-the-state firms can furnish permanent security deposit of Rs. Five Lac (In the form of Demand Draft) with the Discom-WZ. Upon submission and acceptance of permanent SD, such vendors would be exempted from submission of security deposit against individual orders, subject to approval.
- (b) The State SSI units can also furnish the permanent security deposit of Rs. 3 Lacs (In the form of Demand Draft) with the Discom-WZ. Upon submission and acceptance of permanent SD, such vendors would be exempted from submission of security deposit against individual orders, subject to approval.
- (c) The facility of permanent security deposit shall be extended to only such suppliers who have had business with the M. P. Electricity Board or MPPKVVCL Indore for more than 3 years and where supplier's performance has been found good.
- (d) The validity of permanent security deposit, as and when given to any supplier, shall be initially for a period of 1 or 2 years only as the case may be, and its revalidation will be done after reviewing the performance of the supplier.

(C) ALTERNATE III (Concessional SD for SSI units of MP) :

- (a) 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 WZ-Discom.

- (b) SSI units having annual business of above Rs. 50.00 lacs, with the Company, shall be required to pay the security deposit as per ALTERNATE I or II only.
- (ii) The Security Deposit shall be deposited strictly in aforesaid manner only. Deduction of security deposit from the supply bills shall not be allowed in any case.
- (iii) The Security Deposit shall have to be deposited within 30 days of issue of order and prior to offering supply of material against the order.
- (iv) The Company 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.
- (v) 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.
- (vi) No interest shall be paid by the Company on security deposit furnished by the manufacturer / suppliers.

18. EXTENSION ORDER

The purchaser reserves right to place an extension order for any additional quantity, to the extent of 50% quantity of the original order, within six months from the date of placement of original order, on same rates terms & conditions of the original order.

19. TESTING FACILITY AND TESTS TO BE CONDUCTED

The bidder must give their production capacity, all about testing lab and line testing facilities available with them in details for the tendered material. The bidder 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.

20. 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 Member (Distribution) West Zone, GPH Compound , Industrial Area, Polo Ground, Indore, for approval along with the letter / offer for inspection of material. Please note that each lot will be inspected at your works, which includes witnessing of all tests prescribed in IS.

21. TYPE TEST CERTIFICATES

If prescribed under **Section II (Special Terms and Conditions of Purchase) or Section III (Technical Specifications)**, duly authenticated photo copies of appropriate **Type Test Certificates** 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.

22. RANDOM TESTING

- (i) Inspection of material before despatch or waiver of inspection will not relieve the supplier from his responsibility to supply the material strictly in accordance with the specification. The MPPKVVCL shall have option to test the samples selected at random from the supplies affected and subject it to routine/type test.
- (ii) In case, the samples fails to withstand the required test, the entire lot will be liable to be rejected (i.e. unused material so supplied) and the supplier will have to refund the amount paid, including all taxes and duties, as well as the test charges thereof, after inspection. Such quantities or rejected material as identified, shall be removed by the supplier and replaced in full at his own cost. MPPKVVCL will not be responsible for levy of taxes on such rejected material and deduction shall be in totality.
- (iii) In case of random checking of the supplies, if any deviation is noticed, a notice shall be given to the supplier, who shall arrange to depute his representative within 15 days for joint inspection. If during joint inspection any deviation is observed and material supplied is found not conforming to standards laid down in the relevant ISS, the MPPKVVCL reserves the right to impose any appropriate penalty for full quantity of materials supplied against the order. The decision of the MPPKVVCL in this respect shall be final and binding on the supplier.

23. RECOVERIES FOR LIABILITIES AGAINST OTHER CONTRACTS

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

24. ROYALTIES AND PETENTS

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

25. 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.

