



JODHPUR VIDYUT VITARAN NIGAM LIMITED
OFFICE OF THE SUPERINTENDING ENGINEER (MM&C)
NEW POWER HOUSE, INDUSTRIAL AREA, JODHPUR –342 003
Corporate Identity Number (CIN)-U40109RJ2000SGC016483 GST No. 08AAACJ8578R1ZJ

TELEPHONE: 0291-2651376

FAX: 0291-2746539

Mail Address: semmcjdvvn@gmail.com**SPECIFICATION NO. JDVVNL/SE (MM&C)/TN-1411**

Tenders are hereby invited in e-tender system for purchases of 33 KV CTs are 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	Quantity (Approx)
	33 KV Current Transformers	
1	33KV (400-200-100/ 5-5 A)	20 Nos.
2	33KV (240-120-60/ 5-5 A)	20 Nos.

A.	NIT No.	TN-1411
B.	Last date for receipt of tenders	15.05.2018 up to 12:00 PM
C.	Date & time of tender opening	15.05.2018 at 3:00 PM
D.	Cost of Specification	Rs. 2,950.00 per set (Two Thousand Nine Hundred & Fifty only)
E.	Processing of RISL	Rs. 1,000.00 per set (One Thousand only)
F.	Bid security to be deposited	General Bidder: Rs. 19161.00 Sick Unit of Rajasthan: Rs. 9581.00 SSI unit of Rajasthan: Rs. 4790.00
G.	Validity	120 days from the next date of opening of techno-commercial bid.

***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 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 14.05.2018 (04:00 PM)	www.jdvvn.com & http://www.eproc.rajasthan.gov.in
2.	Last Date of Deposit of cost of Tender Specifications, Processing fee & Bid Security	Up 14.05.2018 (4:00 PM)	Office of Sr. A.O (Cash & CPC), JdVVNL , New Power House, Industrial Area, Jodhpur
3.	Last Date & time of submission of electronic bid	Up to 15.05.2018 (12:00 PM)	http://www.eproc.rajasthan.gov.in
4.	Opening of Technical Bid	15.05.2018 (03:00 PM)	http://www.eproc.rajasthan.gov.in
5.	Opening of Price Bid	To be intimated separately to the qualified bidders	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) 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, JODHPUR (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 favours 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 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.

SECTION -III

**TECHNICAL SPECIFICATION FOR OUTDOOR TYPE 33 KV CTs AGAINST
TENDER SPECIFICATION TN-1411.**

3.0 SCOPE:

This specification covers the design, manufacture, assembly testing at manufacturer's works before despatch, supply and delivery of Single Phase 50 Hz oil immersed, self cooled, hermetically sealed, outdoor type 33 KV Current Transformers for installation at various Grid Sub-stations of Jodhpur Discom. Consideration may be given to alternatives which the suppliers consider advisable by reason of his own manufacturing requirements & experience provided descriptive matter/ tests certificates are submitted pointing out the recommended device or arrangement equal to or superior to that required by this specification and if the purchaser is convinced of the quality and/or superiority of the equipment. These equipment shall be suitable for installation in system with neutral effectively grounded.

3.01 SCHEDULE OF REQUIREMENT:

The requirement of 33 KV CTs shall be as under:-

S. No.	Item	Ratio	Quantity in (Nos.)
1.	33 KV Current Transformers	400-200-100/5-5A	20
2.		240-120-60/5-5A	20

The bidder should quote prices of above CTs with terminal connector suitable for panther conductor.

3.02 STANDARDS:

The design, manufacture & testing of various equipments, covered by this specification shall comply with the latest issue of following and other applicable standards except the value wherever specified shall be considered relevant:-

IS:2705	Specification for Current Transformers
IS:2099	Specification for Bushing
IS:5621	Specification for hollow porcelain bushing.
IS:5561	Specification for electric power connectors.
IS:335	Specification for new insulating oil.
IS:4201	Application guide for Current Transformer.
IEC:60044-1 & 2	Instrument Transformers

Equipments conforming to other International and IEC Standards which ensure equal or higher quality than the standard(s) mentioned above would also be acceptable. In case the tenderer wishes to offer equipment conforming to other standard, they shall furnish English translation of the relevant standards

3.03 CLIMATIC CONDITIONS:

The climatic conditions under which the equipment will be required to operate satisfactorily are as under:-

- i) The equipment offered by you shall conform in all respects to the relevant Indian standards specifications except where stated otherwise in the order. Special care shall be taken in the design & manufacture of equipment to take into account the tropical conditions such as high temperature excessive humidity, dust & salt laden atmosphere at detailed below:-

- a) Maximum temperature of air in shade : 50 deg.C
- b) Minimum temperature of air in shade : (-) 5 deg.C
- c) Maximum relative humidity : 95 %
- d) Minimum relative humidity : 10 %
- e) Height above mean sea level : upto 1000 meters
- f) Dust storms are likely to occur
the period from March to July
- g) Average number of thunder storms : 40
days/annum.
- h) Average number of tropical monsoon : 4 months
conditions per annum.
- i) Average rain fall : 10-100 cms. depending upon
area.

ii) TROPICAL TREATMENT:

All the equipment shall be suitably designed and treated for normal life and satisfactory operation under the hot and humidity Tropical Climatic Conditions specified under clause No. 3.03 above and shall be dust and vermin proof. All the parts and surface which are subject to corrosion shall be made of such material and shall be provided with such protective finish as would protect the equipment installed from any injurious effect of excessive humidity.

