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उत्तर दक्षिण हरियाणा बिजली वितरण निगम
UTTAR DAKSHIN HARYANA BIJLI VITRAN NIGAM



DAKSHIN HARYANA BIJLI VITRAN NIGAM

(A Power Distribution & Retail Supply Utility, Govt. of Haryana)
An ISO 9001:2008 compliant utility, CIN:- U99999HR1999SGC034165
Regd. Office: Vidyut Sadan, Vidyut Nagar, Hisar-1250005 (Haryana)
Office of the Chief Engineer/MM, Vidyut Nagar, Hisar-1250005
(Haryana) PH- 223061(O), 223005 (Fax) [G.M./MM-223332]
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NOTICE INVITING TENDERS

(Only through e-procurement)

NOTICE INVITED TENDER No.591/DH/MM/XEN/MM-

DATED: 03.01.2018

Offers are invited for procurement of following material on Variable Price & 'FOR' destination basis anywhere in Haryana, by fixing the annual rate contract as per details given below:-

Description of item	Total qty.	Est. cost
3 phase 11KV/433-250V, 200 KVA oil immersed, naturally cooled Aluminium wound outdoor type Distribution Transformers as per Nigam Technical Specification no. CSC-142/DH/UH/P&D/2015-16 details as per Tender Documents.	1800 Nos. Min.	37.68 Crore
	2700 Nos. Max.	56.52 Crore
Date of start	Last date of submission	Opening date of part-I
08.01.2018	30.01.2018 (13.00 Hours)	30.01.2018 (15.00 Hours)

Tender documents having detailed terms and conditions can be seen/downloaded from the portal <https://haryanaeprocurement.gov.in> and www.dhbvn.org.in/web/portal/tenders

Superintending Engineer/MM
For CE/MM, DHBVN, Hisar

For Publication only



Schedule-A

DAKSHIN HARYANA BIJLI VITRAN NIGAM

NOTICE INVITING TENDER
(Only through e-procurement)
SCHEDULE OF TENDER (SOT)

a NOTICE INVITING TENDER (NIT) NO.591	/DH/MM DATED: -03.01.2018					
b) e-tender no.	68866					
c. MODE OF TENDER	e-Procurement System (Online Part I - Techno-Commercial Bid and Part II - Price Bid Through https://haryanaeprocurement.gov.in of Nextenders India Pvt. Ltd.)					
d. Tender Enquiry No. under NIT No.	QD-771					
e. Date of NIT available to parties to download	08.01.2018					
f i) Earnest Money Deposit	2% of estimated cost subject to max. Rs. 2 Lacs					
ii) Tender Fees (Non-refundable)	<table border="1"><tr><td>For all the bidders except Haryana based MSMEs and KVI units (Rs.)</td><td>For the Haryana based MSMEs and KVI units (Rs.)</td></tr><tr><td>5000/-</td><td>1000/-</td></tr></table>	For all the bidders except Haryana based MSMEs and KVI units (Rs.)	For the Haryana based MSMEs and KVI units (Rs.)	5000/-	1000/-	
For all the bidders except Haryana based MSMEs and KVI units (Rs.)	For the Haryana based MSMEs and KVI units (Rs.)					
5000/-	1000/-					
iii) E-Service Fee (Non-refundable)	Rs. 1000/-					

Offer are invited for procurement of following material through fixing the rate contract on 'Variable' & 'FOR' destination rates basis anywhere in Haryana, as per details given below. The rate contract shall be valid for one year from the date of issue of rate contract and can be extended further for one more year with mutual consent.

SCHEDULE OF MATERIAL: -

T.E. no.	Description of material	DHBVN		UHBVN		Total	
		Min	Max	Min	Max	Min	Max
QD-771	3 phase 11KV/433-250V, 200 KVA oil immersed, naturally cooled Aluminium wound outdoor type Distribution Transformers as per Nigam Technical Specification no. CSC-142/DH/UH/P&D/2015-16 details as per Tender Documents.	1200	1800	600	900	1800	2700

- 1) Only those tenders will be considered who fulfill the **Pre Qualification Conditions** mentioned in the tender documents (as elaborated in **Annexure-II**)



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- 2) Only those tender shall be considered who deposit the earnest money and tender cost & E-Service Fee by due date.

Information Regarding Online Payment of Tender Document , eService & EMD Fee.

- 1) The Bidders can download the tender documents from the Portal: <https://haryanaeprocurement.gov.in>. The Bidders shall have to pay for the Tender documents, EMD Fees & e-Service Fee online by using the service of secure electronic payment gateway. The secure electronic payments gateway is an online interface between suppliers and online payment authorization networks. The Payment for Tender Document Fee and eService Fee can be made by eligible bidders/ suppliers online directly through Debit Cards & Internet Banking Accounts and the Payment for EMD can be made online directly through RTGS / NEFT.
- 2) If the tenders are cancelled or recalled on any grounds, the tender document fees & e- service fee will not be refunded to the agency.
- 3) The detailed procedure/instructions to bidder on Electronic Tendering System are at **Annexure-I**.
- 4) **For any clarification regarding bid preparation and bid submission, please contact: M/s Nextenders (India) Pvt. Ltd.**
O/o. DS&D Haryana, SCO – 09, IInd Floor, Sector – 16, Panchkula – 134108
E - mail: Chandigarh@nextenders.com Help Desk: 1800-180-2097 (Toll Free Number)
- 5) The Tenderers can submit their tender documents (Online) as per the dates mentioned in the key dates schedule:

Key Dates schedule:

Sr. No.	Department Stage	Tenderer's Stage	Start date and time	Expiry date and time
1	-	Downloading of Tender Documents & Bid Preparation	8.01.2018 12.00 Hours	30.01.2018 13.00 Hours
2	Manual submission of technical documents			Upto 03.02.2018 (15.00 Hrs.)
3	Technical Opening (Part-I)	-		30.01.2018 15.00 Hours
4	Short listing of Technical bids & Opening of Financial Bid			Will be intimated to the firms on their E-mails

Superintending Engineer/MM
For CE/MM, DHBVN, Hisar



Instructions to bidder on Electronic Tendering System

These conditions will over-rule the conditions stated in the tender documents, wherever relevant and applicable.

1. **Registration of bidders on eProcurement Portal:-**

All the bidders intending to participate in the tenders processed online are required to get registered on the centralized e - Procurement Portal i.e. <https://haryanaeprocurement.gov.in>. Please visit the website for more details.
2. **Obtaining a Digital Certificate:**
 - 2.1 The Bids submitted online should be encrypted and signed electronically with a Digital Certificate to establish the identity of the bidder bidding online. These Digital Certificates are issued by an Approved Certifying Authority, by the Controller of Certifying Authorities, Government of India.
 - 2.2 A Digital Certificate is issued upon receipt of mandatory identity (i.e. Applicant's PAN Card) and Address proofs and verification form duly attested by the Bank Manager / Post Master / Gazetted Officer. Only upon the receipt of the required documents, a digital certificate can be issued. Formoredetailsplease visitthewebsite–
<https://haryanaeprocurement.gov.in>.
 - 2.3 The bidders may obtain Class-II or III digital signature certificate from any Certifying Authority or Sub-certifying Authority authorized by the Controller of Certifying Authorities or may obtain information and application format and documents required for the issue of digital certificate from:
M/s Nextenders (India) Pvt. Ltd.
O/o. DS&D Haryana,
SCO – 09, IInd Floor,
Sector – 16,
Panchkula – 134108
E - mail: Chandigarh@nextenders.com
Help Desk: 1800-180-2097 (**Toll Free Number**)
 - 2.4 Bid for a particular tender must be submitted online using the digital certificate (Encryption & Signing), which is used to encrypt the data and sign the hash during the stage of bid preparation & hash submission. In case, during the process of a particular tender, the user loses his digital certificate (due to virus attack, hardware problem, operating system or any other problem) he will not be able to submit the bid online. Hence, the users are advised **to keep a backup of the certificate** and also keep the copies at safe place under proper security (for its use in case of emergencies).



- 2.5 In case of online tendering, if the digital certificate issued to the authorized user of a firm is used for signing and submitting a bid, it will be considered equivalent to a no-objection certificate/power of attorney /lawful authorization to that User. The firm has to authorize a specific individual through an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of the firm in the department tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm.
- 2.6 In case of any change in the authorization, it shall be the responsibility of management / partners of the firm to inform the certifying authority about the change and to obtain the digital signatures of the new person / user on behalf of the firm / company. The procedure for application of a digital certificate however will remain the same for the new user.
- 2.7 The same procedure holds true for the authorized users in a private/Public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.
- 3 **Opening of an Electronic Payment Account:**
Tender document can be downloaded online. Bidders are required to pay the tender documents fees online using the electronic payments gateway service. For online payments guidelines, please refer to the Home page of the e-tendering Portal <https://haryanaeprocurement.gov.in>.
- 4 **Pre-requisites for online bidding:**
In order to bid online on the portal <https://haryanaeprocurement.gov.in> , the user machine must be updated with the latest Java. The link for downloading latest java applet is available on the Home page of the e-tendering Portal.
- 5 **Online Viewing of Detailed Notice Inviting Tenders:**
The bidders can view the detailed N.I.T and the time schedule (Key Dates) for all the tenders floated through the single portal eProcurement system on the Home Page at <https://haryanaeprocurement.gov.in>.
- 6 **Download of Tender Documents:**
The tender documents can be downloaded free of cost from the e-Procurement portal <https://haryanaeprocurement.gov.in>.
- 7 **Bid Preparation (Technical & Financial) Online/offline Payment of Tender Document Fee, eService fee, EMD fees and Submission of Bid Seal (Hash) of online Bids:**
- 7.1 The online payment for Tender document fee, eService Fee & EMD can be done using the secure electronic payment gateway. The Payment for Tender Document Fee and eService Fee can be made by eligible bidders/ contractors online directly through Debit Cards & Internet



Banking Accounts and the Payment for EMD can be made online directly through RTGS / NEFT

The secure electronic payments gateway is an online interface between contractors and Debit card / online payment authorization networks.

7.2 The bidders shall **upload** their technical offer containing documents , qualifying criteria, technical specification, schedule of deliveries, and all other terms and conditions except the rates (price bid).

The bidders shall **quote** the prices in price bid format.

7.3 Submission of bids will be preceded by submission of the digitally signed & sealed bid (Hash) as stated in the time schedule (Key Dates) of the Tender.

NOTE:-

- (A) **If bidder fails to complete the Online Bid Submission stage on the stipulated date and time, his/hers bid will be considered as bid not submitted, and hence shall not appear during tender opening stage.**
- (B) **Bidder participating in online tenders shall check the validity of his/her Digital Signature Certificate before participating in the online Tenders at the portal <http://haryanaeprocurement.gov.in>.**
- (C) **For help manual, please refer to the 'Home Page' of the e-Procurement website at <https://haryanaeprocurement.gov.in>, and click on the available link 'Download' to download the file.**

Guidelines for Online Payments in e-tendering

Post registration, bidder shall proceed for bidding by using both his digital certificates (one each for encryption and signing). Bidder shall proceed to select the tender he is interested in. On the respective Department's page in the e-tendering portal, the Bidder would have following options to make payment for tender document & EMD:

- a. Debit Card
- b. Net Banking
- c. RTGS/NEFT

Operative Procedures for Bidder Payments

- A) Debit Card
- The procedure for paying through Debit Card will be as follows.
- (i) Bidder selects Debit Card option in e-Procurement portal.
 - (ii) The e-Procurement portal displays the amount and the card charges to be paid by bidder. The portal also displays the total amount to be paid by the bidder.
 - (iii) Bidder clicks on "Continue" button
 - (iv) The e-Procurement portal takes the bidder to Debit Card payment gateway screen.



- (v) Bidder enters card credentials and confirms payment
 - (vi) The gateway verifies the credentials and confirms with “successful” or “failure” message, which is confirmed back to e-Procurement portal.
 - (vii) The page is automatically routed back to e-Procurement portal
 - (viii) The status of the payment is displayed as “successful” in e-Procurement portal. The e-Procurement portal also generates a receipt for all successful transactions. The bidder can take a print out of the same,
 - (ix) The e-Procurement portal allows Bidder to process another payment attempt in case payments are not successful for previous attempt.
- B) Netbanking
- (i) Bidder selects Netbanking option in e-Procurement portal.
 - (ii) The e-Procurement portal displays the amount to be paid by bidder.
 - (iii) Bidder clicks on “Continue” button
 - (iv) The e-Procurement portal takes the bidder to Netbanking payment gateway screen displaying list of Banks
 - (v) Bidder chooses his / her Bank
 - (vi) The Netbanking gateway redirects Bidder to the Netbanking page of the selected Bank
 - (vii) Bidder enters his account credentials and confirms payment
 - (viii) The Bank verifies the credentials and confirms with “successful” or “failure” message to the Netbanking gateway which is confirmed back to e-Procurement portal.
 - (ix) The page is automatically routed back to e-Procurement portal
 - (x) The status of the payment is displayed as “successful” in e-Procurement portal. The e-Procurement portal also generates a receipt for all successful transactions. The bidder can take a print out of the same.
 - (xi) The e-Procurement portal allows Bidder to process another payment attempt in case payments are not successful for previous attempt.
- C) RTGS/ NEFT
- The bidder shall have the option to make the EMD payment via RTGS/ NEFT. Using this module, bidder would be able to pay from their existing Bank account through RTGS/NEFT. This would offer a wide reach for more than 90,000 bank branches and would enable the bidder to make the payment from almost any bank branch across India.
- i. Bidder shall log into the client e-procurement portal using user id and password as per existing process and selects the RTGS/NEFT payment option.



- ii. Upon doing so, the e-procurement portal shall generate a pre-filled challan. The challan will have all the details that is required by the bidder to make RTGS-NEFT payment.
- iii. Each challan shall therefore include the following details that will be pre-populated:

Beneficiary account no: (unique alphanumeric code for e-tendering)



Beneficiary IFSC Code:

Amount:

Beneficiary bank branch:

Beneficiary name:

- iv. The Bidder shall be required to take a print of this challan and make the RTGS/NEFT on the basis of the details printed on the challan.
- v. The bidder would remit the funds at least one day in advance to the last day and make the payment via RTGS / NEFT to the beneficiary account number as mentioned in the challan.
- vi. Post making the payment, the bidder would login to the e-Tendering portal and go to the payment page. On clicking the RTGS / NEFT mode of payment, there would be a link for real time validation. On clicking the same, system would do auto validation of the payment made.

1. Allahabad Bank
2. Axis Bank
3. Bank of Bahrain and Kuwait
4. Bank of Baroda
5. Bank of India
6. Bank of Maharashtra
7. Canara Bank
8. City Union Bank
9. Central Bank of India
10. Catholic Syrian Bank
11. Corporation Bank
12. Deutsche Bank
13. Development Credit Bank
14. Dhanlaxmi Bank
15. Federal Bank
16. HDFC Bank
17. ICICI Bank
18. IDBI Bank
19. Indian Bank
20. Indian Overseas Bank
21. Insdusind Bank



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22. ING Vysya Bank
23. J and K Bank
24. Karnataka Bank
25. Kotak Mahindra Bank
26. Karur Vysys Bank
27. Punjab National Bank
28. Oriental Bank of Commerce
29. South Indian Bank
30. Standard Chartered Bank
31. State Bank Of Bikaner and Jaipur
32. State Bank of Hyderabad
33. State Bank of India
34. State Bank of Mysore
35. State Bank of Travencore
36. State Bank Of Patiala
37. Tamilnad Mercantile Bank
38. Union Bank of India
39. United Bank of India
40. Vijaya Bank
41. Yes Bank



