



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]  
E-mail: [semmdhbn@gmail.com](mailto:semmdhbn@gmail.com) , [cemmhisar@gmail.com](mailto:cemmhisar@gmail.com)

**NOTICE INVITING TENDERS**

(Only through e-procurement)

**NOTICE INVITED TENDER No. 583/DH/MM/XEN/MM-II**

**DATED: 24.08.2017**

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, 1000 KVA oil immersed, naturally cooled Copper wound outdoor type Distribution Transformers with SP (Self Protected-HT Side only) features as per Nigam Technical Specification no. CSC-119/R-I/DH/UH/P&D/2015-16 alongwith amendments details as per Tender Documents.	18 nos. Min.	<b>2.34 Crore</b>
	27 nos. Max.	<b>3.51 Crore</b>
Date of start	Last date of submission	<b>Opening date of part-I</b>
29.08.2017	20.09.2017 (13.00 Hours)	20.09.2017 (15.00 Hours)

Tender documents having detailed terms and conditions can be seen/downloaded from the portal <https://haryanaeprocurement.gov.in> and [www.dhbn.org.in/web/portal/tenders](http://www.dhbn.org.in/web/portal/tenders)

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

For Publication only



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**DAKSHIN HARYANA BIJLI VITRAN NIGAM**

NOTICE INVITING TENDER  
(Only through e-procurement)

**SCHEDULE OF TENDER (SOT)**

a NOTICE INVITING TENDER (NIT) No.	583/DH/MM DATED: - 24.08.2017				
b) e-tender no.	<b>55580</b>				
c. MODE OF TENDER	e-Procurement System (Online Part I - Techno-Commercial Bid and Part II - Price Bid Through <a href="https://haryanaeprocurement.gov.in">https://haryanaeprocurement.gov.in</a> of Nextenders India Pvt. Ltd.)				
d. Tender Enquiry No. under NIT No.	<b>QD-763</b>				
e. Date of NIT available to parties to download					
f i) Earnest Money Deposit	<b>2% of estimated cost subject to max. Rs. 2 Lacs. Exempted for Haryana State Micro and Small Enterprises (MSEs) including KVI units as per Department of Industries &amp; Commerce G.O. No. 2/2/2016-4 I BII(1) dated 20.10.2016.</b>				
ii) Tender Fees (Non-refundable)	<table border="1"><tr><td><b>For all the bidders except Haryana based MSMEs and KVI units (Rs.)</b></td><td><b>For the Haryana based MSMEs and KVI units (Rs.)</b></td></tr><tr><td>5000/-</td><td>1000/-</td></tr></table>	<b>For all the bidders except Haryana based MSMEs and KVI units (Rs.)</b>	<b>For the Haryana based MSMEs and KVI units (Rs.)</b>	5000/-	1000/-
<b>For all the bidders except Haryana based MSMEs and KVI units (Rs.)</b>	<b>For the Haryana based MSMEs and KVI units (Rs.)</b>				
5000/-	1000/-				
iii) E-Service Fee (Non-refundable)	<b>Rs. 1000/-</b>				

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: -**

Tender Enquiry No.	Name of the item	Quantity (In nos.)					
		DHBVN		UHBVN		Total	
		Min	Max	Min	Max	Min	Max
<b>QD-763</b>	3 phase 11KV/433-250V, 1000 KVA oil immersed, naturally cooled Copper wound outdoor type Distribution Transformers with SP (Self Protected-HT Side only) features as per Nigam Technical Specification no. CSC-119/R-I/DH/UH/P&D/2015-16 alongwith amendments details as per Tender Documents.	<b>10</b>	<b>15</b>	<b>8</b>	<b>12</b>	<b>18</b>	<b>27</b>

