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OFFICE OF THE SUPERINTENDING ENGINEER (MM&C)
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SPECIFICATION NO. JDVVNL/SE (MM&C)/TN-1767

Tenders are hereby invited in e-tender system for Empanelment of vendors for supply of 11 KV & 33 KV CT-PT Metering sets in Jodhpur Discom of Rajasthan is to be submitted online in electronic format on website <http://www.eproc.rajasthan.gov.in>. The details are as under:-

S.No.	Name of Item	Date of opening
1.	EMPANELMENT OF VENDORS FOR SUPPLY OF 11 KV & 33 KV CT-PT METERING SETS	04.02.2022

A.	NIT No.	TN-1767
B.	Cost of Specification	Rs. 2,950.00 (Two Thousand Nine Hundred & Fifty only) For MSME of Rajasthan: Rs. 1,475 (One Thousand Four Hundred & Seventy Five only)
C.	Processing of RISL	Rs. 1,000.00 per set (One Thousand only)
D.	Bid security to be deposited	i) General Bidder : Rs. 1,00,000.00 ii) Sick Unit of Rajasthan : Rs. 50,000.00 iii) SSI unit of Rajasthan: Rs. 25,000.00 *
E.	Validity	120 days from the next date of opening of techno-commercial bid.

The micro , small & Medium Scale Industries of Rajasthan and sick Industries , other than Small Scale Industries , whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR) shall furnish self attested documentary evidence duly attested by notary to claim the above.

IMPORTANT DATES

S.N.	Events	Date & Time	Location
1.	Last Date of downloading of tender specifications	Up to 03.02.2022 (04:00 PM)	www.jdvnvl.com & http://www.eproc.rajasthan.gov.in
2.	Last Date of Deposit of cost of Tender Specifications, Processing fee & Bid Security	Up to 03.02.2022 (4:00 PM)	Office of Sr. A.O (Cash & CPC), JdVVNL, Jodhpur Office of SE(MM&C), JdVVNL, Jodhpur Sr.AO(MM&C), JdVVNL, Jodhpur
3.	Last Date & time of submission of electronic bid	Up to 04.02.2022 (12:00 PM)	http://www.eproc.rajasthan.gov.in
4.	Opening of Technical Bid	04.02.2022 (03:00 PM)	http://www.eproc.rajasthan.gov.in

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1. Tender documents will be made available on e-Tendering portal www.eproc.rajasthan.gov.in The bidders, in their own interest are requested to read very carefully the tender document before submitting the bid only through online on website www.eproc.rajasthan.gov.in . The bidders can download bid up to 04:00 p.m. one day prior to schedule date of opening of respective bid mentioned above documents and submit their bids online up to 12:00 p.m. on schedule of respective bid mentioned above.
2. Eligible bidders should submit their bid well in advance instead of waiting till last date, JdVVNL will not be responsible for non-submission of bids due to any website related problems.
3. The cost of Tender specification **Rs. 2950/-**(Non-Refundable) (50% for MSME of Rajasthan) to be paid by Demand Draft in Favour of the Sr. Accounts officer (Cash & CPC), JdVVNL, Jodhpur and tender processing fees Rs. **1000/-** shall be payable by demand draft in favour of The Managing Director RISL, Jaipur (Non-Refundable). The bidders are required to deposit all these payments in the office of the SE(MM&C), JdVVNL, Jodhpur up to 4.00 PM one day prior to date of tendering otherwise their bids are liable to be rejected.
4. The Bid Security amount (as applicable) to be paid by demand draft/banker's cheque in favour of SR.AO(CASH & CPC), JDVVNL, Jodhpur (Payable at jodhpur) **342003 up to 4.00 p.m upto one WORKING day prior to schedule date of opening** of respective bid or Bank guarantee, in specified format, of a scheduled bank in favour of superintending Engineer (MM&C), JDVVNL, Jodhpur be deposited to the Sr. Accounts Officer (MM&C), JdVVNL, New Power House, Industrial Area, Jodhpur-342003 **up to 4.00 p.m. up to one WORKING day prior to schedule date of opening** of respective bid and obtain a receipt/acknowledgement thereof. No other mode of deposit shall be accepted. At the time of depositing the Bid Security amount or Bank Guarantee, the bidder shall also furnish self attested and duly attested by Notary, the documentary evidence of SSI/MSME unit of Rajasthan or of sick unit (as applicable) along with affidavit as per schedule XI on Non-Judicial Stamp of Rs. 100/-.

The Bank Guarantee against Bid Security be issued by Nationalized / Scheduled Bank. The same may be accepted after confirmation by issuing Bank. If any Bid Security Bank Guarantee not is proper format / not confirmed by the issuing Bank the same would not be accepted and the bidder would be immediately shorted out from bid process.

SECTION -III**TECHNICAL SPECIFICATION FOR EMPANELMENT OF VENDORS FOR SUPPLY OF 11 KV & 33 KV CT-PT METERING SETS IN JODHPUR DISCOM OF RAJASTHAN, FROM WHOM THE APPLICANT CAN PURCHASE THE SAME FOR ELECTRIC CONNECTION AGAINST TN-1767.****A. TECHNICAL SPECIFICATION OF 11 KV CT-PT METERING SETS****1. SCOPE:**

This specification covers the design, manufacture, assembly, testing and delivery of three phase four wire 11 KV/ 110V oil cooled outdoor type combined CTPT units for feeder metering & Indoor type combined CT-PT unit for consumer metering purpose having 1 No. Three phase potential transformer and 3 Nos. single phase paper impregnated oil immersed current transformers for different phases in common tank equipped with weather proof bushing for outdoor use as per technical data incorporated in this specification.

2. APPLICABLE STANDARDS:

Unless otherwise modified in this specification, 11 KV CTPT Metering Sets shall comply with the following Indian Standard Specification (latest version):

IS:2705-1992	Specification for current transformers.
IS:3156-1992	Specification for voltage transformers.
IS:5621-1980	Specification for Insulators/Bushing
IS:2099-1986	Specification for insulators/ bushing
IS:3347-1986	Specification for Insulators/bushing
IS:335-1983	Specification for new insulating oil
IS : 5561	Specification for terminal connectors.

Equipments conforming to any other international standard(s) which ensure(s) equal or better quality than the standard(s) mentioned above will also be acceptable and in such case(s) the copy of standards (English version) adopted should be provided.

3. 11 KV CTPT Metering Sets:

A) 11 KV Single Phase Current Transformer (3 Nos. for R Y & B phases).

The 11 KV current Transformer shall be paper impregnate oil immersed type, single phase 50 HZ confirming to IS:2705/1992 with latest amendment in all respect except where ever modified in this specification.

The 11 KV current Transformer shall have the following technical characteristics/ parameters.

Sr. No.	Particulars	Parameters
i)	Normal system voltage (KV rms)	11
ii)	Highest system voltage (KV rms)	12
iii)	Frequency	50 Hz
iv)	Impulse withstand voltage	95 KV (Peak)
v)	i) One minute power frequency dry withstand voltage (on assembled CT-PT set) a) primary (KV r.m.s.) b) secondary (KV r.m.s.) ii) One minute frequency wet withstand voltage (KV Peak) (On assembled CT-PT)	28 3 Root 2x28 rms
vi)	Transformation ratio (CT Ratio) a) For Consumer Metering b) For Feeder Metering	100/5 A, 50/5 A, 15/5 A & 5/5 A 200/5 A
vii)	Rated output (VA burden)	10 VA
viii)	Class of accuracy	0.5S
ix)	Rated continuous thermal current	1.2 times of rated primary current

x)	Short time thermal current rating	6.4 KA for one second for CT ratio 5/5 A & 15/5 A, 18 KA for one second for CT Ratio 50/5 A & 100/5 A 18 KA for 3 seconds for CT ratio 200/5 A
xi)	Rated dynamic current	2.5 times of short time thermal current rating.
xii)	Number of cores	One
xii)	Instrument security factor	Not exceeding 5
xiii)	Max. ratio error	As per IS:2705/1992
xiv)	Max. phase angle error	As per IS:2705/1992
xv)	Max. temp. rise over max. ambient temp. of 50 deg. C at rated continuous thermal current at rated frequency and with rated burden.	As per IS:2705/1992

B) 11 KV Voltage Transformer:

11 KV voltage Transformer will be used along with CTs of description stated above. This shall be paper impregnate oil immersed type conforming in all respect to the Indian Standards specification IS:3156/1992 with latest amendment except where modified in this specification.

The 11 KV voltage transformer shall have the following ratings/ technical parameters:

Sr.No.	Particulars	Parameters
i)	Nominal system voltage (KV rms)	11
ii)	Highest system voltage (KV rms)	12
iii)	Nos. of phases	Three
iv)	Impulse withstand voltage (KVP) (on assembled CTPT set)	95
v)	a) One minute power frequency dry withstand voltage (on assembled CT-PT set) i) primary (KV r.m.s.) ii) secondary (KV r.m.s.) b) One minute frequency wet withstand voltage (KV Peak) (On assembled CT-PT set)	28 3 Root 2x28 rms
vi)	Frequency	50 Hz
vii)	Transformation ratio (PT Ratio)	11 KV/ 110V
viii)	Rated output (VA burden)	30 VA per phase
ix)	Class of accuracy	0.5 (As per IS:3156/1992)
x)	Winding connection	Star/Star with HT neutral earthed.
xi)	Rated voltage factor and time	1.2 continuous and 1.9 for 30 seconds.
xii)	Temp. rise over max. ambient temp.	Within limits of IS:3156/1992
xiii)	Max. Phase angle error	Within limits of IS:3156/1992
xiv)	Ratio error (Max.)	Within limits of IS:3156/1992

4. GENERAL TECHNICAL DESCRIPTION OF 11 KV CT-PT METERING SETS:

- i) The CT PT Metering set shall comply to the latest standards mentioned in the specification and guaranteed technical particulars.
- ii) High voltage winding of 11 KV instrument transformers shall have paper insulation impregnated with oil under vacuum. The paper used for insulation shall be of high insulation grade. The process of impregnation shall be detailed out in the tender.