NECESSARY INSTRUCTION/TERMS & CONDITIONS FOR THE BIDDER

Sr. No.	Necessary instruction/Terms & Conditions for the bidder
1.	Tender must be submitted on prescribed tender form and complete in all respects and submitted through e-procurement mode only. No other mode like email/fax etc. shall be acceptable.
2.	Tender enquiry has been floated for procurement of material as specified in NIT for fixing the rate contract valid for one year from the date of issue of rate contract (which can be extended further for one year with the mutual consent of purchaser and supplier at the same rates, terms & conditions).
3.	Tenderer must carefully study the technical specifications and general terms and conditions before preparation of tender. All terms and conditions of NIT and Corrigendum shall be applicable.
4.	The tenders not meeting the requirement of pre-qualification conditions, necessary terms and conditions of the NIT and Nigam technical specifications shall be rejected.
5.	The bidders shall have to pay for the tender documents, EMD Fees & e-Service Fee online by using the service of secure electronic payment gateway. The secure electronic payments gateway is an online interface between contractors/suppliers and online payments authorization networks. The payment for Tender Document Fee and eService Fee can be made by eligible bidders/suppliers online directly through Debit Cards & Internet banking Accounts and the Payment for EMD can be made online directly through RTGS/NEFT. The Bank charges, if any, will be to the account of the tenderer. No claims against the Nigam either in respect of interest if any due on the Security deposit/Earnest money or its depreciation in value shall be admitted
6.	Detailed procedure for depositing earnest money, order preference to Haryana firms, delivery schedule and other terms and conditions are contained in SOT & schedule D of tender documents. Each tender document is required to be signed by his authorized representative alongwith stamp and is to be uploaded thereafter.
7.	The following tenders shall be exempted from the deposit of earnest money. (i) Wholly Govt. of India owned undertakings. (ii) Wholly State owned undertakings of Haryana.
8.	The tenders should remain valid for 180 days from the date of opening of tender (Part-I in case of two part tender) otherwise the same will not be accepted and rejected out-rightly.
9.	The offers/tenders will be opened on the date and time prescribed in the Notice Inviting Tenders. In case the date of opening falls on a holiday including Sunday or a holiday is subsequently declared on that date, the tenders will be opened on next working day following the holiday.
10.	All tenders/offers will be regarded as constituting an offer or offers open to acceptance in whole or in part until the last date of validity as prescribed in the notice inviting tenders or as indicated by the tenderer in his tender/offer, whichever be later.
11.	The price must be quoted in Indian Rupees and any mistake in calculating the rupee price will not justify the claim for increase in prices.
12.	Authenticated documents to prove authority of signatory (legal power of attorney in favour of signatory) must be uploaded . Memorandum of article and Memorandum of association of the firm, if applicable, shall also be uploaded with the tender . The firm shall submit the detail information in the performa of particular of bidder. (Annexure-III)
13.	The tenderer shall give details of immovable property i.e. land, building, machinery, exact location of their property and copy of constitution/balance sheet alongwith the tender. The document shall be uploaded by the supplier/s.
14.	Tender not adhering to Nigam's delivery schedule will not be considered.
15.	If more than one bid is submitted by any/one bidder, (having same registered office), the same shall be rejected.
16.	The deviations in Technical & Commercial terms and Conditions, if any, must be brought out clearly on the performa enclosed (Annexure-V) , failing which it will be presumed that the same are

	acceptable in to-to.
17.	Tenderer/s shall submit their offer in an ambiguous free wording failing which DHBVN/UHBVN interpretation will be final.
18.	The tenders shall be submitted in two parts. Part-I shall consist technical details and commercial terms and part-II shall consist price bid only. Part-II i.e. price bids shall be opened on a date to be intimated separately for the purpose.
19.	Purchase Preference: The provision for purchase preference shall be as per policy/ guidelines issued by the State Govt. vide G.O. No. 2/2/2010-4 I B II dated 19.12.2011 and/or latest instruction issued by the State Govt. All other Policy decisions/ guidelines on procurement of Stores through the Directorate of Supplies and Disposals as applicable for the state of Haryana are also applicable in this case (Unless stated /decided otherwise). The instructions/guidelines issued by Govt. of Haryana vide G.O. No. 2/2/2010-4 I B II dated 28.05.2010, G.O. No. 2/2/2010-4 I B II dated 19.12.11, G.O. No. 2/2/2010-4 I B II dated 18.06.13, G.O. No. 2/2/2010-4 I B II dated 16.6.2014, G.O. No. 2/2/2010-4 I B II dated 9.02.15 , G.O. No. 2/2/2010-4 I B II dated 24.03.15, G.O. No. 2/2/2016-4 I B II(1) dated 20.10.16 & G.O. No. 2/2/2016-4 I B II(2) dated 20.10.16 are available on website www.dsndharyana.gov.in. The bidders are requested to download the same from website and read carefully before submitting the tender. It shall be presumed that the bidder has read these instructions/guidelines and agreed the same, while evaluating for tender submitted by the firm/supplier/tenderer.
20.	The revision of price bid after opening of Part-I i.e. technical and commercial part of the tender is not allowed. In case of withdrawing the same within the validity period, EMD shall be forfeited.
21.	If any of the firm fails to supply the material within stipulated delivery period, then the leftover quantity of said firm shall be considered for allocation to the firm (s) supplying material under the same NIT and performing better. This clause shall be applicable after issuance of purchase order of the minimum quantity of Rate Contract and with mutual consent of Nigam and the remaining suppliers under the same NIT. The defaulting firm shall have to fulfill its contractual obligations against the minimum quantity of the rate contract, else shall have to bear penal action as per the provisions in the NIT.
22.	Arithmetical Errors: - in case of any inconsistency in the prices furnished, the purchaser shall be entitled to consider the lowest prices for the purpose of evaluation and award of contract. All arithmetical errors will be rectified on the basis of the unit price or total price (in figures and in words) whichever is more beneficial to the purchaser.
23.	In the event of a firm not favoring the delivery commitments of the previous contracts, this fact will weigh against the firm tendering against a subsequent enquiry and be treated as disability. Before issue of the letter of intent or of placing the order, the previous order should be fully discharged or a reliable under taking should be given that it would be done within a reasonable period and within scope of the previous contract, if the firm declines to give this undertaking, it would be considered ineligible for competing against any subsequent tender/order and the current order would automatically pass on the next lower firm.
24.	The tender shall be issued by UHBVN/DHBVN for fixing the rate contract on behalf of both the power utilities i.e. DHBVN & UHBVN. However, all the purchase orders will be issued by CE/MM of respective utilities in a phased manner depending on the requirement of stores. The PQRs and other liabilities of the bidder shall be as per minimum quantity offered.
25.	Material offered should be strictly according to the technical specification attached with the tender documents as laid down in Annexure-A of Schedule D (Part-I) to the Terms and conditions of the contract. Unless a deviation in the specifications given in Annexure 'A' is pointed out by the tenderer specifically, it will be presumed that Offer/tender conforms to the specifications as laid down in Annexure 'A'. However, in case of any ambiguity in the Nigam's technical Specification, the provision of relevant IS with latest amendment will prevail. The concerned Director /Projects, shall be the deciding authority in such cases.
26.	EMD is liable to be forfeited in case of evidence of cartel formation by the bidder(s). The provision for penal action in case of cartel formation by the bidders shall be as per clause No. 9 of policy (guidelines) issued by the State Govt. vide G.O No. 2/2/2010-41 BII dated 28.5.2010.

27.	The purchaser reserves the right to reject any or all the tenders received without assigning any reason.
28.	The firm failing to accept the LOI/RC after having made commitments before SPC/HPPC (Nigam)/HPPC (Govt.) shall be blacklisted/ debarred from doing business with Nigam and earnest money of the firm shall be forfeited.
29.	The bidder shall submit alongwith his tender documents, the details of his production capacity, orders in hand/pending with quantity, value and delivery schedule of the material /equipments in question. The document shall be uploaded by the supplier.
30.	The bidder shall submit all the requisite documents pertaining to the plant from where the material will be supplied. The document shall be uploaded by the supplier.
31.	List of customers to whom the material in question has been supplied/orders executed financial year wise and their performance certificates shall be enclosed by the Tenderer. The document shall be uploaded by the supplier.
32.	No change in GTPs/technical parameters/drawings submitted alongwith bid shall be allowed in case the offered material is as per technical specification of Nigam.
33.	The tenderer must submit a hard copy of all the documents related to part-I (i.e. techno-commercial terms and conditions, where the tender is invited in two parts) uploaded on the site for the said tender duly certifying that these documents are same as uploaded on designated website, within 4 days of opening of part-I. (All affidavit & undertakings should be submitted in original with hard copy).
34.	<p>Submission of Quality Assurance Procedure:-The Vendor / Contractor at the time of submission of the drawings for approval from DHBVN/UHBVN is also required to submit a Quality Assurance Procedure (QAP) of the materials to be supplied for review and approval. In this QAP, the vendor / contractor shall clearly indicate the quality measures being taken by the manufacturer to maintain the quality of the finished product. The drawings/QAP once approved shall not be required to be submitted for approval again.</p> <p>QAP will indicate the following details:-</p> <p>Tests being performed on the raw material purchased by manufacturer for manufacturing of the finished product.</p> <p>Tests being conducted during manufacturing of the product (In process testing).</p> <p>Tests which shall be done on the finished product at the time of pre-dispatch inspection.</p> <p>Test results assured by the vendor.</p> <p>Tests procedure followed for the inspection with full details of test setup etc.</p> <p>The Inspection shall be carried out on the basis of the approved QAP. All the details provided by the vendor / contractor shall be verified by Nigam / Third Party during the inspection and if any deviation is found from the approved documents, it will be noted in the inspection report.</p>
35.	The firms will enter into an agreement with the Nigam to ensure that there is no fall in the prices of the item under rate contract and in case of any such price fall, the rates of the material will be revised as per any decrease in price.
36.	The max. Quoted qty. shall be considered as 1.5 times of the min. qty. quoted by the bidder/s against the NIT.
37.	MODVAT benefits, if any, be included in quoted prices and confirmed in bid submission.
38.	All the other terms and conditions will be as per latest guidelines of Govt. of Haryana and schedule D (general and particular terms & conditions of contract) and technical specification of Nigam. However, any statutory variation shall be borne by the Nigam, during contractual delivery schedule only i.e. increase in statutory variation beyond the overall delivery period shall be borne by the firm. Further, in case of award of contract / PO to the firm/s having exemption in statutory levy like GST etc. at the time of quoting the bid, the rate of such statutory levies as applicable on the date of tender opening / finalization shall be deemed to be included in the rates finalized.
39.	The post tender offers or communications received from the supplier/contractors etc. which effect the quoted and equivalent rates there by changing the merit position of the tender shall not be entertained

40.	On the day the purchaser conveys acceptance to the supplier's offer either through e-mail/fax or by a letter, the date of e-mail/fax or letter will be the date of agreement and the contractual obligations of the supplier will commence from that very date. The supplier will have no right to revoke his offer after the acceptance of purchaser.
41.	The benefits applicable vide Govt. of Haryana office order no- G.O. No. 2/2/2016-4 I B II (1) dated 20.10.16 & G.O. No. 2/2/2016-4 I B II (2) dated 20.10.16 to Haryana based Micro and Small Enterprises (Including KVI units) will be admissible only if the concerned Enterprises participate directly in the tender not through their intermediaries i.e. their dealers/agents and distributors etc. To avail the benefits of Haryana based Micro and Small Enterprises (Including KVI units), the bidders will upload the requisite documents along with the tender documents.
42.	Where ever the Excise Duty (ED),CST or VAT has been mentioned in these tender documents, the same may be read as GST as applicable w.e.f 01.07.2017
43.	Pre-qualification conditions: The firm quoting against the NIT shall meet with the Pre-qualification requirement as elaborated in Annexure-II without which the firm shall not be considered for placement of order. The PQRs and other liabilities of the bidders shall be as per min. quantity offered by the firm.



Pre-qualification conditions	
(i)	The firm should be ISO-9001:2008 certificate or above and should be a manufacturer/authorized agent of manufacturer, if Manufacturer being outside India. (His agent shall have the necessary testing facilities in India).
(ii)	<p>The turnover of the firm in any one financial year during the last five years should be equivalent or more to the estimated cost of the material of the NIT /estimated cost of the material offered. The documents showing turnover should be duly attested by CA and in support of the same, the balance sheet of that particular year may also be attached. (Estimated cost of material of NIT (taking min. qty. of the tender) is Rs. 37.68 Crore.</p> <p>Manufacturing Small Enterprises (Including Khadi & Village industries) that have filed Entrepreneurs Memoranda in Haryana will be entitled to a concession of 70% on the turnover and shall be considered qualifying accordingly.</p> <p>Manufacturing Micro Enterprises that have filed Entrepreneurs Memoranda in Haryana will be entitled to a concession of 80% on the turnover and shall be considered qualifying accordingly.</p> <p>Note: - The turnover mentioned in this clause signifies "Overall turnover of the firm". Copies of balance sheets/ certificate of registered CA be attached as a proof. (format for CA certificate regarding turnover is enclosed as Annexure VIII)</p>
(iii)	<p>Past Performance of the firm with DHBVN or UHBVN or any Central/State Govt. Power Utility in India should be satisfactory in adhering to the delivery schedule relating to purchase of material only.</p> <p>On the date of opening of bid, the bidder should have completed at least 50% supply of the ordered quantity within contractual delivery period against the latest completed purchase order of any rating/capacity at 11 KV level executed for UHBVN and DHBVN & any other power utility subject to the condition that PO has been executed successfully with or without levy of penalty or delivery extension.</p> <p>In case of supply to any other Central/ State Govt. Power supply, the firm shall submit self – certification in the form of affidavit on NJSP alongwith requisite proofs (Performa of affidavit attached at Annexure–VII). If bidder has not supplied any material to DHBVN/UHBVN, Nigam shall get pre-order inspection of his facilities done to be sure of his manufacturing capabilities. The supplies should be considered preferably against direct purchase orders placed by central/state Govt. Power Utility for supply of tendered items. However, the offered material supplied against Turnkey works shall be accounted for in adjudging the past performance where offered material was supplied to Haryana DISCOMs for consideration of supplies against turnkey works i.e. if the potential supplier qualifies in PQR clause (v) then he shall be qualifying PQR clause (iii) as well. However, for PQR clause (iii) & (v) for turnkey supplies, a continuous period of 12 month shall be considered as valid periodicity instead of a calendar year or a financial year. For consideration of supplies against turnkey works, the T/Fs should have been successfully energized on the date of opening of tender (Part-I).</p> <p>Manufacturing Micro and Small Enterprises (Including Khadi & Village industries) that have filed Entrepreneurs Memoranda in Haryana, are Exempted in respect of Past Performance & Experience as part of Qualifying Requirements of the tender.</p> <p>Manufacturing Medium Enterprises of the State that have filed Entrepreneurs Memorandum for quoted items in Haryana, may participate directly in tender and not through any intermediaries (their dealers/agents/distributors), (they) will not subcontract to any other firm and to (they will) carry on the entire manufacturing at their enterprise.</p> <p>This concession will be applicable only for one year to newly registered Medium</p>

	<p>Enterprises or Medium Enterprises of State who are not eligible in State Public Procurement due to eligibility criteria of Past Performance & Experience. The firm will be required to submit the detailed information in respect of above details through an affidavit.</p> <p>The above relaxation are subject to fulfillment of conditions as per eligibility details as notified by the Department of Industries & Commerce, Govt. of Haryana in its order no. 2/2/2016-4IBII (1) dated 20.10.2016.</p>
(iv)	<p>Minimum quantity to be quoted shall be at least 20% of the minimum quantity of the NIT. Any offer below 20% of the minimum quantity of the NIT shall be rejected and its price bid shall not be opened (Please quote the max / min quantity of supply against this NIT).</p>
(v)	<p>The firm bidding 20% or more quantity should have supplied at least 50% of the offered quantity of distribution T/Fs (quantifiable in KVA) in any one financial year during the last 5 financial years to UHBVN/ DHBVN or any other Power Utilities. Out of the said qty. of DTs, Minimum 50% qty. (in KVA) should have been of equal (as provided in the NIT) or higher rating. The capacity wise list of supplies for that particular financial year duly attested by CA must be attached.</p> <p>The turnkey experience of the suppliers for the aforementioned material in respect of DISCOMs of Haryana should also be included while considering the numerical value of 50% material (in shape of KVA) having been supplied by the suppliers to qualify towards past experience. The performance of the suppliers in respect of their turnkey experience should also be got verified from the Construction Wing of the concerned Utility or from the concerned department of Haryana DISCOMs.</p> <p>The list of supplies for that particular year duly attested by CA must be uploaded & attached.</p> <p>Manufacturing Micro and Small Enterprises (Including Khadi & Village industries) that have filed Entrepreneurs Memoranda in Haryana are Exempted in respect of Past Performance & Experience as part of Qualifying Requirements of the tender.</p> <p>Manufacturing Medium Enterprises of the State that have filed Entrepreneurs Memorandum for quoted items in Haryana, may participate directly in tender and not through any intermediaries (their dealers/agents/distributors), (they) will not subcontract to any other firm and to (they will) carry on the entire manufacturing at their enterprise.</p> <p>This concession will be applicable only for one year to newly registered Medium Enterprises or Medium Enterprises of State who are not eligible in State Public Procurement due to eligibility criteria of Past Performance & Experience. The firm will be required to submit the detailed information in respect of above details through an affidavit.</p> <p>The above relaxation are subject to fulfillment of conditions as per eligibility details as notified by the Department of Industries & Commerce, Govt. of Haryana in its order no. 2/2/2016-4IBII (1) dated 20.10.2016. (format for affidavit for past supplies is enclosed as Annexure -VII)</p>
(vi)	<p>Only those firms who have not been blacklisted by DHBVN/UHBVNL or any State/Central Govt. Power Utility in India on the date of issuance of NIT shall be entitled to submit the tenders. The firm shall submit an affidavit of non -blacklisting on the non-judicial stamp paper of the appropriate value attested by Notary public.</p>

vii)	The bidder should have completed the supplies up to the date of opening of Part-I tenders against all the previous purchase orders of similar item irrespective of size/rating placed by UHBVN/DHBVN whose delivery period has already expired with max. penalty, failing which the bid shall be treated as non-responsive and price bid shall not be opened.
viii)	The bidder must possess a valid Bureau of Indian Standard Certification (ISI mark) of appropriate level as per technical specification of Nigam for transformers in accordance with IS: 1180-2014.