You shall supply all such minor accessories required for the completion of the supply which have either not been specifically mentioned in this specification or your tender offer.

3.04 TECHNICAL REQUIREMENTS FOR 33 KV CURRENT TRANSFORMERS:

- i) The Current Transformers shall be of Single Phase oil immersed self cooled hermetically sealed & outdoor type suitable for the service

conditions indicated complete in all respects conforming to latest issue of IS mentioned at clause 3.02 and modern practice of design & manufacture. The thickness of tank sheet shall be minimum of 3mm.

- ii) The core shall be of high grade non-aging laminated silicon steel of low hysteresis losses and high permeability to ensure accuracy at both normal & over current.
- iii) The Current Transformers shall be hermetically sealed to eliminate breathing and prevent air and moisture from entering the tank. The method adopted for hermetically sealing shall clearly be stated in detail in the offer. These shall be provided with prismatic oil level gauge and pressure relieving devices capable for releasing abnormal internal pressure where necessary. Arrangement for oil filling/ drain valve/ plug / hole shall be sealed to avoid leakage / pilferage of oil. The arrangement provided shall be indicated in the tender. For load shedding single phasing is adopted in the system. The offered CTs shall be suitable for working under such conditions.
- iv) For 33 KV CTs only live tank type design shall be acceptable

v) PRINCIPAL TECHNICAL PARTICULARS OF CURRENT TRANSFORMERS:-

S. No.	Description	Particulars
1.	Type of CT/Installation	Single Phase Live Tank oil filled hermetically sealed, outdoor type.
2.	Type of mounting	Steel Structure
3	Nominal system voltage	33KV
4	Highest system voltage	36KV
5	Rated Insulation level.	
a.	One minute dry power frequency withstands voltage.	70KV (rms)
b.	1.2/50 micro second Lightning Impulse voltage (KVP)	170 KV peak
6	One minute High voltage power frequency test on	
a.	Primary winding (test voltage)	As per IS:2705/1992 (with latest amendment)
b.	Secondary winging (test voltage)	As per IS:2705/1992 (with latest amendment)
7	Frequency	50Hz.
8	Transformation ratio(s)	(a) 400-200-100/5-5A (b) 240-120-60/5-5A
9.	Method of earthing of system	Effectively earthed

10.	Rated continuous Thermal current(s) rating(s)	120% of rated primary current (s)	
11.	a) Rated short time thermal current.	25 KA (rms) for 1 Sec.	
	b) Rated dynamic current (kAP)	62.5	
12.	Temperature rise for rated continuous thermal current over an ambient temp. of 50 Deg. C.	Within limits of IS:2705/1992 with latest amendments.	
13.	Total creepage distance of porcelain housing (Min.)	900 mm	
14.	Max. Creepage factor for hollow porcelain insulator	4.0	
15.	Core utilization for CTs having ratio (a) 400-200-100/5-5 Amp. (b) 240-120-60/5-5 Amp.	CORE-I Metering	CORE-II Back up protection
a.	Rated burden VA	30	40
b.	Class of accuracy	0.5S	5P
c.	Max. instrument security factor	5	-
d.	Accuracy limit factor (max.)	-	15

vi) Necessary magnetization curve for the relevant core(s) shall be furnished.

vii) TEMPERATURE RISE FOR CURRENT TRANSFORMERS :

The limits of temperature rise of the windings, external surface of the core and other parts of the current transformers when carrying a primary current equal to the rated continuous thermal current at the rated frequency and with rated burden shall be governed by the provisions of latest issue of IS:2705 (Pt.I). The corresponding temperature rise for the terminal connectors shall not exceed at rated continuous thermal current of the CT beyond the limits prescribed in IS: 5561/1970 or latest issue.

3.05 CORES AND WINDINGS FOR ALL CLASS CURRENT TRANSFORMERS

- i) The current transformers core to be used for metering and instrumentation shall be of the accuracy class as specified. The saturation factor, instrument security factor of this core shall be low enough so as not to cause any damage to measuring instruments in the event of maximum short circuit current. Mu-metal or equivalent material shall be used for this purpose. This factor shall not exceed to 5 on all transformation ratio.
- ii) The current transformers cores to be used for protective relaying shall be of accuracy specified. The cores shall be designed for a maximum accuracy limit factor of 15 or min. knee point voltage specified as the case may be. The magnetization curves for applicable core shall be furnished by the tenderer along with the tender failing which offer is likely to be ignored.
- iii) The rating of the secondary winding shall be as per Clause No. 3.04(v) of this specification. The secondary terminals shall be brought out in a weather proof

compartment on one side of current transformer for easy access and shall be provided with short-circuiting arrangements. Required transformation ratio can be achieved in any manner but the current transformers will have to satisfy the requirement of rated VA burdens, class of accuracy, accuracy limit factor, instrument security factor and short time thermal rating etc. as specified in Clause 3.4 (v) at all transformation ratio.