- iii) The core material of CT-PT sets shall be of high grade, non-ageing, electrical silicon steel having low hysteresis loss and high permeability to ensure accuracy at both normal and over current/ voltage.
- iv) The instrument transformers shall be contained in a fully weather proof, outdoor type, platform mounting and also suitable for pole mounting type tank with 6 Nos. of 12 KV class weather proof bushing for incoming and outgoing connections.
- v) The thickness of MS sheet used for fabrication of tank shall be minimum 3.15 MM for sides and bottom and 5 MM for top cover.
- vi) The external surfaces of tanks of CT-PT sets shall be painted with one coat of primer and two coats of synthetic enamel paint of shade No.631 of IS:5. The internal surfaces of the tank shall be painted with two coats of a suitable heat resistant oil insoluble paint.
- vii) The metering sets shall be supplied with first filling of insulating oil conforming to IS:335 (with latest amendment).
- viii) The bushings used in the CT-PT sets shall conform to IS:2099, IS:5621 and IS:3347 (latest amendments). These shall be suitable for operation in heavily polluted atmosphere with creepage distance of 25 MM/KV.
- ix) The minimum clearance between phases and phase to earth as specified in the relevant ISS should be maintained.
- x) The paper impregnated oil immersed type instrument transformers shall be complete with all fittings and accessories mentioned at Clause No. 5 of this specification.
- xi) The 11 KV CT-PT sets shall be hermetically sealed type (should not communicate with atmospheric air) in construction without any oil conservator. The quality and work-man-ship shall be of high standard.
- xii) CT-PT sets shall be used for 3 phase 4 wire KWH metering. As such 11 KV CT PT sets shall have 3 Nos. CTs.
- xiii) The 11 KV CT PT sets shall have one No. of Three Phase Potential Transformer. The primary winding of single phase PT shall be connected in star formation in the tank with common external neutral.
- xiv) The neutral of primary PT winding shall be floating. The neutral of PT Secondary winding shall be earthed.**
- xv) The secondary winding neutral of PT and secondary terminals of CTs and PTs shall be brought out in one single secondary terminal box through 3 KV bushings. The terminals shall be marked as per ISS and supporting marking plate with earth terminal shall be provided. The secondary terminal box compartment shall be divided in two portions - One portion containing secondary of all CTs and the other portion shall contain all secondary PT connections with neutral and one body earthed. The whole compartment shall be covered by one bolted cover with sealing arrangement. At least two bolts at diagonally opposite corners of secondary terminal box shall be suitable for sealing arrangement. All other bolted covers and inspection windows covers, where provided shall also have sealing bolts for sealing purpose. Suitably shorting links shall be provided for individual CT shorting and PT secondary neutral.
- xvi) The secondary terminal box shall have cable gland/ flange suitable to receive two Nos. control cable of size 6 core X 4 sq.mm. and 4 core x 2.5 sq. mm at the bottom of the secondary box for metering connections to secondary winding of 11 KV CT-PT circuits respectively.
- xvii) The 11 KV CT PT Set shall have 3 Nos. incoming and 3 Nos. outgoing outdoor type bushing. The 11 KV CT-PT Sets shall have 6 Nos. bimetallic terminal connectors suitable for Dog Conductor for ratio 200/5 Amp. These should be type tested from CPRI/ NABL accredited Labs. These test reports should not be older than **7 years** for Short Circuit Test. The dimension & drawing shall be furnished along with tender duly signed and sealed by

testing authority. Inspecting officer shall verify the original type test reports at the time of inspection for terminal connectors & bushings.

- xviii) No oil drain plug at the bottom of the CT-PT Sets be provided.
- xix) Embossing/ punching with minimum height of 10mm of Sr. No. & ratio be done on the tank of the CT-PT Sets.
- xx) Manufacturer's name in short should be embossed/ punched.
- xxi) CT Ratio should be painted on tank body so that it should be visible clearly.
- xxii) The under base of CT-PT Sets of 11 KV shall be provided with 2 Nos. 75x40x6mm channels to make them suitable for fixing to a plate form or plinth. These channels shall be provided through continuous welding with tank of the CT-PT Sets.
- xxiii) For 200/5 A Amp CT-PT set, HV Metal parts (Primary terminal) shall be of 20 mm dia and made of copper. The primary terminal shall be along the entire length of bushing. However brass may be used for consumer metering CT-PT sets for which HV Metal parts (Primary terminal) shall be of 16 mm dia.
- xxiv) The equipment shall be suitable to withstand for loading conditions when supply for one phase is disconnected from primary side.
- xxv) Bushing rod of 20 mm dia made of copper shall be used for 11KV CT-PT Sets for 200/5 Amp. ratio.
- xxvi) 2 Nos., 5/8" dia, 3" length earthing bolts with 2 nuts, 2 flat & 2 Nos. Spring washers shall be provided with each CT-PT Set.
- xxvii) Spring loaded pressure release device shall be provided on each 11KV CT-PT Set for releasing of accumulated gases.
- xxviii) The CT-PT Set (for outdoor installation) top shall be taper / slanting with minimum slant of 10 mm.
- xxix) The following sealing arrangement for providing seals on each 33 KV CT-PT set shall be made by the manufacturer.
 - i) 4 Nos. holes of 2.5 mm dia on each bushing clamp bolts of 6 nos. HT bushings for providing two polycarbonate seals at diagonally opposite bolts of each bushing clamp in M&P lab after successful testing as required.
 - ii) 4 Nos. holes of 2.5 mm dia on the bolts provided at four corners of top cover for providing two polycarbonate seals at diagonally opposite corner of CT-PT set by the inspecting officer after successful testing and providing polycarbonate seals in M&P lab after successful testing as required.
 - iii) 4 nos. sealing holes on the name plate (R&D plate so that our inspecting officer may provide numbered seal on one side of the plate covering top & bottom holes whereas on the remaining two holes of other side, the one numbered seal will be provided by MT Lab after successful testing.

5. FITTING AND ACCESSORIES:

The outdoor platform/ pole mounting type metering equipments shall be complete with tank, fittings and accessories as detailed below:

- 1 No. Electrically welded sheet steel tank/ enclosure for accommodating above instrument transformers with suitable bolted cover.

- 6 Nos. Outdoor single terminal porcelain/ **Cycloaliphatic** bushing of reputed make without arcing horns. 3 Nos. for incoming and 3 Nos. for outgoing.
- 1 No. Secondary terminal box. The terminal box opening door/cover shall have suitable sealing arrangement. The necessary gland/ socket shall be in the scope of supply.
- 1 No. Oil filling hole with cap/plug.
- 1 No. Toughened prismatic oil level indicator with min. oil level marking.
- 2 No. Lifting lugs for lifting the complete CT-PT unit.
- 2 Nos. Earthing terminals.
- 1 Set Under base channels with suitable fixing holes for mounting on plat-form/poles.
- 1 Set Detachable collar assembly.
- 1 No. Rating and diagram plate.
- 6 Nos. Bimetallic Terminal Connectors. [For each 11 KV CT-PT Set of ratio 200/5 Amp.]

6. BUSHING:

The bushing shall conform to IS:5621-1980 and IS:2099-1986 and its subsequent amendment, if any, the bushing shall be of standard make. The make and catalogue No. of bushing shall be clearly stated in the guaranteed technical particulars. The type tests certificates of bushings not older than **seven years** shall also be furnished along with tender. The dimensions of 12 KV class bushings and their related parts shall conform to the relevant Indian Standards as detailed below:

Voltage class	Indian Standard	
12 KV bushing	For porcelain parts IS:3347 (Part-III) Sec.I-1972 or the latest version thereof	For metal parts IS:3347 (Part-III) Sec.II-1967).

The minimum electrical clearance of 255 mm between phases shall be obtained with the bushings mounted and phase to earth clearance should be maintained as specified in relevant IS/ Indian Electricity rules.

On the bushings clamp bolt of CT-PT Sets two holes on two bolts of size 2.5mm (total 12 holes on 12 bolts) at diagonally opposite sides be provided to enable metering wing to seal these bolts after successful testing in Meter Labs.

7. GUARANTEED TECHNICAL PARTICULARS, DRAWINGS AND QUALITY ASSURANCE PLAN:

Guaranteed Technical Particulars in the proforma enclosed with this specification shall be furnished along with the detailed general arrangement dimensional drawings mounting arrangements, connection diagrams and quality assurance plan etc. at the time of inspection offer.

8. INSTRUCTION MANUALS:

One set of operation and maintenance instruction manuals along with the requisite sets of drawings shall be sent along with the delivery of 11 KV CT PT unit to the consignee.

9. INSPECTION, TESTING AND CHECKING:

- i) Routine tests as per relevant standard along with accuracy test of CT as per IS:2705 (Pt-II)-1992 and that of PT IS:3156 (Pt.II)-1992 shall be carried out on each equipment covered by this specification in the presence of inspecting officer nominated by respective SE(M&P). All test reports shall be submitted and got approved from the respective S.E.(M&P) before despatch of the equipment.
- ii) The supplier shall simulate single phase condition in their laboratory for testing one 11 KV CT-PT set of any ratio from each lot offered for inspection under such condition for 24 hours. The

errors of PT shall be measured before and after application of single phasing condition for at least 24 hours and results shall be within permissible limits of specified accuracy class. This test shall be done as acceptance test.

- iii) One CT-PT set of each ratio in each offered lot should be subjected to temperature rise test .The test shall be carried out simultaneously application of rated current (1.2 lb) and rated voltage (12 KV) and also ISF test, at firm's works free of cost.
- iv) During routine/ acceptance test, errors for CTs shall be conducted at 1 %, 5%, 20%, 100% and 120% of rated current and in case of PT at 80%, 100% and 120% of rated voltage.
- v) Algebraic summation of errors of standard CTs/PTs to the errors observed on CTs/PTs under test should be made to get final errors on specified percentage current/ voltage/ burden. If class of accuracy of standard CT-PT is less than 10 times of the accuracy of CT-PT set under test.
- vi) Leak test :- One CT-PT set of each rating in each offered lot should be subjected to 'Leak Test' through Nitrogen gas for a pressure of 10 PSI (Pound sq. inch) for half an hour and pressure shall not drop more than 2 PSI. There should be no leakage observed at any part of CT-PT set.
- vii) One CT-PT set of each rating in each offered lot shall be opened for verifying the diameter and cross sectional area of primary coil conductors including verification of GTP.
- viii) One sample of oil shall be selected for each ratio and shall be tested for a) Break down voltage b) Tan delta at 90 Deg.C.

The oil supplied with CT PT set shall be of EHV grade Transformer oil suitable for insulation and coding of the electric transformers of extra high voltage and shall conform to IS 335 (with latest amendments)

If CT-PT set fails in any of the above tests/verification at works, entire lot shall be rejected.

During the inspection at firm's works, inspecting officer / agency shall provide polycarbonate seals on each CT-PT set as under -

- i) One polycarbonate seal on one side of the plate covering top & bottom holes.
- ii) Two polycarbonate seal at diagonally opposite corner of top cover of CT-PT set.

Further, it shall be ensured that all meters and instruments used during inspection/ testing are calibrated from NABL approved test house and date of calibration should not be older than one year at the date of presenting the same to the inspecting officer.

10. COMPLETENESS OF EQUIPMENT:

Any fittings, accessories or apparatus which may not have been specifically mentioned in the specification for 11 KV CT-PT metering sets covered under the scope of this enquiry-, but which are usual or necessary in the equipment of similar type shall be deemed to be included in the contract and shall be supplied by the contractor without extra charges. All plants and equipment shall be complete in all respect whether such details are mentioned in the specification or not.