उत्तर दक्षिण हरियाणा बिजली वितरण निगम
UTTAR DAKSHIN HARYANA BIJLI VITRAN NIGAM



SCHEDULE 'C'
UTTAR/DAKSHIN HARYANA BIJLI VITRAN NIGAM LIMITED

TENDER FORM

From

To

Offer No. _____

Dated _____

Subject : Submission of e-tender against Notice Inviting Tender No. _____

dated _____ (Tender enquiry no. _____ & tender ID No. _____) of
Uttar/Dakshin Haryana Bijli Vitran Nigam Ltd.

Dear Sir,

With reference to your above mentioned notice inviting tender & tender ID, I/We hereby offer to supply/provide genuine goods/services (as per details given in the tender documents) and shall execute the supply contract truly and faithfully within the time specified and set forth in the attached terms and conditions. The goods/services to be supplied/provided will be of the quality and answerable in every aspect with this tender. I/We shall be responsible for all complaints as regards the quality of goods/services and in case of dispute the decision of the Nigam will be final and binding on me/us.

1. Rs. _____ Rupees _____) have been deposited online through designated e-procurement website, as earnest money as desired. I fully understand that in the event of my/our tender being accepted this earnest money shall be retained by you till the submission of performance guarantee by me as per clause 6, Schedule-D.

2. I/We shall have no claim to the refund of the earnest money prescribed against this tender in the event of my/our non-compliance of the purchase order provided such order is placed within the period of validity of my/our tender as indicated in paragraph 4 below.

I further understand that my earnest money will stand forfeited even if I withdraw my tender at any stage during the currency of the period of validity.

3. My/our tender shall remain valid for a period of _____ days from the last date prescribed for submission of the tenders against the NIT No. _____ dt. _____ (tender ID No. : _____).

4. My/our tender alongwith the terms and conditions with the relevant columns and annexures duly filled in, including the enclosed terms and conditions), (in the capacity of sole owner/ general or special attorney, in proof of which power of attorney is attached) is submitted for your favourable consideration.

5. I/We have read the enclosed terms and conditions carefully and accept the same in toto. My/our tender constitutes a firm offer under the Indian Contract Act 1872 and is open to an acceptance in whole or in parts. My/ our offer, if accepted on the attached terms and conditions will constitute a legally binding contract and shall operate as a contract as defined in the Indian Contract Act 1872 and the Indian sale of goods Act 1930.

6. Detail of documents submitted, duly paginated, by me is attached herewith for ready reference.

Thanking you.

DA/Details of documents

Place

Dated

Yours faithfully,
Name & Full Address of Tenderers



NIT No. 591

Enquiry No.771

SCHEDULE 'D'

(Part-I, General Conditions of Contract)

UTTAR/ DAKSHIN HARYANA BIJLI VITRAN NIGAM LIMITED

GENERAL TERMS AND CONDITIONS FOR PROCUREMENT OF EQUIPMENT STORES AND OTHER MATERIAL UNDER THE RATE CONTRACT

In construction of the terms and conditions of the contract, the following words shall have the meaning herein assigned to them, unless the subject or context otherwise requires:

- (a) The "PURCHASER" shall mean the Haryana DISCOMs (DHBVNL /UHBVNL) or their authorized agent and shall include their Successors in office, and assigns.
- (b) The "SUPPLIER" shall mean M/s _____ and shall include the supplier's legal representatives, successors, and assigns.
- (c) "MANUFACTURERS: shall mean M/s _____ and shall include their legal representatives, successors, and assigns.
- (d) "MATERIAL" all the materials to be supplied by the supplier under the contract as per clause of material specifications, prices etc.
- (e) 'SPECIFICATION' shall mean and include the specifications as detailed in the attached herewith and Drawings attached thereto as well as samples and patterns, (if any).
- (f) The 'SITE' shall mean and include the lands and buildings over/under/upon and in which the materials are to be installed and used in accordance with the terms and conditions.
- (g) 'PLACE OF DELIVERY' shall mean the place of delivery at which the supplier is responsible to deliver the material at the contract price as specified in the clause "Material-Specification: Price etc.
- (h) 'COMMERCIAL USE' shall mean the use to which the material can commercially be put.
- (i) 'MONTH' shall mean a calendar month.
- (j) 'THE TERMS' F.A.S., F.O.R., F.O.B., C.I.F. and other shipping/ despatch terms as used herein, shall have meaning in accordance with their uses in India.
- (k) 'WORK' shall mean and include supply of all the materials, plants and equipment and rendering of other services by the supplier under this contract.



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- (l) 'ACT' shall mean the Companies Act 1956 and shall include any statutory amendments, Modifications or re-enactment thereof for the time being in force.
- (m) 'Haryana DISCOMs' shall mean the UTTAR HARYANA BIJLI VITRAN NIGAM LIMITED /DAKSHIN HARYANA BIJLI VITRAN NIGAM LIMITED as incorporated under Companies Act 1956 and shall include their successors and assigns.
- (n) 'MANAGING DIRECTOR' shall mean the Managing Director of the NIGAM (DHBVNL/UHBVNL) duly appointed by the Govt.
- (o) 'CONSIGNEE' shall mean the officer to whom the materials is required to be dispatched or the person specified in the purchase order.
- (p) 'CONTRACT' shall mean the Notice Inviting Tender, Instructions for tenderers, Tender Forms, terms and conditions of contract with their annexures and purchase order/ acceptance of offer/Tender/Rate Contract.
- (q) 'DRAWING' shall mean the drawing/drawings annexed to the specification (if any) or as approved by the purchaser.
- (r) 'PURCHASE AUTHORITY' shall mean the officer signing the acceptance of tender and shall include any officer who has authority to execute the relevant contract on behalf of the purchaser.
- (s) 'PURCHASE ORDER' shall mean an order of supply of material including the acceptance of the tender.
- (t) 'ANNEXURE' shall mean the Annexure to the terms and conditions.
- (u) 'ACCEPTANCE OF TENDER' shall mean the letter or memorandum communicating to the supplier the acceptance of his offer (Tender) and shall include advance acceptance of his offer i.e. Letter of Intent or Rate Contract.
- (v) 'TEST' shall mean such test as is prescribed by the Indian Standards Institution or by the Haryana DISCOMs and/or considered necessary by the authorized agents of the purchaser, whether conducted/performed or made by them or any other agency acting under their directions.
- (w) 'DELIVERY' shall be deemed to take place on delivery of the material in accordance with the terms and conditions of the Contract after test and inspection by the purchaser or his authorized agent, to the consignee.
- (x) D.G.S & D shall mean the Director General of Supplies and Disposals, Government of India.
- (y) DS&D shall mean the Director Supplies & Disposal, Haryana.



2. PARTIES.

The parties to the contract are the supplier and the purchaser, Legal address of the parties to the Contract is under:

Supplier M/s _____

Purchaser: Dakshin Haryana Bijli Vitran Nigam (Hisar)/UTTAR Haryana Bijli Vitran Nigam (Panchkula)

For all purposes of the contract including the arbitration there under, the address of the supplier mentioned above, shall be the address to which all communications addressed to the supplier shall be sent, unless the supplier has notified a change by a separate letter containing no other communication and sent by a Speed Post (Acknowledgement Due) to the purchaser. The supplier shall be solely responsible for the consequences of an omission to notify the change of address in the manner aforesaid.

3. AUTHORITY OF THE PERSON SIGNING THE CONTRACT ON BEHALF OF THE SUPPLIER.

The person who has signed these Tender papers (including the terms and conditions) has got authority to sign on behalf of the supplier. It is discovered at any time that the person so signing had no authority to do so, the purchaser without prejudice to any other right or remedy available to him may, cancel the contract and hold such person liable to the purchaser for all costs and damages arising from the cancellation of the contract including any loss which the purchaser may sustain on account of such purchase.

4. RESPONSIBILITY OF THE SUPPLIER FOR EXECUTING THE CONTRACT.

(i) RISK IN MATERIAL

The supplier shall execute the contract in all respects in accordance with these terms and conditions. The material and every constitute part thereof, whether in possession or control of the supplier, his agents or servants or a Carrier or in the joint possession of the supplier, his agents, servants and the purchaser, shall remain in every respect at the risk of supplier until its actual delivery to the consignee at the stipulated place or destination. The supplier shall be responsible for all loss, destruction, damage or deterioration of or to the material from any cause whatsoever while the material after test and inspection is awaiting dispatch or delivery in course of transit from the supplier to the consignee. The supplier shall alone be entitled and responsible to make claims against the carrier in respect of non delivery, mis-delivery, short delivery, loss, destruction, damage or of the d e t e r i o r a t e d material entrusted to such carrier by the supplier for transmission to the consignee.



(ii) **CONSIGNEE'S RIGHT OF REJECTION**

Notwithstanding any approval which the purchaser may have given in respect of the material, it shall be lawful for the consignee to reject the material or any part thereof on behalf of the purchaser within a reasonable time after actual delivery thereof to him at the place or destination specified in Annexure 'B' if the material or any part or portion thereof is not in all respects in conformity with the terms and conditions of the contract whether on account of any loss, deterioration or damage before dispatch or delivery or during transit or otherwise howsoever.

The provision contained in clause 14 (vi) below relating to the removal of material rejected by the purchaser or his authorised agent shall, mutatis mutandis, apply to material rejected by the consignee as herein provided.

(iii) **SUBLETTING AND ASSIGNMENT:**

The supplier shall not save with the previous consent in writing of the purchaser sublet, transfer or assign the contract or any part thereof or interest therein or behalf or advantage thereof in any manner whatsoever.

5. ASSISTANCE TO SUPPLIER

The supplier shall be solely responsible to procure any raw material, license or permit required for the fulfillment of the contract. Any assistance for the procurement or attempt to tender assistance in the matter aforesaid, shall not be construed or constitute any promise, undertaking or assurance on the part of the purchaser regarding the procurement of the same to effect any variation in the rights and liabilities of the parties under the contract.

6. SECURITY DEPOSIT

- i) The earnest money furnished by the successful tenderers to whom the purchase order/ contract is allotted shall be refunded within 7 days from the verification received from the concerned Bank of performance guarantee as per contract (performa enclosed as **Annexure-VI**) by the accounts wing/DDO. The earnest money of lowest (L-2) shall be released after submission of performance Bank Guarantee by the successful bidder i.e. L-1. For remaining participating firms, EMD shall be refunded after finalization of the procurement case.
- ii) BG shall be retained by the purchaser for the period valid for 90 days after the expiry of warranty period as per clause of 'WARRANTY'.
- iii) No claim of the supplier shall lie against the purchaser either in respect of interest or any depreciation in the value of security deposit.
- iv) If, the supplier fails or neglects to observe or perform any of his obligations under this contract, it shall be lawful for the purchaser to forfeit at his absolute discretion, the Available EMD shall be forfeited and BG shall be encashed besides invoking clauses no. 21 & 28 i.e "Termination of Contract for default" & "Blacklisting of Firm" respectively.

The ibid forfeiture of EMD and encashment of BG shall be without prejudice to the right of the purchaser to recover any further amount of any liquidated and/or other damages, undue payment or overpayment made to the supplier under this contract and / or any other contract.



7. MATERIAL, SPECIFICATIONS, PRICES, ETC.

- i- The supplier shall supply the quantities of different items of material within the NIT of the best quality, workmanship and strictly in accordance with the prescribed specifications (**Annexure A**) and rates shown against each, unless any deviation in specification has been expressly pointed out in the purchase order.

The rates offered by the supplier and subsequently finalized shall remain Variable / FIRM as specified in Particular Conditions of Schedule-D (Part-II) of NIT documents.

ii- **Periodical Assessment of Rate and Undertaking for Price Fall.**

a) **Periodical Assessment of Rate:**

Since the Rate Contract is for one year thus the rates as finalized will be assessed/verified by the Nodal Agency periodically. In case a downward trend in their market rates are observed. The Nigam shall have the right to review the rates time to time.

b) **Price Fall Clause:**

- i) The prices charged for the material supplied under the rate contract by the firm shall in no way exceed the lowest price at which the firm sales the material to any person/organization Including the purchaser or any other department of the central Govt. or any Deptt. of the State Govt. or any Statutory Undertaking of the Central or State Govt. as the case may be during the delivery period till performance of all supply orders placed during the currency of the rate contracts is completed.
- ii) If at any time during the said period, the firm reduces the rates of the material as contained/ described in the contract or offer to sell such material to any person / Organization including the purchaser or any Deptt. of Central Govt. or any Deptt. of the State Govt. or any Statutory Undertaking of the Central or State Govt. as the case may be, at price lower than the price chargeable under the rate contract, shall forthwith notify such reduction / sale or offer to sale to the Nigam and the price payable under the rate contract for the material supplied after the date of coming into force of such reduction or sale offer to sale, shall stand correspondingly reduced.
- iii) The firm shall furnish the following certificate to the concerned Consignee's along with each bill against the rate contract:-

"I / we certify that there has been no reduction in sale price of the material of description identical to the material supplied to Nigam under the rate contract herein and such material has not been offered and sold by me / us to any person / organization including the purchase of any Deptts. of the Central Govt., any Deptts. of the State Govt., any statutory undertaking of the Central or State Govt. as the case may be upto the date of bill/ date of completion of supplies against all supply orders placed during the currency of the rate contract at prices lower than the prices charged to Nigam under the rate contract".



8. **SAMPLE** :- This clause shall be applicable as specified in Particular conditions of Schedule-D (Part-II)

9. (i) **DELIVERY**

The supplier shall deliver the material in accordance with the terms and conditions of the contract at the time/times and at the place/places and in the manner specified in the Annexure 'B' attached thereto. In case the due date of delivery in terms of delivery schedule falls on a holiday including Sunday or holiday is subsequently declared on that date, the firm shall be required to complete the supply by the first working day falling next to the due date.

(ii) **TIME FOR AND DATE OF DELIVERY; THE ESSENCE OF THE CONTRACT.**

The time for and the date of delivery of the material stipulated in the Annexure 'B' purchase order shall be the essence of the contract and delivery must be completed not later than the date (s) as specified in Annexure 'B'/purchase order.

(iii) **NOTIFICATION OF DELIVERY:**

Notification of delivery of dispatch in regard to each and every consignment shall be made to the purchaser and respective consignees. The supplier shall supply to consignee a packing account and full details of the contents of the package and quantity of material in order to enable the consignee to check the material on arrival at destination.

- (iv) **Early Supplies:-** This clause shall be applicable as specified in Particular Conditions of Schedule- D (Part-II).

(v) **DAMAGES FOR DELAY IN DELIVERY:**

The delivery of material as per the Annexure "B" attached to the Terms and Conditions of Contract (Schedule 'D') shall be the essence of the contract between the supplier and the Nigam and the delivery of such consignment must accordingly be insisted upon the date it is due in terms thereof.

No supplies/consignments received after the due date, on which they were actually due according to the terms of the purchase order, shall be accepted by the consignee except, with the approval of the purchasing authority.

In case the purchasing authority decides to accept a delayed supply, the supplier shall be liable to pay penalty @ one half of one percent per week or part thereof of the value of goods so delayed subject to a maximum of 5%of the total value of the delayed supplies. In case the delivery schedule provides lot wise delivery of material, lot wise penalty shall be imposed.



(vi) **PASSING OF A PROPERTY:**

Property in the material shall not pass to the purchaser unless and until the material has been delivered to the consignee, in accordance with the terms and conditions.

(vii) **TAKING OVER CERTIFICATES:**

The consignee (s) shall issue a taking over certificate after the material has been received at site (s), taken into possession, inspected, counted, measured and the supplier has supplied the copies of tests and inspection-certificate, if any, vide clause-14 "Test and Inspection".

10. FORCE MAJEURE:

The supplier shall not be liable for any loss or damage due to delay in manufacture or delivery of the material for reason arising out of compliance with regulations, orders or instructions of Central/ State Govt.. Acts of God, acts of Civil and Military authorities, fires, floods, strikes, Lockouts, freight embargoes, war-risk, riots and civil commotion.

Whenever the supplier is not in a position to supply the material within the delivery period and he wants extension in the due date (s) of delivery under this clause, he will request for such extension of the delivery period alongwith all necessary evidence, before the expiry of the scheduled date(s) of delivery. In no case, the delivery period shall be extended under this clause, in case the request is received after the due date of delivery has expired. Extension in the delivery period may be granted only for the period for which the completion of the work is proved by the supplier to have been delayed for circumstances mentioned in this clause.

In all such cases, the Nigam shall have the option to accept any portion of the balance material and cancel the order for the rest, provided, however, if any material had been manufactured exclusively for the purchaser under this contract prior to the commencement of the force majeure circumstances, it shall be accepted by the purchaser and secondly, the cancellation will be without any liability for damages on the part of the supplier.

The decision of the purchaser in all matters under this clause shall be final and binding on the supplier.

Non-availability of raw material or any other similar cause shall not be considered as a force majeure circumstance.