- 1) Only those tenders will be considered who fulfill the **Pre-Qualification Conditions** mentioned in the tender documents (as elaborated in **Annexure-II**)
- 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](mailto: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/Activity	Tenderer's Stage	Start date and time	Expiry date and time
1.	-	Downloading of Tender Documents & Bid Preparation & submission	29.08.2017 12.00 Hours	20.09.2017 13.00 Hours
2	Manual submission of technical documents (Within 4 days from the opening of part-I)		-	Upto 20.09.2017 (15.00 Hrs.)
3	Technical Opening (Part-I)	-	20.09.2017 15.00 Hours	---
4	Short-listing of Technical bids & Opening of Financial Bid			Will be intimated to the firms on their E-mail ids

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

**For Uploading on website only**



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. For more details please visit the website – <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, IIInd Floor,  
Sector – 16,  
Panchkula – 134108  
**E - mail:** [Chandigarh@nextenders.com](mailto: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
- The procedure for paying through Netbanking will be as follows.
- (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.

**List of Net banking banks**

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. Indusind 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



**Schedule- B**

**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 outrightly.
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.



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12.	Authenticated documents to prove authority of signatory (legal power of attorney in favour of signatory) <b>must be uploaded</b> . Memorandum of article and Memorandum of association of the firm, if applicable, shall also be <b>uploaded with the tender</b> . The firm shall submit the detail information in the performa of particular of bidder. <b>(Annexure-III)</b>
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. <b>The document shall be uploaded by the supplier/s.</b>
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 <b>(Annexure-V)</b> , 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.	<b>Purchase Preference:</b> 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 <a href="http://www.dsndharyana.gov.in">www.dsndharyana.gov.in</a> . 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.



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22.	<b>Arithmetical Errors:</b> - 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 undertaking 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 to 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. <b>The document shall be uploaded by the supplier.</b>
30.	The bidder shall submit all the requisite documents pertaining to the plant from where the material will be supplied. <b>The document shall be uploaded by the supplier.</b>
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. <b>The document shall be uploaded by the supplier.</b>
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><b>Submission of Quality Assurance Procedure</b></p> <p>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><b>QAP will indicate the following details:-</b></p> <ul style="list-style-type: none"><li>i) Tests being performed on the raw material purchased by manufacturer for manufacturing of the finished product.</li><li>ii) Tests being conducted during manufacturing of the product (In process testing).</li><li>iii) Tests which shall be done on the finished product at the time of pre-dispatch inspection.</li><li>iv) Test results assured by the vendor.</li><li>v) Tests procedure followed for the inspection with full details of test setup etc.</li></ul> <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.





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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.	<b>Pre-qualification conditions:</b> The firm quoting against the NIT shall meet with the Pre-qualification requirement as elaborated in <b>Annexure-II</b> without which the firm shall not be considered for placement of order. <b>The PQRs and other liabilities of the bidders shall be as per min. quantity offered by the firm.</b>



## Pre-qualification conditions

Sr. no.	1000 KVA Distribution Transformers
i.	<p>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).</p>
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 <b>Rs. 2.34 Crores</b>.)</p> <p><i>Manufacturing Small Enterprises (Including Khadi &amp; 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.</i></p> <p><i>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.</i></p> <p><b>Note:</b> - 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.</p> <p><b>(Format for CA certificate regarding turnover is enclosed as Annexure VIII of bidding documents).</b></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 &amp; 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.</p> <p>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). However, for PQR clause</p>



(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 energised on the date of opening of tender (Part-I).

***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.***

***Manufacturing Medium Enterprises that have filed Entrepreneurs Memoranda in Haryana, are Exempted in respect of Past Performance & Experience as part of Qualifying Requirements of the tender.***