11. NAME PLATE AND MARKING:

- a) The equipment shall have a non detachable type name plate which should be clearly visible and effectively secured against removal having markings as per requirement of IS. In addition, Sr.No., Ratio and date of despatch shall have to be engraved on bushing side of tank with letters of suitable depth & 25 mm height filled with red colour.
- b) The- main and load are to be stencilled on top cover on main and load side respectively.
- c) Two additional identification plates of size 4'x4' duly welded on both sides smaller vertical faces of the tank of CT-PT set with the following details engraved may be provided:
 - i) Sr. No.
 - ii) Ratio
 - iii) Make
 - iv) TN No.

Part -B**B. TECHNICAL SPECIFICATION OF 33 KV CT-PT METERING SETS****1. SCOPE:**

This specification covers the design, manufacture, assembly, testing and delivery of three phase four wire 33 KV/110V oil cooled outdoor type combined CTPT units for metering purpose having one No. three phase potential transformers and 3 Nos. single phase paper impregnated oil immersed current transformers for different phases in common tank equipped with weather proof bushing for outdoor use as per technical data incorporated in this specification.

2. APPLICABLE STANDARDS:

Unless otherwise modified in this specification, the 33 KV CTPT Metering Sets shall comply with the following Indian Standard Specification (latest version):

IS:2705-1992	Specification for current transformers.
IS:3156-1992	Specification for voltage transformers.
IS:5621-1980	Specification for Insulators/Bushings
IS:2099-1986	Specification for insulators/ bushing
IS:3347-1986	Specification for Insulators/Bushings
IS:335-1983	Specification for new insulating oil
IS :5561	Specification for Insulators/Bushings

Equipments conforming to any other international standard(s) which ensure(s) equal or better quality than the standard(s) mentioned above will also be acceptable and in such case(s) the copy of standards (English version) adopted should be provided.

3. 33 KV CTPT Metering Sets:

A) 33 KV Single Phase Current Transformer (3 Nos. for R, Y & B phases).

The 33 KV current Transformer shall be paper impregnate oil immersed type, single phase 50 HZ conforming to IS:2705/1992 with latest amendment in all respect except where ever modified in this specification.

The 33 KV current Transformer shall have the following technical characteristics/ parameters.

Sr.No.	Particulars	Parameters
i)	Normal system voltage (KV rms)	33
ii)	Highest system voltage (KV rms)	36
iii)	Frequency	50 Hz
iv)	Impulse withstand voltage (KVP) (on assembled CTPT set)	170
v)	i) One minute power frequency dry withstand voltage (on assembled CT-PT set) a) primary (KV r.m.s.) b) secondary (KV r.m.s.) ii) One minute frequency wet withstand voltage (KV Peak) (On assembled CT-PT set)	70 3 Root 2x70 Rms
vi)	Transformation ratio (CT Ratio)	200/5 A, 150/5 A, 100/5 A, 50/5 A & 25/5 A
vii)	Rated output (VA burden)	15 VA
viii)	Class of accuracy	0.5S
ix)	Rated continuous thermal current	1.2 times of rated primary current.
x)	Short time thermal current	18 KA for one second for CT ratio 100/5 A, 50/5 A & 25/5 A. 18 KA for 3 seconds for CT ratio 150/5 A & 200/5 A
xi)	Rated dynamic current	2.5 times of short time thermal current rating.

xii)	Number of cores	One
xii)	Instrument security factor	Not exceeding 5
xiii)	Max. ratio error	As per IS:2705/ 1992
xiv)	Max. phase angle error	As per IS:2705/ 1992
xv)	Max. temp. rise over max. ambient temp. of 50 deg. C at rated continuous thermal current at rated frequency and with rated burden.	As per IS:2705/ 1992

B) 33 KV Voltage Transformers:

33 KV voltage Transformers will be used along with CTs of description stated above. These shall be paper impregnate oil immersed type conforming in all respect to the Indian Standards specification IS:3156/1992 with latest amendment except where modified in this specification.

The 33 KV voltage transformer shall have the following ratings/ technical parameters:

Sr.No	Particulars	Parameters
i)	Nominal system voltage (KV rms)	33
ii)	Highest system voltage (KV rms)	36
iii)	Nos. of phases	three
iv)	Impulse withstand voltage (KVP) (on assembled CTPT set)	170
v)	i) One minute power frequency dry withstand voltage (on assembled CT-PT set) a) primary (KV r.m.s.) b) secondary (KV r.m.s.) b) One minute frequency wet withstand voltage (KV Peak) (On assembled CT-PT set)	70 3 Root 2x70 rms
vi)	Frequency	50 Hz
vii)	Transformation ratio (PT Ratio)	33 KV/ 110V
viii)	Rated output (VA burden)	30 VA per phase
ix)	Class of accuracy	0.5 (As per IS :3156/1992)
x)	Winding connection	Star/Star
xi)	Rated voltage factor and time	1.2 continuous and 1.9 for 30 secs.
xii)	Temp.rise over max. ambient temp.	Within limits of IS :3156/1992
xiii)	Max. Phase angle error	Within limits of IS :3156/1992
xiv)	Ratio error (Max.)	Within limits of IS :3156/1992

4. GENERAL TECHNICAL DESCRIPTION OF 33 KVCT-PT METERING SETS:

- i) The CT PT Metering set shall comply to the latest standards mentioned in the specification and guaranteed technical particulars.
- ii) High voltage winding of 33 KV instrument transformers shall have paper insulation impregnated with oil under vacuum. The paper used for insulation shall be of high insulation grade. The process of impregnation shall be detailed out.
- iii) The core material of CT-PT sets shall be of high grade, non-ageing, electrical silicon steel having low hysteresis loss and high permeability to ensure accuracy at both normal and over current/ voltage.
- iv) The instrument transformers shall be contained in a fully weather proof, outdoor type, platform mounting and also suitable for pole mounting type tank with 6 Nos. of 36 KV class weather proof bushing for incoming and outgoing connections.

- v) The thickness of MS sheet used for fabrication of tank shall be min. 3.15 mm for sides and bottom and 5 mm for top cover.
- vi) The external surfaces of tanks of CT-PT sets shall be painted with one coat of primer and two coats of synthetic enamel paint of shade No.631 of IS:5. The internal surfaces of the tank shall be painted with two coats of a suitable heat resistant oil insoluble paint.
- vii) The metering sets shall be supplied with first filling of insulating oil conforming to IS:335 (including latest amendment).
- viii) The bushings used in the CT-PT sets shall conform to IS:2099, IS:5621 and IS:3347 (latest amendments). These shall be suitable for operation in heavily polluted atmosphere with Creepage distance of 25 MM/KV.
- ix) The minimum clearance between phases and phase to earth as specified in the relevant ISS should be maintained.
- x) The paper impregnated oil immersed type instrument transformers shall be complete with all fittings and accessories.
- xi) The 33 KV CT-PT sets shall be hermetically sealed type (should not communicate with atmospheric air) in construction without any oil conservator. The quality and work-man-ship shall be of high standard.
- xii) CT-PT sets shall be used for 3 phase 4 wire KWH metering,, as such 33 KV CT PT sets shall have 3 Nos. CTs .
- xiii) The 33 KV CT PT sets shall have one No. of Three Phase Potential Transformer. The primary winding of PT shall be connected in star formation in the tank with isolated neutral.
- xiv) The neutral of primary PT winding shall be floating. The neutral of PT Secondary winding shall be earthed.
- xv) The secondary winding neutral of PT and secondary terminals of CTs and PTs shall be brought out in one single secondary terminal box through 3 KV bushings. The terminals shall be marked as per ISS and supporting marking plate with earth terminal shall be provided. The secondary terminal box compartment shall be divided in two portions - One portion containing secondary of all CTs and the other portion shall contain all secondary PT connections with neutral and one body earthed. The whole compartment shall be covered by one bolted cover with sealing arrangement. At least two bolts at diagonally opposite corners of secondary terminal box shall be suitable for sealing arrangement. All other bolted covers and inspection windows covers, where provided shall also have sealing bolts for sealing purpose. Suitably shorting links shall be provided for individual CT shorting and PT secondary neutral.
- xvi) The secondary terminal box shall have cable gland/ flange suitable to receive two Nos. control cable of size 6 core x 4 sq.mm & 4 core X 2.5 sq. mm at the bottom of the secondary box for metering connections to secondary winding of 33 KV CT-PT circuits respectively.
- xvii) The 33 KV CT PT Set shall have 3 Nos. incoming and 3 Nos. outgoing outdoor type bushing. 33 KV CT-PT Sets shall have 6 Nos. bimetallic terminal connectors suitable for DOG/PANTHER conductor. These should be type tested from CPRI/ NABL accredited Labs and reports should not be older than **7 years** for Short Circuit Test. Inspecting officer shall verify the original type test reports at the time of inspection for terminal connectors & bushings.
- xviii) No oil drain plug at the bottom of the CT-PT Sets be provided.
- xix) Embossing/ punching with minimum height of 10mm of Sr.No., ratio & TN No. be done on the tank of the CT-PT Sets.
- xx) Manufacturer's name in short should be embossed/ punched.

- xxi) CT Ratio should be painted on tank body so that it should be visible clearly.
- xxii) The under base of CT-PT Sets shall be provided with 2 Nos. 100x50x6mm channels as shown in the figures at Annexure-I to make them suitable for fixing to a platform or plinth. These channels shall be provided through continuous welding with tank of the CT-PT Sets.
- xxiii) The HV metal parts (Primary Terminals) shall be of 16 mm dia and made of copper. The primary terminal shall be along the entire length of bushing.
- xxiv) The following sealing arrangement for providing seals on each 33 KV CT-PT set shall be made by the manufacturer.
 - i) 4 Nos. holes of 2.5 mm dia on each bushing clamp bolts of 6 nos. HT bushings for providing two polycarbonate seals at diagonally opposite bolts of each bushing clamp in M&P lab after successful testing as required.
 - ii) 4 Nos. holes of 2.5 mm dia on the bolts provided at four corners of top cover for providing two polycarbonate seals at diagonally opposite corner of CT-PT set by the inspecting officer after successful testing and providing polycarbonate seals in M&P lab after successful testing as required.
 - iii) 4 nos. sealing holes on the name plate (R&D plate so that our inspecting officer may provide numbered seal on one side of the plate covering top & bottom holes whereas on the remaining two holes of other side, the one numbered seal will be provided by MT Lab after successful testing.