11. WARRANTY: - This clause shall be applicable as specified in Particular Conditions of Schedule- D (Part-II).

12. DRAWINGS :- This clause shall be applicable as specified in Particular Conditions of Schedule- D (Part-II).



13. **MISTAKES IN DRAWINGS:** This clause shall be applicable as specified in Particular Conditions of Schedule- D (Part-II).

14. **TESTS AND INSPECTION:**

The material shall be inspected and tested by the purchaser or his authorised agent before dispatch unless dispensed with in writing by the purchaser. The Supplier shall give to the purchaser at least 10 days advance notice from the date of readiness of material for such inspection and test.

The Inspection call will be generated in a pre-specified format as per **Annexure – IV**.

The vendor /supplier shall also provide a copy of approved QAP, drawings along with the inspection call. Vendor / supplier should give it in writing that he is ready for the inspection. On receipt of the advance notice from the supplier offering the material for inspection the purchasing authority will get the material inspected and issue the dispatch authorization within 20 days. In case the Inspecting Officer finds on arrival at the supplier's premises that the material was not ready for inspection and that the notice given by the supplier was unfruitful, the firm shall be liable to bear actual expenditure incurred by the Nigam on this account plus a fixed penalty of Rs. 20, 000/- for each such call made by the supplier. In addition to above a fixed amount of Rs. 10,000 per officer per-day would also be payable by the bidder in case inspecting officer deputed by Nigam and in case of 3rd party inspector, the amount of bills submitted by them. In case of joint inspection, the bidder shall be liable to pay Rs. 10,000 per man-day for the Nigam's inspector and amount of actual bills submitted by the 3rd party agency.

In case the material offered for inspection fails in 1st inspection, the Nigam will have the right to levy a penalty at 0.25 % of the value of offered material. In case the material offered for inspection fail during the 2nd inspection, the Nigam will have the right to increase the penalty to 0.5% of the value of offered material. In case, the material offered fails during the 3rd and final inspection also, the firm will be liable for penal action viz. encashment of BG, debarring/ blacklisting in future and no further opportunity for inspection would be provided to the supplier firm.

i) **FACILITIES FOR TESTS AND INSPECTION:**

The Supplier shall, at his own expense, afford to the Purchaser or his authorised agent, all reasonable facilities and such accommodation as may be necessary for such tests and inspection. The Purchaser or his authorised agent shall have full and free access at any time, during the execution of the contract to the supplier's work for the purpose aforesaid, and he may require the Supplier to make arrangement for inspection of the material or any part thereof at his premises or at any other place specified by the Purchaser or his authorised agent.

ii) The Supplier shall provide, without any extra charges, all materials, tools labour and assistance of every kind which the Purchaser or his authorised agent may demand of him for any test and inspection. The purchaser or the authorised agent, shall in his sole judgment, be entitled to remove for tests and inspection any of the material to any premises other than his (Supplier's) premises.



iii) **LIABILITY FOR COSTS OF LABORATORY TEST:**

In the event of rejection of material or any part thereof by the purchaser or his authorized agent which is removed to the Laboratory or other place of test, the Supplier, on demand, shall pay to the Purchaser all costs incurred in such removal.

iv) **METHOD OF TESTING:**

The Purchaser or his authorized agent shall have the right to put all the material or part thereof to such tests as he may think fit and proper. The supplier shall not be entitled to object on any ground whatsoever to the method of testing by the purchaser or his authorized agent.

v) The Supplier shall mark or permit the purchaser or his authorized agent to mark all the approved material with a recognized Purchaser's mark. The material which cannot be so marked, shall, if so, required by the Purchaser or his authorized agent, be packed in suitable packages or cases which shall be sealed and marked with such mark.

vi) **REMOVAL OF REJECTED MATERIAL:**

If any material is rejected by the Purchaser or his authorized agent after tests and inspection or by the consignee, the material so rejected shall be removed from the premises of rejection by the supplier at his own cost. Such rejected material shall under all circumstances lie at the risk of the Supplier from the moment of such rejection; and if such material is not removed by the Supplier within a period of 45 days, from the date of notice given by the consignee/Purchasing Department for lifting of such material, Purchaser or his authorized Agent or consignee may dispose of such material in any way at the Supplier's risk and cost and retain such portion of the proceeds as may be necessary to cover any expense incurred in connection with such disposal and shall also be entitled to recover handling and storage charges for the period during which the rejected material is not removed.

vii) **CERTIFICATE OF TEST & INSPECTION**

When the test and inspection have been satisfactory carried out by the purchaser or his representative, the purchaser or his authorized representative shall issue a communication to that effect, the material will then be dispatched by the Supplier according to dispatch instructions of the Purchaser or his authorized representative vide Clause-19 Dispatch Instructions.

viii) **POST RECEIPT INSPECTION:**

The material after receipt in the stores of the Nigam shall be subjected to inspection for its conformity to the specification by a representative of the Nigam in the presence of representative of the contractor/supplier after issuance of e-mail notice/telephonic communication to the supplier/ contractor. In case the firm fails to depute a representative on the specified date, the Nigam would be free to get the material checked in the absence of firms representative for which the firm would have no reason to protest at any stage and would be fully responsible of the outcome.



- ix) **TYPE TEST CONDITIONS:** This clause shall be applicable as specified in Particular Conditions of schedule-D (Part-II)
- x) **Non – conformance of material with provisions of technical specification:** - The material offered/received after the inspection by the authorized inspecting officer may again be subjected to the test for losses or any other parameter from any Testing House/in-house technique of the Nigam & the results if found deviating, un-acceptable or not complying to approved GTP, the lot shall be rejected and bidder shall arrange to supply the replacement within forty-five (45) days of such detection at his cost including to and fro transportation. In addition to this, a penalty @ 5% of cost of the rejected lot of material shall be imposed. The rejected material shall be lifted back by firm only after replacement with fresh material or by submission of additional BG of equivalent to the cost of material. This BG shall be released when the replacement of material with fresh material received in the Nigam Stores and material is accepted by the Nigam.

15.

GOODS & SERVICE TAX(GST)

The Purchaser shall pay Goods and Service Tax (GST) at the prescribed rates (if applicable) on the production of the following Certificates by the supplier in triplicate:

- i) Certified that the transaction in which the GST has been claimed has been/will be included in the return submitted/to be submitted to the GST authorities for the assessment of GST and amount claimed from the Haryana DISCOMs has been/shall be paid to the GST Authorities.
- ii) Certified that the goods on which the GST has been charged in Bill No. _____ dt. _____ for Rs. _____ have not been exempted under the GST or the rules made thereunder and the charges on account of GST on these goods are correct under the provision of the relevant Act or the Rules made thereunder.
- iii) Certified that we shall always indemnify the Haryana DISCOMs in case it is found at a later stage, that wrong or incorrect payment had been recovered on account of GST paid/to be paid by us.
- iv) Certified that we are registered as a dealer under the GST and our registration No. is _____.

Provided that in respect of the item at Sr. _____ and of clause which are required by the Nigam for use on the generation and distribution of electrical energy to the Public, no GST shall be payable as they are exempted.

16. DOCUMENTATION :

- i.) All bills and/or invoices whether in respect of an advance payment or full payment, shall contain complete details of Code No., name of the item, description of material supplied, quantity supplied, rates, details of extra claims, etc. as well as the name of the consignee who received the material, shall be submitted in triplicate, duly accompanied by the receipted good challan, inspection note/test certificate in original, prescribed GST certificates, documentary evidence regarding transportation of the material from the place of manufacturing to the contractor and then from contractor to the Nigam and GST gate pass, where required



- ii) All freight charges whether paid or to pay, and whether chargeable to the Nigam or included in the quoted price, shall be shown in the invoice separately.
- iii) All bills and/ or invoices shall be sent by the supplier to:

for payment.

17. TERMS OF PAYMENT : This clause shall be applicable as specified in Particular Conditions of Schedule-D (Part-II)

18. NEGLIGENCE:

If the supplier shall neglect to execute the supply contract with due diligence and expedition or shall refuse or neglect to comply with any reasonable orders given in writing by the purchaser or his authorized agent in connection with this contract or shall contravene this provision of the contract, the purchaser may give 15 days notice in writing to the supplier to make good the failure, neglect or contravention complained of and should the Supplier fail to comply with the notice within the above said time from the date of service thereof (in case of failure, neglect or contravention capable of being made good, within that time or otherwise within such time as may be reasonably necessary for making it good), then in such case, the purchaser shall be at liberty to take the work wholly or in part out of Supplier's hand and re-contract at a reasonable price with any other person (s). in such event, it shall be lawful for the purchaser to retain any balance which may otherwise be due by him to the Supplier on any account, and apply the same towards the execution of the whole of balance of the supply contract so re-contracted, as aforesaid, if no such balance is due by him to the supplier or if due, is not sufficient to cover the amount thus recoverable from the supplier, it shall be lawful for the purchase to recover the whole or the balance of the amount from the supplier by action at law or otherwise. The remedy under this clause will be in addition to and without prejudice to right available to the purchaser under other clause of these terms and conditions.

19. DESPATCH OF MATERIAL AND DESPATCH INSTRUCTIONS:

The supplier shall be responsible to obtain complete Dispatch instructions from the purchaser before the dispatch of each consignment.

The supplier shall sufficiently pack at his own cost the material for transit so as to ensure this being free from loss or damage on arrival without opening the packages while in transit at their destination. All containers in which the material is supplied shall be non returnable.



20. REPLACEMENT AND REJECTION:

Material found sub-standard or defective or not conforming to the prescribed specification in any manner, at consignee's end shall not be accepted and intimation to this effect shall be given to the supplier, the purchasing authority and the Controller of Stores by the consignee. The purchasing authority shall promptly take up the matter with the supplier and ask him to rectify or replace the defective/sub-standard material forthwith and in any case within a period of 45 days from the date of intimation about such defective material by the stores wing, failing which, the Nigam shall reserve the right to get the defect rectified at the supplier's cost or to withhold the amount equal to cost of defective material. The supplier shall also be intimated that all expenses involved in the replacement by way of handling, transportation, storage, etc. shall be to their account. The payments so withheld shall be released after the receipt of repaired/replacement material. In case, the supplier still does not respond for lifting the defective material, despite continuous follow-up, the procedure as prescribed in as per clause no. 21 read with sub-clause 28.1 (a & b) shall be invoked for termination of contract, encashment of BG, imposing LD charges @ 5% of the value of defective/ rejected/ undelivered material and initiation of action for blacklisting etc. Even after expiry of 90 days, if there is no response from the firm, Nigam can deduct the cost of the defective equipments/material from the pending liabilities of the firm, including encashment of the BG of the firm, available with Nigam against the same P.O. or in other cases.

If there is sufficient financial cover against the same or other P.O.s available then the principal supplier can lift the material against the financial cover of same P.O.s. If the financial cover falls short of cost of material to be lifted for repair/replacement than either he would have to deposit the BG of the balance cost of the equipments through DD or cost thereof in cash.

In respect of the defective/sub-standard supplies, the date on which such a supply is replaced shall be reckoned as the effective date of delivery there against and the delay shall be worked out accordingly with reference to the date on which the supply was due as per the terms of contract, for the purpose of determining penalties/liquidated damages recoverable under Clause 9 (v).

21. TERMINATION OF CONTRACT FOR DEFAULT

21.1 The purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, terminate the contract in whole or in part:

- a) If the supplier fails to deliver any or all of the stores within the time period(s) specified in the contract, or any extension thereof granted by the Purchaser; or
- b) If the supplier fails to perform any other obligation under the contract within the period specified in the contract or any extension thereof granted by the purchaser.
- c) If the supplier, in the judgment of the purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the contract (The definition of corrupt or fraudulent practices defined under clause-25).



21.2 In the event the purchaser terminate the contract in whole or in part. Available EMD submitted by the firm/supplier shall be forfeited and available BG shall be got encashed towards recovery of LD Charges and any other dues from the firm.

22. SET-OFF:

Any sum of money due and payable to the supplier under the contract (including Security deposit returnable to the supplier) may be appropriated by the purchaser and set-off against any claim of the purchaser for the payment of a sum of money arising out of or under this contract or any other contract entered into by the supplier with the purchaser.

23. SUPPLIER'S DEFAULT LIABILITY :

In the event of breach of any these terms and conditions by the supplier, the purchaser can terminate the contract without Notice to the supplier at any stage and the supplier shall have no claim whatsoever on the purchaser on this account. But the supplier shall be liable to pay to the purchaser a sum equivalent to 5% of the value of the undelivered material as liquidated damages and not as a penalty.

24. LAWS GOVERNING THE CONTRACT

- (i) This contract shall be governed by the Laws of India for the time being in force.
- (ii) Irrespective of the place of delivery place of performance or place of payment under the contract, the contract shall be deemed to have been made at the place from which the acceptance of tender has been issued.
- (iii) Jurisdiction of courts: The courts of the place from where the acceptance of tender has been issued shall alone have exclusive jurisdiction to decide any dispute arising out of or in respect of the contract.

25. Corrupt or Fraudulent Practices

The Nigam requires that Tenderers/ Suppliers/ Contractors observe the highest standard of ethics during the procurement and execution of Nigam contracts. In pursuance of this policy, the Nigam:-

- (a) Defines, for the purposes of this provision, the terms set forth as follows:
 - (i) "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution: and
 - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Nigam, and includes collusive practice among Tenderers (prior to or after tender submission) designed to establish tender prices at artificial, non-competitive levels and to deprive the Nigam of the benefits of free and open competition;



- (b) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- (c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Nigam contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Nigam contract.

26. PATENT RIGHTS

The supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.

In the event of any claim asserted by a third party of infringement of copyright, patent, trademark or industrial design rights arising from the use of the Goods or any part thereof in the Purchaser's country, the supplier shall act expeditiously to extinguish such claim. If the supplier fails to comply and the Purchaser is required to pay compensation to a third party resulting from such infringement, the supplier shall be responsible for the compensation including all expenses, court costs and lawyer fees. The Purchaser will give notice to the supplier of such claim, if it is made, without delay.

27. SETTLEMENT OF DISPUTES

If any dispute or difference of any kind whatsoever arises between the Purchaser and the Supplier in connection with or arising out of the Contract, the parties will make every effort to resolve amicably such dispute or difference by mutual consultation.

If, after thirty (30) days the parties failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of the matter may be commenced unless such notice is given.

28. Blacklisting of the Firms:

As the purchase order becomes a valid contract between the purchaser and supplier on the date of its issue, no further changes in the terms and conditions thereof are permissible and any request received in this regard from the supplier should be summarily rejected, making it clear to supply the goods strictly in accordance with the terms and conditions of the contract. It should be noted that such a liability can be enforced on the supplier only if the purchase order does not contain any term or condition contrary to what had been quoted in the supplier's tender. Once this is ensured, any attempt by the supplier to back out of his commitment should be taken seriously and his earnest money deposited be forfeited forthwith, without prejudice to any further legal remedies open to the Nigam under the relevant laws. Where necessary, the case of supplier illegally backing out of the commitment, should also be put up to the Board of Directors for consideration and to decide for black-listing of the firm and damages, if any, to be recovered



28.1. Procedure for Blacklisting of firm

In case the supplier intends to illegally back out of the commitment, the steps for blacklisting of the firm, besides enforcement of damages recoverable under the law will be taken as per procedure given below:-

- a) *A notice shall be served by the purchasing department on the supplier by registered post/speed post bringing his defaults to his notice and asking him to complete all pending supplies / or to settle dispute within a period of 15 days from the date of issue of Notice.*
- b) *In case the firm fails to comply with the notice(s), a show Cause notice of 21 days shall be issued why the firm/supplier/contractor should not be blacklisted. In the Show Cause Notice complete details of the case, default committed by the firm/supplier/contractor and details of notices issued by the Nigam shall be incorporated.*
- c) *In case the supplier/firm/contractor fails to comply with the notice issued for blacklisting or does not respond to show cause notice or the reply as submitted is not found justified/convincing. The contract with the firm/supplier shall be terminated inter-alia taking other action as per regulation no. 20 & further the firm may be blacklisted with the approval of BODs.*
- d) *The period of blacklisting of the defaulting firm/ supplier/contractor will be approved upto 3 years by BOD's and shall be notified to all Power Utilities in the country and the names of such blacklisted supplier/contractor would also be put on the website of the Nigam*

29. ARBITRATION

All the matters, questions, disputes, differences and / or claims arising out of and /or concerning and /or in connection and /or relating to this contract whether or not obligations of either or both parties under this contract be subsisting at the time of such dispute and whether or not this contract has been terminated or purported to be terminated or completed, shall be referred to the Sole Arbitrator to be nominated by Managing Director/DHBVNL or UHBVNL (as the case may be). The Award of the Arbitrator shall be final and binding on the Parties to this contract. Provisions of the Arbitration & conciliation Act, 1996 and the Rules made there under, the statutory modifications thereof for the time being in force, shall be deemed to apply to the Arbitration proceedings under this clause.

Place :

Date :

Signature of the Supplier.