The minimum knee point voltage and maximum secondary winding resistance shall correspond to the lowest ratio. In case tapings are provided on secondary side of current transformers to get the designed transformation ratios, magnetization curves corresponding to all secondary taps must be submitted with the tender. Secondary windings resistances at such secondary tap shall also be clearly specified. The secondary terminal box shall be provided with necessary glands with removable gland plate for control cables. The secondary terminal box shall conform to IP-55 test.

- iv) Primary winding shall be made out of high conducting copper. The design density for short circuit current as well as conductivity for primary winding shall meet the requirement of IS:2705/1992 or latest issue. However for primary winding current density corresponding to the rated short time current shall not exceed 160 Amps./Sq.mm for copper conductor. Suitably insulated copper wire of electrolytic grade shall be used for secondary winding. The tenderer should furnish details of primary winding e.g. Number of primary turns, cross-section, short time current density and normal continuous rated current density in the primary winding so as to meet the requirement of IS. Winding shall have high mechanical strength for safety against stress.
- v) The shape of external metal parts shall ensure that rainwater runs off and there is no stagnation.
- vi) The requirement of current transformers of all classes regarding their ratio error, minimum knee point voltage, exciting current at knee point voltage, maximum resistance of secondary winding etc. shall have to be coordinated with the requirement of the protective relay and protecting scheme wherever required without any extra cost to the purchaser.
- vii) The CTs shall be of robust design, tested quality and reliable in operation. Only pure high-grade paper would evenly under controlled conditions and impregnated with mineral oil under vacuum shall be used for the main insulation.

3.06 FITTINGS & ACCESSORIES FOR CTs

The CTs shall be provided with the following fittings & accessories:-

- 1) 2 Nos. bimetallic terminal connector with each CT suitable for horizontal & vertical take-off. The thickness of bimetallic strip/sleeve shall be of min.2 mm.
- 2) Oil level gauge.
- 3) Pressure release device if design recommended.

- 4) Expansion Chamber or suitable type of device for absorbing variation in volume of oil due to change in temperature of oil.
- 5) Oil filling/ drain valve/ plug/ hole with sealing arrangement.
- 6) Lifting lugs/ holes.
- 7) Weather proof secondary terminal box fitted with hinged/ bolted door and complete with terminals and short circuit arrangements. The secondary box hinged/ bolted door shall have sealing arrangement.
- 8) Two Nos. earthing terminals.
- 9) Name & Rating plate showing details of connection diagram.

3.07. GENERAL REQUIREMENTS OF 33 KV CTs

3.07.1 INSULATING OIL AND BUSHINGS:

The quantity of insulating oil for first filling of each instrument transformer and complete specification of the oil shall be stated in the tender. The oil shall conform to the requirements of latest issue of IS: 335. The instrument transformers shall be of standards duly filed in with oil. The oil filled bushing shall be of standard make such as W.S. Industries, BHEL/MIL/Birla NGK/CJI/TEKMEK, KOLKATA. The bushing shall be suitable for operation in heavily polluted atmosphere with creep-age distance of minimum 25 mm per KV. The details of make and catalogue no. etc. of bushing shall be clearly stated in the guaranteed technical particulars. Pressure of nitrogen or any other inert gas used above the oil level to permit expansion or contraction of oil along with device to detect any leakage if any shall be stated in the tender.

3.07.2 TERMINAL CONNECTORS:

The Instrument transformers shall be supplied with bimetallic terminal connectors for both ends suitable for ACSR Panther conductor as per requirement and confirming to IS:5561. Each terminal connector shall be suitable for both horizontal and vertical takeoff arrangement.

The instruments transformers shall also be provided with two number earthing terminals of adequate size, protected against corrosion and metallically clean. Bimetallic strips or sleeves of suitable thickness to prevent bimetallic corrosion shall be provided as a part of the terminal connectors.

3.07.3 PAINTING:

All ferrous parts of the Instrument Transformers exposed to atmosphere shall be painted externally with one coat of anti rust abide paint (Primer) and two coats of dark admirably grey paint (synthetic enamel paint of light grey shade No. 631 of IS:5). All interior surfaces in contact with oil shall be painted with two coats of heat resistant oil insoluble paint.

3.07.4 TYPE OF MOUNTINGS:

The tenderer may submit their drawing / design for supporting structures of the Instrument transformers offered by bidders.

3.08 DRAWING AND MANUALS:

The following drawings/ technical literature of the equipment covered by this specification shall be furnished along with tenders: -

- i. Outline general arrangement drawings showing all dimensions and weight of each item.
- ii. Drawing showing inside details.
- iii. Diagram of connections and drawing for ratio plate.
- iv. Drawing of bushing insulator to be used mentioning all details.
- v. Drawings depicting magnetization curve for relevant secondary winding of the Instrument Transformers
- vi. Technical and descriptive literature explaining constructional features and details of the equipments.
- vii. Drawing of bimetallic terminal connector indicating all details.
- viii. Name/Rating plate diagram
- ix. Drawing of all fittings and accessories

3.09 INSTRUCTION MANUALS:

The successful tenderer shall have to supply 10 sets of operating and maintenance instruction manuals along with the erection manuals and requisite drawings of the equipments covered by this specification. One set of drawings and a manual shall also be sent along with each consignment to respective consignee.

