

STANDARD TECHNICAL SPECIFICATION COVER SHEET

Specification No. : ENG-EHV-1040

**Specification Name : 33KV (5-400/5A,0.2s CLASS, 15VA CT and 0.2 class, 50VA PT)
METERING CUBICLE**

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15-02-2023	17-02-2023	17-02-2023	22-02-2023	22-02-2023	22-02-2023

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Specification No: ENG-EHV- 1040

Specification Name: TECHNICAL
SPECIFICATION FOR 33KV (5-400/5A) (0.2s
CLASS)15VA CT & (0.2 CLASS) 50VA PT
METERING CUBICLE

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1. SCOPE:

The specification covers the design, manufacture, testing and supply of 33KV Indoor Type Metering cubicle & resin cast CT & PT for metering cubicle made of MS plate (Galvanized).

- The metering Cubicle shall be totally enclosed, air insulated dust and vermin proof having two separate compartments HT (lower) & LT (upper) provided with two separate doors, hinged inside the box. The 33KV metering cubicle shall comply with the requirements of Indian Electricity Rule 1956 & as per relevant IS.
- The metering cubicle shall be supplied with 3nos. of 33KV single phase epoxy resin cast CT's & 3nos. of 33KV epoxy resin cast PT's and suitable clamping arrangement for holding 33KV incoming and outgoing cables and holding CTs & PTs.
- All the equipment shall comply with the requirement of relevant IS specification.

2. APPLICABLE STANDARDS:

Except where modified by this specification the component parts of the equipment shall comply with the following IS available (the latest versions).

- Current Transformers :IS2705/1992
- Potential Transformers : IS 3156/1992
- HV Porcelain Bushing :IS 2099/1986
- Oil : IS 335/1983
- Electric strength for insulation oil : IS6792/1992
- Galvanization: IS 2633 Primary Terminals : IS 10601

3. CLIMATIC CONDITIONS OF THE INSTALLATION:

1	Maximum ambient temperature	50 deg C
2	Max. Daily average ambient temp	35 deg C
3	Min Ambient Temperature	0 deg C
4	Maximum Humidity	95%
5	Average Annual Rainfall	150cm
6	Average No. of rainy days per annum	120
7	Altitude above MSL not exceeding	1000m
8	Wind Pressure	300 Km/hr
9	Earthquakes of an intensity in horizontal direction	Equivalent to seismic acceleration of 0.3g

10	Earthquakes of an intensity in vertical direction	Equivalent to seismic acceleration of 0.15g (g being acceleration due to gravity)
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TPNODL/TPSODL/TPCODL/TPWODL service area has **heavy saline conditions along the coast and High cyclonic Intensity winds with speed up to 300 Km ph.** The atmosphere is generally laden with mild acid and dust in suspension during the dry months and is subjected to fog in cold months.

4. GENERAL TECHNICAL REQUIREMENT:

CURRENT TRANSFORMERS:

There shall be three number single core single ratio dry type epoxy resin cast, current transformers conforming to IS: 2705/ 1992 of latest revision thereof as per details mentioned below:-

Sr. No	Particulars	Parameters
1	Normal system voltage (kV r.m.s)	33
2	Highest system voltage (kV r.m.s)	36
3	Frequency	50HZ
4	Number of CT	3Nos
5	Rated out put (VA burden)	15VA.
6	Rated continuous thermal current	1.2 times of rated primary current
7	Short time current rating for 1 sec.	6.4KA upto 20/5A for 1sec 13.1KA upto 100/5A for 1Sec 18.4KA above 100/5A for 1sec
8	Rated dynamic current (Peak)	2.5 times of short time thermal current rating
9	Instrument security factor	<5
10	Impulse withstand voltage (KVpeak) (on assembled CT-PT set)	170 KVpeak
11	. Maximum temperature rise ove maximum ambient temperature of 450C at rated continuous thermal current at rated frequency and with rated burden.	As per IS: 2705/ 1992 (Part-II)
12	Short time thermal current rating	6.4 kA for 3 seconds
13	Type of Insulation	E
14	Max. ratio error	Within limited of IS:2705 with latest amendment/revision
15	Max. phase angle error	Within limited of IS:2705 with latest amendment/revision

