



RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD.

(An ISO 9001: 2000 Certified Company)

(SUB STATION PROCUREMENT CIRCLE)

NEW MM BUILDING, OLD POWER HOUSE, PREMISES, BANI PARK,
JAIPUR (FAX NO.0141-2208924)

TELEGRAM	:	SEPROSEC JAIPUR
TELEPHONE	:	0141-2208924
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SPECIFICATION FOR SUPPLY OF 145KV CURRENT TRANSFORMERS AGAINST TENDER NOTICE NO: 2923

LAST DATE OF RECEIPT OF TENDERS	16.04.2011 (Up to 2.30 PM)
DATE OF OPENING OF TENDER	16.04.2011 (at 3.00 PM)
COST OF SPECIFICATION	Rs.500.00 (RS. FIVE HUNDRED ONLY)
VALIDITY	120 DAYS AFTER THE DATE OF OPENING OF TENDERS
EARNEST MONEY DEPOSIT	RS. 75, 000.00 (RS. SEVENTY FIVE THOUSAND ONLY)/ EXEMPTION CERTIFICATE OR REGISTRATION OF CERTIFICATE OF CATEGORY "A TO D"

1. Furnishing of earnest money/exemption certificate as per clause 1.03 of section-I of the specification is essential otherwise the "TENDER OFFER" will not be opened. However, the tenderers who get themselves registered with RVPNL (erstwhile RSEB) under category "A TO D" as per clause no. 1.5.3 of General Conditions of Contract (Schedule-II) are not required to furnish Earnest Money Deposit. They shall furnish attested copy of such valid registration along with copy of valid B.G. furnished against vendor registration with their tender. EMD if, required shall be furnished through DD/ Pay orders drawn in favour of "ACCOUNTS OFFICER (TLPC), RVPN Ltd., JAIPUR.

2. The Central and State Govt. undertakings are exempted from furnishing of earnest money subject to furnishing of such certificate/documentary evidence in support of their being Govt. (Central/State) undertaking.

3. Tenderer shall quote both FOR destination, and ex-works prices, including packing and forwarding charges. Fixed freight, and insurance charges shall also be quoted separately as per schedule of requirement and prices (Schedule-IV), otherwise their offer is likely to be ignored. The prices quoted should be variable without any ceiling as per IEEMA price variation formula. Base date for price variation shall be 1.03.2011 (i.e. first working day of calendar month, one month prior to the date of tender opening.)

4. Receipt of earnest money deposit or registration certificate or certificate that the tenderer is a Government undertaking/Corporation/Company shall necessarily accompany with sealed tender without which the tender shall be rejected.

5. The tender offer shall be furnished in two parts in the following manner:

(i) One small size envelope for proof of depositing/furnishing the earnest money / valid competency certificate/registration certificate. This envelope shall be duly sealed & super scribe "Earnest Money/Valid competency certificate/Registration certificate against TN-2923 be opened on 16.04.2011

(ii) Another envelope duly sealed and super scribed "TECHNICAL BID AGAINST TN-2923 part-I" to be opened on 16.04.2011. In this part of bid tenderer will have to furnish confirmation in regard to all our technical requirement and commercial terms and conditions along with details required in various schedules "EXCEPT THE PRICE SCHEDULE" so that the purchaser may be able to examine whether the offer submitted is technically acceptable and also confirms to our commercial terms and conditions or not. The technical bid should be submitted in file cover duly marked page number.

(iii) The third envelope duly sealed and super scribed "PRICE BID AGAINST TN-2923 Part-II". This price bid shall include submission of details of prices as per Schedule-III of the specification. Separate price bid envelopes be prepared for each voltage class CTs and these may be sealed in the main price bid envelopes.

(iv) And the fourth big size duly sealed envelope for covering the above three envelopes which shall be super scribed 'TENDER OFFER AGAINST TN-2923 BE OPENED AT 15:00 HRS. ON 16.04.2011 & below this the following address shall be indicated.

**THE SUPERINTENDING ENGINEER (SSPC),
RAJASTHAN RAJYA VIDHYUT PRASARAN NIGAM LIMITED,
NEW MM BUILDING, OLD POWER HOUSE PREMISES, BANI PARK,
JAIPUR-302006**

(Please note that bid received after specified time on due date of opening will not be accepted and such offers shall be ignored) (All the above envelopes shall be duly sealed individually)

6. The tenderers shall ensure that their tenders are furnished/submitted strictly in the manner detailed in the specification.

7. The tenders not accompanied with qualification requirement as per schedule X, 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:

(i) Capacity, capability and competency proofing documents.

(ii) Capacity/orders of similar and higher rating of tendered equipment booked as on date of tendering with type and rating and construction details of equipment for which order received be indicated.

(iii) Year wise past experience for last 5 years of similar or higher rating of tendered equipment.

(iv) The details of testing facilities available at the works and copies of latest type test certificates carried out on similar CTs.

(v) Quality assurance plan.

(vi) Complete guaranteed technical particulars, out lines and general arrangement drawings along with bill of material.

8. Technical deviation including GTP and commercial deviations including delivery if any shall invariably be mentioned in Schedule-VI "departure from specification" attached with this specification. Mentioning of such deviations elsewhere in the offer will not be considered as deviations. The printed terms and conditions of sales and others if any attached with the tender will not be considered.

9. Tenders without schedule I to X & Appendix-I to III is likely to be ignored.
10. Tenders shall be furnished in single copy.
11. Tenderers shall indicate in their bid the name and complete address of excise authorities under whose jurisdiction their works / office falls.
12. Any cutting/overwriting in the figures of the tendered documents should also be clarified/indicated in the words duly signed.
13. RRVPNL 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).
14. No deviation/comments should be mentioned in the price bid.
15. The purchaser will respond in writing to any request for clarification on tender documents which it receives no later than 15 days prior to dead line for submission of tender, after which no correspondence shall be entertained.
16. Please note any bid either "Technical or price" received after due date of opening will not be accepted and offer is likely to be ignored.
17. In case IEEMA changes the applicable formula for price variation and issue guideline for adopting the same during pendency of the contract, the new formula and guidelines shall become applicable for which no confirmation shall be taken from the supplier. Standardization of P.V claim is appended at Appendix-III.
18. The bidders are required to furnish the clarification/confirmation/documents sought subsequent to opening of bid within specified time failing which the case shall be finalized/decided on the basis of available information. The responsibility of being ignored on account of delay in furnishing of desired information / documents shall be of the bidder.
19. The following facilities are to be provided by the supplier at his own cost to the inspecting officer of RVPN.
 - (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.
 - (iv) In case of joint inspection, single or shared double room accommodation shall be provided.
20. The bidder, if is the micro, small or medium enterprise as per the micro, small and medium enterprise development Act, 2006 (MSMED ACT, 2006) and registered with the authorities under the above Act for the items / services covered under this tender, then the party has to indicate the entrepreneurs memorandum No. (12 digits) and enclose a copy of the certificate issued by the authorities under MSMED ACT, 2006.