3.10 NAME / RATING PLATE:

All items of the equipment includes in this specification shall be provided with rating plates as per relevant standards. Rating Plate & terminal marking shall be as per relevant IS. Purchase order / TN reference shall also be given.

3.11 TYPE TEST REPORTS

Certified copies of tests reports from any CPRI/ NABL accredited testing laboratories of all type tests as per relevant latest standard mentioned under section-III clause 3.02 in respect of similar equipment (voltage class wise) included in this specification along with bushing and terminal connector (if offered other than approved make) shall be furnished to adjudge the technical suitability along with the tender. The tenderer shall furnish necessary calculations on the basis of STC test reports furnished above to prove the CTs of offered ratios are capable to withstand the specified short circuit level. The type tests reports shall not be older than **5** years. The type tests details are as under:

- a) Short time current test

- b) Lightning impulse voltage withstand test.
- c) Temperature rise test.
- d) High voltage power frequency (wet) withstand test.
- e) Determination of errors or other characteristics.

In case, a bidder do not posses valid type test reports as per the requirement, an undertaking stating that valid Type Test Certificate from a Govt. /Govt. approved/ Govt. recognized/ NABL accredited/ ILAC accredited laboratory shall be furnished from first lot (without asking any delivery extension) along with Bank Guarantee with the Technical Bid from a Nationalized/Scheduled Bank in prescribed proforma at Schedule-III C or DD/Pay order amounting to Rs. 5.0 Lacs, should be furnished. The initial validity of Bank Guarantee shall be 9 Months with claim period of 3 Months in addition.

3.12 INSPECTION & TESTING

- i) Each equipment covered under this specification shall comply with and shall be subjected to all routine tests prescribed in the relevant Indian Standards specification as mentioned in Clause 3.02 above.
- ii) In the event of order, supplier shall have to get all type test conducted as per requirement of relevant standards on one sample out of first lot comprising minimum 25% of ordered quantity of lowest ratio CT's in presence of inspecting officer without any extra cost, at CPRI/ NABL accredited testing laboratories designated by purchaser for which facilities exists in India unless otherwise it is waived by the purchaser.
- iii) In case Bidder has furnished complete valid Type Test Reports of offered items as per requirement of Specification & ordered quantity is less than 100 Nos, the above condition of Type Test on 1-Sample from first lot comprising minimum 25% of ordered quantity in presence of inspecting officer without any extra cost, at CPRI/ NABL accredited testing laboratories shall not be applicable. In case Bidder has furnished BG in absence of Type Test then Type Test from first lot will be conducted as per Clause No. 3.12(ii).
- iv) In case a bidder who has supplied 33 KV CTs of offered ratio and accuracy to any three Discoms of Rajasthan during last 5 years from the date of opening of a new tender and type tests have been conducted from 1st lot offered for inspection than the condition of Type Test on 1 Sample from 1st Lot comprising minimum 25% of ordered quantity in presence of Nigam's Inspecting Officer without any extra cost at CPRI/NABL accredited Lab as per clause No. 3.12(ii) of Specification shall not be applicable upon them for the ratio for which type test has conducted.
- v) Routine tests as per relevant standard shall be carried out on each equipment covered by this specification in the presence of purchaser's representative if desired by the purchaser. All tests reports shall be submitted and got approved

vi) During every lot offered for inspection, oil sample shall be drawn at random from any one equipment and same shall be tested as per IS: 335 for a) Break down voltage, b) Tan δ at 90⁰ Centigrade.

vi) One CT in each offered lot shall be opened for verifying the diameter and cross sectional area of primary conductor including verification of GTP.

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

vii) Dispatch Instructions of inspected material shall be issued only after successful type test reports.

3.13 TESTS AT SITE/ VERIFICATION AT STORES:

The purchaser reserves the right to carry out any site tests as he may decide at his own cost and will claim reimbursement from the supplier, in case the material as a result of such test / tests is not found conforming for the prescribed specification.

Verification: - One CT in each offered lot received in Nigam's stores shall be opened for verifying the diameter and cross sectional area of primary conductor including verification of GTP. If CT fails in above verification at Stores, entire lot shall be rejected and supplier shall lift the rejected lot. In case it found within specified limit, the supplier at his own cost shall reassemble/ replace the physically opened CT at works/ stores.

The payment against supplies shall be released after obtaining successful store verification.

3.14 GUARANTEED TECHNICAL PARTICULARS:

Guaranteed technical particulars for Instrument Transformers is appended at Annexure-I .Tenderer are requested to furnish GTP duly filled along with the tender. Tenders not accompanied by guaranteed technical particulars are liable to be rejected.

3.15 MATERIAL AND WORKMANSHIP:

All materials used in the manufacture of aforesaid equipment shall be of best quality and capable of satisfactory operation under climatic conditions mentioned in Clause 3.03 above. The workmanship shall be of the highest grade and the practice.

3.16 COMPLETENESS OF EQUIPMENTS:

All fittings, accessories or apparatus which may have not been specifically mentioned in this specification but which are usual or necessary for the equipments shall be deemed to have been included in this specification. All equipments shall complete in all respect.