***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.***

***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.***

***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 of bidding documents**).



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iv.	Minimum quantity to be quoted shall be at least <b>20%</b> of the minimum quantity of the NIT. Any offer below <b>20%</b> of the minimum quantity of the NIT shall be rejected and its price bid shall not be opened.
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>Manufacturing Micro and Small Enterprises (Including Khadi &amp; Village industries) that have filed Entrepreneurs Memoranda in Haryana, are Exempted in respect of Past Performance &amp; Experience as part of Qualifying Requirements of the tender.</p> <p>Manufacturing Medium Enterprises that have filed Entrepreneurs Memoranda in Haryana, are Exempted in respect of Past Performance &amp; 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 &amp; 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 &amp; Commerce, Govt. of Haryana in its order no. 2/2/2016-4IBII (1) dated 20.10.2016.</p> <p>(Format for affidavit for past supplies is enclosed as Annexure VII of bidding documents).</p>
vi.	<p>Only those firms who have not been blacklisted by any Central/State Govt. OR any Central/State Govt. Owned Power Utility at present 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 duly attested by Notary Public.</p> <p>(Format for an affidavit of non-blacklisting is enclosed as Annexure X of bidding documents).</p>



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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 should have 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. However, BIS certificates may be submitted by the successful bidder within 45 days from the date of issue of LOI/ Rate Contract by submitting an undertaking at the time of tender documents.



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**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. 583/DH/MM-II (QD-763)

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. 583/DH/MM

Enquiry No. QD-763

**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.



- (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 Ws \_\_\_\_\_

Purchaser: Dakshin Haryana Bijli Vitran Nigam (Hisar)/UTTAR Haryana Bijli Vitran Nigan (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 deteriorated 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 3<sup>rd</sup> 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 3<sup>rd</sup> 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 2<sup>nd</sup> 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 3<sup>rd</sup> 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

The Purchaser shall pay 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 Taxation authorities for the assessment of GST and amount claimed from the Haryana DISCOMs has been/shall be paid to the Tax 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 Act 2017 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/to be paid by us.
- iv) Certified that we are registered as a dealer under the GST and our GSTIN No. is \_\_\_\_\_.

Provided that in respect of the item at Sr. \_\_\_\_\_ and of clause – 7 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 under GST Act 2017.

#### 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 excise duty 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:

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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. FOR Destination rates without GST (Rs./Unit), GST (%), GST (Rs./Unit), Any other duty/levy (Rs./Unit) 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 within 78 months from the date the material is received by the consignee or 72 months from the date of installation whichever 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 1<sup>st</sup> 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:

- 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).
- 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 visit 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: -**

- a) 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



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



report, prescribed sale tax/excise duty certificates and excise duty gate pass wherever required etc., whichever is later.

- (b) The Bank Guarantee of the value of 10% [5% in case of Haryana based micro and small enterprises (including khadi and village industries units)] of the contract price of PO for complete requisite period shall be furnished within 15 days from the date of issue of PO 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:
- 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.
  - 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.
  - In the event of receipt of material without the receipt of BG, amount equivalent to BG alongwith 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.



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

**Specification No. CSC-119/R-I/DH/UH/P&D/2015-2016**

## **TECHNICAL SPECIFICATION**

**FOR**

**Outdoor type Distribution Transformers of**

**11 kV/433-250 V Class 400, 500, 630 & 1000 kVA with SP (self  
protected-HT Side only) features**

**Issue Month: March 2016**

**(CSC Approval date 22.03.2016)**

**Common Specification Committee**

**UHBVN & DHBVN**



**TECHNICAL SPECIFICATIONS FOR OUTDOOR NON SEALED TYPE THREE PHASE 11 kV / 433-250V DISTRIBUTION TRANSFORMERS OF, 400, 500, 630 & 1000 kVA CAPACITIES WITH INTERNAL SP (SELF PROTECTED-HT SIDE ONLY) FEATURES.**

**1.0 SCOPE:**

This specification covers the design, engineering, manufacture, shop testing, supply & delivery of oil immersed, naturally cooled, three-phase, 50 Hz, double-wound, outdoor type Distribution transformers of 400, 500, 630 & 1000 kVA capacity with SP (self protected-HT Side only).

- 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 irrespective of whether those are specifically brought out in this specification and / or the commercial order or not.