INDEX

S. No.	Description	Page No
1.	Schedule-I - Instruction to tenderers.	
2.	Schedule-II - General conditions of contract with addendum/corrigendum	
3.	Schedule-III - Technical specification	
4.	Schedule-IV - Tender form/price schedule	
5.	Schedule-IV (A) - General confirmations	
6.	Schedule-V- Guaranteed technical particulars	
7.	Schedule-VI (A) - Departure from technical specification including GTP	
8.	Schedule-VI (B) - Departure from Commercial specification including delivery	
9.	Schedule-VII - List of past supplies	
10.	Schedule-VIII - Form of indicating delivery	
11.	Schedule -IX - List of equipment & technical hands available with the tendering firm	
12.	Schedule-X - Qualifying requirement	
13.	Appendix-I -Requirement	
14.	Appendix-II - Price variation formula	
15.	Appendix-III- Standardization of price variation claim	

SECTION-III

TECHNICAL SPECIFICATION FOR OUT-DOOR TYPE 145KV CURRENT TRANSFORMERS AGAINST TENDER SPECIFICATION NO. RVPN/SE/SSPC/XEN-SWG/A-IV/TN-2923

3.0. The following items are proposed to be purchased against this NIT. TN-2923

ITEM NO.

145KV CURRENT TRANSFORMERS:

(i) Ratio 1000/1A, 4C	63Nos
(ii) Ratio 1000/5A, 4C	27Nos

This section covers the design, manufacture assembly, testing at manufacturer's work before dispatch, supply and delivery of single phase, 50Hz oil immersed, self cooled, hermetically sealed out-door type 145KV current transformers for installation at various grid substations of Rajasthan. Consideration may be given to alternatives which the supplier consider advisable by reason of his own manufacturing requirements and experiences, provided descriptive matter/test 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 equipments shall be suitable for installation in system with neutral effectively grounded.

3.1 STANDARDS:

The design, manufacture and 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: 5621 -	Specification for hollow porcelain bushing
IS: 2099 -	Specification for bushings
IS: 5561 -	Specification for electric power connectors
IS: 335 -	Specification for new Insulating oils
IS: 4201 -	Application guide for current transformers
IS: 10601-	Dimensions of terminals for high voltage switchgear and control gear
IEC: 60044-1-	Specification for current transformers

Equipments and material conforming to alternative internationally recognized standard (s) which ensure (s) quality equal or better than the Indian standard(s) mentioned above should also be acceptable. In case the tenderer wishes to offer equipment conforming to other standard they shall furnish English translation of the relevant standard.

3.2 CLIMATIC CONDITIONS:

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

The equipment offered by you shall conform in all respects to the relevant Indian standard specifications except where stated otherwise in the order. Special care shall be taken in the design and manufacture equipment to

take into account the tropical conditions such as high temperature, excessive humidity, dust and salt-laden atmosphere as 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 main sea level upto 1000 meters
- (f) Dust storms are liable to occur during the period from March to July
- (g) Average No. of thunder storm days per annum - 40
- (h) Average No. of tropical monsoon (conditions)/Annum - 4 months
- (i) Average Rainfall - 10cms to 100cms (depending upon Area)

3.2.1 TROPICAL TREATMENT:

All the equipment shall be suitably designed and treated for normal life and satisfactory operation under the hot and humid tropical climate conditions specified under clause No.16 above 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 supply which have either not been specifically mentioned in this specification or your tender offer.

3.3 145 KV CURRENT TRANSFORMERS:

3.3.1. The 145KV current transformers shall be single phase, oil immersed, self cooled, hermetically sealed type suitable for the service conditions indicated above complete in all respect and conforming to the latest standards at clause No.3.1 and modern practice of design and manufacturer.

3.3.2. The cores shall be high grade non-ageing, laminated silicon steel of low hysteresis losses and high permeability to ensure accuracy at both normal and over current.

3.3.3. 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 clearly be stated in detail in the offer. These shall be provided with oil level indicator/sight glass with marking of maximum, normal and minimum level and suitable pressure relieving devices capable of releasing abnormal internal pressure where ever 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.

3.3.4 The offered 145KV CTs may be dead tank type/live tank type.

3.4 PRINCIPAL TECHNICAL PARTICULARS OF CURRENT TRANSFORMERS

S. No.	Particulars	145KV CT
1	Type of CT / installation	Single phase, oil filled, hermetically sealed, live/ dead tank type, out door type.
2	Type of mounting	pedestal
3	Suitable for system frequency	50Hz
4	Nominal system voltage	132KVrms
5	highest system voltage	145KVrms
6	Current ratio	(i) Ratio 1000/1A, 4C (ii) Ratio 1000/5A, 4C
7	Method of earthing of system	effectively earthed
8	Rated continuous thermal current (Amps)	CT shall be thermally rated for 200% of rated maximum primary current for 15 minutes & 120% of rated continuous current. However, the temperature rise test shall be carried out at 120% of rated primary current.
9	Acceptable limit of temperature rise over maximum ambient temperature of 50deg. centigrade for continuous operation at rated current.	As per ISS 2705
10	Acceptable partial discharge level	As per IEC-44-1
11	1.2/50 Micro seconds lightning impulse voltage	650KV (Peak)
12	one minute dry power frequency withstand voltage for primary winding	275KVrms
13	One minute power frequency high voltage withstand requirement for primary winding (winding sections having more than one section) and secondary winding	3KVrms
14	Total creepage distance of porcelain housing	3625mm
15	Rated short time withstand current for one second duration	31.5KArms
16	Rated dynamic withstand current	78.75KA (Peak)
17	Maximum creepage factor for hollow porcelain insulator	4
18	value of tan delta at $U_m/\sqrt{3}$	0.005 (max)

3.5 CORE WISE DETAILS OF 145 KV CURRENT TRANSFORMERS

145KV CURRENT TRANSFORMER

(A) Ratio 1000/1A, 4C

No. of Cores	Core No.	Application	Rated burden	Class of Accuracy	Max. Instrument Security Factor	Min. Knee point voltage at 75 Deg C at lowest tap	Max. Sec. winding resistance at 75 Deg. C Ohm.
4	1	Differential Protection	-	PS	--	650V	2.5
	2	Protection	-	PS	--	650V	2.5
	3	Metering	10 VA	0.5	5	--	--
	4	Bus Bar Protection	--	PS	5	650V	2.5

(B) Ratio 1000/5A, 4C

No. of Cores	Core No.	Application	Rated burden	Class of Accuracy	Max. Instrument Security Factor	Min. Knee point voltage at 75 Deg C at lowest tap	Max. Sec. winding resistance at 75 Deg. C Ohm.
4	1	Differential Protection	-	PS	--	280V	0.44
	2	Protection	-	PS	--	280V	0.44
	3	Metering	15 VA	0.5	5	--	--
	4	Bus Bar Protection	--	PS	5	280V	0.44

3.6 TEMPERATURE RISE FOR ALL CLASS 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 (Part-I). The corresponding temperature rise for the terminal connector shall not exceed at rated continuous thermal current of the CT beyond the limits prescribed in IS: 5561/1970 or latest issue.