SCHEDULE 'D'

(Part-II, Particular Conditions of Contract)

UTTAR/ DAKSHIN HARYANA BIJLI VITRAN NIGAM LIMITED

PARTICULAR TERMS AND CONDITIONS FOR PROCUREMENT OF EQUIPMENT STORES AND OTHER MATERIAL UNDER THE RATE CONTRACT

The below mentioned terms & conditions shall be applicable in addition to the terms & conditions mentioned in Part-I of Schedule D

1) PRICE :-

The prices quoted shall be 'Variable' as per latest applicable IEEMA formula and 'FOR' destination basis anywhere in Haryana. The breakup of prices quoted viz. Ex-works prices, freight and insurance & GST etc. should be clearly given in schedule of prices as per details in the enclosed Performa, which is a must. The base date for updating the price will be first working day of the month, one month prior to the date of tender opening without any ceiling.

2) SAMPLE

Not applicable

3) Delivery:

i) Acceptance Early Supplies

- a) **(For Variable price)** In case the material is required early by the Nigam and the purchasing authority requests for the same, then the payment and IEEMA would be regulated as per PO provisions i.e. actual delivery (physical) date shall be considered as due date of delivery.
- b) **(For Variable price)** In case any firm supplied the material earlier than the actual due date of supply, then the payment procedure/terms shall remain the same as per terms and conditions and lots due date mentioned in the relevant PO/work order. Moreover, in case of price variation, the lowest IEEMA between the actual (physical) date of delivery and scheduled date of delivery would be made applicable.



ii) Acceptance of delay supply:-

a) In case of variable price:-

In case of delayed supply (beyond overall delivery schedule), the same may be considered and accepted by the purchaser with levy of penalty as per provision of PO and for computing the price variation, the lowest IEEMA indices announced by IEEMA during the intervening period from the due date of supply and the date of actual (physical) delivery, would be made applicable.

In case of delayed lots, for computing the price variation the lowest IEEMA indices announced by IEEMA, during the intervening period from the schedule date of delivery to actual (physical) date of delivery, would be applicable.

4) Warranty:-

For Power/Distribution Transformer:-

The supplier shall be made responsible to replace free of cost, with no transportation or insurance-cost to the Nigam, up to the destination, the whole or any part of the material which in normal and proper use proves defective in quality or workmanship, subject to the condition that the defect is noticed with in 78 months from the date the material is received by the consignee or 72 months from the date of installation which ever period may expire earlier. The consignee or any other officer of the Nigam actually using the material will give prompt notice of each such defect to the supplier as well as the Purchasing authority and the Controller of Stores. The replacement shall be effected by the supplier within a reasonable time, but not, in any case, exceeding 45 days. The supplier shall also arrange to remove the defective supply within a reasonable period but not exceeding 45 days from the date of issue of the notice in respect thereof, but only after replacement of defective material. Upon the firm failing to do so, the damages/defects may be got rectified by the Nigam and the cost adjusted from the firm's pending dues and/or security deposit against this or any other contract in force and the balance left be got deposited by the supplier. The Nigam may also withhold the amount equal to cost of defective material.

The warranty for 78/72 months shall be one time. In addition to above, warranty should be extended by the supplier for the period for which the service was not rendered by the material/equipment supplied by the supplier which would be allowable for one occasion only. In case of recurrence, the material/ equipment shall have to be replaced afresh or cost of the material shall be recoverable from the pending liabilities of the supplier/contractor towards Nigam.



After completion of overall warranty period, if it is found that any material defective/ damaged within warranty period is still lying in the store/field/with the firm then equivalent amount of cost of material as BG shall be accepted. After receipt of fresh BG, the old BG should be released.

In case of breach of contractual obligations with reference to non responding for repairing /replacement of defective material, notices of 15 days & 21 days shall be issued to the firm and in case of still persistence of default, the Nigam shall reserve the right to terminate the contract, encashment of BG towards recovery of damages and further initiation of action for blacklisting

5) DRAWINGS:-

- a) **Where drawing is attached with specification no need to submit the drawing by bidder and no need for approval of drawing by Nigam (Not Applicable).**
- b) **Procedure to be followed where specification/design of the product is not standardized but prepared for specific use of Nigam:**
 - i- The successful bidder shall submit the drawing as per Nigam's specification/design within 30 days from the date of issue of LOI/ Rate Contract.
 - ii- The required type test certificates shall be submitted by the successful bidder within 45 days (90 days in case of Power T/F) from the date of issue of LOI/ Rate Contract.
 - iii- The purchase Department shall approve the drawings within 10 days from the date of receipt of type test certificate except in case of observance of deviations there against.
 - iv- Any Delay in the submission of the type test certificates beyond 45 days (90 days in case of Power T/F) from the date of issue of LOI/Rate Contract will be to the supplier account.
 - v- Time taken in any clarification of the Type Tests Certificates and drawings will be attributable to the supplier. In this case the delivery schedule shall commence from the date of approval of drawing OR 56th days (101st day in case of Power T/F) from the date of issue of LOI / Rate Contract whichever is earlier (In case of RC applicable for 1st P.O.).

6) MISTAKES IN DRAWINGS:

The supplier will be responsible for and shall pay for alterations of the material due to any discrepancies, errors or omissions in the drawings or other particulars supplied by him whether such drawings or particulars have been approved by the purchaser or not. Mistakes in drawing will be set right by the Supplier after obtaining approval of the purchaser

7) POST RECEIPT INSPECTION AND SAMPLE TESTING AFTER RECEIPT OF MATERIAL IN NIGAM STORES:-

Nigam intends to purchase only High Quality material. For this purpose stringent testing of the material shall be done as per Nigam's Quality Assurance Plan (QAP).



- a) A team of 2 XENs to be nominated by Chief Engineer/MM will carry out random checking to ensure quality and quantity of material received in Nigam's stores.
- b) The team will draw sample from each lot received in anyone of the stores to carry out checking as under:-
 - Genuineness of seals provided during inspection
 - Workmanship of material received in store
 - Quantity of material inspected viz-a-viz received quantity.
 - Quality of material received in the store.
- c) The above said inspection / checking would be carried out to check all physical parameters as per approved technical specifications of the Nigam / Engineering Design / Drawings.

The above said team may draw samples randomly for any material for its testing from any NABL accredited testing lab as approved by the Nigam. **Normally, one sample from any of the lots, (to be decided by purchasing authority) shall be sent to NABL accredited lab (Govt. /Semi Govt. / Private Lab) to carry out the acceptance tests, at Nigam's cost.** If sample fails the entire lot shall be rejected and cost of testing shall be charged from the firm. However, testing of 2nd sample of the same lot may be considered on justified request of the firm & with the approval of Director/Projects **to be decided on merits of each case. In case, 2nd sample is rejected, the entire lot shall be rejected.**

In case of failure of sample from the lot then:-

- Supplier shall have to replace the full quantity of the respective inspected lot supplied to various stores and lying unused at stores as per provision contained under clause no.14(x) of Schedule-D (Part-I).
- For the quantity already utilized against the aforementioned lot in field then a deduction @ 15% (Fifteen Percent) of FOR destination prices of the material utilized shall be made.

8) TYPE TEST CONDITIONS:

- i. In case of the firms, whose past supplies made to Haryana DISCOMs (DHBVN/UHBVN), testify the satisfactory performance of the equipment already supplied and type test certificates accepted there against are not more than five year old on the date of opening of tender, fresh type tests may not be required/asked for in case there is no change in the design. However, in such cases the firm shall supply the approved copy of drawings/GTPs and requisite type test certificates along with bid documents. In such cases, the commencement of delivery period shall be date of receipt of purchase orders meaning thereby no additional time shall be given to the firm for approval of drawings. (This clause is applicable only for Power /Distribution Transformer in addition to below mentioned clause).
- ii. In all other cases, the firm/s shall be required to submit the type test certificates as per Nigam's Technical Specifications and relevant ISS along with the tender documents, which should not be more than five years old on the date of opening of tender. Alternatively, the firm/s shall submit an undertaking that the requisite type test certificates shall be submitted



within 45 days (90 days in case of Power Transformers) from the date of issuance of LOI/RC. The purchaser departments shall approve the drawing and type tests within 10 days from the date of receipt all the requisite type test certificates.

In case any difference between ISS & Nigam technical specifications, the type test certificates (incorporating the remaining tests, if applicable) issued by NABL accredited testing houses/Govt. approved lab besides international testing house/labs like KEMA, KERI etc. will be supplied by the bidder within 45 days (90 days in case of Power Transformers) from the date of issue of LOI/Rate Contract.

The type test certificates should be as per IS with latest amendment which will be supplied by the firm for approval of drawing and GTPs, unless stated otherwise specifically.

In case of delay in submission of detailed type test certificates beyond 45 days from the date of issue of LOI/RC, penalty @ 0.05% per day subject to maximum 2% of the contract value shall be imposed.

Note: Delay in submission of type test by firm shall not form the basis for relaxation/extension in delivery schedule in any case.

9) TEST AND INSPECTION CLAUSE FOR DISTRIBUTION TRANSFORMERS, IN ADDITION TO ABOVE CLAUSE :-

When a firm offers the DTs for inspection, Nigam's deputed officer (s) shall visits the firm's works, undertaking inter-alia the below noted load losses tests, besides other acceptance tests:

- A) Losses of DTs will be checked by the inspectors on all the DTs.i.e. Total losses at 50% load & 100% load for the DTs upto 100 KVA and no load losses shall also be checked on all the DTs above 100 KVA ratings.
- i- The inspection report received from the Inspectors will be scrutinized by the Office of CE/MM and if the report is found O.K. the dispatch authorization will be issued to the firm.
- ii- After the receipt of material in the stores, the tests for Total losses at 50 % load and Total losses at 100% load in case of DTs upto 100 KVA and no load losses for rating of DTs above 100KVA shall also be carried out on each Transformer by designated Committee constituted for the purpose.
- iii- a) Total losses at 50% load Total losses at 100% load upto 100 KVA rating and as well as no load losses for DTs above 100KVA rating are fixed and mentioned in approved GTPs. .
- b) During post receipt inspection, if the losses of any transformer are found more than the prescribed limit given in the technical specification/G.T.Ps approved by the Nigam, the Transformers shall be got replaced and in addition to the penalty equivalent to the 5% of the cost of the such transformer supplied will be charged from the firm for supplying inferior quality material.



10) TERMS OF PAYMENT:-

For Distribution T/Fs and meters:-

i 70 % payment shall be made on 30th day from the date of receipt of material by the consignee or date of submission of complete documents etc., whichever is later and balance 30% shall be released on 45th day from the date of receipt of material by the consignee or date of submission of documents i.e. bills/invoices in triplicate, receipted challans, inspection report, prescribed sale tax/excise duty certificates and excise duty gate pass wherever required etc., whichever is later

(a) **The Bank Guarantee of the value of 5% of the order value or estimated value of Rate Contract (where maximum value of rate contract (RC) is indicated, it will be on the basis of the same) [2% in case of Haryana based other firms/enterprises and 0.2% in case of micro and small enterprises (including khadi and village industries units) subject to fulfillment of conditions as per eligibility as notified by the Department of Industries & Commerce, Govt. of Haryana in its order no. 2/2/2016-4IBII (II) dated 20.10.2016.]. The BG shall be furnished for complete requisite period within 15 days from the date of issue of RC which should remain valid for 90 days after the expiry of warranty period (the BG shall be issued by any Nationalized /Private Bank in India, failing which:**

ii Penalty @ 0.05% per day of the value of BG with a ceiling of 2% of value of BG would be charged from due date of submission, till the BG or DD in lieu of BG is submitted by the firm.

iii In case the performance bank guarantee or DD in lieu of performance security is not submitted within 45 days from the date of issue of PO or the date if any stipulated by the purchasing authority, the Nigam reserve the right to cancel the PO/RC and initiate the action for allotment to L-2 firm.

iv In the event of receipt of material without the receipt of BG, amount equivalent to BG along with penalty shall be deducted from the payments due to the supplier. However, on receipt of requisite BG from the firm, the amount deducted in lieu of the BG only, shall be refunded without accrual of any interest thereon and amount of penalty so deducted shall not be refunded.

Further a rebate of 0.05 percent per day shall be availed of by the Nigam if payment is made earlier than the period specified. The rebate will be calculated on the payable amount.

The delay in payment to the suppliers beyond the stipulated credit period indicated in the supply order, unless supported by cogent reasons and approved by a higher authority, would attract penal interest on the defaulting amount @ Rs. 25/- per one lac per day of delay beyond the credit stipulated period. Payment of such interests would be brought to the notice of Administrative Secretary of the department and call for fixation of responsibility. In case of delayed supply duly accepted by the purchasing authority, no penal interest on the same shall be applicable.

In case the due date of payment in terms of payment schedule falls on a holiday including Sunday or holiday is subsequently declared on that date, the payment shall be released on the first working day falling next to the due date.

Place :

Date :

Signature of the Supplier.



उत्तर दक्षिण हरियाणा बिजली वितरण निगम
UTTAR DAKSHIN HARYANA BIJLI VITRAN NIGAM



ANNEXURE 'A' TO SCHEDULE 'D' (Part-I)

Specification No. CSC-142/DH/UH/P&D/2015-16

TECHNICAL SPECIFICATION

FOR

Outdoors types Distribution Transformers of

11 kV/433-250 V Class Aluminium Wound 200 KVA with SP

(self protected – HT side only) features

Issue Month: March 2016

(CSC Amendment date 22.03.2016)

Common Specification Committee

UHBVN & DHBVN



OUTDOOR TYPE DISTRIBUTION TRANSFORMERS OF 11 kV/433-250 V CLASS ALUMINIUM WOUND 200 KVA WITH SP (SELF PROTECTED-HT Side only) FEATURES AND ENERGY EFFICIENCY LEVEL-II.

1. Scope:

This specification covers, engineering, manufacture, assembly, stage testing, inspection and testing before supply, ready to use besides delivery at site of oil immersed, naturally cooled 3 phase 11 kV/433-250 V self protected (HT side only) Distribution Transformers for outdoor use.

1.1. It is not the intent to specify completely herein all the details of the design and construction of equipment. However the equipment shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation upto the Bidder's guarantee, in manner acceptable to the purchaser, who will interpret the meanings of drawings and specification and shall have the power to reject any work or material which, in his judgment is not in accordance therewith. The offered equipment shall be complete with all components necessary for their effective and trouble free operation. Such, components be deemed to be within the scope of Bidder's supply interceptive of whether those are specifically brought out in this specification and / or the commercial order or not.

1.2. Standard Ratings:

The standard Rating shall be 200 kVA.

2. STANDARDS:

2.1. The material shall conform in all respects to the relevant Indian /International standard Specification, with latest amendments thereof some of them are listed below:

Title	India standard	International & Internationally recognized standard
Specification for power Transformer outdoor distribution Transformer upto including 200 KVA	ISS-2026/1977 IS-1180/Part-I/2014	IEC 76
Specification for Copper /Al wire	IS-191, IS-1897, IS 7404, IS 13730, IS-12444	ASTM B-49
Specification for CRGO	IS-3024	
Specification porcelain Transformer bushing	ISS-3347/1967	DIN 42531, 23,3
Specification for Transformer oil	ISS-335/1983 and IS 1866	BS 148, D-1473, D-1533- 1934 IEC Pub 296-1969
Specification for colors for ready mixed paints porcelain bushings	ISS-5/1961	
Specification for High voltage porcelain bushings	ISS-2099/1973	IEC Pub 296-1969



उत्तर दक्षिण हरियाणा बिजली वितरण निगम
UTTAR DAKSHIN HARYANA BIJLI VITRAN NIGAM



Specification for Low voltage bushings	ISS-7421/1974	
Specification for outdoor Bushings	ISS-3347	DIN 42531 to 33
Specification for Al wire rods	ISS-5484	ASTM B-233
Insulating Kraft Paper	ISS-9335	IEC 554
Specification for Insulating press Board	ISS-1576	IEC 641
Guide for loading of Oil immersed T/Fs	ISS- 6600/1972	IEC-76

The bidder shall use ISS, however, where this standard is not available corresponding IEC may be followed.

Material conforming to ISS or the internationally accepted standards, which ensure equal or higher quality than the standards mentioned above, would also be acceptable. In case the Bidders who wish to offer material conforming to the standards, salient points of difference between the standards adopted and the specific standards shall be clearly brought out in relevant schedule. Four copies of such standards with authentic English translations shall be furnished along with the other.

3. SERVICE CONDITIONS:-

The Distribution Transformers & other equipment/material to be supplied against this specification shall be suitable for satisfactory operation under the following climatic Conditions as per IS-2026 (Part-I) latest revision

i)	Location	At various locations in the state of Haryana
ii)	Maximum ambient temperature ($^{\circ}\text{C}$)	60
iii)	Minimum ambient air temperature ($^{\circ}\text{C}$)	-5
iv)	Maximum average daily ambient temperature ($^{\circ}\text{C}$)	40
v)	Maximum yearly weighed average ambient temperature ($^{\circ}\text{C}$)	32
vi)	Maximum altitude above mean sea level (m)	1000
vii)	Minimum Relative Humidity (%)	26
viii)	Maximum Relative Humidity (%)	95
ix)	Average no of Rainy days/ year	120
x)	Average annual rainfall	900 mm
xi)	Maximum wind pressure	195 kg/m sq.