26. SUBMISSION OF DESPATCH DETAILS

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

Page 1

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

Page 2

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

Page 3

Liability intimated By consignee	Details of remittance of liability	Addl. Information	Remarks if any

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

27. CANCELLATION OF ORDER

- (i) The Company may, upon written notice of default, terminate contract in the circumstances detailed hereunder:-
- a) If in the opinion of the Company, 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 to be 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 Company to the supplier to suspend further activities and to take urgent steps towards corrective measures, failing which the entire order would be cancelled.

- (ii) In the event of such termination, the Company shall exercise the discretionary powers as:-
- a) To recover from the supplier, penalty as mentioned in the clause no.15 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.
- (iii) Powers under sub-clause (ii) referred to above, are in addition to the rights and remedies available to the Company under the law of India relating to contract.
- (iv) 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 sub-clauses (ii) (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 claim any savings on all such purchases made against the default.
- (v) The decision of the Company shall be final regarding the acceptability of the stores supplied by supplier, and the Company shall not be required to give any reason for the rejection of the stores/material.
- (vi) In the event, Company does not terminate the Contract as provided above, the supplier shall continue execution of this order, in which case he shall be liable to the Company for liquidated damages for the delay as per clause 15 until suppliers are accepted.

28. DISPUTE RESOLUTION

If, at any time, any question, dispute or difference, whatsoever shall arise between the purchaser and the supplier, upon, or in relation to or in connection with the contract, either party may forthwith give to the other, notice in writing of the existence of such question, dispute or difference, and the same shall be referred to the adjudication of two Arbitrators, one to be nominated by the purchaser and the other to be nominated by the supplier. In the case of said Arbitrators not agreeing, the matter shall be referred to the adjudication of an Umpire, to be appointed by the Arbitrators, whose, decision shall be final and binding on the parties.

The dispute resolution shall be conducted as per provision of The Madhya Pradesh Madhyastha Adhikaran Adhiniyam 1983, as amended from time to time, and of the rules made there under. The Arbitrators or the Umpire as the case may be, are bound to give a detailed speaking award assigning reasons for the findings.

Supplies under the contract shall be continued by the Supplier during the dispute resolution 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 Indore only.

30. CORRESPONDENCE

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

- (i) Concerned consignee
- (ii) Concerned Sr. AO /Regional AO
- (iii) E.D (Pur) O/o, CMD (WZ) MPPKVVCL, G.P.H. Compound Pologround Indore.
- (iv) S.E. (Stores) O/o. G.P.H. Compound Pologround Indore.

31. CLIMATIC CONDITONS

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

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

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

-Sd-
Chief Engineer (Corporate Office-Pur)
O/o CMD (WZ), MPPKVVCL,
Indore

Section VII: List of Consignee Area Stores & Senior/ Regional Account Officers

S.No.	Name of Consignee	Name of Station to which Materials are to be dispatched if by Railway	Concerned Sr. AO/ R.A.O. MPPKVVCL
1	Addl. S.E. /E.E. (Stores) Area Store, MPPKVVCL, Indore	Indore (W.R.)	Indore
2	-do- Barwaha	Indore (W.R.)	Khandwa
3	-do- Ujjain	Ujjain (W.R.)	Ujjain
4	-do- Ratlam	Ratlam (W.R.)	Ratlam

Section VII: List of Schedule Banks

Sr. No.	Name of R.A.O./ Sr. A.O.	Name of Bank
1	Indore	1 Bank Of Baroda
		2 Central Bank Of India
		3 State Bank Of India
2	Khandwa	1 Bank Of India
		2 State Bank Of India
3	Ujjain	1 State Bank Of India
		2 Dena Bank
4	Ratlam	1 State Bank Of India
		2 Central Bank Of India
		3 Dena Bank
List banks other than nationalised banks, which are approved to furnish Bank Guarantee		
1	ICICI Bank	
2	IDBI bank	
3	UTI Bank	

Schedule III : Schedule of Information

Part A : General Information

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

Please furnish desired details. Strike off, whichever is not applicable. Use separate sheets wherever necessary and enclose the same as Annexure (as specified in the “Table of Contents” Schedule VIII).