16	Rated voltage factor & time	1.2 times continuous and 1.5 times for 1 min
17	System condition	Effectively earthed system
18	Thickness of base plate	5mm
19	Type	Dry type epoxy resin cast
20	Creepage distance	900mm
21	Transformation ratio/ CT ratio	As per above schedule of requirement.
22	No. of cores	1 Nos
23	Rated continuous thermal current temperature rise over ambient	As per IS:2705/ 1992
24	One minute power frequency voltage withstand test on secondary winding	3KV
25	Class of accuracy	0.2s
26	Secondary termination	S1 & S2 shall be clearly marked
27	CT primary current	5-400 A
28	CT secondary current	5A
29	Total weight of the core before casting of Resin	To be provided by Bidder
30	Total weight of the unit after casting of Resin	To be provided by Bidder
31	Power frequency dry withstand test on primary winding	70 KV RMS

Short Circuit Rating of 33 kV CTs: -

- ❖ 6.4KA upto 20/5A for 1sec
- ❖ 13.1KA upto 100/5A for 1Sec
- ❖ 18.4KA above 100/5A for 1sec

N.B.- The dimension of the CT base plate should be **360mm** length form hole to hole and **170mm** width from hole to hole. The base plate should have open slot arrangement for adjustable fixing.

POTENTIAL TRANSFORMERS:

Details specification as per IS: 3156/ 1992 with latest amendments.

Sr. No	Particulars	Parameters
1	Normal system voltage (kV r.m.s)	33
2	Highest system voltage (kV r.m.s)	36
3	Frequency	50HZ
	Number of phases	Single phase
4	No of PT	3 Nos
5	Rated Output (VA) Burden	50VA

6	Transformation ratio (PT ratio)	33KV/ $\sqrt{3}$ / 110V/ $\sqrt{3}$
7	Impulse withstand voltage (KVpeak) (on assembled CT PT set)	170
a.	One minute power frequency dry withstand voltage (on assembled CT-PT set Primary (KVrms) Secondary (KVrms)	70
b.	Class of accuracy	0.2
8	Rated voltage factor and time	1.2 times continuous and 1.5 times for 30 sec
9	System condition	Effectively earthed system
10	Maximum temperature raise over maximum ambient temperature(which may be taken as 45°C) at rated frequency and with rated Burden	Within limited of IS: 3156 with latest amendment/ revision.
11	Maximum ratio error	Within limited of IS: 3156 with latest amendment/ revision.
12	Maximum phase angle error	Within limited of IS: 3156 with latest amendment/ revision.
17	Type of Insulation	E
18	Creepage distance	900mm
19	Basic insulation Level	36/70/170 KV

N.B.- The dimension of the PT base plate should be **280mm** length from hole to hole and **250mm** width from hole to hole (the hole is slotted). The base plate should have open slot arrangement for adjustable fixing.

5. General Construction:

The 33KV metering cubicle panel shall be fabricated with MS sheet (Galvanized) having thickness not less than 3 mm. The overall dimensions of the cubicle shall be 1800mm (Height) X 1400mm (Length) X 1600mm (Depth). Total height including base channel will be 1900mm. Height of panel is fixed. Dimension of width & depth may be increased suitably to accommodate CTs/PTs, if required. These dimensions may vary slightly as per design of manufacturer taking into care the minimum clearance of 320mm between phases as well as between phase and earth.

- All the edges and joints shall be made and welded in such a way that no access inside the cubicle shall be possible and shall thus provide strength to robust mechanical structure both during transportation and installation.
- The metering cubicle shall be totally enclosed and shall be provided with two nos. hinged door made of MS sheet (Galvanized) which shall rest on the collar along the four sides of cubicle so that the door remain flushed with body of the cubicle.
- The hinge of the doors shall be concealed type (proper welded from inside) so as to eliminate any chance of de-hinging without without causing any damage to the cubicle.
- The Metering cubicle shall be provided with MS channels support of 100mm x 50mm 5mm welded at bottom along it's length 1400mm.
- Each of the supporting channel shall have two holes of 12mm of dia. suitable for foundation bolts.
- The Metering cubicle shall be provided with MS Earthing strip of size 50mm x 5mm welded at the two opposite base angles provided with welded nut of 6mm dia. welded from inside the cubicle. The earthing strip can be connected by tightening a bolt from outside the metering cubicle at two opposite ends.
- The metering panel shall be cleaned suitably and will go through phosphating using seven tank dipping procedure and its surface shall be made smooth. It shall be Galvanized as per relevant IS specification. Mass of Zinc shall be 460 g/m² as per IS 4759: 1996. Height of panel is fixed but width & depth is minimum and may be increased suitably to accommodate CTs/PTs, if required. Thus, total height including base channel will be 1900mm. The panel should be provided with 4nos. lifting hooks.
- The metering cubicle shall have two separate compartments separated by MS sheet of 2.0mm thickness as given below.
- Two 60 W space heater with thermostat must be kept on both corner side of the cubicle chamber with operating switch must kept outside.