5. FITTING AND ACCESSORIES:

The outdoor platform/ pole mounting type CT-PT metering sets shall be complete with tank, fittings, accessories as detailed below :

- 1 No. Electrically welded sheet steel tank/ enclosure for accommodating above instrument transformers with suitable bolted cover.
- 6 Nos. Outdoor single terminal **porcelain / Cycloaliphatic** bushing of reputed make without arcing horns. 3 Nos. for incoming and 3 Nos. for outgoing.
- 1 No. Secondary terminal box. The terminal box opening door/cover shall have suitable sealing arrangement. The necessary gland/ socket shall be in the scope of supply.
- 1 No. Oil filling hole with cap/plug.
- 1 No. Toughened prismatic oil level indicator with min. oil level marking
- 2 No. Lifting lugs for lifting the complete CT-PT unit.
- 2 Nos. Earthing terminals.
- 1 Set Under base channels with suitable fixing holes for mounting on plat-form/poles.
- 1 Set Detachable rollar assembly.
- 1 No. Rating and diagram plate.
- 6 Nos. Bimetallic Terminal Connectors suitable for Dog/ Panther conductor.

6. BUSHING:

The bushing shall confirm to IS:5621-1980 and IS:2099-1986 and its subsequent amendment, if any, the bushing shall be of standard make. The make and catalogue No. of bushing shall be clearly stated in the guaranteed technical particulars. The dimensions of 33 KV class bushings and their related parts for 33 KV CT-PT sets shall conform to the relevant Indian Standards as detailed below:

Voltage class	Indian Standard	
36 KV bushing	For porcelain parts IS:3347 (Part-V) Sec.I-1973 or the latest version thereof	For metal parts IS:3347 (Part-III) Sec.II-1967).

The minimum electrical clearance of 400 mm for 33KV sets between phases shall be obtained with the bushings mounted and phase to earth clearance should be maintained as specified in relevant IS/ Indian Electricity rules.

7. GUARANTEED TECHNICAL PARTICULARS, DRAWINGS AND QUALITY ASSURANCE PLAN:

Guaranteed Technical Particulars in the proforma enclosed with this specification shall be furnished along with the detailed general arrangement dimensional drawings mounting arrangements, connection diagrams and quality assurance plan etc.

8. INSTRUCTION MANUALS:

The successful tenders shall have to supply required number of operation and maintenance instruction manuals along with the requisite sets of approved drawings of the equipments covered under this specification. One set of above manuals and drawings shall also be sent along with the delivery of each 33 KV unit to the consignee.

9. INSPECTION, TESTING AND CHECKING:

- i) Routine tests as per relevant standard along with accuracy test of CT as per IS:2705 (Pt-II)-1992 and that of PT IS:3156 (Pt.II)-1992 shall be carried out on each equipment covered by this specification in the presence of inspecting officer. All test reports shall be submitted and got approved from the SE(M&P) before despatch of the equipment.
- ii) The supplier shall simulate single phase condition in their laboratory for testing one 33 KV CT-PT set of any ratio from each lot offered for inspection under such condition for 24 hours. The errors of PT shall be measured before and after application of single phasing condition for at least 24 hours and results shall be within permissible limits of specified accuracy class. This test shall be done as acceptance test.
- iii) One CT-PT set of each rating in each offered lot should be subjected to temperature rise test .The test shall be carried out simultaneously application of rated current (1.2 Ib) and rated voltage (36 KV) and also ISF test, at firm's works free of cost.
- iv) During routine/ acceptance test, errors for CTs shall be conducted at 1%, 5%, 20%, 100% and 120% of rated current and in case of PT at 80%, 100% and 120% of rated voltage.
- v) Algebraic summation of errors of standard CTs/PTs to the errors observed on CTs/PTs under test should be made to get final errors on specified percentage current/ voltage/ burden if class of accuracy of standard CT-PT is less than 10 times of the accuracy of CT-PT set under test.
- vi) Leak test :- One CT-PT set of each rating in each offered lot should be subjected to 'Leak Test' through Nitrogen gas for a pressure of 10 PSI (Pound sq. inch) for half an hour and pressure shall not drop more than 2 PSI. There should be no leakage observed at any part of CT-PT set.
- vii) One CT-PT set of each rating in each offered lot shall be opened for verifying the diameter and cross sectional area of primary coil conductors of CT including verification of GTP.
- viii) One sample of oil shall be taken from each ratio in each lot and shall be tested for a) Break down voltage b) Tan delta at 90 Deg.C.

The oil supplied with CT PT set shall be of EHV grade Transformer oil suitable for insulation and coding of the electric transformers of extra high voltage and shall conform to IS 335 (with latest amendments)

If CT-PT set fails in any of the above tests/verification at works, entire lot shall be rejected.

During the inspection at firm's works, inspecting officer / agency shall provide polycarbonate seals on each CT-PT set as under -

- i) One polycarbonate seal on one side of the plate covering top & bottom holes.
- ii) Two polycarbonate seal at diagonally opposite corner of top cover of CT-PT set.

Further, it shall be ensured that all meters and instruments used during inspection/ testing are calibrated from NABL approved test house and date of calibration should not be older than one year at the date of presenting the same to the inspecting officer.

10. COMPLETENESS OF EQUIPMENT:

Any fittings, accessories or apparatus which may not have been specifically mentioned in the specification for 33 KV metering sets covered under the scope of this enquiry, but which are usual or necessary in the equipment of similar type shall be deemed to be included in the contract and shall be supplied by the contractor without extra charges. All plants and equipment shall be complete in all respect whether such details are mentioned in the specification or not.

11. NAME PLATE AND MARKING:

- a) The equipment shall have a non detachable type name plate which should be clearly visible and effectively secured against removal having markings as per requirement of IS. In addition, Sr. No., Ratio and date of despatch shall have to be engraved on bushing side of tank with letters of suitable depth & 25 mm height filled with red colour.
- b) The main and load are to be stencilled on top cover on main and load side respectively.
- c) A sticker reading as under must be provided in the HV neutral compartment of secondary box.
- d) Two additional identification plates of size 4'x4' duly welded on both sides smaller vertical faces of the tank of CT-PT set with the following details engraved may be provided:
 - i) Sr. No.
 - ii) Ratio
 - iii) Make
 - iv) TN No.

“DO NOT REMOVE EARTH LINK WHEN HV TERMINAL IS LIVE” be given in Red colour.

JODHPUR VIDYUT VITRAN NIGAM LIMITED
A Govt. of Rajasthan Undertaking
Prescribed technical specification for supply of
(Name of Material/Equipment/Machinery / T&P etc.)

S.No.	Technical specification material/equipment/ Machinery/T&P shall confirm	Name of IS/other standard specification to which material should confirm	Other particularsto which if any.
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Certified that we agree to all the aforesaid technical specification except at S.No..... for which our technical specification shall be as under:-

S.No.	Technical specification material/equipment/ Machinery/T&P shall confirm	Name of IS/other standard specification to which material should confirm	Other particularsto which if any.
-------	---	--	-----------------------------------

(Signature)
Name & Designation
with seal of the bidder.

SECTION-III A**QUALIFICATION REQUIREMENT/ TECHNICAL CONDITIONS FOR EMPANELMENT OF VENDORS FOR SUPPLY OF 11 KV & 33 KV CT-PT METERING SETS IN JODHPUR DISCOM OF RAJASTHAN, FROM WHOM THE APPLICANT CAN PURCHASE THE SAME FOR ELECTRIC CONNECTION TN- 1767**

The bidder should fulfill following qualifying requirements for successful participation in the tender along with relevant documentary evidence supporting each qualifying requirement without which the offer shall be considered non-responsive & rejected.

- I) The bidder should be a Manufacturer.
- II) The bidder should have designed, manufactured / fabricated, tested and supplied to utility / Discoms / Govt. Departments at least 300 Nos. CTPT sets of 11KV or higher voltage CT-PT Sets of various ratios for empanelment of 11 KV CTPT Sets and at least 100 Nos. CTPT sets of 33 KV or higher voltage CT-PT Sets of various ratios for empanelment of 33 KV CTPT Sets in last three financial years from the date of opening of bid. In support of fulfillment of the past supply criteria, the bidder shall furnish documentary evidence in the form of certificate from Chartered Accountant in the following manner:-
1. The CA certificate should be furnished by the firm duly notarized by the notary public along with the signature of CA.
 2. The CA certificate should be furnished on the letter head of CA and information should be in prescribed format of QR.
 3. The CA certificate should have the membership no. with name & address of the CA.
 4. The CA certificate clearly indicate the quantity supplied, type of material supplied, voltage, current and accuracy class etc. of the material year wise.
 5. The CA certificate should be signed by concerning firm/supplier along with seal.

Note:-The material supplied and accepted for same or better rating for Turnkey projects to a licensed power utility/Govt. shall be considered for the purpose of evaluation criteria. The certificate given by C.A. shall indicate above quantity **separately**.

- III) The bidders should be qualified, not be insolvent, not be in receivership, not be bankrupt or being wound up, should not have affairs administered by a court or a judicial officers, should not have business activities suspended, should not be blacklisted or debarred by any utility/government agency, should not have a conflict of interest. For this bidder is required to furnish a Declaration as per Appendix-B, on Rajasthan Non-Judicial Stamp Paper of Rs. 100/ (excluding surcharge on Stamp Paper, as per rules).
- IV) The bidder shall deliver 5 Nos. CTPT sets of lowest ratio for which they have offered in the MT lab, Jodhpur as a pre-bid samples at least one day prior to date of opening of bid for their testing and checking as per technical requirements of TN-1767. However, the bidder who have already supplied CTPT sets of lowest ratio for which they have offered, in any Discom of Rajasthan in last 3 years, will be exempted.
- V) The bidder shall furnish valid and authenticated type test certificates **for the lowest ratio or better (of lower ratio)** of complete unit of 11 KV & 33 KV CT-PT set separately for which they have required empanelment for following tests from a Govt. approved / a Govt. recognized / NABL Accredited laboratory / ILAC i.e. International Laboratory Accreditation Cooperation (in case of foreign laboratory) of lowest ratio and design of offered material / equipment:
- i) Short Time Current Test.
 - ii) Lightning Impulse voltage withstand Test.
 - iii) Temperature Rise Test.
 - iv) Wet Power Frequency Voltage Withstand Test.
 - v) Determination of Errors according to the requirement of the appropriate Accuracy Class.
 - vi) Instrument Security Factor Test.

Such type test certificates should not be older than **7 years** as on the date of bid opening. For this purpose date of conducting type test will be considered.

The type test certificate by in house laboratory of bidding firm even if it is a Govt. approved / Govt. recognized / NABL accredited laboratory / ILAC accredited, shall not be accepted. This will not apply if tendering firm is Govt. company / public Sector undertaking.

The bidder should furnish documentary evidence in support of the laboratory whose type test have been furnished, that the said laboratory is a Govt. / a Govt. approved / a Govt. recognized / NABL accredited laboratory / ILAC accredited (in case of foreign laboratory).

The type test certificates shall be furnished either in original or copy duly attested by notary.