3.17 LATENT DEFECTS, ERRORS AND OMISSIONS:

Any material / equipment or part thereof that developed defects, error or omissions in the apparatus, not disclosed prior to the final acceptance by the purchaser, but occur or are disclosed during the guaranteed period shall be corrected promptly or the apparatus or part thereof shall be replaced by the supplier free of charges and all expenses for the transportation handling, installation of such replacement or any other incidental charges shall be borne by the supplier.

3.18 GUARANTEE PERIOD & REPLACEMENT DURING GUARANTEE PERIOD:

Performance guarantee of the equipment shall be for the period of 36 months from the date of receipt in stores. The month & year of expiry of guarantee period shall be marked on the nameplate. Equipment failed within such guarantee period shall have to be replaced free of cost within 45 days of intimation. You shall furnish successful routine test reports of the equipment. If purchaser desires inspection prior to dispatch an inspecting officer shall be nominated for verification for the test reports. Transportation and lifting of defective material & delivery of replaced material shall be borne by the supplier.

3.19 SCHEDULES :

Any deviations from the provisions of Section-I, II and III of this specification shall be clearly listed and brought out separately in schedule VI A & VI B "Technical Deviations from the specification" & "Commercial deviation from the specifications". The deviations mentioned elsewhere in the offer shall not be considered.

All the schedules as per tender specification shall be returned duly filled and completed.

3.20 Delivery Schedule

The bidder is required to quote monthly delivery. The delivery of quoted quantity should be completed in 8 months period in equal installments including commencement period of 30 days. In case ordered quantity is different than quoted quantity then monthly delivery shall be adjusted proportionately. Tenders in which monthly delivery schedule is not indicated shall be ignored.

The delivery and commencement period shall not be linked with the time taken in approval of drawings and arranging type tests etc. Such time shall already be considered in commencement period while quoting delivery

3.21 QUALITY ASSURANCE PLAN:

The tenderers are required to furnish the quality assurance plan along with their bid, which is to be followed by the supplier during manufacturing of the equipment. The list of raw material used along with their sub suppliers and type test reports of raw material & brought out items be furnished along with the offer.

3.22 PRICE VARIATION:

The prices of Instrument Transformers are on variable basis as per prevailing IEEMA formula w.e.f. 1.6.2005 (mentioned as **Annexure `A'**) with base date **01.04.2018**. Rates quoted with 'FIRM' prices are likely to be ignored.

3.23 As GST act has been effected from 01.07.2017, therefore, BOQ has been prepared accordingly with applicability of GST. Further, old tax structure wherever appearing in ITB & GCC may be replaced by GST as per notification.

Further, GST registration number of Jodhpur Discom is 08AAACJ8578R1ZJ.

3.24 ADDITIONAL ORDER

Repeat order for additional quantities upto 50% of original ordered quantities, may be placed by the Nigam on the same rates , terms and conditions given in the contract.

3.25 Every Micro, Small & Medium enterprises of Rajasthan shall be required to submit an affidavit in schedule-X, along with duly filled bid document

SCHEDULE V(A)
GUARANTEED TECHNICAL PARTICULARS FOR 33 KV CURRENT
TRANSFORMERS AGAINST TN-1411

S. No.	Description	Technical particulars	
1a)	Name of Manufacturer with address of works.		
b)	Correspondence Address with email ID.		
c)	GST Registration No.		
2	Manufacturer Type designation		
a.	Nominal system voltage.		
b.	Highest system voltages.		
3	Class of Insulation		
i.	One minute Power Frequency withstand voltage (KVrms)		
ii.	Impulse withstand Voltage (KVP)		
iii.	One Minute High Voltage Power Frequency test		
a.	Primary winding		
b.	Secondary winding		
4.	Frequency.		
5.	Transformation ratio(s).		
6.	Rated Continuous thermal current rating (kA rms)		
7.	Rated Short time thermal current of primary for one second. (kA rms)		
8	Rated Dynamic Current of primary (kA peak)		
9	Temperature rise for rated continuous thermal current over an ambient temperature of 50 Deg. C at rated burden.		
10	Core utilization for CTs having ratio (a) 400-200-100/5-5 A (b) 240-120-60/5-5 A	CORE-I	CORE-II
a.	Rated Primary current (in Amp.)		
b.	Rated Secondary Current (in Amp.)		
c.	Rated burden.		
d.	Class of Accuracy.		
e.	Max. Instrument Security Factor.		
f.	Accuracy limit factor.		
g.	Exciting Current.		
h.	Maximum resistance of secondary winding corrected to 75 Deg. C at lowest tap.		
i.	Core Material.		
11.	Winding Details	Primary winding	Secondary Winding
a.	Material of conductor.		
b.	No. of turns.		
c.	Cross sectional area.		
d.	Weight of winding.		
12.	Whether complete type test reports as per relevant IS enclosed.		
13.	Whether magnetization curve enclosed.		
14.	IS to which CT conform		
15.	Total weight of CT		
16.a.	Quantity of oil		
b.	Governing standard for oil		
17.	Overall dimensions.		