Transformers will be plinth mounted and suitable for housing in compact substation.

**2.0 STANDARDS:**

Unless otherwise modified in this specification the transformer/materials shall

conform in all respect 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	IS-2026:2011	IEC-76
Specification for Distribution Transformer	IS-1180/(Part-I):2014	IEC-60076
Insulating Oil for	IS-335/1983	BS-148



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transformer & Switchgear		
Fittings & Accessories for Power Transformer	IS-3639:1968	ASTM D-1275
High Voltage Porcelain Bushings	IS-2099:1986	IEC 296-1969
Low Voltage Porcelain Bushings	IS-7421-1988	
Dimensions for Outdoor Bushings	IS-3347	DIN 42531 to 33
Specification for Copper wire rods	IS-1244	ASTM B-49
Specification for colours for ready mixed paints	IS-5/1964	IEC-76
Guide for loading of oil immersed Transformers	IS-6600/1972	BS-148
Manual on Transformer	CBIP Publication No. 275	ASTM D-1275
Specification for Power Transformer	IS-2026:2011	IEC 296-1969
Insulating Oil for transformer & Switchgear	IS-335/1983	
Specification of Insulating craft paper	IS:9335	
Specification for insulating press board	IS:1576	

The bidder shall use latest version of IS, however, wherever 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.

### 3.0 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 (°C)	60
iii)	Minimum ambient air temperature (°C)	-5
iv)	Maximum average daily ambient temperature (°C)	40
v)	Maximum yearly weighed average ambient temperature (°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.
xii)	Seismic Zone	4

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

#### 4.0 PRINCIPAL PARAMETERS OF THE TRANSFORMER

The transformer shall be suitable for outdoor service as step down transformer.

The electrical parameters of the transformer shall be as follows:

1	Rated HV voltage	11 kV
2	Rated LV voltage	433 – 250 volts
3	Connection (HV)	Delta
4	Connection (LV)	Star
5	Vector Group	Dyn - 11
6	Material of winding	Electrolytic Copper, Double wound type



7	Type of cooling	ONAN
8	Max. Current density in HV & LV winding	
	For copper wound T/F above 200 kVA	2.6.A/mm <sup>2</sup>
9	Method of system earthing	Neutral Solidly earthed system

#### 5.0 NO-LOAD VOLTAGE RATIO

The no-load voltage ratio shall be 11000/433 V for the relevant transformers.

#### 6.0 TEMPERATURE RISE

The transformer shall be capable of operating continuously at its normal rating without exceeding the temperature rise limit. The temperature rise shall not exceed the limits of 40°C (measured by resistance method) for transformer windings and 35°C (measured by thermometer) in top oil above the ambient temperature when tested in accordance with IS 2026. The Transformer with higher temperature rise shall not be acceptable. Hot spot temperature shall not exceed 95°C when calculated on an annual weighted average temperature of 35° C as per IS: 2026.

6.1 The limits of temperature rise mentioned above will have to be satisfied by the manufacturer by carrying the Heat run test at the lowest negative tap by feeding losses corresponding to the rated current of the tap.

#### 7.0 LOSSES

7.1 The total losses at 50% & 100% loading for 11000/433 V DT shall not exceed the values given below:

kVA rating of T/F	Max., total loss (watt) at 50% load	Max., total loss (watt) at 100% load
400	1150	3330
500	1430	4100
630	1745	4850
1000	2620	7000

These losses are maximum allowable and there would not be any positive tolerance. However, the manufacturer can offer losses less than above.

7.2 The supplier shall quote No-Load loss in KW at the rated voltage and frequency. The load loss in KW at rated voltage, frequency & output, for the temperature of 75 degree centigrade shall also be quoted. The supplier shall guarantee these loss figures.