S. No.	Particulars	Details
1	Name & Address of the Bidder	
a)	Registered office	
b)	Factory/ works address	
c)	Telegraphic address	
d)	Telex/fax Nos.	
e)	Telephone Nos.	
2	Confirm whether bidder is participating as a Manufacturer or Authorised dealer .	Manufacturer Or Authorised dealer (strike out whatever is not applicable)
4	If bidder is the manufacturer, fill following details	
a)	Address of factory	
b)	Year of starting manufacture	
c)	Whether the same /similar material manufactured earlier	Yes/No
d)	Yearly/monthly production capacity	
e)	Maximum yearly production achieved so far	
5	Whether the firm is an MP SSI Unit	Yes/No (if yes, fill following details)
a)	Registration No.	
b)	Items of registration	
c)	Period of registration	
6	Whether the bidder is old participant with MPPKVCL.	Yes/No (if yes, furnish the details in Schedule IV)
7	Any other information that bidder may like to	

Signature of Bidder with Seal of Firm :

Place-

Name (in full) :

Date-

Designation :

Schedule III : Schedule of Information

Part B : Commercial Information

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

Please furnish desired details. Strike off, whichever is not applicable. Use separate sheets wherever necessary. Please enclose the extra sheets as Annexure (as specified in the “Table of Contents” Schedule VIII).

S No.	Particulars	Details
1	Earnest Money details	
a)	Bank draft/Bankers cheque/ Cash with Sr. AO, MPPKVVCL, Indore.	
b)	Amount of EMD (in Rs.)	
c)	Any exemption from EMD (if yes, please mention under which category exemption is sought i.e. SSI Unit of M.P./small Scale unit registered with NSIC/Fully owned Stated/Central Govt. Unit etc.)	
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)
4	Mode of Despatch	
5	Security Deposit. Please indicate details of Security Deposit , as would be applicable to the bidder.	(Please refer to Section V General Conditions & section-II special terms and condition of Purchase for details, and fill in the response accordingly)
a)	Normal SD @ 10 % shall be deposited, OR	
b)	Permanent SD has been deposited (please attach proof), OR	
c)	Concessional SD as applicable to SSI units of MP shall be deposited (Please attach proof).	
6	Please furnish ST/ VAT Registration Number of your firm.	
a)	State Sales Tax/ VAT Registration Number	
b)	Central Sales Tax Registration Number	

7	<p>(I) Please indicate whether you are participating in the tender as “registered dealers (or manufacturer) situated within the state of MP” or you shall raise invoice as a registered dealer (or manufacturer) of any other state?</p> <p>(II) In case the billing shall be from outside the state, please indicate the State of Origin from where the goods shall be supplied.</p> <p>(This information is specifically required for ascertainment of liability towards Entry Tax and CST/ VAT)</p>	<p>Registered Dealer within State of MP.</p> <p>Or</p> <p>Registered dealer outside the state.</p> <p>(Please strike out whichever is not applicable)</p> <p>State of Origin from where the goods shall be supplied.</p> <p>_____</p>
8	<p>In case of “registered dealers (or manufacturer) situated within the state of MP” please indicate whether the transaction would be nature of “Inter-state Sale in Transit (viz E1-C / E2-C Transaction etc.)” or not?</p> <p>(This information is specifically required for ascertainment of liability towards Entry Tax and CST / VAT)</p>	<p>Transaction would be of “<u>Sale in Transit nature (viz E1- C etc).</u>”</p> <p>Or</p> <p>Transaction would NOT be in the nature of <u>Sale in Transit.</u></p> <p>(Please strike out whichever is not applicable)</p>
9	<p>‘Entry Tax’ is applicable in the state of Madhya Pradesh as per provisions of Entry Tax Act 1976. Please indicate whether the Goods shall be supplied as ‘Entry Tax Paid’ or the ‘Entry Tax shall be required to be paid by purchaser’.</p> <p>Important Notes -</p> <p>1. please refer to clause 1(xii) of Section V – General conditions of Supply of the bid documents for more details).</p> <p>2. Please fill up the price bid inclusive of cost of entry tax.</p>	<p>‘Entry Tax Paid Goods shall be supplied’</p> <p>Or</p> <p>‘Entry Tax shall be required to be paid by Purchaser’</p>
10	<p>If firm shall be availing benefit of any concessional rates of Excise Duty, Cess, CST, VAT etc. (which is different from normally applicable rates of such taxes / duty) please give details. Please attach documents in this regard. Attach separate sheet if necessary.</p>	