3.7 CORES & WINDINGS FOR ALL CLASS CURRENT TRANSFORMERS:

3.7.1 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 circuits current Mu-metal or such other equivalent Ferro magnetic material shall be used for this purpose. Instrument security factor shall not exceed to 5 on all transformation ratios.

3.7.2 The current transformer cores to be used for protective relaying shall be of specified class of accuracy. The core shall be designed for minimum specified knee point voltages or maximum instrument security factor of 20 as the case may be.

3.7.3. The rating of the secondary winding shall be as per clause No.3.0 of this specification. The secondary terminals shall be brought out in a weather proof secondary terminal box fitted with a hinged/bolted door on the side of current transformer for easy access and shall be provided with short circuiting arrangement. Required transformation ratios can be achieved in any manner, but the current transformers will have to satisfy the requirement of rated VA burden. Class of accuracy short time thermal current etc. as specified in clause No.3.4 and 3.5 at all transformation ratios. The minimum knee point voltage and maximum secondary winding resistance shall correspond to the lowest ratio. 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.

3.7.4 Primary winding shall be made out of high conducting copper the design density for short circuit current as well conductivity for primary winding shall meet the requirement of IS:2705/1992 or its latest issue. However, for primary winding current density corresponding to the rated short time current shall not exceed 160Amps/Sq. mm 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 relevant ISS. Windings shall have high mechanical strength for safety against short circuit stresses.

3.7.5. The shape of external metal parts shall ensure that rain water runs off and there is no stagnation.

3.7.6. The CTs shall be of robust design, tested quality and reliable in operation. Only pure high grade paper wound evenly under controlled conditions and impregnated with mineral oil under vacuum shall be used for the main insulation.

3.8 GALVANISING AND PAINTING:

All ferrous parts of 145KV CTs exposed to atmosphere including tank and secondary terminal box shall be hot dipped galvanized as per relevant Indian Standard. Minimum thickness of sheet should be 3mm. Welded joints have to be minimized to avoid the possibility of oil leakage. In any case welding in horizontal plane shall be avoided

3.9 FITTINGS AND ACCESSORIES FOR ALL CLASS CTs:

The CTs shall be provided with the following fittings and accessories:

- (i) 2Nos. bimetallic terminal connectors with each CTs suitable for horizontal and vertical take off. The thickness of bi-metallic strip/sleeve shall be of min 2mm.
- (ii) Oil level indicator/sight glass with marking of maximum, normal and minimum level.
- (iii) Pressure release device, if design recommended.
- (iv) Expansion chamber or suitable type of device for absorbing variation in volume of oil due to change in temperature of oil.

- (v) Oil filling /drain valve/plug/ hole with sealing arrangement.
- (vi) Lifting lugs/holes.
- (vii) Weather proof secondary terminal box fitted with hinged/bolted door and complete with terminals and short circuit arrangement. The Secondary box hinged/bolted door shall have sealing arrangement.
- (viii) Two Nos. earthing terminals.
- (ix) Name and rating plate, showing details of connection diagram.
- (x) Test Tap for tan delta measurement.
- (xi) Caution plate for test tap for tan delta.

3.10 INSULATING OIL:

The quantity of insulating oil for first filling in each current transformers and complete specification of the oil shall be stated in the tender. The oil shall be EHV Grade transformer oil and conform to the requirements of latest issue of IS: 335. The Instrument Transformers shall be supplied duly filled in with EHV insulating oil and shall be hermetically sealed.

3.11 BUSHINGS:

The bushing shall be of standard make such as WSI/BHEL/MIL/BIRLA NGK/IEC only and shall conform to the relevant latest IS:5621 & IS:2099. The make and catalogue No. creepage and creepage factor and other bushing details be clearly stated in the GTPs. 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. Any other make quoted should be supported by relevant type test reports as per IS-5621 and following tests as per IS-2099

- (i) LIV test
- (ii) HVPF (wet) test

The tests should be got conducted from a Govt./a Govt. approved/a Govt. recognized/ NABL accredited lab/IALC i.e. Internal Laboratory Accreditation Cooperation(In case of foreign lab), such type test certificates should not be older than 7 years as on the date of bid opening. For this purpose, date of conducting of type test will be considered.

3.12 TERMINAL CONNECTORS:

The 145KV current transformers shall be supplied with bimetallic terminal connectors for both ends suitable for ACSR Twin Zebra conductor as per requirement given below and confirming to IS-5561.

145 KV CURRENT TRANSFORMERS:

- (i) Ratio 1000/1A, 4C - ACSR Twin Zebra having sub conductor spacing 300mm
- (ii) Ratio 1000/5A, 4C - ACSR Twin Zebra having sub conductor spacing 300mm

Each terminal connector shall be suitable for Twin Zebra for both horizontal and vertical take off arrangement. The terminal connectors should be suitable for withstanding the

200% of continuous maximum primary current for 15 minutes. The instrument transformer shall also be provided with two Nos. earthing terminals of adequate size protected against corrosion and metallicly clean. Bimetallic strips or sleeves of suitable thickness (Minimum 2mm) to prevent bimetallic corrosion shall be provided as a part of the terminal connector. The firm will furnish valid type test certificates for terminal Connectors. The tenderer will furnish valid type test reports for short time current test and temperature rise test for quoted terminal connectors of the type and make offered preferably along with tender or at the time of order execution got conducted from a Govt./a Govt. approved/a Govt. recognized/NABL accredited laboratory/ILAC i.e. International Laboratory Accreditation Cooperation(in case of foreign laboratory). However, same will not be insisted if Terminal connectors of make MILIND /NOOTAN /MEGHA /VINAYAK TRANSMISSION are supplied with CTs. The type test certificates should not be older than 7 years as on the date of technical bid opening. For this purpose, date of conducting of type test will be considered.

3.13 DRAWING AND MANUALS:

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

1. Outline general arrangement and sectional drawings showing all dimensions and weight of each item and foundation details.
2. Drawing showing inside details.
3. Diagram of connections showing details of primary and secondary windings.
4. Name /rating plate diagram.