- VI) The type tests certificates of bushings not older than **seven** years shall also be furnished along with tender.
- VII) The bidder should possess adequate testing facilities for carrying out routine & acceptance test of items as per relevant standard at their works. The bidder shall furnish documentary evidence in support for conducting routine & acceptance test.
- VIII) The bidder must clearly fill up each and every particular of Guaranteed Technical Particulars annexed with Technical Specification otherwise he will be responsible for Technical Non-Responsiveness.
- IX) A Bidder debarred under section 46 of the RTPP Act 2012 shall not be eligible to participate in any procurement process undertaken by-

- (a) any Procuring Entity, if debarred by the State Government; and

- (b) a Procuring Entity if debarred by such procuring Entity

- X) The bidder who have been black listed in any of the state Discom or with whom business relations have been severed or debarred in Jodhpur Discom shall not be considered.
- XI) The Vender who will be qualified for empanelment and will be listed as approved Vendor for supply of 11 KV & 33 KV CT-PT Sets should supply the material strictly as per technical specification enclosed at Annexure-A (In case of 11 KV CT-PT sets) and Annexure-B (In case of 33 KV CT-PT sets). The empanelment will be done for 1 year initially and may be extended for three months with mutual consent of Vender and JdVVNL.

Schedule – V

JODHPUR VIDYUT VITRAN NIGAM LIMITED**A Govt. of Rajasthan Undertaking**

Statement of guaranteed technical particulars and other performance data for supply of
 (Name of material) against specification
 no.....

S.No. Particulars of technical & other performance data guaranteed.

Certified that we agree to all the aforesaid technical particulars and other performance data except following:-

S.No.	Particulars of technical & other Performance data	Reasons for deviations/ departure.
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(Signature)
Name & Designation
with seal of the bidder

SCHEDULE VA

**GUARANTEED AND OTHER TECHNICAL PARTICULARS FOR
11KV CT-PT SETS**

(I) FOR 11 KV SINGLE PHASE CURRENT TRANSFORMERS

PARTICULARS				
NAME & ADDRESS OF MANUFACTURER.				
MANUFACTURER'S TYPE & DESIGNATION.				
NOMINAL SYSTEM VOLTAGE (KV rms)				
HIGHEST SYSTEM VOLTAGE (KV rms)				
INSULATION LEVEL :				
a) IMPULSE WITHSTAND VOLTAGE(KV PEAK)				
b) ONE MINUTE POWER FREQUENCY DRY WITHSTAND VOLTAGE (KV r.m.s)				
(i) PRIMARY(KV rms)				
(ii) SECONDARY (KV rms)				
a) ONE MINUTE POWER FREQUENCY WET WITHSTAND VOLTAGE (KV Peak)				
RATED FREQUENCY (Hz)				
TRANSFORMATION RATIO.				
RATED OUTPUT (VA BUDEN)				
CLASS OF ACCURACY.				
SHORT TIME THERMAL CURRENT FOR THREE SECOND.(KA rms)				
RATED DYNAMIC CURRENT (KA PEAK)				
RATED CONT. THERMAL CURRENT (KA rms)				
MAX. INSTRUMENT SECURITY FACTOR.				
DETAIL OF WINDINGS.				
PARTICULARS	CT RATIO	No. of Turns	Cross sectional Area of each Turn in Sq.mm (Aprox.)	Total weight of winding in Kg. per Unit
i) PRIMARY	200/5 A 100/5 A 50/5 A 15/5 A 5/5 A			
ii) SECONDARY	200/5 A 100/5 A			

	50/5 A 15/5 A 5/5 A		
GURANTEED RATIO ERROR (MAX.)			
GURANTEED PHASE ANGLE ERROR (MAX.)			
MAX. TEMP. RISE OF THE WINDING OVER AN AMBIENT TEMP. OF 50 DEG. C AT RATED CONTINOUS THERMAL CURRENT, AT RATED FREQUENCY & WITH RATED BURDEN.			
i) INSULATION CLASS			
ii) INSULATION MATERIAL USED.			
CORE DETAILS:			
i) MATERIAL			
ii) WEIGHT OF CORE			
TYPE OF INSULTING OIL WHETHER AS PER IS-335 AND LATEST AMENDMENT.			
WHETHER SHORT CIRCULATING ARRANGMENT FOR CTs.			
BUSHING DETAIL			
a) MAKE			
b) CATALOGUE NO.			
c) TOTAL CREEPAGE DISTANCE (mm)			
d) IS TO WHICH BUSHING CONFORMS.			
e) ARCING DISTANCE (mm)			
f) MAX. CREEPAGE FACTOR.			
g) Type of Bushing (porcelain / Cycloaliphatic)			
WHETHER CURRENT TRANSFORMER USED ARE OF RESIN CAST OIL IMMERSED TYPE OR OTHERWISE.			
IS TO WHICH CT CONFORMS.			
MAKE OF TERMINAL CONNECTOR			
(II) FOR SINGLE PHASE POTENTIAL TRANSFORMERS			
NAME & ADDRESS OF MANUFACTURER.			
MANUFACTURER'S TYPE & DESIGNATION.			
NOMINAL SYSTEM VOLTAGE (KV rms)			
HIGHEST SYSTEM VOLTAGE (KV rms)			
INSULATION LEVEL :			
a) IMPULSE WITHSTAND VOLTAGE(KV PEAK)			
b) ONE MINUTE POWER FREQUENCY WITHSTAND VOLTAGE (KV PEAK)			
RATED FREQUENCY (Hz)			
RATED TRANSFORMATION RATIO.			
RATED OUTPUT (VA BUDEN PER PHASE)			

CLASS OF ACCURACY.	
RATED VOLTAGE FACTOR AND TIME.	
WINDING CONNECTIONS	
a) PRIMARY	
b) SECONDARY	
DETAIL OF WINDINGS.	
PARTICULARS PT RATIO	NO.OF TURNS CROSS SECTIONAL AREA OF EACH TURN TOTAL IN SQ.MM. WEIGHT OF WDG. In Kg. (approx.)
i) PRIMARY WINDING (COPPER) 11 KV	
ii) SECONDARY WINDING (COPPER) 110 V	
GURANTEED RATIO ERROR (MAX.)	
GURANTEED PHASE ANGLE ERROR (MAX.)	
GURANTEED MAX. TEMP. RISE OF THE WINDING OVER AN AMBIENT TEMP. OF 50 DEG. C AT RATED CONTINUOUS THERMAL CURRENT, AT RATED FREQUENCY & WITH RATED BURDEN.	
BUSHING DETAIL	
a) MAKE	
b) CATALOGUE NO.	
c) TOTAL CREEPAGE DISTANCE (mm)	
b) IS TO WHICH BUSHING CONFORMS.	
e) ARCING DISTANCE (mm)	
f) MAX. CREEPAGE FACTOR.	
g) Type of Bushing (porcelain / Cycloaliphatic)	
i) INSULATION CLASS	
ii) INSULATION MATERIAL USED.	
CORE DETAILS:	
i) MATERIAL	
ii) WEIGHT OF CORE	
WHETHER ANY FUSE HAVE BEEN PROVIDED IN SECONDARY SIDE OF PT ?	
WHETHER NEUTRAL OF PT FOR HT SIDE IS ISOLATED/FLOATED ?	
III OTHER PARTICULARS FOR 11 KV COMPLETELY ASSEMBLED CT-PT SETS.	
PARTICULARS	
OVERALL DIMENSIONS OF CT-PT SET.	
MOUNTING DETAILS.	

i) TOTAL MASS OF COMPLETELY ASSEMBLED CT-PT SET WITH OIL.	
ii) MASS OF IST FILLING INSULATION OIL.	
iii) VOLUME OF OIL (LITRES)	
i) MATERIAL OF TANK/ENCLUSURE SHEET.	
ii) THICKNESS OF THE TANK SHEET.(mm)	
a) BOTTOM.	
b) TOP COVER	
c) SIDES	
MAKE/MANUFACTURER'S NAME FOR INSU- LATING OIL TO BE USED IN CT- PT SETS.	
WHETHER ALL THE FITTINGS AND ACCESSORIES AS PER CLAUSE 3.06 OF SPECIFICATION PROVIDED ?	
WHETHER CT-PT SETS ARE SUITABLE FOR SATISFACTORY OPERATION OUNDER ABNORMAL SYSTEM CONDITION VIZ., SINGLE PHASING SUPPLY ARRANGEMENT BY LOOPING SUPPLY PHASE WITH OTHER LINE PHASE ?	
MIN. ELECTRICAL CLEARANCE BETWEEN PHASES. WITH BUSHINGS MOUNTED (MM)	
MIN. ELECTRICAL CLEARANCE BETWEEN PHASES. TO EARTH WITH BUSHING MOUNTED (MM) ?	
WHETHER OIL CONSERVATOR PROVIDED ON CT-PT SET ?	
ARRANGEMENT PROVIDED TO TAKE CARE OF EXPANSION AND CONTRACTION IN OIL.	
WHETHER PRESSURE RELIEF DEVICE PROVIDED ?	
TEST RESULTS OF OIL AS PER IS : 335	
BREAK DOWN VOLTAGE	
TAN DELTA AT 90 DEG. C	
COLOUR OF OIL (SHALL BE COLOURLESS)	

GUARANTEED AND OTHER TECHNICAL PARTICULARS FOR 33 KV CT-PT SETS**(I) FOR 33 KV SINGLE PHASE CURRENT TRANSFORMERS**

S.No.	PARTICULARS		TO BE FURNISHED BY BIDDER		
1	NAME & ADDRESS OF MANUFACTURER.				
2	MANUFACTURER'S TYPE & DESIGN				
3	NOMINAL SYSTEM VOLTAGE (KV rms)				
4	HIGHEST SYSTEM VOLTAGE (KV rms)				
5	INSULATION LEVEL :				
	a) IMPULSE WITHSTAND VOLTAGE (KV PEAK)				
	b) ONE MINUTE POWER FREQUENCY DRY WITHSTAND VOLTAGE (KVrms)				
	(i) PRIMARY (KVrms)				
	(ii) SECONDARY (KVrms)				
	c) ONE MINUTE POWER FREQUENCY WET WITHSTAND VOLTAGE (KVrms)				
6	RATED FREQUENCY (Hz)				
7	TRANSFORMATION RATIO.				
8	RATED OUTPUT (VA BURDEN)				
9	CLASS OF ACCURACY.				
10	SHORT TIME THERMAL CURRENT FOR ONE SECOND (KA rms)				
11	RATED DYNAMIC CURRENT (KA _{peak})				
12	RATED CONT. THERMAL CURRENT (KA _{rms})				
13	MAX. INSTRUMENT SECURITY FACTOR.				
14	DETAIL OF WINDINGS.				
	PARTICULARS	CT RATIO	NO.OF TURNS	CROSS SECTIONAL AREA OF EACH TURN IN SQ.MM. (Approx.)	TOTAL WEIGHT OF WDG. IN Kg. PER UNIT
	i) PRIMARY	200/5 A			
		150/5 A			
		100/5 A			
		50/5 A			
		25/5 A			
	ii) SECONDARY	200/5 A			
		150/5 A			
		100/5 A			