The equipment shall be for safe operation in moderately hot and humid tropical climate, conducive to rust and fungus growth.

4. **PRINCIPAL PARAMETERS:-**

The transformers shall be suitable for outdoor installation with three phase 50 Hz, 11 KV system in which the neutral is effectively earthed and they should be suitable for service under fluctuations in supply voltage upto plus 10 to minus 15%.

Sr. No.	Item	Parameters
1	Continuous rated capacity	200 KVA
2	System voltage (max.)	12.5 KV
3	Rated voltage HV	11 KV
4	Rated voltage LV	433-250 V
5	Line current HV	10.5 A
6	Line current LV	266.67 A
7	Frequency	50c/s +5%
8	No. of phases	Three
9	Connection HV	Delta
10	Connection LV	Star (Neutral Brought out)
11	Vector group	Dyn-II
12	Type of cooling	ONAN
13	changing arrangement	Not Applicable
14	Noise level at rated voltage and frequency	55 db
15	Permissible temperature rise over ambient i) if top oil measured by thermometer	35 Deg. C
	ii) if winding measured by resistance	40 Deg.C



Maximum clearances	Voltage Medium Clearance		Clearance
		Phase to Phase (mm)	Phase to Earth (mm)
i) HV phase to phase (phase to earth (mm)	11 kV Air	255	140
ii) LV phase to phase (phase to earth	433 V Air	75	40

5. TECHNICAL REQUIREMENTS:

5.1. MATERIAL – CRGO METAL

5.1.1. The core shall be stack / wound type generally of high grade rolled grain annealed steel lamination having low loss and good grain properties, coated with hot oil proof insulation, bolted together and to the frames firmly to prevent vibration or noise. The complete design of core must ensure permanency of the core losses with continuous working of the transformers. The value of the maximum flux density allowed in the design and grade of lamination used be clearly stated in the offer.

The bidder should offer the core for inspection and approval by the purchaser during manufacturing stage. Bidder's shall give notice for inspection with the following documents as applicable as a proof towards use of prime core material.

5.1.1.1. Invoice of the supplier

5.1.1.2. Mills Test Certificate

5.1.1.3. Packing List

5.1.1.4. Bill of Loading

5.1.1.5. Bill of entry certificate to customs

5.1.2. Core clamping for CRGO Stacked core.

5.1.2.1. MS channel shall be used on top and bottom



- 5.1.2.2. Core channel on LV side to be reinforced at equidistance, if holes/cutting is done for LT lead in order to avoid bending of channel.
- 5.1.2.3. MS channel shall be painted with varnish or oil resistant paint
- 5.1.2.4. Clamping & Tie-rods shall be made of HT steel and shall be park arised.
- 5.1.3. **Core clamping for CRGO wound core.**
- 5.1.3.1. Core clamping shall be with top and bottom U-shaped core clamps made of sheet steel clamped HT steel tie rods for efficient clamping
- 5.1.3.2. MS core clamps shall be painted with varnish or oil-resistant paint.
- 5.1.3.3. Suitable provision shall be made in the bottom core clamp/ bottom plate of the transformer to arrest movement or the active part.
- 5.1.4. The transformers core shall be suitable for over fluxing (due to combined effect of voltage and frequency) upto 12.5% without injurious heating at full load conditions and shall not get saturated. The Bidder shall furnish necessary design data in support of this situation.
- 5.1.5. No load current shall not exceed 3% of full load current and will be measured by energizing the transformer at 433 volts, 50c/s on the Secondary. Increase of voltage of 433 volts by 12.5% shall not increase the no load current. by 6% of maximum full load current. Test for magnetic balance by connecting the LV phase by phase to rated phase voltage and measurement of an, bn, cn voltage will be carried out.
- 5.1.6. "The core material should be imported directly from the reputed manufacture. Core material shall be processed by slitting only. Core cutting/slitting be done in front of inspecting officers deputed by UHBVN/DHBVN". Details of the core shall be filled & supplied as per Annexure-II.
- 5.2. **AMORPHOUS METAL.**
- 5.2.1. The core shall be high quality Amorphous ribbons having very low loss formed into wound cores of rectangular shape, bolted together to the frames firmly to prevent vibration or noise. The complete design of core must ensure permanency of the core



loss with continuous working of the transformers. The value of the flux density allowed in the design shall be clearly stated in the offer. Curve showing the properties of the metal shall be attached with the offer.

- 5.2.2. Core Clamping for Amorphous metal Transformers.
- 5.2.2.1. Core clamping shall be with top and bottom U-shaped core clamps made of sheet steel clamped HT steel tie rods for efficient clamping.
- 5.2.2.2. MS core clamps shall be painted with varnish or oil-resistant paint.
- 5.2.2.3. Suitable provision shall be made in the bottom core clamp/ bottom plate of the transformer to arrest movement of the active part.
- 5.2.3. The transformers core shall be suitable for over fluxing (due to combined effect of voltage and frequency) upto 12.5% without injurious heating at full load conditions and shall not get saturated. The Bidder shall furnish necessary design data in support of this situation.
- 5.2.4. No load current shall not exceed 3% of full load current and will be measured by energizing the transformer at 433 volts, 50c/s on the Secondary. Increase of voltage of 433 volts by 12.5% shall not increase the no load current by 6% of maximum full load current Test for magnetic balance by connecting the LV phase by phase to rated phase voltage and measurement of an, bn, cn voltage will be carried out.

NOTE:

- I) Wherever variable prices are provided IEEMA formula should be applicable in such a way that indices applicable for CRGO are used for amorphous material also since the indices for latter are not declared by IEEMA.
- II) The value of maximum flux density allowed shall be 1.6 T.

5.3. **WINDINGS:-**

- 5.3.1. Material: Double paper covered /Super enameled with class-C insulation varnish electrolytic Aluminium Conductor for windings and electrolytic copper for leads.
- 5.3.2. LV winding shall be in even layers so that the neutral formation will be at top.



- 5.3.3. The winding construction of single HV coil wound over LV coil can be used.
- 5.3.4. Inter layer insulation shall be Epoxy dotted Kraft paper/Nomex.
- 5.3.5. Proper bonding of inter layer insulation with the conductor shall be ensured. Test for Bonding Strength to be conducted.
- 5.3.6. Dimensions of winding coils are very critical. Dimensional tolerances for winding coils shall be within limits as specified in GTP.
- 5.3.7. Vertical ducts and spacers shall be provided within each coils for H.V and L.V winding.
- 5.3.8. Current density for HV and LV coils. This should not be more than 1.5 A/sq. mm. for windings & 0.8 A/sq. mm for leads.
- 5.4. **Oil:** - The insulating oil shall comply with the requirements of relevant standards IS 335/1993 or BS: 148.
- 5.5. **Losses:** The total losses (includes no-load & load losses) at 50% and 100% loading equivalent to Energy Efficiency Level –II of IS-1180/Part- I/2014 shall not exceed the value given below:

Voltage Ratio	kVA Rating	Total losses at 50% load (Max.) (at 75 ⁰ C)	Total losses at 100% load (Max.) (at 75 ⁰ C)
11000/433	200	780 Watts	2300 Watts

The above losses are maximum allowable and here would not be any positive tolerance. Bids with higher losses than the above specified values would be treated as non-responsive.

Bidders are requested to quote the price as FOR destination on standard losses. The Bid will be evaluated on the basis of standard losses instead of Equated capitalized cost. No benefit of low losses to the bidder in case the losses are less than standards losses at any time.

5.5.1. **Percentage Impedance:**



The value of Impedance of transformer at 75 Deg. C shall be 4.5% subject to the tolerance specified in the standard IS: 2026-1977.

5.5.2. Temperature rise

The temperature rise over ambient shall not exceed the limits described below:

- i) Top oil temperature rise measured by thermometer: 35 deg. C
- ii) Winding temperature rise measure by resistance: 40 deg. C

Bids not meeting the above limits of temperature rise will be treated as non-responsive.

5.6. PENALTY FOR NON PERFORMANCE:

5.6.1. Purchaser reserves the right to reject any transformer during the test at supplier's works, if it is found that actual measured losses are more than the values quoted by the bidder

5.6.2. Transformer with temperature rise and impedance beyond the Guaranteed values.

5.6.2.1. Purchaser reserves the right to reject any transformer during the test at supplier's works, if the temperature rise exceeds the guaranteed values.

5.6.2.2. Purchaser reserves the right to reject any transformer during the test at supplier's works, if the impedance values differ from the guaranteed values including tolerance.

5.6.2.3. Purchaser also reserves the right to retain the rejected transformer and take it into service until the Bidder replaces it with a new transformer at no extra cost. The delivery as per contract will be counted when the new transformer as per specification is provided by the manufacture.

5.7. INSULATION MATERIAL:-

5.7.1. Material:-Electrical grade insulation Kraft papers and press Boards of standard should be used. For the use standard material the names of following firms have been approved.

Sr. No.	Name of insulating material	Name of the firms
1	Press board	a. Senapathy whitely b. Raman Board c. Umang Board (P) Ltd. Jaipur



2	Craft paper	a. Ballarpur b. Padamjee c. Triveni d. M/s Skytouch Tapes Ltd., Mumbai. e. M/s KLIM Enterprises, Mumbai. f. M/s Vijaya Mercantile Ltd. New Delhi. g. M/s Badri Enterprises, New Delhi.
3	Press pahn paper	Senapathy whitely
4	Gaskets	a. New cork b. Talbros c. M/s Skytouch Tapes Ltd., Mumbai. d. M/s KLIM Enterprises, Mumbai. e. M/s Vijaya Mercantile Ltd. New Delhi. f. M/s Badri Enterprises, New Delhi.

5.7.2 All spacers, axial wedges / runners used in windings shall be made of pre-compressed pressboard-solid, conforming to type B 3.1 of IEC 641-3-2. In case of cross-over coil winding of HV all spacers shall be properly sheared and dovetail punched to ensure proper locking. All axial wedges/runners shall be properly milled to dovetail shape so that they pass through the designed spacers freely. Insulation shearing, cutting, milling and punching operations shall be carried out in such out in such a way, that there should not be any burr and dimensional variations.

5.8. **TANK:-** The rectangular transformer tank can be with radiator fins/rounded or elliptical cooling tubes. The main tank of the transformers shall be made of good quality steel having a minimum thickness of sides of the tanks 3.15 mm and a minimum thickness of 5.0 mm for top and bottom plates. The tank shall be capable of withstanding a pressure up to 0.8 kg/cm^2 and (-) 0.7 kg/cm^2 for 30 minutes and 30 minutes respectively as per IS-1180/Part-I/2014 . The word "UHBVNL/DHBVNL PROPERTY" shall be engraved on the top cover plate and side of the tank body. No negative tolerance shall be allowed.

The side wall of the transformer shall be engraved with serial number of the transformer, purchase order No. & date and make of the manufacturer. In addition, the word UHBVN/DHBVN is to be embossed on the body of transformer on any side

5.8.1. For Rectangular plain tank:-

5.8.1.1. The transformer tank shall be of robust construction rectangular in shape and shall be built up of tested MS sheets.



5.8.1.2. The internal clearance of tank shall be such that, it shall facilitate easy lifting of core with coils from the tank without dismantling L.V bushings.

5.8.1.3. All joints of tank and fittings shall be oil tight and no bulging should occur during service. The tank design shall be such that the core and windings can be lifted freely. The tank plate shall be of such strength that the complete transformers when filled with oil may be lifted bodily by means of lifting lugs. Inside of tank shall be painted with varnish/ Hot oil.

5.8.1.4. Manufacturer should carry out all welding operations as per relevant ASME standards and submit a copy of the welding procedure qualifications and welder performance qualification certificates to the customer.

5.8.1.5. The four walls of the tank shall be made of Two "L" shaped sheets (without joints) fully welded at the corners from inside so that the joint is stronger due to V-shape welding fillet and also outside of the tank for withstanding a pressure of 0.8 kg/cm^2 for 30 minutes.

5.8.1.6. The tank shall be reinforced by welded angle on all the outside walls on the edge of the tank to form two equal compartments. Permanent deflection when the tank without oil is subject to a vacuum of 525 mm of mercury for rectangular tank and 760 mm of mercury for round tank, shall not be more than 5 mm in accordance with clause no .21.5 of IS-1180/Part-I/2014 upto 750 mm length and 6.5 mm upto 1250 mm length.

5.8.1.7. The radiators can be of tube type or fin or pressed type steel type to achieve the desired cooling to limit the specified temperature rise. The transformer shall be capable of giving continuous rated output without exceeding the specified temperature rise Bidder shall submit the calculation sheet.

5.8.1.8. Lifting lugs: 4 Nos. welded heavy duty lifting lugs of MS flat 8 mm thick (min) suitably reinforced by vertical supporting flat welded edgewise below the lug on the side wall.

5.8.1.9. Pulling lugs: 4 Nos. of welded heavy duty pulling lugs of MS plate 8 mm thick (mm) shall be provided to pull the transformer horizontally.

5.8.1.10. Top cover fixing bolts of G.I adequately spaced and 6mm Neoprene bonded cork gaskets conforming to IS 4253 part-II shall be placed between tank and cover. The bolts outside tank shall have 2 flat washers & one spring washer.



5.8.1.11. Pressure release value as standard fitment shall be provided on the top of tank of transformer which should operate at a pressure of 0.3 to 0.5 kg/cm².

5.8.2. CONSERVATOR: -

Transformers of rating 200 KVA with plain tank construction, the provision of conservator is mandatory as per IS-1180/Part-I/2014 with the clarification that:-

- The transformer with conservator shall comply with IS-1180/Part-I/2014 (Non sealed type)

When a conservator is provided oil gauge and the plain or dehydrating breathing devise shall be fixed to the conservator which shall also be provided with a drain plug and a filling hole (1¼") normal size thread) with cover. The capacity of a conservator tank shall be designed keeping in view the total quantity of oil and its contraction and expansion due to temperature variations, In addition the cover of main tank shall be provided with an air release plug to enable air trapped within to be released, unless the conservator is so located as to eliminate the possibility of air being trapped within the main tank.

The inside diameter of the pipe connecting the conservator to the main tank should be within 20 to 50 mm and it should be projected into the conservator so that its end is approximately 20 mm above the bottom of the conservator so as to create a sump for collection of impurities. The minimum oil level (corresponding to -5 deg C) should be above the sump level.

5.9. SURFACE PREPARATION & PAINTING.

5.9.1. General

5.9.1.1. All paints shall be applied in accordance with the paint manufacturer's recommendations. Particular attention shall be paid to the following:

5.9.1.1.1. Proper storage to avoid exposure as well as extremes of temperature.

5.9.1.1.2. Surface preparation prior to painting.

5.9.1.1.3. Mixing and thinning.

5.9.1.1.4. Application of paints and the recommended limit of time intervals between coats.

5.9.1.1.5. Shelf life for storage.



5.9.1.2. All paints when applied in a normal full coat, shall be free from runs, sags, wrinkles, patchiness, brush marks or other defects.

5.9.1.3. All primers shall be well marked into the surface, particularly in areas where painting is evident, and the first priming coat shall be applied as soon as possible after cleaning. The paint shall be applied by airless spray according to manufacture's recommendations. However, whenever airless spray is not possible, conventional spray be used with prior approval of purchaser.

5.9.1.4. The supplier shall prior to painting nameplates, lettering gauges sight glasses, light fittings and similar such items.

5.9.2. **Cleaning and Surface preparation**

5.9.2.1. After all machining, forming and welding shall been completed, all steel work surfaces shall be thoroughly cleaned of rust, scale, welding slag or spatter and other contamination prior to any painting.

5.9.2.2. Steel surfaces shall prepared by Short blast cleaning or Chemical by Seven Tank process including Phosphating to the appropriate quality.

5.9.2.3. The pressure and volume of the compressed air supply for blast cleaning shall meet the work requirement and shall be sufficiently free from all water contamination to ensure that the cleaning process is not impaired.

5.9.2.4. Chipping, scraping and steel wire brushing using manual or power driven tools cannot remove firmly adherent mill-scale shall only be used where blast cleaning is impractical. Manufacture to explain such areas in his technical offer clearly.

5.9.3. **Protective Coating:**

5.9.3.1. As soon as all items have been cleaned and within four hours of the subsequent drying. They shall be given suitable anti-corrosion protection.

5.9.4. **Paint Material.**



Followings are the types of paint that may be suitably used for the items to be painted at shop and supply of matching paint to site:

5.9.4.1. Heat resistant paint (Hot oil Proof) for inside surface.

5.9.4.2. For external surfaces one coat of Thermo Setting powder paint or 1 coats of Zinc chromate primer /**Epoxy** followed by 2 coats of Synthetic Enamel /Polyurethane base paint. These paints can be either air-drying or stoving. The coating of inside surfaces shall be made with heat resistant paint

5.9.4.3. The colour of the finishing coats shall be as per requirement of the purchaser .

5.9.5. **Painting procedure**

5.9.5.1. All painting shall be carried out in conformity with both Specification and with the paint manufacture's recommendation. All paints in anyone particular system, whether shop or site applied, shall originate from one paint manufacture.