UPPER (LT) COMPARTMENT:

- The upper compartment of the metering cubicle shall be called LT compartment and shall have approximate height of 550mm. The compartment shall have provision for housing a tri-vector meter along with its associated wiring. The upper compartment will be double door type and the arrangement for meter fixing will be in inner portion.
- For fixing of KWH tri-vector meter in this compartment, four nos. MS slotted angles of suitable size shall be welded to the body from inside of partition chamber in LT compartment, two nos. slotted angles shall be bolted vertically and two nos.

horizontally, which shall be movable forming to adjust the distance and height of meter to be fixed in the compartment.

- The upper compartment shall be provided with one door fabricated in one piece and hinged as per clause no.-2.3. The door shall be provided with synthetic/semi synthetic gasket to make it dust & vermin proof. The door shall be provided with a handle and two nos. sealing arrangement. There shall be fixed (non-openable) window (approximate size 300mm x 200mm) fitted with transparent acrylic glass. The glass shall be fitted/ tightened with MS frame from inside of window. The height of the window shall be such that the reading can be taken easily from outside).

The LT compartment shall essentially contain the following:

- Hanger of slotted angle for mounting main meter (L&T, SECURE, PAL MOHAN, GENUS, VISIONTEK make etc.) for having flexibility for mounting of meter vertically and horizontally (meter not in scope of this tender supply).

LOWER (HT) COMPARTMENT:

- The lower compartment of metering cubicle shall be called HT compartment and shall have approximate height of 1250mm.
- This compartment shall be housed three nos. 33KV single phase epoxy resin cast CT's for 'R', 'Y' and 'B' phase and three nos. 33KV single-phase epoxy resin cast PT's, connecting strip between CT's and PT's, bus bar with suitable clamping arrangement for incoming and outgoing 33KV XLPE cables. There shall be two nos. sealing arrangement diagonally in base of each CT & PT.
- The door of lower compartment shall be provided with one door fabricated in one pieces and hinged as per clause no.- 2.3 such that it becomes complete dust and vermin proof. The door shall be provided with a handle and two nos. sealing arrangement.
- The compartment should be provided with two nos. cable entries with detachable plate with brass glands of appropriate size at the bottom suitable for 33KV XLPE cable for appropriate current rating.

The HT compartment shall be essentially contain the following:

- 33KV epoxy resin cast CT's (single phase) - 03nos.
- 33KV/ $\sqrt{3}$ /110V/ $\sqrt{3}$ epoxy resin cast PT's (single phase) - 03nos.
- Flexible copper flat strip of 30 x 0.4mm or 8 SWG copper wire (duly insulated) to connect PT's to bus bar of CT's - 01set
- LT wiring for the secondary of CT & PT circuit, which should not less than 4 mm² copper in size - 01set

An Aluminum foil plates shall be affixed on front side of cubicle to indicate the following information against which the desired information required to be painted at site:-

- a) TPNODL/TPSODL/TPWODL/TPCODL Property
- b) Name of the consumer
- c) Service connection no.
- d) Sanction load
- e) Date of release of connection
- f) Type of load cont./Non cont.
- g) Meter no. & date
- h) Line CTR/ PTR Meter CTR/PTR
- i) Class of accuracy of CT- 0.2s
- j) Class of accuracy of PT- 0.2
- k) CT/PT M.F
- l) Dial factor for energy/ for demand
- m) Overall M.F. for energy/for demand
- n)** Date of last checking
- o)** Warranty period

In addition to the above, one no. rating and diagram plate made of Aluminum shall be provided on the front door of the HT compartment giving details viz: sl no of cubicle CT and PT ratio burden, class of accuracy, year of manufacturing, total weight, P.O. No. & date etc.