		50/5 A		
		25/5 A		
15	GUARANTEED RATIO ERROR (MAX.)			
16	GUARANTEED PHASE ANGLE ERROR (MAX.)			
17	MAX. TEMP. RISE OF THE WINDING OVER AN AMBIENT TEMP. OF 50 DEG. C AT RATED CONTINUOUS THERMAL CURRENT AT RATED FREQUENCY & WITH RATED BURDEN.			
18	i) INSULATION CLASS			
	ii) INSULATION MATERIAL USED.			
19	CORE DETAILS:			
	i) MATERIAL			
	ii) WEIGHT OF CORE			
20	TYPE OF INSULATING OIL WHETHER AS PER IS-335 AND LATEST AMENDMENT.			
21	WHETHER SHORT CIRCULATING ARRANGMENT FOR CTs IS AS PER SPECIFICATION.			
22	BUSHING DETAIL			
	a) MAKE			
	b) CATALOGUE NO.			
	c) TOTAL CREEPAGE DISTANCE (mm)			
	d) IS TO WHICH BUSHING CONFORMS.			
	e) ARCING DISTANCE (mm)			
	f) MAX. CREEPAGE FACTOR.			
	g) Type of Bushing (porcelain / Cycloaliphatic)			
23	WHETHER CURRENT TRANSFORMER USED ARE OF RESIN CAST OIL IMMersed TYPE OR OTHERWISE.			
24	IS TO WHICH CT CONFORMS.			
25	MAKE OF TERMINAL CONNECTORS.			

(II) FOR 33 KV THREE PHASE POTENTIAL TRANSFORMERS

S.No.	PARTICULARS	TO BE FURNISHED BY BIDDER
1	NAME & ADDRESS OF MANUFACTURER.	
2	MANUFACTURER'S TYPE & DESIGN.	
3	NOMINAL SYSTEM VOLTAGE (KV rms)	
4	HIGHEST SYSTEM VOLTAGE (KV rms)	
5	INSULATION LEVEL :	
	a) IMPULSE WITHSTAND VOLTAGE(KV PEAK)	

	b) ONE MINUTE POWER FREQUENCY WITHSTAND VOLTAGE (KV PEAK)				
6	RATED FREQUENCY (Hz)				
7	RATED TRANSFORMATION RATIO.				
8	RATED OUTPUT (VA BURDEN PER PHASE)				
9	CLASS OF ACCURACY.				
10	RATED VOLTAGE FACTOR AND TIME.				
11	WINDING CONNECTIONS				
	a) PRIMARY				
	b) SECONDARY				
12	DETAIL OF WINDINGS.				
	Particulars	PT Ratio	No. of Turns	Cross-Sectional Area of Each (Sq.mm)	Total Wt. of winding in KG (Approx.)
	i) PRIMARY WINDING (COPPER).				
	ii) SECONDARY WINDING (COPPER). 110 V				
13	GURANTEED RATIO ERROR (MAX.)				
14	GURANTEED PHASE ANGLE ERROR (MAX.)				
15	GURANTEED MAX. TEMP. RISE OF THE WINDING OVER AN AMBIENT TEMP. OF 50 DEG. C AT RATED CONTINUOUS THERMAL CURRENT, AT RATED FREQUENCY & WITH RATED BURDEN.				
16	BUSHING DETAIL				
	a) MAKE				
	b) CATALOGUE NO.				
	c) TOTAL CREEPAGE DISTANCE (mm)				
	d) IS TO WHICH BUSHING CONFIRMS.				
	e) ARCING DISTANCE (mm)				
	f) MAX. CREEPAGE FACTOR.				
	g) Type of Bushing (porcelain / Cycloaliphatic)				
17	i) INSULATION CLASS				
	ii) INSULATION MATERIAL USED.				
18	CORE DETAILS:				
	i) MATERIAL				
	ii) WEIGHT OF CORE				
19	WHETHER ANY FUSE HAVE BEEN PROVIDED IN SECONDARY SIDE OF PT ?				
20	WHETHER NEUTRAL OF PT FOR HT SIDE IS ISOLATED/FLOATED ?				

(III) OTHER PARTICULARS FOR 33 KV COMPLETELY ASSEMBLED CT-PT SETS.

S. No	PARTICULARS	TO BE FURNISHED BY BIDDER
1	NAME & ADDRESS OF MANUFACTURER.	
2	OVERALL DIMENSIONS OF CT-PT SET.	
3	MOUNTING DETAILS.	
4	i) TOTAL MASS OF COMPLETELY ASSEMBLED CT-PT SET WITH OIL.	
	ii) MASS OF IST FILLING INSULATION OIL.	
	iii) VOLUME OF OIL (LITRES)	
5	i) MATERIAL OF TANK/ENCLUSURE SHEET.	
	ii) THICKNESS OF THE TANK SHEET.(mm)	
	a) BOTTOM.	
	b) TOP COVER	
	c) SIDES	
6	MAKE/MANUFACTURER'S NAME FOR INSU- LATING OIL TO BE USED IN CT-PT SETS.	
7	WHETHER ALL THE FITTINGS AND ACCESSORIES AS PER CLAUSE 3.06 OF SPECIFICATION PROVIDED?	
8	WHETHER SEALING ARRANGEMENT IS AS PER CL.3.05 XXV OF SPECIFICATION	
9	WHETHER CT-PT SETS ARE SUITABLE FOR SATISFACTORY OPERATION UNDER ABNORMAL SYSTEM CONDITION VIZ., SINGLE PHASING SUPPLY ARRANGEMENT BY LOOPING SUPPLY PHASE WITH OTHER LINE PHASE ?	
10	MIN. ELECTRICAL CLEARANCE BETWEEN PHASES. WITH BUSHINGS MOUNTED (MM)	
11	MIN. ELECTRICAL CLEARANCE BETWEEN PHASES. TO EARTH WITH BUSHING MOUNTED (MM)?	
12	WHETHER OIL CONSERVATOR PROVIDED ON CT-PT SET?	
13	ARRANGEMENT PROVIDED TO TAKE CARE OF EXPANSION AND CONTRACTION IN OIL.	
14	WHETHER PRESSURE RELIEF DEVICE PROVIDED?	
15	TEST RESULTS OF OIL AS PER IS : 335	
a)	BREAK DOWN VOLTAGE	
b)	TAN DELTA AT 90 DEG. C	
c)	COLOUR OF OIL (SHALL BE COLOURLESS)	

JODHPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

DEPARTURE/DEVIATION FROM TECHNICAL SPECIFICATION

The bidder shall state under this schedule the departure from the Purchaser's specification in respect of technical is as under:-

S.No.	Main Deviations from Technical Specification.
-------	---

Certified that we agree to all the technical specification of the NIT except for the deviation to the extent indicated above.

(Signature)
Name & Designation
with seal of the bidder.

JODHPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

DEPARTURE FROM COMMERCIAL TERMS & CONDITIONS OF THE SPECIFICATION

The bidder shall state under this schedule the departure from the Purchaser's specification in respect of Commercial terms & conditions:-

S.No.	Main Deviations from Specification.
-------	-------------------------------------

Certified that we agree to all the commercial terms & conditions as laid down in General Conditions of Contract to the specification except for the deviation to the extent indicated above.

(Signature)
Name & Designation
with seal of the bidder.

Schedule – VII**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking
LIST OF PAST SUPPLIES**

The bidder shall state under this schedule whether material and equipments, similar to those offered in the tender have been previously supplied by him. A list shall be given of such orders executed by him together with information regarding the names of purchasing organizations, quantities supplied and when the supplies were effected. This list should be in form given below:-

S.No.	Detailed particulars items supplied	Qty in sets	Order No. & Date	Name & details of purchasing authority	Date of Completion	of
1	2	3	4	5	6	

If executed partially mentioned	whether still to be executed order	Delivery stipulated in	Remarks to be (Qty. in sets)
7	8	9	10

Note: Separate schedules are to be furnished by the bidder for past supply to the JDVVNL, Jodhpur other State Electricity Boards and other Departments /Organisations.

(Signature)
Name & Designation
with seal of the bidder.

TN-1767

Schedule-VII-A

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. _____ (Complete with address) have manufactured and supplied the goods/ equipments/ material during the following financial year(s) to the Electrical Utilities/ Government Departments/ Discoms/ SEBs as detailed out below:

S. No	Financial year in which material supplied	Detailed particulars of item(s) supplied	Name & particulars of purchasing authority	Order No. & Date against which item(s) supplied	Unit	Ordered		Actual Supplied Up to		Remarks
						Qty	Value (Rs.)	Qty	Value (Rs.)	

Signature

Name & Designation
With Seal of the Bidder
Date _____
Place _____

Signature & seal of C.A.

Name:
Address
Membership No.
UDIN No.

The above particulars are true and correct based on explanations, records and books of accounts produced before us. Further the above certificate issued on the request of the company.

CA Firm(_____)

Note:- The C.A. certificate must be signed by the bidder and C.A. firm on the letter head of C.A. The details i.e. address of C.A. & membership No. shall clearly be mentioned on C.A. certificate. In case C.A. certificate is not signed by the bidder/furnished without membership No. & address of C.A. then same may not be considered for which responsibility rests with the bidder.

Schedule-VII B

**UNDERTAKING FOR CA CERTIFICATE (TO BE FURNISHED ON NON-JUDICIAL STAMP
WORTH Rs.100/- & DULY NOTARIZED)**

I/WE UNDERTAKE THAT THE CA CERTIFICATE SUBMITTED AS PER THE REQUIREMENT OF PRE-QUALIFICATION REQUIREMENTS, FOR ADJUDGING THE PAST SUPPLIES ,UNDER THE SUBJECT TENDER, TN-_____ , IS CORRECT AND I, UNDERSIGNED WILL BE SOLELY RESPONSIBLE FOR ANY DEVAITION/ DISCREPANCY/ IN-CORRECT INFORMATION , IF EVER NOTICED IN THE CA CERTIFICATE.

FURHER, IN CASE, IF ANY DEVAITION/DISCREPANCY/IN-CORRECT INFORMATION IS NOTICED IN THE CA CERTIFICATE FURNISHED WITH THE BID, AT ANY STAGE DURING PROCESSING/ CURRENCY OF TENDER, DISCOM CAN TAKE THE ACTION AGAINST THE FIRM

M/s _____

_____ AS PER THE RULES &
REGULATIONS.

(SIGNATURE)
NAME & DESIGNATION
WITH SEAL OF THE BIDDER

Schedule – IX**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking****List of Equipments and Technical Hands Available with the Firm****(To be filled in by the bidders & enclosed with the bid**

Manufacturers and / or their authorized agents who are quoting against this bid are requested to furnish the following information along-with the bid. The Purchaser will have the discretion to ignore the bid without the under noted particulars and/or ignore the bid particulars.