5.9.5.2. Particular attention shall be paid to the manufacturer's instructions on storage, mixing, thinning and pot life. The paint shall only be applied in the manner detailed by the manufacture's e.g. brush, roller, conventional or airless spray and shall be applied under the manufacture's recommended condition Minimum and maximum time intervals between coating shall be closely followed.

5.9.5.3. All prepared steel surfaces should be primed before visible re-rusting occurs or within 4 hours whichever is sooner.

5.9.5.4. Chemical treated steel surface shall be primed as soon as the surface is dry and while the surface is still warm.

5.9.5.5. Where the quality of film is impaired by excess film thickness (wrinkling, mud cracking or general softness) the Supplier shall remove the unsatisfactory paint coating and apply another. As a general rule, dry film thickness should not exceed the specified minimum dry film thickness by more than 25%. In all instances where two or more coats of the same paint are specified, such coating may or may not be of contrasting colours.

5.9.5.6. Paint applied to items that are not be painted shall be removed at Supplier's expense, leaving the surface clean, unstained and undamaged.



5.9.6. Damaged Paintwork

5.9.6.1. Any damage occurring to any part of a painting scheme shall be made good to the same standard of corrosion protection and appearance as that originally employed.

5.9.7. Any damage paint work shall be made good as follows:

5.9.7.1. The damaged area, together with an area extending 25 mm around its boundary, shall be cleaned down to bare metal.

5.9.7.2. A priming coat shall be immediately applied, followed by a full paint finish equal to that originally applied and extending 50 mm around the perimeter of the original damage.

5.9.7.3. The repainted surface shall present a smooth surface. This shall be obtained by carefully chamfering the paint edges before and after priming.

5.9.8. Dry Film Thickness

5.9.8.1. To the maximum extent practicable the coats shall be applied as a continuous film of uniform thickness and free of pores. Overspray, skips, runs, sags and drips should be avoided. The different coats may or may not be of the same colour.

5.9.8.2. Each coat of paint shall be allowed to harden before the next is applied as per manufacturer's recommendation.

5.9.8.3. Particular attention must be paid to full film thickness at edges.

5.9.8.4. The requirements for the dry film thickness (DFT) of paint and the materials to be used shall be as per IS-1180/Part-I/2014 Table no. 12 as given below.

Sr. No.	Paint Type	Area to be painted	No. of coats	Total Dry film thickness (mm)
1	Thermo setting Powder paint Inside	Inside	01	30 microns
		outside	01	60 microns
2	Liquid paint			
	a) Zinc chromate/Epoxy (primer)	Outside	01	30 microns
	b) Synthetic Enamel/ Poly Urethane (Finish coat)	Outside	02	25 microns each
	c) Hot oil paint/ Varnish	inside	01	35/ 10 microns



5.10. BUSHINGS:

5.10.1. The bushings shall conform to the relevant standards specified and shall be outdoor. The bushing rods and nuts shall be made of brass material 12 mm diameter for both HT & LT. The HT bushings shall be fixed to the transformers on side with straight pockets and in the same plane and not on top cover. LT bushing shall be provided on the side of the tank. The tests as per latest IS 2099 and IS7421 shall be conducted on the transformer bushings.

5.10.2. For 11 KV, 17.5 KV class bushings shall be used and for 0.433 KV, 1.1KV class bushings shall be used. Bushings of plain shades as per IS-3347 shall be mounted on the side of the Tank and not on top cover.

5.10.3. Dimensions of the bushings of the voltage class shall conform to the Standards specified.

5.10.4. A minimum phase to phase clearance of 75 mm for LV (upto 1.1 KV bushings) and 255 mm for HV bushings shall be obtained with the bushing mounted on the transformer.

5.10.5. The bushings shall be fixed on sides with pockets in the same plane and not on the top cover Arcing horns or lightning arrestors shall be provided on HV bushings.

5.10.6. Brazing of all inter connections; jumpers from winding to bushing shall have cross section larger than the winding conductor. All the Brazers shall be qualified as per ASME, Section-IX.

5.10.7. The bushings shall be of reputed make supplied by those manufacturers who are having manufacturing and testing facilities for manufacture of insulators.

5.10.8. The terminal arrangement shall not require a separate oil chamber not connected to oil in the main tank.

5.11. **Terminal connectors:** The HV bushing stems shall be provided with suitable terminal connectors so as to connect the jumper without disturbing the bushing stem. Connectors shall be with eye bolts so as to receive 55 mm² conductor for HV. Terminal connectors should must be type tested as per IS : 5561.



5.12. Terminal markings

High voltage and Low voltage phase windings shall be marked both in the terminal boards inside the tank and on the outside with capital letter IU, IV, IW and low voltage winding for the same phase marked by corresponding small letter 2u, 2v, 2w. The neutral point terminal shall be indicated by the letter 2n. Neutral terminal to be brought out and connected to local grounding terminal by an Earthing strip.

5.13. FITTINGS:

The following standard fittings shall be provided.

- 5.13.1. Rating and terminal marking plates non-detachable
- 5.13.2. Earthing terminal with lugs -2Nos.
- 5.13.3. Lifting lugs for main tank & top cover.
- 5.13.4. Terminal connectors on the HV & for LV bushings-Lugs, glands (being covered in the box)
- 5.13.5. Thermometer pocket with cap -1 No.
- 5.13.6. Air release device
- 5.13.7. HV bushings -3 Nos.
- 5.13.8. LV bushings - 4 Nos.
- 5.13.9. Pulling lugs – 4 Nos.
- 5.13.10. Stiffener angle 40x40x5 mm and vertical strip of 50x5 mm flat
- 5.13.11. Radiators – No. & length may be mentioned (as per heat dissipation calculations)
- 5.13.12. Arcing horns or 9 KV 5 KVA lighting arrestors on HT side -3 Nos.



- 5.13.13. Prismatic Oil level gauge.
- 5.13.14. Drain cum sampling valve
- 5.13.15. Oil filling hole having p. 1- ¼"thread with plug and drain valve on the conservator
- 5.13.16. Silica gel breather
- 5.13.17. Base channel 75x40 mm.
- 5.13.18. Pressure relief device.

5.14. FASTENERS:

All bolts, studs, screw threads, pipe threads, bolt heads and nuts shall comply with the appropriate Indian Standards for metric threads, or the technical equivalent.

Bolts or studs shall not be less than 6 mm in diameter except when used for small wiring terminals.

All nuts and pins shall be adequately locked. Wherever possible bolts shall be fitted in such a manner that in the event of failure of locking resulting in the nuts working loose and falling off, the bolt will remain in position.

All ferrous bolts, nuts and washers placed in outdoor positions shall be treated to prevent corrosion, by hot dip galvanizing, except high tensile steel bolts and spring washers which shall be electro-galvanised / plated. Appropriate precautions shall be taken to prevent electrolytic action between dissimilar metals.

Each bolt or stud shall project at least one thread but not more than three threads through the nut, except when otherwise approved for terminal board studs or relay stems. If bolts nuts are placed so that they are inaccessible by means of ordinary spanners, special spanners shall be provided.

The length of the screwed portion of the bolts shall be such that no screw thread may form part of a shear plane between members.

Taper washers shall be provided where necessary.



Protective washers of suitable material shall be provided front and back of the securing screws.

2 No., anti-theft fasteners of steel on two diagonally opposite corners of the tank shall be provided. All nuts & pins shall be adequately locked.

5.15. MOUNTING ARRANGEMENT :

The under base of all transformers shall be provided with two 75X40 mm channels 460 mm long with holes to make them suitable for fixing on a platform or plinth

5.16. OVERLOAD CAPACITY

The transformers shall be suitable for loading as per IS: 6600/ 1972

6. TESTS :

a) All the equipment offered shall be fully type tested by the bidder or his collaborator as per the relevant standards including the additional type tests mentioned at clause 6.2. The type test must have been conducted on a transformer of same design. The Bidder shall furnish four sets of type test reports along with the offer. Offers without type test reports will be treated as Non-responsive.

The type test certificates should not be more than Five years old on the date of bid opening.

b) Special tests other than type and routine tests, as agreed between purchaser and Bidder shall also be carried out as per the relevant standards.

c) The requirements of site tests are also given in this clause.

6.1. ROUTINE TESTS:

6.1.1. Measurement of winding resistance.

6.1.2. Measurement of voltage ratio and check phase displacement.

6.1.3. Measurement of short circuit impedance and load loss at 50% & 100% load.

6.1.4. Measurement of No Load loss and current.

6.1.5. Insulation resistance.

6.1.6. Induced over voltage withstand test.



6.1.7. Separate source voltage withstand test.

6.1.8. Air Pressure and Vacuum test (During Stage Inspection).

6.1.9. Oil leakage test

6.1.10. Neutral current measurement.

6.1.11. Oil samples test for BDV.

6.1.12. Measurement of 50% load & 100% load losses and magnetizing current at rated frequency and at 90%, 100% and 110% voltage.

6.1.13. Magnetic balance test.

6.1.14 Temperature rise test on 1 no. unit out of offered Lot.

Note; Oil sample from each lot shall be sealed by Inspecting officer and same be tested at Govt. approved NABL Lab as per IS1866

6.2. TYPE TESTS TO BE CONDUCTED ON ONE UNIT:

In addition to the Tests mentioned in para 6.1 following Tests shall be conducted.

6.2.1. Temperature rise test for determining the maximum temperature rise after continuous full load run. The ambient temperature and time of test should be stated in the test certificate.

6.2.2. Impulse voltage test: As per Clause No. 13 (With chopped wave) of IS - 2026 part-III latest version. BIL for 11KV shall be 75 KV Peak.

6.2.3. Air Pressure Test: As per IS-1180/Part-I/2014

6.2.4. Short Circuit withstand test: Thermal and dynamic ability.

6.2.5. Magnetic Balance Test

Type test certificates for the tests carried out on prototype of same specifications shall be submitted along with the bid.



The purchaser may select any transformer from the offered lot for inspection during subsequent lots for carrying out temperature rise test from any Govt. approved lab. Further the purchaser may select the transformer for type tests randomly. The type test report(s) submitted by the bidder/ supplier from any NABL accredited laboratory shall be acceptable for participation of the bidder in the procurement/ empanelment process. In case NABL accredited laboratory happens to be that of manufacturer itself added precaution shall be taken to get type test and other tests witnessed in the laboratory by Nigam representative at the time of acceptance of material.

6.3. TESTS AT SITE: The purchaser reserves the right to conduct all tests on Transformer after arrival at site and the manufacturer shall guarantee test certificate figures under actual service conditions.

6.4. ACCEPTANCE TESTS: The transformers shall be subjected to the following routine/acceptance test in presence of purchaser's representative at the place of manufacture before dispatch without any extra charges. The testing shall be carried out in accordance with IS-1180/Part-I/2014 and IS: 2026 with latest amendments.

6.4.1. Checking of weights, dimensions, fitting and accessories, tank sheet thickness, oil quality, material, finish and workmanship as per GTP/QA Plan and contract drawings.

6.4.2. Physical verifications of core coil assembly and measurement of flux density of one unit of each rating, in every inspection with reference to short circuit test report.

6.4.3. All tests as specified in clause 6.1

6.4.4. One transformer per lot shall be tested at NABL accredited independent laboratory for performance measurement at free of cost.

6.5. TOLERANCES: Unless otherwise specified herein the test value of transformers supplied would be within the tolerance permitted in the relevant standards. No positive tolerance is allowed on guaranteed 50% Load and 100% Load losses.

7. INSPECTION:

All tests and inspection shall be made at the place of manufacturer and unless other wise especially agreed upon the manufacturer and the purchaser at the time of purchase. The



manufacturer shall afford the inspector representing the purchaser all reasonable facilities, without charge to satisfy him that the material is being furnished in accordance with specification.

The manufacturer shall provide all services to establish and maintain quality of workman ship in his works and that of his sub-contractors to ensure the mechanical/electrical performance of components, compliance with drawings, identification and acceptability of all materials, parts and equipment as per Nigam intends to purchase only High Quality material. For this purpose stringent testing of the material can be done. Inspection can be got done from third party Inspection agency or from Nigam's own officers. Nigam reserves the right of 100% testing of the transformers. The details of source of material shall be supplied duly filled as per Annexure-III.

7.1. STAGE INSPECTION

The purchaser's representative may carry out stage inspection of the transformers during manufacturing / assembling stage. The purchaser shall have absolute right to reject the raw material/component / sub assemblies or complete equipment not found to be conforming to the requirement of specification or being of poor quality / workmanship. The stage inspection will particularly include following tests / check besides the general Routine tests to be conducted during manufacturing stages as per manufacturer's standard practice.

- a) Physical inspection / checking of winding insulating material, core material for annealing and prime quality and other accessories /fitting of Transformer.
- b) Measurement of Core area and flux density.
- c) Verification of HV & L.V coils, conductor's size, I.D., O.D., Axial length, Weight, Insulation covering etc.
- d) Measurement of thickness of tank plates (Top, bottom and sides) and to conduct air pressure & vacuum tests as specified in the specification, to ensure the adequate strength of the transformer tank body.
- e) Sample testing of core material for checking specific loss and thickness of core plates.
- f) Visual and dimensional check during assembly stage of core.



g) Check for proper provisions of spacers and bracing outline drawing, provision for all fittings, finishing etc. The purchaser at his option may collect the sample of the following raw material / component for independent testing:

- a) CRGO Lamination - One specimen sheet of 300- 500 mm length and 50-75 mm width (for each lot)
- b) HV Winding wire- 1250 mm length specimen for each type
- c) LV Winding wire- 1250 mm length specimen for each type
- d) Transformer oil - 2 samples of 5 Liters each

To facilitate stage inspection, the supplier should intimate complete schedule of manufacturing programme of the transformers at least 15 days in advance to the concerned purchasing authority. At least 25% of the transformers shall be offered in the shape of finished core - coil assembly. The inspecting officers during the course of stage inspection may seal these core-coil assemblies.

a) The manufacturing program shall not be interrupted in case purchaser's representative does not reach within seven days of the date of intimation.

8. DOCUMENTATION:

The Bidder shall furnish along with the bid the dimensional drawings of the stems offered indicating all the fittings.

8.1. Dimension's tolerances

8.2. Weight of individual components and total weight.

9. PACKING & FORWARDING:

9.1. The packing shall be done as per the manufacturer's standard practice. However, it should be ensured that the packing is such that, the material would not get damaged during by Rail/ Road/ Sea.

9.2. The marking on each package shall be as per the relevant IS.



10. **SELF PROTECTED-HT SIDE**

Internal HV fuse of suitable rating shall be provided on the HT side of transformer.

Specification for the HV fuse: Expulsion/any other suitable type of fuse placed in series with the primary winding. The fuse is mounted normally inside of the primary bushing for the three phases and it is connected to the high voltage winding through a terminal block. This has to protect that part of the electrical distribution system, which is ahead of the distribution transformers from faults, which occur inside the distribution transformers i.e. either on the windings or some other part of the transformers. It shall be ensured that the fuse does not blow for faults on the secondary side (LT side) of the transformer-

11.0 **RATING AND TERMINAL MARKING PLATES:**

There shall be rating plates on the transformer containing the information specified in clause 13.1 and 13.2 of IS IS-1180/Part-I/2014. The following additional information must also be punched on the plate and imposed two opposite sides of the body of T/F.