SEALING:

The metering cubicles shall be completely lockable and sealable with at least one locking and two sealing arrangements of the door of each compartment. Apart from sealing arrangement of both compartments, mounting bolts of CTs and PT shall have the provisions for sealing arrangement so that removal of CTs & PTs from the installed positions in the panel (for tampering/ replacement) by the unauthorized person is not possible without breaking/ tampering the sealing arrangement. The hinge arrangement, sealing of CTs and sealing of PTs shall be diagonally arranged in the base of each CTs & PTs. This sealing arrangement shall be checked by the officers at the time of checking of sample and during inspection. The epoxy resin casting of 33 kV CTs & PTs coils is required to be carried out under vacuum to avoid any blow holes in the casted material. To establish this Epoxy hardener and accelerator, if any is mixed in the mixing chamber under the vacuum and poured into the dyes placed in the casting chamber which is also kept under vacuum as per relevant IS specifications. The temperature as specified by the Epoxy manufacturer is maintained with thermostatic control so that all the moisture is also drained out under vacuum.

6. NAME PLATE & MARKING:

An Aluminum foil plate shall be affixed on the front of cubicle to indicate the following information against which the desired information is required to be painted at site: -



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- ❖ TPNODL/TPCODL/TPSODL/TPWODL property
- ❖ Manufacturer's name
- ❖ PO No & Date
- ❖ Serial No of panel
- ❖ Panel CT ratio & accuracy class(0.2s)
- ❖ Panel PT ratio & accuracy class (0.2)
- ❖ Meter CT ratio
- ❖ Meter PT ratio
- ❖ Over all CT-PT multiplying factor
- ❖ Sanctioned load
- ❖ Date of release of connection
- ❖ Warranty up to In addition to the above, one no. rating and diagram plate made of Aluminum shall be provided on the front door of the HT compartment giving details viz. Serial no. of cubicle CT & PT, ratio, burden, class of accuracy, year of manufacturing, total weight, P.O No. and date etc.

7. TEST:

CALIBRATION:

All instruments used in inspection and testing should be properly calibrated and sealed from any Govt. Test House/ Reputed Agency certified by NABL and the reports shall not be less than an one year old. Calibration certifications when demanded by inspecting officers shall be provided/ produced for verification purpose.

ROUTINE, ACCEPTANCE. AND TYPE TEST:

The following shall constitute the routine test, acceptance tests and type test.

Stage Inspection: The manufacturer should have the facility to show the stage inspection i.e during the period of FAT.

01 no of Sample from any Cubicle will be completely destroyed in the bidder's laboratory in order to check the quality of resin, measurement of core weight, quality of copper used for winding and HV test will be applied for minimum 5 minutes to check the insulation level and the cost for the testing will be borne by the manufacturer

CURRENT TRANSFORMERS:

- Verification of terminal marking and polarity.
- High voltage power frequency test on Primary winding
- High voltage power frequency test on Secondary winding
- Over voltage inter-turn test.
- Determination of errors according to the requirement of accuracy class (0.2s)
- Partial discharge test in accordance with IS: 11322/1985

POTENTIAL TRANSFORMER:

- Verification of terminal marking and polarity.
- Power frequency dry withstand test on Primary
- Power frequency withstand test on Secondary
- Determination of errors according to the requirement of accuracy class (0.2)
- Partial discharge test measurement test in accordance with IS:11322/1985.

8. TYPE TEST CERTIFICATES:

The Bidder shall furnish the type test certificates of the offered product in bid for the tests as mentioned as per the corresponding standards. All the tests shall be conducted at CPRI/ERDA or any other International Laboratory as per the relevant standards of IS and IEC. Type tests shall have been conducted in certified Test laboratories during the period not exceeding 7 years from the date of opening the bid. In the event of any discrepancy in the test reports, i.e. any test report not acceptable or any/all type tests (including additional type tests, if any) not carried out, same shall be carried out without any cost implication to TPNODL/TPCODL/TPWODL/TPSODL.

Bids without all type test report shall stand disqualified.

TYPE TEST:

- The following shall constitute the type tests as per relevant IS:
- Short-time current tests
- Temperature-rise test
- Lightning impulse test
- Power frequency withstand test
- Determination of errors according to the requirement of accuracy class.