18.	Mounting details.	
19.	Bushing details.	
a.	Confirm to IS:	
b.	Make.	
c.	Catalogue No.	
d.	Total creepage distance (mm)	
e.	Protected creepage distance.	
20.	Make of terminal connector	
21	Whether pressure release device provided.	
22.	Other Characteristics	
a	Ratio and phases angle curve.	
b.	Ratio correction factor curve.	
23.	Current density in primary windings.	
a	Normal rating, Amps per Sq.mm	
b.	Thermal rating of 3 sec. Amps. per sq.mm.	
c.	Dynamic rating Amps. per sq.mm	
24.	Test results of oil as per IS:335	
a	Break Down Voltage	
b.	Tan delta at 90 Deg.	
c.	Colour of oil (shall be color less)	
25	Any other specific feature.	

Schedule – I

SCHEDULE OF REQUIREMENT

Name of the Item	Ratio	Approx. Quantity (Nos.)
33 KV CURRENT TRANSFORMERS OF RATIO	400-200-100/5-5 AMP.	20
	240-120-60/5-5 AMP.	20

NOTE:-The quantities as mentioned in the schedule of requirements are tentative and may increase/decrease as per the requirement of the Nigam.

SCHEDULE- II**PRICE VARIATION CLAUSE FOR INSTRUMENT TRANSFORMERS BELOW 72.5 KV****(Current and Potential Transformers designed for operation on System voltage below 72.5 KV)**

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

$$P = \frac{P_o}{100} (18 + 18 \frac{C}{C_o} + 20 \frac{ES}{ES_o} + 10 \frac{IS}{IS_o} + 12 \frac{ER}{ER_o} + 9 \frac{TB}{TB_o} + 13 \frac{W}{W_o})$$

Wherein,

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

P_o = Price quoted/confirmed.

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

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

IS_o = Wholesale price index number for "Manufacturer of Basic Metals" (Base:2011-12=100)
(refer notes).
This index number is as applicable for the week ending 1st Saturday of the month, three months prior to the date of tendering.

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

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

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

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

For example, if date of tendering falls in October 2005, the applicable prices of Copper Wire Bars (Co) and Transformer Oil Base Stock (TBo) should be for the month August 2005, where as the applicable price of CRGO Electrical Steel Sheets (ESo) and Epoxy Resin (ERo) should be as on 1st September 2005 and Wholesale price index number for "Manufacturer of Basic Metal" (ISo) should be for the first working day of July 2005 and all India average consumer price index number (Wo) should be for the month of July 2005.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA (PVC)/INST-TR(BELOW 72.5 KV)/2005/EFFECTIVE FROM JUNE 2005 prevailing as on first working day of the month September 2005 i.e. one month prior to the date of tendering.

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

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

IS = Wholesale price index number for "Manufacturer of Basic Metals" (Base:2011-12=100)
(refer notes).
This index number is as applicable for the week ending 1st Saturday of the month, three months prior to the date of delivery.

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

TB = Price of Transformer Oil Base Stock (refer notes).
This price is as applicable on the 1st working day of the month, two months prior to the date of delivery.

W = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 1982 = 100).
This index number is as applicable on the first working day of the month, three months prior to the date of delivery.

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

The date of delivery is the date on which the instrument transformer is notified as being ready for inspection/despatch (in the absence of such notification, the date of manufacturer's despatch note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

Notes:-

- (a) All prices of raw materials are exclusive of modvatable excise/CV duty amount and exclusive of any other central, state or local taxes; oct
- (b) roi etc. Instrument Transformers manufacturers import major raw materials like Copper, CRGO Electrical Steel Sheets and TOBS etc. The landed cost of these imported raw materials includes applicable custom duty but exclusive of modvatable CVD.
- (c) All prices are as on first working day of the month.
- (d) The details of prices are as under:-
 - i) The LME price of Copper Wire Bars (in Rs./MT) is the LME average settlement price of Copper Wire Bars for one month prior to the month of circular converted into Indian Rupees with applicable exchange rates prevailing as on 1st working day of the subsequent month. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
 - ii) The price of CRGO Electrical Steel Sheets (in Rs./MT) is the average CIF price in US \$ per MT converted into Indian Rupees with applicable exchange rate prevailing as on 1st working day of the month, as

quoted by primary producers. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.

- iii) The wholesale price index number for “Manufacturer of Basic Metal” is as published by the Office of Economic Advisor, Ministry of Industry, Govt. of India, New Delhi with base 2011-12=100. This wholesale price index number is being published weekly on provisional basis. However, the same gets finalized after eight weeks and is normally available after two months. Therefore, we are considering in our calculations this final index for the first Saturday of the month two months prior to the date of which the prices of other raw materials such as Al, IM are published for the corresponding month.
- iv) The price of Epoxy resin is price quoted by resin manufacturer for their grade CT 5900 or its nearest equivalent.
- v) The price of TOBS is C&F (in Rs./K.Ltr) for Group II grade 70 Base Oil as published in ICIS-LOR bulletin for the 1st week of the previous month. This price is normally published in US\$ per US Gallon, which is converted in Rs./K.Ltr. with applicable exchange rate prevailing on 1st working day of the subsequent month. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.

Schedule – III**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 to Machinery/T&P shall confirm	Name of IS/other which material/equipment/ if any. to which material should	Other particulars standard confirm
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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 to Machinery/T&P shall confirm	Name of IS/other which material/equipment/ if any. to which material should	Other particulars standard confirm
-------	--	---	------------------------------------

(Signature)

Name & Designation
with seal of the bidder.