## 8.0 IMPEDANCE:

The recommended percentage impedance at 75°C is 4.5% for rating of 630 kVA and below T/F and 5% for 1000 kVA T/F with a tolerance as per IS1180-2014

## 9.0 WINDING

- 9.1 The primary (HV) windings shall be connected in Delta and the secondary (LV) winding in Star (Vector system DYn11) so as to produce a positive displacement of 30 degree from the primary to secondary vectors of the same phase. The neutral of secondary windings shall be brought out to a separate insulated neutral terminal. The neutral is to be solidly earthed in a separate earth pit and the transformer body is to be connected to station grounding system. HV windings shall consist of single coil design or cross over coil design. The copper wires for coil formation shall be of sufficient cross-sectional area to impart desired mechanical strength. All delta leads from HT coils as well as HT line leads should be taken out through DPC. The current density in these leads should not exceed 0.8A /sq.mm.
- 9.2 The winding shall be so designed as to produce minimum out of balance forces in the transformers.. The current density for copper wound transformer shall be limited to 2.6 A / mm<sup>2</sup>.
- 9.3 The winding design shall ensure that all the coil assemblies are of identical voltage ratio and shall be interchangeable and repairing of the winding could be made easily without special equipment.
- 9.4 The conductor used in the coil shall be best suitable to the equipment and all the permanent current carrying joints in the winding and leads shall be properly sleeved and crimped/brazed instead of jointing with solder or welding. All LV coil ends shall be provided with brazed/crimped lugs and HV coil ends by brazing/crimping.
- 9.5 Double paper covering shall be used for winding insulation both for HV & LV windings. Electrical grade epoxy coated insulated paper shall be used for inter-layer insulation of the HV& LV coils, corrugated cylinder made of pre-compressed board shall be provided between HV & LV winding. Angle shaped and rings made from pre-compressed board shall be used between end coil and the core.

OR

For 400/630/500/1000 kVA transformers HT winding shall have enamel conductor and LT winding shall have enamel copper insulation. Electrical Grade insulation Kraft paper in layers of total thickness not less than 4 MIL shall be used for interlayer insulation, DPC and Kraft paper used shall be of uniform density and free from any foreign particles and shall conform to IS: 698/56 and latest amendments thereof. The end turn of each layer shall be properly and fully covered to avoid interlayer flashover. Corrugated Cylinder made from precompressed insulation board should preferably be used between LV and HV windings. The insulation of coils shall be vacuum impregnated in oil to develop full electrical strength in the windings. All



material used in the insulation and assembly of the winding shall be insoluble non catalytic and chemically inactive in the hot transformer oil and shall not soften or otherwise be adversely effected under operating conditions.

The core and coil assembly shall be fully dried out in 'Air Drying oven' till the coils are shrunken to the designed level and are completely dried. Only then they will be impregnated in the transformer oil.

- 9.6 Minimum gap of 25 mm shall be maintained between the end coils and core.
- 9.7 The minimum insulation resistance values in Mega Ohms between winding and earth when the transformer is filled with oil should be:

	<b>Insulation resistance between winding and earth (Mega Ohm)</b>				
	<b>20°C</b>	<b>30°C</b>	<b>40°C</b>	<b>50°C</b>	<b>60°C</b>
<b>HV winding</b>	800	400	200	100	50
<b>LV winding</b>	400	200	100	50	25

The insulation resistance values (HV windings) should be measured with a 2500 V Megger

- 9.8 The overloading capacity transformer shall be as per IS-6600
- 9.9 The value of unbalance current indicated by the ammeter shall not be more than 2% of the full load current.

## **10. CORE CONSTRUCTION**

### **10.1 MATERIAL – CRGO METAL**

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.