1.	Name and Address of Manufacturer (With landline, fax and mobile no.)	
2.	Official email ID	
3.	GSTIN No.	
4.	Whether firm is proprietorship/partnership/ Limited (Please give details and also enclose copy of memorandum of constitution of firm along with name of directors/ partners/proprietor & their address.	
5.	Place where works exist (indicate the name of the only one works from where you want to supply the offered material).	
6.	Details of machinery particularly with B.H.P. of each item installed.	
7.	Details of staff employed in the works	
8.	Date when started the manufacturing of item under reference	
9.	List of items manufactured.	
10.	Literature and drawings of items manufactured showing their description, size, design and other important technical particulars	
11.	Details of order so far, executed alongwith the names of organization to whom supplied.	
12.	Manufacturing capacity.	
13.	Is the workshop open for inspection by the representative of the board, if required?	
14.	Statement of financial resources and Banking Reference along with Balance-Sheet for previous two years	
15.	Testing facilities available for the manufactured articles in the testing laboratory of works.	
16.	Whether the Firm is a small/medium/large scale industry.	
17.	Registration No. with :-	
	i. Small Scale, National/State.	
	ii) DGTD	
	iii) State Industries Department	

(Signature)

Name & Designation
with seal of the bidder.

Schedule - X**GENERAL PARTICULARS ABOUT THE TENDER IN BRIEF**

**JODHPUR VIDYUT VITARAN NIGAM LIMITED
OFFICE OF THE SUPERINTENDING ENGINEER (MM&C)
NEW POWER HOUSE, INDUSTRIAL AREA, JODHPUR –342 003**

TELEPHONE: 0291-2651376

FAX: 0291-2746539

BID DOCUMENTS FOR EMPANELMENT OF VENDORS FOR SUPPLY OF 11 KV & 33 KV CT-PT METERING SETS IN JODHPUR DISCOM OF RAJASTHAN, FROM WHOM THE APPLICANT CAN PURCHASE THE SAME FOR ELECTRIC CONNECTION UNDER SPECIFICATION NO. JDVVNL/SE (MM&C)/TN-1767

NIT No.	TN-1767
Cost of Specification	Rs. 2,950.00 (Two Thousand Nine Hundred & Fifty only) For MSME of Rajasthan: Rs. 1,475 (One Thousand Four Hundred & Seventy Five only)
Processing of RISL	Rs. 1,000.00 per set (One Thousand only)
Bid security	i) General Bidder : Rs. 1,00,000.00 ii) Sick Unit of Rajasthan : Rs. 50,000.00 iii) SSI unit of Rajasthan: Rs. 25,000.00
Validity	120 days from the next date of opening of techno-commercial bid.

The micro , small & Medium Scale Industries of Rajasthan and sick Industries , other than Small Scale Industries , whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR) shall furnish self attest documentary evidence duly attested by notary to claim the above

VERY VERY IMPORTANT:

The bids not accompanied with qualification requirement, technical requirement indicated in the specification and other requirement given here under will be considered as incomplete offer and sufficient grounds for offer to be passed over:

1. Capacity, capability and competency proofing documents.
 - a. Capacity/orders of similar and higher rating of tendered equipment booked as on date of bidding with type and rating and construction details of equipment for which order received be indicated.
 - b. Copy of purchase orders of Erstwhile RSEB /SEB`S / Electric Utilities / Govt.
2. Departments / Discom for similar or higher rating equipment latest executed.
3. Year wise past experience for last 5 years of similar or higher rating of tendered equipment.
4. The details of testing facilities available at the works and copies of latest type test certificates, carried out on similar ITEM.
5. Quality assurance plan.
6. Complete guaranteed technical particulars, out lines and general arrangement drawings along with Bill of Material.
7. Bids without Section-I, II, III & Schedules (III to XI) shall be rejected.
8. Bids shall be furnished through online.
9. JdVVNL has the right to reject any offer on the basis of track record of poor performance in execution of previous order / equipment supplied /after sales service while evaluating the Techno-Commercial bid.
10. JdVVNL reserves the right to accept minor deviations in standard terms and conditions and also in technical and constructional features as specified in the technical specification (Schedule-III).

11. Deviation of any kind shall not be quoted in price bid, if found quoted, the same shall be ignored.
12. The following facilities are to be provided by the supplier at his own cost to the inspecting officer of Nigam (JdVVNL):-
 - i. Suitable accommodation.
 - ii. Local conveyance between arrival point, place of stay, works and departure point.
 - iii. The supplier shall assist in arranging return ticket and reservation on the request of the inspecting officer for which the payment shall be made by the inspecting officer. In case of joint inspection, single or shared double room accommodation shall be provided.

SCHEDULE – XI**(TO BE FURNISHED ON NON-JUDICIAL STAMP WORTH Rs.100/- & DULY NOTARIZED)****FORMAT OF AFFIDAVIT**

I _____ S/o _____ Aged _____ Yrs. _____
 Residing at _____ Proprietor/Partner/Director of
 M/s _____ do hereby solemnly affirm and declare that:

(a) My/Our above noted enterprise M/s _____ has been issued acknowledgement of Entrepreneurial Memorandum Part II by the District Industries Centre _____. The acknowledgement No. is _____ dated _____ and has been issued manufacture of following items:

Name of Items	Production Capacity (Yearly)
(i)	
(ii)	
(iii)	
(iv)	
(v)	

(b) My/Our above noted acknowledgement of Entrepreneurial Memorandum Part-II has not been cancelled or withdrawn by the Industries Department and that the enterprise is regularly manufacturing the above items.

(c) My/Our enterprise is having all the requisite plant and machinery and is fully equipped to manufacture the above noted items.

(d) The present status of the firm is as per acknowledgment of Entrepreneurial Memorandum Part-II issued on the date of District Industries Center, _____.

Place _____

Signature of
 Proprietor/Director Authorized Signatory
 With Rubber Stamp and date

VERIFICATION

I, _____ S/o _____ Aged _____ Years residing at _____
 _____ Proprietor/ Partner/ Director of M/s _____
 _____ verify and confirm that the contents at (a), (b), (c) & (d)
 above are true and correct to the best of my knowledge and nothing has been concealed therein. So, help me God.

DEPONENT

GENERAL
Amendments in GCC & ITB

- 1) **Wherever EMD and Security Bank Guarantee (SBG), are appearing in the ITB, GCC & other Bidding Documents, same is hereby replaced by BID SECURITY as under:-**

BID SECURITY

Bid security shall be 2% **of the estimated value of subject matter of procurement put to bid.** In case of Small Scale Industries of Rajasthan it shall be 0.5% of the **quantity offered** for supply and in case of sick industries, other than Small Scale Industries, whose cases are pending with Board of Industrial and Financial Reconstruction, it shall be 1% of the value of bid. Every bidder, if not exempted, participating in the procurement process shall be required to furnish the bid security as specified in the notice inviting bids.

In case SSI unit of Rajasthan quotes the less than the tendered quantity, then they are required to furnish Bid Security @ 0.5% of the value of the quantity offered by them, failing which bid shall be considered non-responsive.

The Bid Security amount (as applicable) to be paid by Demand Draft/Banker's Cheque in favour of SR. AO (CASH & CPC), JDVVNL, Jodhpur (payable at Jodhpur) 342003 **upto 4.00 p.m. upto one WORKING day prior to schedule date of opening** of respective bid or Bank Guarantee, in specified format, of a scheduled bank in favour of Superintending Engineer (MM&C), JDVVNL, Jodhpur, be deposited to the Sr.Accounts Officer (MM&C), JDVVNL, New Power House, Industrial Area, Jodhpur-342003 **upto 4.00 p.m. upto one WORKING day prior to schedule date of opening** of respective bid and obtain a receipt/acknowledgement thereof. No other mode of deposit shall be accepted. At the time of depositing the Bid Security amount or Bank Guarantee, the bidder shall also furnish self attested and duly attested by Notary, the documentary evidence of SSI/MSME unit of Rajasthan or of sick unit (as applicable) along with affidavit as per schedule X on Non-Judicial Stamp of Rs. 100/-.

The Bank Guarantee against Bid Security be issued by Nationalized / Scheduled Bank. The same may be accepted after confirmation by issuing Bank. If any Bid Security Bank Guarantee not is proper format / not confirmed by the issuing Bank the same would not be accepted and the bidder would be immediately shorted out from bid process.

The Micro, Small & Medium Scale Industries of Rajasthan and sick industries, other than Small Scale Industries, whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR) shall furnish self-attested documentary evidence duly attested by Notary to claim the above.

- 2) **Wherever Performance Bank Guarantee (PBG) and Composite Bank Guarantee (CBG) are appearing in the ITB, GCC & other Bidding Documents, same are hereby replaced by PERFORMANCE SECURITY as under:-**

PERFORMANCE SECURITY

- (i) Performance security shall be solicited from all successful bidders except the department's of the State Government and undertakings, corporations, autonomous bodies, registered societies, co-operative societies which are owned or controlled or managed by the State Government and undertakings of the Central Government. However, a performance security declaration shall be taken from them. The State Government may relax the provision of performance security in particular procurement or any class of procurement.
- (ii) The amount of performance security shall be **five percent** of the amount of supply order in case of procurement of goods and services and **ten percent** of the amount of work order in case of procurement of works. In case of **Micro, small and Medium scale Industries** of Rajasthan it shall be **one percent** of the amount of quantity ordered for supply of goods and in case of sick industries, other than Small Scale Industries, whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR), it shall be **two percent** of the amount of supply order.

3) **VENDOR REGISTRATION**

The relaxation/exemption given to the registered vendors of the Nigam in respect of EMD/SBG, wherever appearing in the ITB, GCC & other Bidding documents, are hereby WITHDRAWN.

4) **The indirect taxes i.e. Excise Duty, Service Tax, VAT/CST, Entry Tax etc. mentioned in G.C.C., may now be read as G.S.T.**

5) **Due Date of payment:**

Payment shall be due and payable by the purchaser in accordance with the provision of the contract within a reasonable period from the date of receipt of each invoice by the contractor / supplier duly supported by a certificate of the Engineer. The purchaser will take all possible effort to make payment to the contractor / supplier generally on 45th day after receipt of duly verified challans / receipts / bill in the office of paying authority {Sr. Accounts Officer (Cash & CPC) Jodhpur Discom, Jodhpur / Concerned Circle Accounts Officer} and completion of contractual formalities. But in case of delay in payment the purchaser shall not be liable to pay any interest on the outstanding amount to the contractor / supplier.