QUALIFICATION REQUIREMENT

33 KV CURRENT TRANSFORMERS OF RATIO 400-200-100/5-5 AMP., 240-120-60/5-5 AMP TN-1411

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 is required to quote for minimum 10% of tendered quantity, failing which the offer may be considered Non-Responsive.
- III) The bidder should have designed, manufactured / fabricated, tested and supplied to utility / Discoms / Govt. Departments at least 2XQQ (QQ being the quoted quantity) of 33KV CTs of various ratios in last three financial years from the date of opening of technical-commercial 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.

Any deviation to format or information diverted format, will not be considered and rejected.

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**.

- IV) The bidder shall furnish valid and authenticated type test certificates 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. Such type test certificates should not be older **than 5 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, in case of their own tender. 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. A new Rajasthan based units who does not possess valid type test reports be considered responsive subject to furnishing of Bank Guarantee in lieu of type test reports and technically competent.

The Rajasthan & outside Rajasthan firm who do not possess valid type test reports may be considered responsive, if type test reports of higher ratings are furnished along with the Bank Guarantees as per existing provisions. The B.G. or D.D. / Pay Order shall be amounting to Rs.

5.0 Lac. The initial validity of Bank Guarantee shall be 9 months with claim period of three months in addition.

- V) 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.
- VI) The bidder shall clearly indicate the deviations such as Technical Deviation & Commercial Deviations in the prescribed proforma only. The deviations indicated elsewhere in the bid shall not be accepted.
- VII) 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.
- VIII) a) If a bidder has supplied up to 50% of ordered quantity in previous tender up to date of opening of subsequent tender and scheduled delivery period expired, the bid of such bidder will not be opened in the Discom for that item.
 b) However, if the supplies have been completed for a quantity more than 50% but not completed up to date of opening of subsequent tender and scheduled delivery period expired, the quantity equal to the quantity pending in previous tender for that item shall be reduced from the subsequent tender quantity to be allocated to the bidder.
- IX) 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.
- X) All documents required in the prescribed format are to be furnished along with the bid itself only except an attested copy of BIS license (wherever it is required), failing which the bid will be summarily rejected.

Note :

- i) Rajasthan based firms not meeting minimum quantity supplied criterion but having manufacturing and adequate testing facility and technical know how shall be considered as new firms and would be eligible for trial order only.
- ii) Requirement of quantity manufactured, minimum quantity to be offered and amount of Bank Guarantee to be furnished shall be reduced to 25% for Rajasthan based units.
- iii) **The date of conducting type test shall be before the date of opening of Technical Bid. The date of issuing of type Test Bank Guarantee in lieu of non-furnishing of Type Test reports shall be before the date of opening of technical bid & the Type Test BG issued on or after opening of technical bid shall not be accepted.**

Schedule – III -B**BANK GUARANTEE IN LIEU OF FURNISHING OF TYPE TEST CERTIFICATE**

(On Rajasthan Non-Judicial Stamp Paper worth 0.25% of BG value or maximum upto Rs. 25,000/-)

To,

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

Dear Sir,

Whereas Jodhpur Vidyut Vitran Nigam Limited, Jodhpur (hereinafter called the Purchaser) has issued a tender enquiry under TN_____ for procurement of _____ (name of material).

Whereas M/s _____ (hereinafter called the bidder) has furnished a bid for supply of _____ to the Superintending Engineer(MM&C), Jodhpur Vidyut Vitran Nigam Limited, Jodhpur or his nominated officer(s).

Whereas in accordance with the provision of the specification of the aforesaid TN_____, the bidder can deposit a bank guarantee in lieu of the requirement of furnishing the type test certificates.

Whereas M/s _____ (the bidder) have requested us (Name of the Bank) to furnish the bank guarantee, in lieu of the type test certificate, for an amount equivalent to Rs._____ (in words also) only.

Under this Bank Guarantee, we (Name of the Bank) hereby undertake unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to the purchaser on his first demand without whatsoever right of objection on our part and without his first claim to the bidder, in the amount not exceeding (amount of guarantee in figures and words).

Payment pursuant to this undertaking will be demanded by the purchaser from the Bank and will be met by the Bank without question in the case in which the bidder, on receipt of the order and/ or after the acceptance of this tender, makes default in furnishing the required type test certificates. As to whether the occasion or ground has arisen for such demand the decision of the Superintending Engineer (MM&C), Jodhpur Vidyut Vitran Nigam Limited shall be final.

The liability of the Bank shall not at any time exceed Rs._____ (Rupees _____).

The undertaking will be determined on but will not withstanding such determination, continue to be in force till the expiry of 3 months from that date.

No indulgence or grant of time by the purchaser to the bidder without the acknowledgement of the Bank will discharge the liabilities of the Bank under this guarantee.

The guarantee herein contained shall not be affected by any change in the constitution of the bidder.

All disputes arising under the said guarantee between the Bank and the bidder or between the bidder and the purchaser pertaining to the guarantee shall be subject to the jurisdiction of Courts only at Jodhpur in Rajasthan.

The Bank further undertake not to revoke this guarantee during its currency except with the previous consent of the Superintending Engineer (MM&C), Jodhpur Vidyut Vitran Nigam Limited, Jodhpur.