3.13.2 INSTRUCTIONS MANUAL:

The successful tenderer shall have to supply 10 sets of operating and maintenance instructions manuals, along with the erection manual and requisite drawing of the equipment covered by this specification. One set of drawing and a manual shall also be sent along with each consignment to respective consignees.

3.13.3 NAME /RATING PLATE:

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

3.14 TESTS:

3.14.1 Each equipment covered under this specification shall comply with and shall be subjected to all routine/acceptance tests prescribed in the relevant Indian Standard Specification/IEC as mentioned in Clause 3.1 as above.

3.14.2 (i) The certified copies of tests reports from a Govt./ a Govt. approved/ a Govt. recognized/NABL accredited laboratory/ILAC i.e. International Laboratory Accreditation Cooperation (in case of foreign laboratory) of all type tests as per relevant latest standard mentioned under section-III clause 3.1 in respect of similar rating and design of tendered equipment(voltage class wise) included in this specification along with 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 report furnished above to prove the CTs of offered ratios are capable to withstand the specified short circuit level. Tenders without type test reports and supporting calculations for short circuit level are likely to be rejected. No charges for above type test reports shall be paid. The type test reports shall not be older

than 7 years from the date of technical bid opening under this TN. For this purpose, date of conducting of type test will be considered. The type tests are detailed as hereunder:-

- (a) Short time current test.
 - (i) On CT of accuracy class 0.5 or better if offered CT is of 0.5class
 - (ii) On CT of accuracy class 0.2 or better if offered CT is of 0.2class
- (b) Lightning impulse voltage withstand test.
- (c) Temperature rise test.
- (d) High voltage power frequency (wet) withstand test.

NOTE: - If the porcelain weather casing/bushing has been subjected to this test separately, the requirement of HVPF (Wet) test shall be deemed to have been complied.

(A) Type test as per IEC-60044-1/1996 and its latest amendments:

- (a) Chopped lightning impulse withstand test on primary winding.
- (b) Radio Interference Voltage test.

(ii) In the event of order, temperature rise test and instrument security current test shall be carried out once on one CT of each ratio and voltage class in the presence of the purchaser's representative without extra charges. The ISC test shall be carried out on all transformation ratios. However, one CT of each ratio along with terminal connector from each lot shall be tested at 200% of the rated maximum primary current for 15minutes.

(iii) In the event of order, the tenderer may have to get the equipment type tested (except temperature rise and instrument security current test) as per requirement of relevant ISS, on one sample of each voltage class of first lot comprising minimum 25% of order quantity in the presence of the purchaser's representative. The tenderer shall quote charges for following Type test which shall not be considered for bid evaluation:

(A) Type test as per IS-2705 Pt-I/1992 and its latest amendments

- (i) Short time current test.
- (ii) L I V withstand test.
- (iii) High voltage power frequency (Wet) withstand test.

(B) Type test as per IEC-60044-1/1996 and its latest amendments

- (i) Chopped lightning impulse withstand test on primary winding.
- (ii) Radio Interference Voltage test.

3.14.3 (i) Following routine tests as per relevant standard shall be carried out on each equipment covered by this specification in the presence of purchaser's representative free of cost by successful tenderer.

(A) Tests as per IS-2705 Pt-I/1992 and its latest amendments

- (i) Verification of terminal marking and polarity.
- (ii) Power frequency dry withstand tests on primary windings.
- (iii) Power frequency dry withstand tests on secondary windings.
- (iv) Over voltage inter-turn test.
- (v) Determination of error or other characteristics according to the requirement of the appropriate design or accuracy.

(B) Tests as per IEC-60044-1/1996 and its latest amendments

- (i) Partial discharge tests.
- (ii) Measurement of Dielectric dissipation factor at $U_m/\sqrt{3}$

All test reports shall be submitted and got approved by the purchaser before dispatch of the equipment. In addition to the routine tests all PS class CTs shall be tested in presence of Inspection Officer to prove guaranteed values of minimum knee point voltage, turn ratio test, secondary winding resistance etc. The estimated magnetization curve for Ps core shall be furnished with tender.

(ii) **SAMPLING:** - The routine/acceptance test shall be conducted on 50% quantity of offered lot for established suppliers & 100% inspection of offered lot for un-established suppliers.

3.14.4 SITE TESTS:

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 resultant of such test/tests is found not conforming to the prescribed specification/ ISS /Purchase order.

3.14.5 INSPECTION:

The following facilities shall be provided by the supplier at his own cost to the inspecting officer of RVPN during inspection/testing/witnessing:

- (1) Suitable accommodation to the inspecting officer of the RVPN. In case of joint inspection single or shared double room accommodation shall be provided.
- (2) Local conveyance between arrival point, place of stay, works and departure point.

In addition to above, the firm shall assist in arranging return ticket and reservation on the request of the inspecting officer for which the payments shall be made by the inspecting officer.

3.15 GUARANTEED TECHNICAL PARTICULARS:

Guaranteed technical particulars as per schedule- V shall be furnished along with the tender. Tenders not accompanied by guaranteed technical particulars are liable to be rejected.

3.16 MATERIAL AND WORKMANSHIP:

All material used in the manufacture of aforesaid equipment shall be of best quality and capable of satisfactory operation under climatic conditions mentioned in clause No. 3.2 above. The workmanship shall be of the highest grade and the entire manufacture in accordance with the best modern engineering practice.

3.17 COMPLETENESS OF EQUIPMENT:

Any fittings, accessories or apparatus which may not have been specifically mentioned in this specification but which are usual or necessary for the equipment shall be deemed to have been included in this specification and in the scope of supply of tenderer. All equipments shall be completed in all respect.

3.18 LATENT DEFECTS ERRORS AND OMISSIONS:

Any material/equipments or parts thereof that develops defects, errors or commissions in the apparatus, not disclosed prior to the final acceptance by the purchaser but disclosed during the guarantee period shall be corrected promptly the apparatus or parts thereof shall be replaced by the supplier free of charge and all expenses for the transportation, handling, installation of such replacement or any other incidental charges shall be borne by the supplier.

3.19 SCHEDULE OF REQUIREMENTS/PRICES AND DELIVERIES:

3.19.1 The tenderers shall quote for both FOR destination and ex-works prices separately and delivery in the Schedule-IV & Schedule-VIII respectively.