9. PRE-DISPATCH INSPECTION:

Equipment shall be subjected to inspection by a duly authorized representative of the TPCODL/TPNODL/TPSODL/TPWODL. Inspection may be made at any stage of manufacture at the option of the purchaser and the equipment if found unsatisfactory as to workmanship or material is liable to rejection. Supplier shall grant free access to the places of manufacture to TPCODL/TPNODL/TPSODL/TPWODL's representatives at all times when the work is in progress. Inspection by the TPCODL/TPNODL/TPSODL/TPWODL or its authorized representatives shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specifications. Material shall be dispatched after specific MDCC (Material Dispatch Clearance Certificate) is issued by TPCODL/TPNODL/TPSODL/TPWODL. Following documents shall be sent along with material.

- A. Test reports
- B. MDCC issued by TPCODL/TPNODL/TPSODL/TPWODL
- C. Invoice in duplicate
- D. Packing list



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- E. Drawings & catalogue
- F. Guarantee / Warrantee card
- G. Other Documents applicable)

STAGE INSPECTION:

The manufacturer should have the facility to show the stage inspection i.e during the period of FAT.

01 no of sample from any cubicle will be completely destroyed in the bidder's laboratory in order to check the quality of resin cast , measurement of core weight ,quality of copper used for winding and HV test will be applied for minimum 5 minutes to check the insulation level and the cost for the testing will be borne by the manufacturer.

10. INSPECTION AFTER RECEIPT AT STORE:

The material received at TPCODL/TPNODL/TPSODL/TPWODL Store will be inspected for acceptance and shall be liable for rejection if found different from the reports of the pre-dispatch inspection and one copy of the report shall be sent to Project Engineering department.

11. GUARANTEE PERIOD:

The supplier shall give Guarantee for the satisfactory functioning of the material / equipment as per specification, for a minimum period of **60 months from date of commissioning or 66 months from the last date of receipt of material in good condition at departmental store for each consignment whichever is earlier.** The bidder shall be liable to undertake the replacement or rectify defects at his own cost within mutually agreed timeframe. The bidder shall further be responsible for free replacement for another period of three years from the end of guarantee period for any "latent defect" if noticed and reported to purchaser.

12. PACKING:

Bidder shall ensure that all equipment covered by this specification shall be prepared for rail/road transport (local equipment) and be packed in such a manner as to protect it from damage in transit.

13. TENDER SAMPLE:

One numbers sample should be ready at the firms' works after issue of LOA for new entrant. The sample shall be checked for its suitability and conformity with this specification. The drawing of sample must be attached with bid documents showing all views of equipment installed inside the metering panel along with the sketch of sealing arrangement as mentioned above. After placing of purchase order the material shall be supplied as per the approved sample and specification. However approval of the sample shall not absolve the supplier of his responsibility to supply the material as per specifications.

14. TRAINING Not Required:

15. QUALITY CONTROL:

The bidder shall submit with the offer, assurance plan indicating the various stages of inspection, the tests and checks which will be carried out on the material of construction, components during manufacture and after finishing, bought out items and fully assembled component and equipment including drives. As part of the plan, a schedule for stage and final inspection within the parameters of the delivery schedule shall be furnished. The Purchaser's or its nominated representative engineer shall have free access to the manufacturer/sub-supplier's works to carry out inspections.

16. MINIMUM TESTING FACILITY:

The manufacturer should have all the testing facilities at their works to carry out all the routine & acceptance test including partial discharge test as mentioned below. List of plant & machinery and test equipment available at manufacturer's works should necessarily be submitted along with tender.

17. MANUFACTURING ACTIVITIES:

The successful bidder will have to submit the bar chart for various manufacturing activities clearly elaborating each stage with quantity. This bar chart shall be in line with the Quality Assurance Plan, submitted with the offer. This bar chart will have to be submitted within 15 days from the release of the order.

18. SPARES, ACCESSORIES & TOOLS:

Not Applicable.

19. DRAWING & DOCUMENTS:

Following drawings and documents shall be prepared based on TPCODL/TPNODL/TPSODL/TPWODL specifications and statutory requirements and shall be submitted with the bid:

- a) Completely filled in Technical Particulars
- b) General description of the equipment and all components including brochures.
- c) General arrangement for Metering cubicle
- d) Power flow diagram
- e) Foundation plan
- f) Bill of material
- g) Experience List

Type test certificates Drawings / documents to be submitted for approval after the award of the contract are as under:

Sl. No	Description	For Approval	For Review/ Information	Final Submission
1.	General Technical Particulars (GTP)	√		√

2.	General Arrangement drawings	√		√
3.	Bill of materials	√		√

All the documents & drawings shall be in English language.