Place- Signature of Bidder with Seal of Firm :

Date- Name (in full) :

Designation :

Schedule IV : Schedule of Past Experience

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

Please furnish desired details. Use separate sheets wherever necessary. Please enclose the extra sheets as Annexure (as specified in the “Table of Contents” Schedule VIII).

Bidder’s Name & Address:

To,
 The Chief Engineer (Corporate Office-Pur)
 O/o CMD (West Zone)
 MPPKVV Co. Ltd.,
 G.P.H. Compound, Pologround Indore.

Sub: - Performance /past experience

Dear Sir,

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

S. No.	Purchaser’s Name and Address	Order No. and Date placed during last 5 years	Ordered Quantity	Quantity supplied	Value of Order	Size wise quantity pending for execution within delivery schedule	Reasons for non Completion of order, if any
1	2	3	4	5	6	7	8

Place- Signature of Bidder with Seal of Firm :

Date- Name (in full) :

Designation :

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

SCHEDULE –VI**SOURCE OF RAW MATERIAL TO BE ARRANGED BY THE
TEDNERER**

(To be kept in the envelope part-II “Commercial and Technical bid”)

Sr. No.	Particulars (Name of raw material)	Name and address of the firm from where the tenderer proposes to procure the material
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

	Signature of Bidder with Seal of Firm :	
Place-	Name (in full) :	
Date-	Designation :	

Schedule VII: Check List
(TO BE KEPT IN THE ENVELOPE PART-II, “COMMERCIAL/TECHNICAL BID”)

Check List Item	Options	Answer
Technical Information		
Whether confirmation certificate proving party is a Manufacturer or Authorised Dealer is attached	Manufacturer/ Authorised Dealer	
In case of Manufacturer, whether details of the installed manufacturing capabilities & present commitments are attached	Yes/No/NA	
Whether list of supplies made during last 3 years & certificates from those organizations are attached	Yes/No	
Whether all Literature & Drawings related to the material are attached	Yes/No	
Whether Test Certificates from inspector of the Company is attached	Yes/No	
Whether appropriate type test certificate (if required in Section V Technical Specifications) is attached	Yes/No	
Whether Quality assurance certificate is attached	Yes/No	
Whether NSIC/SSI /DIC Registration Certificate is attached	Yes/No	
Whether details of old supplies to MPPKVCL are attached	Yes/No	
Whether Certified true copies of the resolutions/ Extracts of Articles of Association/ Special or general Power of Attorney is attached	Yes/No	
Financial Information		
Whether two copies of two years P&L Accounts are enclosed	Yes/No	
Whether two copies of two years Balance Sheets are enclosed	Yes/No	
Whether Sales Tax Clearance Certificate is enclosed	Yes/No	
Documentation		
Whether each page of the tender is signed and duly stamped and submitted by the bidder.	Yes/No	
Whether duly signed “Tender Form” is attached with the bid	Yes/No	
In financial bid, whether rates are quoted in both figures and words	Yes/No	
Schedule I: Price bid is filled in and duly stamped and signed by the signatory authority	Yes/No	
Price bid is kept in separate sealed envelop super-scribed as “ Part III Price Bid ”, Name of Work, TS number, Bidder name and Date of opening	Yes/No	