3.19.2 Tenders must submit all the schedules duly completed in all respects with the tenders.

3.19.3 The tenderer shall quote the prices after considering the MODVAT Benefits accrued to them.

3.20 DEVIATIONS:

Any deviations from the provisions of section-I, II, III of this specification shall be clearly listed and brought out separately in schedule-VI A & VI B "technical deviations from the specification" and "commercial deviations from the specification" mentioning of deviations as where in tender will not be consider as deviation. Printed terms & conditions if any, attached will not be considered. Otherwise, it will be presumed that equipments offered are strictly conforming to this specification.

3.21 QUALITY ASSURANCE PLAN:

The tenderers are required to furnish the quality assurance plant 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.

SCHEDULE-IV A**MUST BE FILLED IN BY THE TENDERER AND ATTACH WITH TECHNICAL BID (PART-I)**

The Superintending Engineer (SSPC),
RVPN, Jaipur.

Dear Sir,

With reference to your invitation to the tender against specification No. RVPN/SE/SSPC/XEN (SWG)/A-IV/TN-2923, we agree to supply the following quantity.

<i>S. No.</i>	<i>Particulars of item</i>	<i>Tendered quantity</i>	<i>Offered quantity</i>
1	2	3	4

145 KV CURRENT TRANSFORMERS:

(i) Ratio 1000/1A, 4C	63Nos
(ii) Ratio 1000/5A, 4C	27Nos

- The offer is valid for a period of 120 days after the date of opening of this tender.
- The prices are variable with base date as **1.03.2011** and date for this tender shall be **1.03.2011** irrespective of date of opening of 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 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 we shall pay penalty as per clause No.1.24 of this section-2 of this specification.
- The material shall conform to your specification No. RVPN/SE/SSPC/XEN (SWG)/A-IV/TN-2923 and as per relevant ISS in all respects
- We confirm that we agree to all the terms and conditions as well as the technical stipulations of your specification No. RVPN/SE/SSPC/XEN (SWG)/A-IV/TN-2923 and there are no deviations other than as specified in the Schedule VI (A & B).

Yours faithfully,

(Signature)
Name & Designation with seal of the firm

SCHEDULE-N**TENDER FORM FOR SUPPLY OF 145KV CURRENT TRANSFORMERS AGAINST SPECIFICATION NO.RRVPNL/SE/SSPC/XEN (SWG)/A-IV/TN- 2923**

To,
The Superintending Engineer (SSPC),
Rajasthan Rajya Vidyut Prasaran Nigam Limited,
Jaipur.

Dear Sir,

With reference to your invitation to tender against specification No. RRVPNL/SE/SSPC/XEN (SWG)/A-IV/TN-2923, we agree to supply CTs as per your specification given to us with this tender enquiry. Our prices of the material offered as per requirement of this specification are as follows:

S. No.	Particulars of Material	Tendered quantity in Nos.	Quantity offered in Nos.	Unit Ex-works Prices In Rs	Excise duty (per unit in Rs.	Education cess on ED per unit in Rs.	CST/VAT per unit in Rs.	Freight per unit in Rs.	Insurance per unit in Rs.	Unit FOR Destination price in Rs.
1	2	3	4	5	6	7	8	9	10	11

We also certify that:

(1) The prices as quoted above are valid for a period of 120 days after the date of opening of tender.

(2) The prices quoted for the above items are "VARIABLE" with base date **01.03.2011** as per IEEMA formula.

Note: - (1) Rajasthan State entry tax shall be applicable on the firms having their works out side Rajasthan. The entry tax shall be born by RRVPNL on FORD price indicated above. However same will be considered while evaluating the prices. The present rate of entry tax is @ 4%. Any increase in the rate of entry tax beyond delivery schedule shall be to the suppliers account.

(2) RRVPNL is eligible for concessional rate of CST/VAT. Present concessional rate of VAT is 5% for which requisite certificate shall be issued by the purchase officer.

(3) The charges for type tests as per clause No.3.14. of specification are to be quoted separately by the firm.

Signature of tenderer with rubber seal & date

SCHEDULE -VGUARANTEED TECHNICAL PARTICULARS

S. No.	PARTICULARS	
1	2	3
1	Name of manufacturer and address	
2	Manufacturer's type designation.	
3	a) Normal system voltage (KV rms). b) Highest system voltage (KV rms).	
4	Rated frequency (Hz.)	
5	CT ratio.	
6	Rated insulation level :	
	a) 1.2/50 micro second impulse withstand voltage (KVP)	
	b) One minute power frequency dry withstand test voltage (KV rms)	
	c) One minute power frequency wet withstand test voltage (KV rms)	
	d) One minute power frequency withstand test voltage on secondaries (KV rms).	
7	Rated continuous thermal current.	
8	Rated short time thermal current of primary for 1 sec.	
9	Rated dynamic withstand current of primary (KAP)	
10 (A)	CT characteristics :	
	a) Rated primary current (Amps.).	
	b) Rated secondary current (Amps.).	
	c) Class of accuracy.	
	d) Accuracy limit factor.	
	e) Max. instrument security factor.	
	f) Rated burden (VA).	
	g) Min. knee point voltage (V).	
	i) At lowest ratio.	
	ii) At middle ratio.	
	iii) At highest ratio.	
	h) Max. secondary winding resistance corrected to 75 deg. C (Ohms.)	
	i) At lowest ratio.	

	<ul style="list-style-type: none"> ii) At middle ratio. iii) At highest ratio.
	<ul style="list-style-type: none"> i) Max. exciting current at Knee point voltage. <ul style="list-style-type: none"> i) At lowest ratio. ii) At middle ratio. iii) At highest ratio.
	<ul style="list-style-type: none"> j) Max. exciting current at 50% of knee point voltage. <ul style="list-style-type: none"> i) At lowest ratio. ii) At middle ratio. iii) At highest ratio.
	<ul style="list-style-type: none"> k) Max. exciting current at 25% Of knee point voltage. <ul style="list-style-type: none"> i) At lowest ratio. ii) At middle ratio. iii) At highest ratio.
	<ul style="list-style-type: none"> l) Core details : <ul style="list-style-type: none"> i) Material. ii) Size (mm). iii) Weight (Kg.)
11	Flux density at knee point (Knee Point defined as the point at which a 10% increase in voltage produces 50% increase in magnetisation current(Wb/cm sq.)/tesla/cm sq.
12	Type of primary winding.
13	<ul style="list-style-type: none"> Details of windings <ul style="list-style-type: none"> a) Primary <ul style="list-style-type: none"> i) Material ii) No. of turns <ul style="list-style-type: none"> at lowest ratio at middle ratio at highest ratio (iii) Cross sectional area of Each turn in sq.mm <ul style="list-style-type: none"> at lowest ratio at second ratio at highest ratio b) Secondary <ul style="list-style-type: none"> i) Material ii) No. of turns iii) Cross sectional area of each trurn in sq.mm