- 10.1.1 Invoice of the supplier
- 10.1.2 Mills Test Certificate
- 10.1.3. Packing List
- 10.1..4. Bill of Loading
- 101.5. Bill of entry certificate to customs

### **10.2.1 Core clamping for CRGO Stacked core.**

- 10.2.1. MS channel shall be used on top and bottom



- 10.2.2. 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
- 10.2.3. MS channel shall be painted with varnish or oil resistant paint
- 10.2.4. Clamping & Tie-rods shall be made of HT steel and shall be parkarised.
- 10.3. **Core clamping for CRGO wound core.**
- 10.3.1 Core clamping shall be with top and bottom U-shaped core clamps made of sheet steel clamped HT steel tie rods for efficient clamping
- 10.3.2 MS core clamps shall be painted with varnish or oil-resistant paint.
- 10.3.3 MS rods shall be used as tie rods
- 10.4. Suitable provision shall be made in the bottom core clamp/ bottom plate of the transformer to arrest movement or the active part.
- 10.5. 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.
- 10.6. No load current shall not exceed 2% 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 disproportionately high. 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.
- 10.7. "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 DHBVN". Details of the core shall be filled & supplied as per Annexure-II.

#### 10.7.1. 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.

#### 11.0 TANK CONSTRUCTION

- 11.1 The tank shall be of robust construction in accordance with the best engineering practice. The main tank of the transformer shall be fabricated from tested quality of mild steel of adequate thickness i.e. minimum 4.00 mm. (for side walls) and 6.00 mm. (for top & bottom plates). The tank shall be valid (V shape welding fillet) inside of tank two outside welding of tank to bear more pressure to avoid bursting.
- 11.2 To provide rigidity and to meet the pressure inside the tank, due to short circuit current, the tank shall be suitably stiffened. The stiffeners wherever applicable are provided on all the four side walls of the tank, designed not to retain water.
- 11.3 The tank cover shall be slightly sloping towards HV bushing and shall provide facilities for draining of water.



- 11.4 The transformer tank shall be complete with all accessories, lifting lugs and shall be designed as to allow the complete transformer tank, filled with oil to be lifted by crane or other means without risk of any damage and transported by Rail / Road without straining any joint and without causing leakage of oil.
- 11.5 Bolted inspection covers shall be provided on top cover to inspect core, winding and have access to the bottom of bushing.
- 11.6 The tank shall be capable of withstanding the pressure of +/- 1kg /cm<sup>2</sup> without deformation.

The transformer body should be welded from inside of the main tank body so that the joint is stronger due to V-shape welding fillet besides the outside welding be additional. The word DHBVNL shall be properly engraved on the top cover plate and side plate of tank body.

- 11.7 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
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.





11.8 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

## 12.0 **SURFACE PREPARATION AND PAINTING**

12.1 The painting procedure shall be in line with the DHBVN requirement.

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

- a) Proper storage to avoid exposure as well as extremes of temperature and shelf life for storage
- b) Surface preparation prior to painting.
- c) Mixing and thinning
- d) Application of paints and the recommended limit on time intervals between coats.

12.3 All paints, when applied in normal full coat, shall be free from runs, sags, Wrinkles, patchiness or other defects.

12.4 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 the manufacturer's recommendations. However, wherever airless spray is not possible, conventional spray be used with prior approval of purchaser.

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

### 12.6 **Cleaning and Surface Preparation:**

12.6.1 All machining, forming, welding and other manufacturing activities shall be completed before surface preparation. All steel work surfaces shall be thoroughly cleaned of rust, scale, welding slag or spatter and other contamination by sand / shot blast cleaning or chemical cleaning by seven tank process including Phos-phating to the appropriate quality in accordance with IS 6005.

12.6.2 The Pressure and Volume of the compressed air supply for the blast cleaning shall meet the work requirements and shall be sufficiently free from all water contamination.

12.6.3 All rough surfaces shall be filled with approved two pack filler and then rubbed down to a smooth finish.



## 12.7 Protective Coating

As soon as all items have been cleaned and phosphated within four hours of the subsequent drying, they shall be given suitable anticorrosion protection of Zinc chromate primer.