After the receipt of the order, the successful bidder will be required to furnish all detailed drawings of components for TPNODL/TPCODL/TPSODL/TPWODL approval.

20. GENERAL TECHNICAL PARTICULAR:

CURRENT TRANSFORMER:

Sr. No	Particulars	Parameters	Bidder's Offer
1	Normal system voltage (kV r.m.s)	33	
2	Highest system voltage (kV r.m.s)	36	
3	Frequency	50HZ	
4	Number of CT	3Nos	
5	Rated out put (VA burden)	15VA.	
6	Rated continuous thermal current	1.2 times of rated primary current	
7	Short time current rating for 1 sec.	6.4KA upto 20/5A for 1sec 13.1KA upto 100/5A for 1Sec 18.4KA above 100/5A for 1sec	
8	Rated dynamic current (Peak)	2.5 times of short time thermal current rating	
9	Instrument security factor	<5	
10	Impulse withstand voltage (KVpeak) (on assembled CT-PT set)	170 KVpeak	
11	. Maximum temperature rise ove maximum ambient temperature of 450C at rated continuous thermal current at rated frequency and with rated burden.	As per IS: 2705/ 1992 (Part-II)	
12	Short time thermal current rating	6.4 kA for 3 seconds	
13	Type of Insulation	E	
14	Max. ratio error	Within limited of IS:2705 with latest amendment/revision	
15	Max. phase angle error	Within limited of IS:2705fea with latest amendment/revision	

16	Rated voltage factor & time	1.2 times continuous and 1.5 times for 1 min	
17	System condition	Effectively earthed system	
18	Thickness of base plate	5mm	
19	Type	Dry type epoxy resin cast	
20	Creepage distance	900mm	
21	Transformation ratio/ CT ratio	As per above schedule of requirement.	
22	No. of cores	1 Nos	
23	Rated continuous thermal current temperature rise over ambient	As per IS:2705/ 1992	
24	One minute power frequency voltage withstand test on secondary winding	3KV	
25	Class of accuracy	0.2s	
26	Secondary termination	S1 & S2 shall be clearly marked	
27	CT primary current	5-400 A	
28	CT Secondary current	5A	
29	Total weight of the core before casting of resin	To be provided by Bidder	
30	Total weight of the unit after casting of resin	To be provided by Bidder	
31	Power frequency Dry withstand test on primary winding	70 KV rms	

Potential Transformer:

Sr. No	Particulars	Parameters	Bidder' Offer
1	Normal system voltage (kV r.m.s)	33	
2	Highest system voltage (kV r.m.s)	36	
3	Frequency	50HZ	
	Number of phases	Single phase	
4	No of PT	3 Nos	
5	Rated Output (VA) Burden	50VA	
6	Transformation ratio (PT ratio)	33KV/ $\sqrt{3}$ /110V/ $\sqrt{3}$	

7	Impulse withstand voltage (KVpeak) (on assembled CT PT set)	170	
a.	One minute power frequency dry withstand voltage (on assembled CT-PT set Primary (KVrms) Secondary (KVrms)	70	
b.	Class of accuracy	0.2	
8	Rated voltage factor and time	1.2 times continuous and 1.5 times for 30 sec	
9	System condition	Effectively earthed system	
10	Maximum temperature raise over maximum ambient temperature(which may be taken as 45°C) at rated frequency and with rated Burden	Within limited of IS: 3156 with latest amendment/ revision.	
11	Maximum ratio error	Within limited of IS: 3156 with latest amendment/ revision.	
12	Maximum phase angle error	Within limited of IS: 3156 with latest amendment/ revision.	
13	Type of Insulation	E	
14	Creepage distance	900mm	
15	Basic Insulation level	36/70/170 KV	

21. SCHEDULE OF DEVIATIONS:

(TO BE ENCLOSED WITH TECHNICAL BID)



Specification No: ENG-EHV-1040

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SPECIFICATION FOR 33KV (5-400/5A) (0.2s
CLASS)15VA CT & (0.2 CLASS) 50VA PT
METERING CUBICLE

All deviations from this specification shall be set out by the Bidders, clause by Clause in this schedule. Unless specifically mentioned in this Schedule, the tender shall be deemed to confirm the purchaser's specifications:

S. No	Clause No.	Details of deviation with justifications

We confirm that there are no deviations apart from those detailed above

Seal of the Company:

Signature

Designation