14	Winding connections for obtaining CT ratios : i) At lowest ratio. ii) At Middle ratio. iii) At highest ratio.
15	a) Guaranteed ratio error (max.) b) Guaranteed phase angle error (max.) c) Guaranteed composite error (max.)
16	Max. temp. rise at rated Continuous thermal current at rated frequency and with rated burden over max. ambient temp. of 50 deg. C.
17	Insulation class.
18	Whether magnetisation curves furnished
19	Porcelain insulators : a) Make. b) Total creepage distance (mm). c) Protected creepage distance (mm) d) IS to which insulator conforms. e) Arcing distance (mm). f) Max. creepage factor.
20	Current density in primary winding corresponding to : (a) Short time thermal rating of 1sec. b) Normal continuous current.
21	Total weight of complete CT with oil(Kg.)
22	Insulating oil : a) Weight (Kg.) b) Volume (ltr.)
23	a) Overall dimensions (mm). b) Thickness of tank sheet (mm).
24	Mounting details.
25	Type of insulating oil, whether conforming to IS:335.
26	Type of treatment. a) For external surfaces of all

	ferrous parts. b) Internal surfaces of all ferrous parts in contact with oil.	
27	Whether following provided with CTs : a) Pressure relieving device. b) Oil filling/drain valve/plug/hole. c) Nitrogen or any other inert gas above oil level/expansion chamber or device for absorbing effects of temp. variation on oil. d) Whether proof secondary terminal box fitted with hinged/bolted door, complete terminals and short circuit arrangements with removable gland plate with gland to receive control cables. e) Lifting lugs/holes. f) Rating and connection diagram plates g) Two earthing terminals. h) Whether provision made for fixing base/legs with bolts, nuts and washers for holding down the CTs.	
28	Type test reports.(Report Nos. enclosed).	
29	IS to which CT conforms.	
30	Make of terminal Connector (Bimetallic).	
31	Value of tan delta at $U_m/\sqrt{3}$	

SCHEDULE -VI (A)

DEPARTURE/DEVIATION FROM TECHNICAL SPECIFICATION INCLUDING GTP TO BE FILLED IN BY THE BIDDER

DEPARTURE FROM TECHNICAL SPECIFICATION INCLUDING GTP IF ANY INDICATED AT OTHER PLACES IN THE OFFER EXCEPT THIS SCHEDULE SHALL NOT BE CONSIDERED AS A DEVIATION

The tenderer shall state under this schedule the departures from the purchaser's specification of TN-2923 in respect of technical details and GTPs are as under.

S. No.	Name of the item	Purchaser's specification clause reference	Existing provision	Modification desired	Remarks
1	2	3	4	5	6

Certified that we agree to all technical specification of TN-2923 except for the deviation to the extent indicated above

Signature
(Name & designation with seal of tenderer)

SCHEDULE -VI (B)

DEPARTURE FROM COMMERCIAL TERMS AND CONDITIONS OF THE SPECIFICATION TO BE FILLED IN BY THE BIDDER

DEPARTURE FROM COMMERCIAL TERMS AND CONDITIONS FROM THE SPECIFICATION INCLUDING DELIVERY SCHEDULE IF ANY INDICATED AT OTHER PLACES IN THE OFFER EXCEPT THIS SCHEDULE SHALL NOT BE CONSIDERED AS A DEVIATION

The tenderer shall state under this schedule the departures from the purchaser's specification of TN-2923 in respect of commercial terms and conditions as under.

S. No.	Name of the item	Purchaser's specification clause reference	Existing provision	Modification desired	Remarks
1	2	3	4	5	6

Certified that we agree to all commercial terms and conditions as laid down in general conditions of contract to the specification including delivery schedule of TN- 2923 except for the deviation to the extent indicated above

Signature
(Name & designation with seal of tenderer)

SCHEDULE VII

LIST OF PAST SUPPLIES:

The tenderer shall state under this schedule whether materials and equipments similar or higher rating of tendered material and equipment have been previously supplied by them. A list shall be given of such orders executed by them during last five years indicating the names of purchasing organizations, with complete address, quantities ordered/supplied and when supplies were effected in the format given below:

S. No.	Detailed particulars of items supplied	Qty. Order No.& date.	Name of purchasing authority.	Dt of completion.	If executed partially or not.	Whether still pending for supply.	Delivery stipulated to be executed.	Remarks
1.	2.	3.	4.	5.	6.	7.	8.	9. 10.

It is certified that the information furnished above is correct to the best of my knowledge & we are liable for action if any information is found incorrect.

Note: Separate schedules are to be furnished by the tenderer for past supplies to Erstwhile RSEB/RRVPL. Other state Electricity Board's and other department and organization

Signature of tenderer firm with seal

SCHEDULE-VIII**DELIVERY SCHEDULE**

The delivery schedule of the material desired by the purchaser is as mentioned hereunder:

<i>S. No.</i>	<i>Particular of material</i>	<i>Desired delivery schedule</i>
---------------	-------------------------------	----------------------------------

145KV CURRENT TRANSFORMERS:

- | | | |
|------|---------------------------------|---|
| (i) | Ratio 1000/1A, 4C -
(63Nos.) | 100% of the ordered quantity within 4 months from the date of issue of P.O. |
| (ii) | Ratio 1000/5A, 4C -
(27Nos.) | 100% of the ordered quantity within 3 months from the date of issue of P.O. |

NOTE: - The above delivery schedule can be reviewed by the purchaser at his discretion.

Signature
Name & Designation with Seal of tenderer

SCHEDULE -IX**LETTER OF CAPACITY**

(To be filled in by the tenderers and send with the tender)

Manufacturer or their authorised agents who are quoting against this tender are requested to furnish the following information along with the tender. The Chief Engineer will have discretion to ignore the tender without the under noted particulars and/or incomplete particulars:-

1. Name & address of manufacturer's Company of firm.
2. Place where works exists.
3. Details of machinery particulars with the B.H.P of each item installed in the workshop.
4. Details of staff employee in the works shop.
5. Date when started the manufacturer of items.
6. Literature and drawing of items manufactured showing the description, size design and other important technical particulars.
7. List of items manufactured.
8. Details of order so far executed alongwith the name of organization to whom supplied
9. Manufacturing capacity.
10. Is the workshop open for inspection by the representative of the Board if required
11. Statement of financial resources and banking reference.
12. Testing facilities available for the manufactured articles in the testing laboratory of works.
13. Whether the firm is a small/medium/large scale industry.
14. Registration No. with:
 - (i) Small scale national/ State.
 - (ii) D.G.T.D.
 - (iii) State Industries Department

Signature of the tenderer with seal

SCHEDULE-X**PRE-QUALIFYING REQUIREMENTS FOR PURCHASE OF CURRENT TRANSFORMERS BY RVPN****1.0 Status of Bidder:**

- (a) The bidder should be a manufacturer.
- (b) The bidder may also quote as sole distributor / sole selling agent provided the manufacturer furnishes valid authorization in prescribed proforma at **Annexure-I** in favour of the bidder furnishing the bid and the manufacturer fulfils the qualifying requirement as provided in the bid document.