## 12.8 Paint Material

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

- i) Heat resistant paint (Hot oil proof) for inside surface.
- ii) For external surfaces one coat of Thermo Setting Paint or 2 coats of Zinc chromate followed by 2 coats of polyurethane paint minimum dry film thickness 80 microns. The color of the finishing coats shall be light admiral gray conforming to No. 697 of IS: 5:1961

## 12.9 Painting Procedure

12.9.1 All paints in anyone particular system, whether shop or site applied, shall originate from one paint manufacturer.

12.9.2 The paint shall only be applied in the manner detailed by the manufacturer e.g. conventional or airless spray and shall be applied under the manufacturer's recommended conditions.

12.9.3 Where the quality of film is impaired by excess film thickness (wrinkling, mud cracking or general softness) the supplier shall remove the unsatisfactory paint coatings 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 paints are applied, such coatings should be of slightly contrasting colors.

12.9.4 Paint applied to items that are not being painted, shall be removed at supplier's expense, leaving the surface clean, un-stained and undamaged.

### 12.10.1 Damaged Paint Work

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

12.10.2 Any damaged paint work shall be made good as follows:

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

- a) A priming coat shall immediately applied, followed by a full paint finish equal to that originally applied and extending 50 mm around the perimeter of the originally damaged.



- b) The repainted surface shall present a smooth surface. This shall be obtained by carefully chamfering the paint edges before & after priming.

#### 12.11 Dry Film Thickness

12.11.1 To the maximum extent practicable, the coats shall be applied as a continuous film of uniform thickness and free of pores. Over-spray, skips, runs, sags and drips should be avoided.

12.11.2 Each coat of paint shall be allowed to hardened before the next is applied as per manufacturer's recommendations.

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

12.11.4 The requirement for the dry film thickness (DFT) of paint and the material is to be used shall be as given below: -

Sr No.	Paint Type	Area to be painted	No. of Coats	Total Dry Film thickness (Min) in microns
1.	Powder Paint	Inside	01	30
	a) Thermo setting powder. Paint	Outside	01	60
2.	Liquid paint			
	Chromate/			
	a) Zinc Epoxy	Out side	01	30
	(Primer)			
	b) Polyurethane	Outside	02	25 each
	paint (Finish Coat)			
	c) Hot Oil resistant			
	paint/varnish	Inside	01	35/10

#### 13 CLEARANCES

The external electrical clearance between phase to phase and phase to earth shall be in accordance with Clause 7.1 of IS:2099 shall not be less than the values given below:-

Voltage	Medium	Clearance Phase to Phase (mm)	Clearance phase to Earth (mm)
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11 kV Air 255 140

433 V Air 75 40

The aforesaid clearances are minimum, and no negative tolerance on these clearances shall be allowed

#### 14.0 BUSHINGS

14.1 Terminal arrangement: The transformer shall be fitted with three high voltages and four low voltage outdoor types porcelain bushing of appropriate voltage and current rating and LT bushing shall be provided on the side of the tank. Each terminal including the neutral shall be distinctly marked and coloured for phase voltage on both HV and LV sides. The system of marking shall be in accordance with the latest amendment of relevant IS.



14.2 The electrical characteristics of high voltage bushing shall conform to latest version of IS: 2099 and IS 3347. The low voltage bushing shall conform to latest version of IS: 7421. All porcelain bushing shall be homogeneous, free from flaws effecting its mechanical strength or dielectric quality. They should be well vitrified, uniformly glazed, tough and impervious to moisture. The creepage distance of all the bushing shall be 31mm per kV of highest system voltage suitable for heavily polluted atmosphere and the protected creepage distance not less than 50% of total.

14.3 **Bushing terminals:** To avoid bimetallic action at the point of connection to the copper windings and to the external aluminum cables/conductors, both HV & LV bushing stems shall be made of aluminum alloy / copper conforming to the requirement IS: 3347.

The terminal connectors shall receive XLPE cables or ACSR on HT side. The terminals shall be directly screwed on to the stem to secure effective sealing of the bushing. The transformers shall be provided with terminal lugs / thimbles of approximate size on bushings both on HV side & LV side.