6) The GST will be charge extra at the prevailing rate on all the settlement fees as applicable and amended time to time.

7) **APPEAL:**

i. If any Bidder or prospective bidder is aggrieved that any decision, action or omission of the procuring entity is in contravention to the provisions of this Act or the rules or guidelines issued there under, he may file 1st & 2nd appeal under section 38 of RTTP Act-2012 to the following appeal authorities **within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:**

Sr.No	Type of Appeal	Name & Designation of appellate authority
1	First appeal	Chairman, Discoms
2	Second appeal	Energy Department, Government of Rajasthan

ii) The form of appeal shall be as per Rule 83 of RTTP Rules, 2013 and memorandum of appeal shall be filled as per form-1 as prescribed under RTTP Rules, 2013.

Fee for appeal: - Subject to rule 84 of the RTTP Rule 2013 the fee shall be as under:-

a. For First Appeal:- Rs. 2,500/- (Rupees Two Thousand Five Hundred Only)+GST.

b. For Second Appeal:- Rs. 10,000/- (Rupees Ten Thousand Only)+GST.

iii) It is further intimated that the fee shall be paid in the form of Demand Draft of Bankers Cheque of a Scheduled Bank payable in the name of Sr. Accounts Officer (Cash & CPC), JdVVNL, Jodhpur.

iv) Provided that after the declaration of a Bidder as successful the appeal may be filed only by a Bidder who has participated in procurement proceedings:

v) Provided further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filed only by a Bidder whose Technical Bid is found to be acceptable.

vi) The officer to whom an appeal is filed under para (1) shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within thirty days from the date of the appeal.

vii) If the officer designated under para (1) fails to dispose of the appeal filed within the period specified in para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the First Appellate Authority, the Bidder or prospective bidder or the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidding Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

- 8) The bidders should be qualified, not be insolvent, not be in receivership, not be bankrupt or being wound up, should not have affairs administered by a court or a judicial officers, should not have business activities suspended, should not be blacklisted or debarred by any utility/ government agency, should not have a conflict of interest. For this bidder is required to furnish a Declaration as per Appendix-B, on Rajasthan Non-Judicial Stamp Paper of Rs. 100/ (excluding surcharge on Stamp Paper, as per rules).”
- 9) In case the terms & conditions mentioned in PO, ITB & GCC are modified/differ from RTPP Act, then RTPP Act shall supersede

ADDENDUM IN ITB

Addendum in the provision of Instruction to Bidder (ITB) in the clause No. 1.12.2 for quantity allocation as per award criteria of purchase manual in accordance to the clause no. 74 of RTPP rules:

1.12.2 (A) for quantity allocation**(i) Trial order under Para No. 22.17 (a) & (b) of purchase manual**

(a) Any bidder located within or outside the state of Rajasthan has participated for the first time in a particular Discom& meeting minimum qualification requirement and has supplied the tendered material/or of higher rating in other utility shall be treated as an old supplier. Rajasthan's firms although supplied in past but not meeting minimum quantity supplied criterion including altogether new units which have not supplied any quantity but having adequate & required manufacturing and testing facility and technical know-how of the tendered material shall be considered as new firms and would be eligible for trial order only. In case supply made to the licensed power utility outside India, the C.A. certificate furnished by the firm shall be considered.

Note:- The material supplied and accepted for same/higher rating for turnkey project (s) to a licensed power utility/Govt. shall be considered for the purpose of evaluating criteria. The certificate given by C.A. shall indicate above quantity separately.

(b) (i) The trial order for a particular item shall not generally exceed 10% of the total quantity considered for placement of order. This ceiling may, however, be relaxed by the corporate level purchase committee up to the extent of 30% to take the advantage of lower price where situation of differential price offering is arising.

(ii) The capacity & capability assessment of a bidder located outside state of Rajasthan who otherwise qualifies but is participating for the first time shall not be carried out.

Similarly, for the tendered item(s) where the valid BIS license is an essential qualification requirement and the bidder possesses the valid BIS but new to the utility. The capacity/capability assessment of such a bidder shall also not be carried out.

(ii) Award criteria under Para No. 10.2 (iii) of purchase manual

(a) In case of distribution transformers of rating 40 KVA and below, LT cables & conductors and fabricated steel items, order quantity may be distributed in the following manner:-

20% to L1

15% to L2

10% to L3

05% to L4

50% to be distributed equally among other firms subject to the condition that not more than 5% of the quantity to be purchased will be allotted to any one of such firms. The balance, if any will be distributed in the same proportion as indicated above among the first four firms.

(b) In case of other items except poles, order quantity may be distributed in the following manner:-

40% to L1

20% to L2

10% to L3

06% to L4

The balance quantity may be equally distributed among other firms subject to the condition that not more than 4% of the quantity to be purchased will be allotted to any one of such firm. The balance, if any will be distributed in the same proportion as indicated above among the first four firms.

(c) In case of poles, the order may be awarded on the basis of landed cost (material and transportation taken together). The allocation of quantity location/destination wise may be made among the eligible firms in equal proportion as far as possible

APPENDIX-A

Bank Guarantee No. _____.
 Security Amount : _____.
 Issued on dated : _____.
 Valid upto : _____.
 Claim upto / Grace period: _____.

PERFORMA OF BANK GUARANTEE FOR BID SECURITY

(Bank Guarantee in lieu of bid Security on non-judicial Stamp Paper of Rajasthan State of 0.25% of the B.G. value or Rs.25,000/-, whichever is less)

To,

The Superintending Engineer (MM&C),
 Jodhpur VidyutVitaran Nigam Limited,
 Jodhpur.

1. Whereas _____ (name of the Bidder) (hereinafter called "the Bidder") has submitted its bid dated _____ (date of submission of bid) for _____ (name of contract/ name of the material with Bid no. / TN No. _____) (hereinafter called "the Bid").
2. KNOW ALL PEOPLE by these presents that WE _____ (name and address of branch of Bank) of _____ (name of country), having our registered office at _____ (addresses of bank) (hereinafter called "the Bank"), are bound unto _____ (name of Purchaser) (hereinafter called "the Purchaser") in the sum of Rs. *_____ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents sealed with the Common Seal of the said Bank this _____ day of _____ 20_____.
3. THE CONDITIONS of this obligation are :
 - i. If the bidder withdraws its Bid during the period of bid validity specified by the Bidder in the Bid Form; or
 - ii. If the bidder refuses to accept the correction of error in his Bid; or
 - iii. If the bidder, having been notified of the acceptance of its Bid by the purchaser during the period of bid validity:
 - a. Fails or refuses to execute the Contract Agreement within the time specified in purchase / work order, if required, or
 - b. Fails or refuses to furnish the performance security within the time specified in purchase / work order in accordance with the GCC, or
 - c. Fails to commence supply of goods or services or execute work as per purchase / work order within time specified.
 - iv. If the bidder breaches any provision of the Code of integrity specified in the RTPP Act and Chapter VI of the RTPP Rules.
4. We undertake unconditionally and irrevocably to guarantee as primary obligator and not as surety merely to pay to the purchaser a sum of Rs. _____ (in words Rs. _____) upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or all of the above three conditions specifying the occurred condition or conditions.
5. The decision of the Superintending Engineer (MM&C), Jodhpur VidyutVitaran Nigam Limited, Jodhpur shall be final whether breach has been committed on the right to demand the amount of guarantee from us which has accrued to the purchaser.
6. This guarantee shall not cease or determine, if the purchaser grants time or indulgence or vary the terms of the contract with the Contractor or without our consent or knowledge.
7. The guarantee herein contained shall not be affected by any change in the constitution of the Contractor.
8. We _____(Bank Name) further undertake not to revoke this guarantee during its currency except with the previous consent of the Superintending Engineer (MM&C), Jodhpur VidyutVitaran Nigam Limited, Jodhpur.
9. All disputes arising under the said guarantee between the Bank and the Nigam or between the Contractor and the Nigam pertaining to the guarantee, shall be subject to the jurisdiction of the Courts in Jodhpur, Rajasthan alone.

10. This guarantee will remain in force up to and including one hundred eighty (180) days after the date of the opening of bids, i.e. upto _____, with a further grace period of Ninety (90) days and any demand in respect thereof should reach the Bank not later than the above date.

Yours faithfully,
Bankers (EXECUTANT)
Signed by the above named Bank in presence of :
(signature with full Name and Address)

Witness :

1. _____.
2. _____.

Attested by Notary Public, First Class Magistrate or directly confirmed by the executing Bank.

* The Bidder should insert the amount of the guarantee in words and figures denominated in the currency of bid.

Note : In case the bid is submitted by a Joint Venture, the Bid Bank guarantee shall be in the name of Lead partner or in the name of joint venture partners submitting the Bid covering all the partners of the joint venture.

APPENDIX-B

Declaration by the Bidder

(On Rajasthan Non-Judicial Stamp Paper worth Rs.100/- + Surcharge on Stamp Paper as per rules)

In relation to my/ our bid submitted to SE (MM&C) JdVVNL, Jodhpur, For procurement of _____ in response to their notice inviting bids under TN- _____ I/We hereby declare that : -

We are qualified, not insolvent, not in receivership, not bankrupt or being wound up, not have affairs administered by a court or a judicial officers, not have business activities suspended, not blacklisted or debarred by any utility/ government agency, not have a conflict of interest.

Signed _____
Name _____

In the capacity of _____

Duly authorized to sign the bid for an on behalf of :

Dated on _____ day of _____

Corporate Seal _____

ANNEXURE-A

SELF ATTESTED UNDERTAKING TO BE GIVEN ON FIRM'S LETTER HEAD

We, the undersigned declare that:

1. Our firm, its affiliates of subsidiaries including any subcontractor or suppliers for any part of the contract have not debarred by the state government or the procuring entity or a regulatory authority under any applicable law.
2. We declare that we have complied with and shall continue to comply with the provision of the code of integrity including conflict of interest as specified for bidders in the RTPP Act 2012, RTPP Rules 2013 and the bidding document during the procurement process and execution of contract till completion of all our obligation under contract.
3. I/We possess the necessary professional, technical, financial and managerial resources and competence required by the bidding document issued by the procuring entity.
4. I/We have fulfilled my/ our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the bidding document.
5. I/We are not insolvent, not in receivership, not bankrupt or being wound up, not have affairs administered by a court or judicial officers, not have business activities suspended, **not be blacklisted or debarred by any utility/ government agency**, not have a conflict of interest and not the subject of legal proceeding for any of the foregoing reasons.
6. I/We do not have, and our directors and officers not have, been convicted of any criminal offence related to my/ our professional conduct or the making of false statements or misrepresentations as to my/ our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings.
7. I/We do not have a conflict of interest as specified in the Act, Rules and the bidding document, which materially affects fair competition.

**Firm's Name
Seal & Signature**