2.0 Past Supply & Performance Criteria:

The bidders shall meet both the past supply & performance criteria as detailed below:-

2.01 Past Supply Criteria:

2.01.1 The bidder should have supplied a minimum 40% of the NIT quantity of (i) similar or of higher voltage class (ii) similar or of better accuracy class of tendered material/equipment in any one year (i.e. continuous period of 12 months) during the last five years as on the date of technical bid opening to meet the past supply criteria for full NIT quantity.

2.01.2 In case of those bidders who have supplied less than 40% of the NIT quantity but more than **20%** of NIT quantity of (i) similar or of higher voltage class (ii) similar or of better accuracy class in any one year (i.e. continuous period of 12 months) during last five years as on the date of technical bid opening, the quantity for which the bid will be considered to be meeting the past supply criteria shall be worked out proportionately on the basis of quantity supplied (i.e. to qualify for full NIT quantity, the quantity supplied is to be 40% of NIT quantity).

2.01.3 The bids of those bidders who have supplied less than **20%** of (i) similar or of higher voltage class(ii) similar or of better accuracy class of NIT quantity in one year (i.e. continuous period of 12 months) during last five years as on the date of technical bid opening, will be considered non-responsive.

2.01.4 In support of fulfillment of the past supply criteria, the bidder shall furnish documentary evidence in the form of certificate from Chartered Accountant. This certificate should be either in original or copy duly attested by Notary. The bidder shall also sign and affix seal on the C.A. Certificate. The certificate should have membership number with the name & address of the chartered accountant. It should clearly indicate the quantity supplied, period of supply, voltage class/accuracy class of the material etc.

2.02 Performance Criteria:

2.02.1 At least 20% of NIT quantity of (i) similar or of higher voltage class (ii) similar or of better accuracy class material supplied by the bidder should have been in satisfactory operation for a continuous period of at least one year during last 5 years as on the date of technical bid opening to meet the performance criteria for full NIT quantity.

2.02.2 In case less than 20% of NIT quantity but more than 10% of NIT quantity of (i) similar or of higher voltage class(ii) similar or of better accuracy class material/equipment is in satisfactory operation as on date of technical bid opening then the quantity for which the bid will be considered to be meeting the performance criteria shall be worked out proportionately on the basis of quantity for which the performance has been furnished (i.e. to qualify for full NIT quantity, the performance should be for 20% of NIT quantity).

2.02.3 In cases, where less than 10% of NIT quantity of (i)similar or of higher voltage class(ii) similar or of better accuracy class material/equipment is in satisfactory operation as on date of technical bid opening then the bid of such bidders will be considered non-responsive.

2.02.4 In support of the performance criteria, the bidder shall furnish the performance certificate for satisfactory performance from the purchaser/user in original or duly notarized in the prescribed proforma at Annexure-II.

In case of those bidders who have supplied the(i)similar or of higher voltage class(ii) similar or of better accuracy class of tendered material to RVPN shall furnish the details of such supplies in Annexure-II duly signed by them and in such cases the performance certificate from the Users will not be insisted. However for the supplies made to other Utilities the satisfactory performance certificate as per Annexure-II from the Purchaser / User is required to be enclosed with the bid.

2.02.5 The bids of the bidder will be considered for the quantity for which the bidder meets both the past supply and performance criteria as detailed below:-

S. No.	Past Supply Criteria	Performance Criteria	Quantity for which bid will be considered qualified.
1	2	3	4
1.	≥ 40% of NIT quantity of (i)similar or of higher voltage class(ii) similar or of better accuracy class of tendered material/equipments in any one year (i.e. continuous period of 12 months) during last five years as on the technical bid opening.	≥ 20% of NIT quantity of (i)similar or of higher voltage class(ii) similar or of better accuracy class tendered material/equipments should be in satisfactory operation for a continuous period of at least one year during last 5 years as on the date of technical bid opening.	If the past supply is for equal to or more than 40% of the NIT quantity and also satisfactory performance is for equal to or more than 20%of the NIT quantity; the bid of the bidder will be considered for 100%NIT quantity.
2.	<40% of NIT quantity but ≥ 20% of NIT quantity of (i) similar or of higher voltage class (ii) similar or of better accuracy class of tendered material/equipments in any one year (i.e. continuous period of 12 months) during last five years as on the technical bid opening.	<20% of NIT quantity but ≥ 10% of NIT quantity of (i)similar or of higher voltage class(ii) similar or of better accuracy class of tendered material/equipments should be in satisfactory operation for a continuous period of at least one year during last 5 years as on the date of technical bid opening.	The quantity for which the bid is meeting the past supply and performance criteria will be worked out on the basis of the quantity supplied and the quantity is in satisfactory operation as explained at 2.01 and 2.02. The bid of the bidder will be considered for the quantity which is lower of the two.

3.	<20% of NIT quantity of (i)similar or of higher voltage class(ii) similar or of better accuracy class of tendered material / equipments in any one year (i.e. continuous period of 12 months) during last five years as on the technical bid opening.	<10% of NIT quantity of (i)similar or of higher voltage class(ii) similar or of better accuracy class of tendered material/ equipments is in satisfactory operation for a continuous period of at least one year during last 5 years as on the date of technical bid opening.	If either past supply is for less than 20% of the NIT quantity or the performance is for less than 10% of NIT quantity, the bids will be considered non responsive.
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NOTE:(1) In case the quantity worked out for past supply and performance on the basis of percentages is in fraction then the fraction below 0.5 will be ignored and in case the fraction is either 0.5 or higher then next whole number will be considered.

(2) The past supplies/performance for 110KV/100KV system may be considered equivalent to 132KV system, wherever equipment/material supplied for 110KV/100KV system is equivalent to the one being purchased for 132KV voltage level i.e. the Impulse level & power frequency voltage is corresponding to higher system voltage i.e. 145KV. For this, the bidder shall furnish copy of relevant purchase order with GTP duly attested by Notary public.

(3) M/s SCT Ltd. Ghaziabad, M/s Universal Magnoflux Pvt. Ltd., Indore, M/s Heptacare Power Industires Pvt. Ltd., Meerut and M/s Mehru Electrical & Mechanical Engineers Pvt. Ltd., Bhiwadi are exempted from furnishing the documents against past supply & performance criterion as mentioned above.