Notwithstanding anything contained herein before, the Bank's liability under this guarantee i.e. restricted to Rs. _____ (Rupees _____) and the guarantee shall remain in force upto _____. Unless demand or claim in writing is presented on the Bank within three months from that date, the Bank shall be released and discharged from all liabilities there-under. However, the validity of the bank guarantee shall be extended as and when required by the purchaser.

IN WITNESS WHEREOF the Bank has executed these presents the _____ day _____ month _____ and year _____.

Yours faithfully,

(Bankers)
EXECUTANT

Witnesses:

1.

2.

SCHEDULE-IV `A`**Must be filled-in by the tenderer and attach with technical bid (Part-I)**

To,

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

Dear Sir,

With reference to your invitation to tender against specification No. JdVVNL/SE/MM&C/TN-1411 we agree to supply the following quantity:-

S. No	Particulars of item	Tendered Quantity (Nos.)	Qty. Offered	Justification of quantity offered as per Qualifying Requirement.	Status of Type Test Certificates.
1	2	3	4	5	6
	33 KV CURRENT TRANSFORMERS OF RATIO 400-200-100/5-5 AMP.	20			
	240-120-60/5-5 AMP.	20			

- The offer is valid for a period of 120 days from the date of opening of this tender.
- It is noted that the quantities as mentioned in the specification are approximate and we agree to supply any quantity as per your requirement.
- The base date of prices will be 1.04.2018 (as per IEEMA latest circular).
- The delivery shall strictly be in accordance with our delivery clause as given in **Schedule-VIII** of this specification. In case we fail to deliver the material as indicated in the clause No. 1.23 of G.C.C. (Schedule-II), we are liable to pay recovery for delay in delivery as per clause No. 1.24 of this Schedule-II of this specification. The material shall conform to your specification No. JdVVNL/SE/MM&C/TN-**1411** and as per relevant ISS in all respect.
- We confirm that we agree to all the terms & conditions as well as the technical stipulations of your specification No. JdVVNL/SE/MM&C/TN-**1411** and there are no deviations other than as specified in the **Schedule VI (A&B)**.

Yours faithfully,

Signature of tenderer
with stamp
Dated

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.
-------	---	-----------------------------------

(Signature)

Name & Designation
with seal of the bidder.

Schedule – VI (A)

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.

Schedule – VI (B)

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

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

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

(Signature)

Name & Designation
with seal of the bidder.

SCHEDULE-VIIIA**TN-1411****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 Utilities / Government Departments / Discoms/ SEBs as detailed out below:

FOR THE LAST THREE FINANCIAL YEAR FROM THE DATE OF OPENING OF TECHNO-COMMERCIAL BID.

S.No	Financial year in which material supplied	Detailed Particulars of item(s) supplied	Name and particulars of purchasing authority	Order No. & date against which item(s) supplied	Unit	Ordered		Actual Supplied up to		Remarks
						Quantity	Value (Rs)	Quantity	Value (Rs)	
1	2	3	4	5	6	7	8	9	10	11

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

Signature of C.A
Name :
Address:

Membership 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 – VIII**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking
DELIVERY SCHEDULE****PART-A**

The delivery schedule of the material by the Purchase Officer is as mentioned hereunder:-

Sr. No.	Particulars of Material	Commencement period	Rate of supply per month	Period for completion of delivery of entire material
1.	33 KV CURRENT TRANSFORMERS OF RATIO 400-200-100/5-5 AMP.& 240-120-60/5-5 AMP.	30 Days from the date of receipt of purchase order.	The supplies shall be completed latest within 8 months from the date of receipt of Purchase Order	Completion in Eight months (including commencement period of 30 days) at equal monthly rate from the date of receipt of Purchase Order.

PART-B

In case bidder deviates from the delivery schedule mentioned by the purchaser in Part-A then the delivery schedule shall be indicated/mentioned by the bidder as under:-

S.No.	Particulars of Material	Commencement period per Month.	Rate of supply per Month	Period for completion of delivery of entire material
--------------	--------------------------------	---------------------------------------	---------------------------------	---

- Note:**
1. During the commencement period the process of model assembly and submission of B.O.M. for approval shall be got completed.
 2. During the commencement period the contractual formalities shall be got completed.

(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 along with 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.

Appendix-I

Bidders are requested to furnish following details:

1. **Name of Firm :**
2. **Office Address :**
3. **Work's Address :**
4. **Email Address :**
5. **Phone / Mobile No. :**
6. **Fax No. :**
7. **Name of Firm's representative :**
8. **Contact No. of Firm's representative:**

Schedule – X**Format of Affidavit
(ON NON JUDICIAL STAMP OF RS. 100/-)**

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.

Place _____

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

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 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 in 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) Performance security from the successful bidder shall be **5%** of the amount of supply order (in case of established suppliers)/ **1%** of the amount of supply order (in case of Micro, Small & Medium scale industries of Rajasthan)/ **2%** of the amount of supply order (in case of sick industries) / **10%** of the amount of supply order (in case of other suppliers). In case of successful bidder, the amount of bid security may be adjusted in arriving at the amount of the performance security, or refunded if the successful bidder furnishes the full amount of performance security.

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.

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 Vidyut Vitaran 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 Vidyut Vitaran 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 Vidyut Vitaran 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.