- i) Purchase Order No & Date.
- ii) Date of inspection.
- iii) Make
- v) Guarantee period

11.1 TERMINAL MARKING PLATE AND STANDARD MARK. Shall be provided as per Clause No.13.2 to 13.4.1 of IS-1180/Part-I/2014

12.0 **GUARANTEED TECHNICAL PARTICULARS**

The guaranteed technical particulars of the transformer shall be given by the tenderer (Annexure-I) along with the tender. Tenders without GTPS shall be out rightly rejected

Important note:-

Wherever the provisions of the UHBVNL/DHBVNL specifications are superior to the provisions in the IS:1180 (Part-1) :2014, the former shall over ride the later. However, where the provisions in the IS:1180 (Part-1) :2014 are superior than the provisions in the UHBVNL/DHBVNL specifications, the former shall over ride the later



ANNEXURE-1

GUARANTEED & OTHER PARTICULARS FOR DISTRIBUTION TRANSFORMERS

(To be furnished by the Manufacturer)

Sl.N	Description
1. Make & Manufacturer	
2. Place of Manufacture	
3. Voltage	11000/433 V
4. Rating in KVA	200 KVA
5. Core Material used and Grade a) Flux density b) Over fluxing without saturation (Curve to be furnished by the Manufacturer in support of his claim)	
6. Maximum temperature rise of a) Windings by resistance method b) Oil by Thermometer	



7. Magnetizing (No load) Current

at a) Normal Voltage

b) Maximum Voltage

8. Core loss in watts

a) Normal Voltage

b) Maximum Voltage

9. Resistance of Windings at 20 deg.

C (with 5% tolerance)

a) HV Winding (ohms)

b) LV Winding (ohms)

10. Full load losses (watts) at 75 deg. c

11. Total Losses at 100% load at 75 deg. c

12. Total Losses at 50% load at 75 deg. c

13. Current density used for

a) HV Winding

b) LV Winding

14. Clearances

a) Core & LV

b) LV & HV

c) HV Phase to Phase

d) End insulation clearance to Earth



e) Any point of winding to tank

15. Efficiency at 75 deg. C.

a) Unity P.F. &

b) 0.8 P.F

1) 125 % load

2) 100 % load

3) 75 % load

4) 50 % load

5) 25 % load

16. Regulation at

a) Unity P.F.

b) 0.8 P.F. at 75 deg. C

17. % Impedance at 75 deg. C

18. Flash Test

HV 28 KV/ 50 HZ for 1 minute

LV 3 KV/ 50 HZ for 1 minute

19. Over potential Test Double Voltage &

20. Double frequency for 1 minute

21. Impulse test

22. Weight content of

a) Core Lamination (min.)



b) Windings (min.)

c) Tank & Fittings

(Thickness of side walls & thickness of top/bottom plate of DT)

d) Oil

e) Oil qty (min.)

f) Total Weight

23. Oil Data

1. Qty for first filling (mm)

2. Grade of oil used

3. Maker's name

4. BDV at the time of filling

24. Transformer:

1) Overall length X breadth X height

2) Tank length X breadth X height

3) Thickness of plates for

a) Side plate (min.)

b) Top & Bottom plate (min.)

25. Radiation:

1) Heat dissipation by tank walls exclusive & bottom

2) Heat dissipation by cooling tube

3) Dia. & thickness of cooling tube

4) Whether calculation sheet for selecting cooling



area to ensure that the transformer is capable

of giving continuous rated output without exceeding

temperature rise is enclosed.

26. Inter layer insulation provided in design

for 1) Top & bottom layer

2) In between all layer

3) Details of end insulation

4) Whether wedges are provide at 50 % turns of the HV coil

27. Insulation materials provided

a) For Conductors (1) HV (2) LV

b) For Core

28. Material and Size of the wire

used 1) HV

a) SWG/mm

b) Dia

2) LV

a) Strip size.

b) No. of Conductors in parallel.

c) Total area of cross section (sq. mm.)

29. Is the name plate gives all particulars as required in Tender

30. Whether BEE recommended 4-star Label Plate fixed on the DT



31. Particulars of Bushings HV/ LV

- i) Maker's name
- ii) Type IS-3347/IS- 1180
- iii) Rating as per I.S.
- iv) Dry power frequency voltage withstand test
- v) Wet power frequency voltage withstand test

Note: The following shall be specifically confirmed

1. Whether the offer conforms to the limits of impedance mentioned in the specification
2. Whether the offer conforms to the limits of temperature rise mentioned in the specification.
3. Whether the losses of the transformers offered are within the limits specified
4. Whether the transformers offered is already type for the design and test report enclosed.



1.1.1.1 ANNEXURE-II

ADDITIONAL DETAILS

Sl. No. Description

1. Core Grade
2. Core diameter (mm)
3. Gross Core area (cm)
4. Net Core area (cm)
5. Flux density (Tesla)
6. Wt. of Core (kg.)
7. Loss per kg. of Core at the
Specified Flux density (Watts)
8. Core window height
9. Center to center distance of the core (mm)
10. No. of LV. Turns
11. No. of HV turns
12. Size of LV Conductor bare/ covered (mm)
13. Size of HV conductor bare/ covered (mm)
14. No. of parallels
15. Current density of LV winding amps/sq.mm.
16. Current density of HV winding amps/ sq.mm
17. Wt. of the LV winding for Transformer kg.
18. Wt. of the HV winding for Transformer kg.



19. No. of LV Coils/phase
20. No. of HV coils/phase
21. Height of LV Windings mm
22. Height of HV Windings mm
23. ID/OD of LV Winding mm
24. ID/OD of HV winding mm
25. Size of the duct in LV winding mm
26. Size of the duct in HV winding mm
27. Size of the duct between HV & LV mm
28. HV winding to LV winding clearance mm
29. HV winding to tank clearance mm
30. Calculated impedance %
31. HV to earth creepage distance mm
32. LV to earth creepage distance mm



**SOURCE OF MATERIALS/PLACES OF MANUFACTURE TESTING AND
INSPECTION**

Sl. No. Item Source of Material Place of Place of testing and Manufacture inspection

1. Laminations
2. Aluminium Conductor
3. Insulated winding wires
4. Oil
5. Press Boards
6. Kraft Paper
7. MS Plated / Angles/ Channels
8. Gaskets
9. Bushing HV/ LV
10. Paints



Reference Abbreviations Name and Asset

IEC	International Electro Technical Commission Bureau Central de la Commission Electro Technique Geneva, Switzerland.
ISO	International Organization for Standardization. Danish Board of Standardization Aurchoegyej-12 DK-2900, Heerpup DENMARK
ISS	Indian Standard Bureau of Indian Standards Nanak Bhawan 9, Bahadur Shah Zafar Marg, NEW DELHI-110002, INDIA



SCHEDULE OF DELIVERIES

Sr. No.	Name of item / Specification	Name of consignee	Delivery Schedule
	3 phase 11KV/433-250V, 200 KVA oil immersed, naturally cooled Aluminium wound outdoor type Distribution Transformers as per Nigam Technical Specification no. CSC-142/DH/UH/P&D/2015-16 details as per Tender Documents.	Any Where in Haryana	For the 1st P.O., the 1st lot of transformers (1/3rd of ordered qty.) shall be delivered in the stores within 45 days after the date of commencement of delivery schedule i.e. from the day of approval of drawing/type tests or within 101st day from the date of issue of Rate Contract whichever is earlier and the balance supply shall be made in 2 equal lots of 45 days each. For subsequent POs the delivery shall be made in 3 equal lots of 45 days from the date of receipt of respective PO.

Note:-

1. The delivery schedule as mentioned above shall be read in conjunction with the clauses of type test and drawing mentioned in schedule – D (Part- II) , wherever applicable.
2. The material should be supplied to the consignees within 15 days of issue of dispatch authorization or within contractual delivery period whichever expires earlier. After this period, the firm will supply the material at its own risk and responsibility. The acceptances of such material with or without re-inspection upto the scheduled delivery period shall be at the sole discretion of Chief Engineer/MM, UHBVN/ DHBVN. Thereafter, Nigam will have a right to refuse or accept such delayed material on the applicable rates, terms & conditions.

Name & Full Address of Tenderer

Place:

Date:



Annexure-III

PARTICULARS OF THE BIDDER

1.	Name of the firm	
2.	Postal address.	
3.	Telephone No.	
4.	Fax No.	
5.	Email.	
6.	Type of organization:	
7.	Date of commencement of business.	
8.	Name of proprietor / Partners / Directors and their detail Bio-data.	Page _____ to _____ page
9.	Details of offices other than H.O./Controlling office and other infrastructure available.	Page _____ to _____ page
10.	Detailed organizational structure with background of key personnel.	Page _____ to _____ page
11.	Type of service being offered.	Page _____ to _____ page



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12.	List of clients' alongwith their addresses and contact telephone. Fax Nos. and type of services offered and/or being offered to them. a) Electricity Companies/ Board. b) Others.	Page _____ to _____ page Page _____ to _____ page
13.	Details of Empanelment accreditation Electricity Board/Companies/other Client alongwith empanelment/ accreditation letter.	Page _____ to _____ page
14.	Balance sheet and P&L Accounts of past 3 financial years.	Page _____ to _____ page
15.	Letters/certificates for successful completion of work from Electricity Companies/ Board/other.	Page _____ to _____ page
16.	Details of any collaboration/ tie up with Indian/Overseas Agency/Organization.	Page _____ to _____ page
17.	Any other additional information/certificate.	Page _____ to _____ page
18.	Details of work force with the agency.	



Format for raising Inspection Call by the Vendor / Supplier

From,

Name of the Firm with Complete Address

To,

Concerned Department (CE/MM)
Address

Subject:- Inspection Call for _____ No [Items] as per Work Order / Purchase Order No -
_____ dt. _____

Sir,

This is with reference to subject cited Work Order / Purchase Order. We would like to inform that below mentioned material is ready for inspection:

Sr No	Item Description	Quantity as per WO/PO	Quantity already Inspected & supplied	Quantity offered for Inspection	Balance Quantity	Contract Delivery Period

It is requested to kindly depute an officer for inspection of the materials. The name and contact details of the person responsible for getting the inspection conducted is:-

_____ [Contact Details of Person]

_____ [Date and Place for Inspection]

Signature
Name
Designation
Company Seal

Note:-



(TO BE FILLED IN AND SIGNED BY THE TENDERER)

SCHEDULE OF DEVIATIONS

We/I have carefully gone through the Technical Specification and the general conditions of contract and we/I have satisfied ourselves/myself and hereby confirm that our/my offer strictly conforms to the requirements of the Technical Specifications and general conditions of contract except for the deviations which are given below:-

Sr. No.	Description	Stipulation in specification	Deviations offered	Remarks.
A.	Commercial Terms:			
	Clause No.			
B.	Technical Specifications:			
	Clause No.			

(Please use more Sheets, if required).

Dated:

Place:

Designation

Name

Status

Whether Authorized Signatory of the Tendering Company

Name of the Tendering Company



BANK GUARANTEE PROFORMA

This agreement is made this _____ day of _____ (a) _____ between _____ (b) a company registered under banking Companies Act/or any other Act to be specified, having its registered office at _____ (c) called the guarantor which expression shall unless repugnant to the context or meaning thereof, include its successors and assigns of the first part M/s _____ (d) a Company/firm registered under the companies Act 1956/ partnership firm/proprietorship firm having its registered office at _____ (e) (hereinafter called the suppliers which expressions shall unless repugnant to the context or meaning thereof, include its successors and assigns) of the second part at the DHBVNL, a body corporate under company Act 1956 (hereinafter called the purchaser, which expressions shall unless repugnant to the context or meaning thereof, include its successors and assigns) of the third part.

Whereas the supplier has interalia agreed with the purchaser to supply the purchaser _____ (f) on the terms and conditions contained in the contract No. _____ dated -- (g) placed by the purchaser on the suppliers and accepted by the suppliers.

And whereas under clause _____ (h) of the said contract, the supplier is required to furnish a bank guarantee for a sum of Rs. _____ (i) being the _____ (j) value of all the consignments of the above material on account of retention money, which but for this guarantee value be withheld by the purchaser till such time that the material is received in good condition and in accordance with the specification of the same to guarantee the payment of the retention money on bills submitted against supply of material/repair of equipment on order from time to time upto a maximum amount of the sum Rs. _____ (k).

And whereas at the request of the supplier the purchaser has agreed not to retain _____ (l) of the contract price of all the consignments and in lieu thereof to accept Bank Guarantee from the Guarantor for the due performance of the said contract by the said supplier on the terms and conditions herein contained. Now this deed, therefore, witnesseth and it is hereby agreed by and between the parties hereto as follows:-

The Guarantor hereby guarantees to the purchaser the quality, workmanship and design of all the consignments of _____ (m) in accordance with the prescribed specifications and the terms of the said contract and agrees to indemnify and keep indemnified the said purchaser to the extent of Rs. _____ (n) in the aggregate against all losses, damages, costs, charges and expenses which maybe suffered or incurred by the purchaser on account of any defect in the material supplied or on account of any breach on the part of said supplier or any of the terms and conditions of the said contract in the supply/repair of the consignments. The guarantor further agrees the said purchaser shall be the sole judge whether the supply/repairs have been made according to the prescribed specifications, design and workmanship as laid down in the said contract and the supplier had committed breach or breaches of any of the terms and conditions of the said contract and the extent of loss/damage, cost, charges, I or expenses suffered or incurred by the purchaser on account thereof and the guarantor shall immediately on receipt of any claim or claims from the said purchaser pay to the extent of the amount specified above "without demur or objection".

The guarantor further agrees that this guarantee shall remain in full force and effect for _____ (o) months from the date of dispatch of material by the said



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supplier under the said contract i.e. upto _____(p)

The guarantor also agrees and undertakes not to revoke this guarantee before the same is discharged as aforesaid except with the previous consent of the said purchaser in writing.

The guarantor here by further agrees that the said purchaser shall have the full liberty without effecting in any manner the obligation of the guarantor hereunder with or without the consent of the guarantor to vary any of the terms of the said contract or to extend time for performance of the said contract by the supplier from time to time or to postpone for any time or from time to time any of the power exercisable by the purchaser against the said supplier and either to forbear or enforce any of the terms or conditions relating to the said contract and the guarantor shall not be relieved from his liability by reasons of any variation or any extension being granted to the said supplier or for any forbearance, act or omission on the part of the said supplier or any indulgence by the said purchaser to the said supplier or any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving the guarantor. Nor shall it be necessary for the said purchaser to sue the said supplier before suing the said guarantor for the amount/damages due under the deed of guarantee.

In witness whereof the parties hereto put their respective hands on the day and the year first above mentioned.

1. Witness

2. Witness

Signature of the Guarantor

1. Witness

2. Witness

Signature of the Supplier

1. Witness

2. Witness

Signature of the CE/MM

For & on behalf of the DHBVN

Note:-

1. Date of execution of Bank Guarantee.
2. Name of Bank
3. Complete address of the Bank.
4. Name of the supplier
5. Permanent address of the firm
6. Quantity and description of material
7. PO No. and date
8. Payment clause
9. Amount of Bank Guarantee
10. %age of the contract price
11. Amount of Bank Guarantee should be both in figure and words
12. Name of the material
13. Bank guarantee amount
14. Number of months
15. Date of validity



Format of Affidavit for last completed Purchase Order

I _____ Son of Shri _____ resident of _____ solemnly affirm and declare that I am holding the position as _____ the M/s _____ and I further hereby declare that.

1. Our last supply to any Govt. Power Utility in India is of _____ Distribution Transformers of rating _____ to _____ (Name of the Power Utility) against P.O. No. _____ dated _____ and we have supplied more than 50% of ordered quantity within delivery schedule (copy of P.O. along with copy of receipted challan enclosed)

Deponent

Verification

I, the above said deponent solemnly affirm and declare that the above said statement is true and correct to the best of my knowledge and belief and nothing has been concealed therein.

Deponent_____

Date:-

NIT No. _____

Enquiry No. _____

Attested by Notary Public



Annexure – VIII

TO BE SUBMITTED ON FIRMS LETTER HEAD

DULY ATTESTED BY CHARTERED ACCOUNTANT

The firm M/s _____ has supplied following quantity
of material to state/Central Govt. organization during last 5 years.

Sr. no.	Financial year	Name of the item	Quantity billed	Total bill value of items	Remarks
1.					
2.					
3.					
4.					
5.					

(The above information should be supported by documentary evidence)



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Annexure – IX

Undertaking

From

To

The Chief Engineer/MM,
DHBVN, Hisar

Subject;- Undertaking in respect of Tender Enquiry no. QD-771 for the procurement of 3 phase 11KV/433-250V, 200 KVA Distribution Transformers.

We hereby confirm our unconditional acceptance of all the terms and conditions mentioned in the tender documents against your tender enquiry no. QD-771 for the procurement of 3 phase 11KV/433-250V, 200 KVA Distribution Transformers.

The material shall be supplied strictly as per technical specification of the Nigam/relevant ISS without any deviation.

(Authorized Signatory of the firm)



Annexure – X

AFFIDAVIT FOR NON BLACKLISTING

(On NJSP)

I, _____ Director of M/S
_____ with Headquarter
at _____ being their authorized
signatory, do hereby solemnly affirm and declare that M/S _____
_____ is not blacklisted by any State/Central Govt. or
any of its agencies. I understand that if upon acceptance of our offer dated _____
against DHBVN/UHBVN tender enquiry No. _____ for supply of
_____ any P.O. is placed upon us, the same is liable to be
cancelled if this declaration is found wrong at any subsequent time and further I understand to
compensate the DHBVN / UHBVN, for the consequences arising out of wrong declaration.

Attested by Notary Public



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Annexure-XI

Price Schedule as provided in the Electronic tender at website

Tender Enquiry No. (0)	Item Description (1)	HSN Code (2)	NIT Quantity (Total) Min. Qty.) (3)	NIT Quantity (Total) Max. Qty.) (4)	Unit (5)	Place of billing (Haryana /Out Haryana) (6)	Quantity Offered (Minimum) of (7)	FOR Destination rates without GST in Rs. Per /Unit (8)	GST % (9)	GST in Rupees (10)	Any other duty/levy in Rs. Per /Unit (if applicable) (11)	Total amount (In Rs. Col No. (8+10+11) (12)
QD-771	200 KVA DTs		1800	2700	Nos.							