3.0 Type Test Criteria:

3.01. The bidder shall furnish valid and authenticated Type test certificate as per clause no.3.14 of spec from a Govt. / a Govt. approved / a Govt. recognized / NABL accredited laboratory /ILAC i.e. International Laboratory Accreditation Cooperation (in case of foreign laboratory) of similar rating and design of tendered material / equipment. Such type test certificate 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 from in house laboratory of tendering firm even if it is a Govt. approved / Govt. recognized/ NABL accredited / 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.

3.02 The bidder should furnish documentary evidence in support of the laboratory whose type tests 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).

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

3.04 The bids of only those bidders shall be considered to be meeting the type test criteria who furnishes complete type test certificate with the bid as per above provision.

However in the following cases the bid of the bidder may be considered meeting the type test criteria if the bidder furnishes an undertaking stating that valid type test certificate from a Govt./Govt. approved/Govt. recognized/NABL accredited/ILAC Accredited laboratory shall be furnished before commencement

of supplies (without asking any delivery extension) along with bank guarantee with the technical bid from a Nationalized/Scheduled bank in prescribed proforma at Annexure-II (A) or DD / Pay order amounting to Rs. 1.5lacs.

- (i) Where one or more type test (s) is/are older than 7 years.
- (ii) Where some changes in respect of type test procedure of existing type tests have been introduced in the relevant standard.

3.05 In case, the bidder fails to furnish the type test certificate before commencement of supplies, their bank guarantee / DD / pay order will be invoked/forfeited and their performance will be adjudged poor.

4.0 The bids of only those bidders will be considered to be qualified for price bid opening who meet the qualifying criteria at 1 to 3 above. Such bidders shall however quote for minimum 20% of NIT quantity, failing which the offer will be considered non-responsive.

5.0 Poor Record of Performance and Delivery:

5.01 RVPN reserves the right to reject any offer on the basis of poor after sales service and performance of the equipment supplied by the bidder against the previous orders. For this purpose the orders executed by bidder up to last three years (as on the date of bid opening) for the same items in RVPN shall be considered.

5.02 The bids of existing suppliers will not be considered for opening the price bid in the following cases:-

- (i) The bidders who are defaulters for 25% or more quantity for more than 6 months or any quantity for more than 12 months in making the supplies against order placed during last three years as on the date of technical bid opening beyond the overall delivery schedule for the total ordered quantity.
- (ii) The bids of firms which have been debarred, black listed or with whom business relations have been severed.

6.0 RVPN reserves the right to accept minor deviations in Qualifying requirement & Techno-Commercial Conditions on the merits.

ANNEXURE-1**MANUFACTURERS' AUTHORIZATION FORM**

No. _____ dated _____

To

Dear Sir,

NIT Under (TN No. _____) for supply of _____ (item)

We _____ who are established and reputable manufacturers of _____ (name & descriptions of goods offered) having factory) at (address of factory) do hereby authorize M/s _____ (Name and address of Agent) to submit a bid, and sign the contract with you for the above goods manufactured by us against the above NIT under TN No. _____

No company or firm or individual other than M/s _____ are authorized to bid, and conclude the contract for the above goods manufactured by us against this specific NIT.

We hereby extend our full guarantee and warranty as per the General Conditions of Contract appended with specification for the goods and services offered for supply by the above firm against this NIT.

Yours faithfully,

(Name of manufacturer)

Note: This letter of authority should be on the letter head of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

ANNEXURE-II**PERFORMANCE CERTIFICATE**

It is to certify that M/s. _____ has supplied the following materials for the quantities indicated against each.

S. No.	Order no. & date	Designation & address of order placing authority/User	Description of material	Quantity	Name of S/S or line along with voltage rating where material installed	Date of commissioning	Performance of material

The above mentioned material installed in our system and its performance is found satisfactory.

Date of issuing _____

Signature of issuing authority with seal
Name and Designation of issuing authority
Address along with Phone No. and
Fax of issuing authority

NOTE : In the cases where similar or higher rating material has been supplied to RVPN, the bidder shall furnish the details of such supplies in the above proforma which shall be signed by their authorized signatory along with seal and certificates is not required from the Purchaser/ User in respect of such supplies.

ANNEXURE- II A***BANK GUARANTEE IN LIEU OF FURNISHING TYPE TEST CERTIFICATE***

(On Rajasthan Non Judicial Stamp paper worth Rs.100).

To,

The Chief Engineer (MM),
RRVPL, New MM Building, Old Power House Premises,
Near ram Mandir, Bani Park, Jaipur

Dear Sir,

Whereas Rajasthan Rajya Vidyut Prasaran Nigam Ltd, Jaipur (hereinafter called the purchaser) has issued a tender enquiry under TN-_____for procurement of _____(name of materials).

Whereas M./S._____ (hereinafter called the bidder) has furnished a bid for supply of _____to the Chief Engineer (MM), Rajasthan Rajya Vidyut Prasaran Nigam Ltd, Jaipur or his nominated officer (s).

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

Whereas, M/S._____ (the bidder) have requested us (name of the bank) to furnish the bank guarantee, in lieu of the type test report, 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 obligatory 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 in 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 reports. As to whether the occasion or ground has arisen for such demand the decision of the Chief Engineer (MM), Rajasthan Rajya Vidyut Prasaran Nigam Ltd, Jaipur or any other officer exercising the powers of Chief Engineer, Rajasthan Rajya Vidyut Prasaran Nigam Ltd., shall be final.

The liability of the bank shall not at any time exceed Rs. _____ (Rs. in words).

The under taking 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 guarantee.

The guarantee herein contain 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 Jaipur in Rajasthan.

The bank further undertakes not to revoke this guarantee during its currency except with previous consent of the CE (MM), RRVPNL, Jaipur.

Notwithstanding any thing contain herein before, the bank's liability under this guarantee is restricted to Rs. _____ (Rupees in words) and the guarantee shall remain in force up to _____. Unless demand or claim in writing is presented on the bank within 3 months from that date the bank shall be released and discharge from all liabilities there under.

In witness where of the Bank has executed these presents the day _____ month _____ and year _____.

Note:-The bank guarantee should be valid for a minimum period of 9 months from the opening of technical bid.

Yours faithfully,

(Bankers)
Executants

Witness: 1.
2.

ATTESTED BY NOTARY PUBLIC

APPENDIX-I**REQUIREMENT**

S. No.	Particulars	Quantity
1	2	3

145 KV CURRENT TRANSFORMERS:

(i) Ratio 1000/1A, 4C	63Nos
(ii) Ratio 1000/5A, 4C	27Nos

NOTE: - The total quantity as stated in column No.3 is tentative and may increase/decrease as per requirement at the time of decision of tender.