Whether “Earnest Money Deposit” of specified amount is kept in a sealed envelope super-scribed as “ Part-I Earnest Money Deposit ”, Name of Work, TS number, Bidder name and Date of opening	Yes/No	
Whether all the information mentioned in Schedule III is filled and duly signed and stamped with the legally authorised signatory	Yes/No	
Whether all the information related to Past Experience (Schedule IV) is filled and duly signed and stamped with the legally signatory authority	Yes/No	
Whether all the information related to Technical & Commercial Deviations (Schedule V) is filled and duly signed and stamped with the legally signatory authority	Yes/No	
Whether “Commercial & Technical Bid” is kept in a envelop super-scribed as “ Part-II Commercial & Technical Bid ”, Name of Work, TS number, Bidder name and Date of opening	Yes/No	
Seal the envelop after keeping complete “ Commercial and Technical Bid Document ” along with the “ Check List ”	Yes/No	
All the three envelops carrying Part-I Earnest Money Deposit, Part-II Commercial & Technical Bid and Part-III Price Bid shall be kept in one sealed envelop super-scribed stating that this envelope contains three separate envelopes for Part I “EARNEST MONEY DEPOSIT”, Part – II “COMMERCIAL AND TECHNICAL BID” and Part – III “PRICE BID” , in addition to tender specification No., name of work and bidder. Details of Earnest Money Deposit, and due date of opening.	Yes/No	
Whether Certification of Agreement with the MPPKVCL, Indore’s Payment Terms, Penalty and Security Deposit Clauses as per the format mention in the document is pasted on the main envelop	Yes/No	

Note: Bidder has to attach this “**Check List**” with the “**Commercial & Technical Bid**” answering all the questions and mention page numbers.

* * *

Schedule VIII: Table of Contents

(TO BE KEPT IN PART – II TECHNICAL & COMMERCIAL BID ENVELOP)

Bidders are requested to submit the document exactly in this sequence.

S. No	Particular	Document Page No.
1	Duly Signed Complete Tender Document in Vol I & II (except ‘Schedule I-Price Bid, which is to be kept separately in Part III - price bid envelop)	As printed
2	Documents/ Certificates/ Reports	XXXX
2.1	Past two years P&L Account and Balance Sheet	1 to __
2.2	Certified true copies of the resolutions/ Extracts of Articles of Association/ Special or general Power of Attorney and any other documents establishing authority of the person signing the tender document.	__ to __
2.3	Confirmation certificate proving party is a Manufacturer/ Authorised Dealer	__ to __
2.4		__ to __
2.5		__ to __
3	Annexure if any, to Schedule II (Guaranteed Technical Particulars)	__ to __
4	Annexure to Schedule III (General, Commercial, Technical Information)	XXXX
4.1	VAT Clearance Certificate	__ to __
4.2	NSIC/SSI Registration Certificate	__ to __
4.3	Quality assurance certificate	__ to __
4.4	Details of the installed manufacturing capabilities, manufacturing process & present commitments	__ to __
4.5	Technical Literature / Drawings	__ to __
4.6	Test Certificates from inspector of the Company	__ to __
4.7	Type Test Certificate if prescribed	__ to __
4.8	Details of Testing Facilities available with bidder	__ to __
4.9	Details of samples submitted (only if required as per tender conditions)	__ to __
4.10	Other if any	__ to __
4.11		__ to __
4.12		__ to __
5	Annexure to Schedule IV (Past Experience)	XXXX
5.1	Order copies of supplies made to MPPKVVCL and similar organisations during last 3 years & certificates from those organizations	__ to __
5.2	Other if any	__ to __
6	Annexure if any, to Schedule V (Technical / Commercial Deviations)	__ to __
7		__ to __

Instructions: Bidders shall have to give each documents page numbers and clearly specify the same in the table.