#### 15.0 **FITTINGS AND ACCESSORIES**

The transformer shall be fitted with the following fittings & accessories

- a) Two earthing terminals;
- b) Oil level Indicator;
- (c) Lifting lugs and Platform lugs
- (d) Rating, diagram and terminal marking plate(s)
- (e) Silica gel breather of approved design containing min. 0.25kg dehydrated Silicagel.
- (f) Drain-cum-sampling valve (steel) welded to the tank.
- (g) Thermometer pocket with dial type thermometer on tank cover.
- (h) Air Release Plug.
- (i) Pressure relief device as standard fitment to operate at a pressure of 0.3 to 0.5 kg/cm<sup>2</sup>.
- j) Filling hole having P 1-1/4 thread (with cover) on the conservator.
- (k) Filter valve- 2 nos. on top and bottom ends of tank at opposite sides.
- (l) Conservator with filling hole and drain plug
  
- (m) Porcelain bushings with arcing horns and terminal connectors on HV side.
  
- (n) Porcelain bushing on LV side and HV side conforming to IS-3347, part-I and III of the latest version thereof with brass studs fitted with single gap arcing horns.



(0) Offload tap changer (for above 200 kVA transformers with tapping range of +5% to -7.5% in steps of 2.5% each with a locking device. Detail as below.

(p) Bimetallic terminal connector for HV/LV Bushings connecting to XLPE cables/ACSR.

(q) PSR Radiators duly tested for leakage and pressure.

(r) Plain rollers (4 nos., bi directional) suitable for use on 1000 mm gauge track with clamping device or base mounting arrangement as required. For transformers up to 200 kVA the mounting arrangement shall be as per relevant IS

Note: (i) The fittings listed above are indicative and any other fittings which are generally required for satisfactory operation of the transformer are deemed to be included in the quoted price of the transformer.

### **Tap Changing Arrangement.**

OFF Circuit tap changing switch should be provided on HV side. Tapping + 5% to - 7.5% in steps of 2.5%. Provision shall be made for locking the tapping switch handle in position. Suitable aluminium anodized plate shall be fixed for tap-changing switch to know the position no of tap. Switch position no.1 shall correspond to the maximum plus tapping. The tap position no. should be in increasing order in clock-wise direction. The tap markings should be of engraved in nature. Provision shall be made for locking the tap switch handle at each position. The locking arrangement shall be such that padlock cannot be inserted unless required contacts corresponding to the tap position are correctly connected with full contact pressure. Mechanical back stopper should be provided at the limiting tap positions. The tap changing shall be affected by an external three phase gang operated switch. The operating shaft shall be easily accessible. The tap-changer switches used in the transformer shall be of robust design. The stationery brass contact shall be so rigidly fixed to maintain rigidity and co-axiality with operation shaft throughout its life. The operating handle shall not have appreciable play if any position of tap without disturbing the engagement of moving and fixed established by turning the handle in staple. The supplier may be required to give the results of electrical and mechanical tests including endurance tests carried out to ensure its life with reference to any relevant ISS or any other acceptable standard in the transformer with sectional drawings showing the size, arrangement and functioning of the contacts of the tap switch. The sample of the tap switch used for different sizes of transformers and voltage grades shall have to be approved before using them in transformer if called for.

## **16.0 CONSERVATORS**

16.1 A Conservator shall be provided with each transformer.

The oil level gauge with low level alarm and the plain silica gel breathing device shall be fixed to the conservator which shall also be provided with a drain plug and a filling hole with a cover. In addition, the cover of the main tank shall be provided with an air release plug to enable trapped air to be released unless the conservator is so located as to eliminate the possibility of air being trapped in the main tank.

16.2 The inside diameter of the pipe connecting the conservator to the main tank shall be within 25 to 50 mm and it should project into the conservator in such a way 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° C) should be above the sump level.



Breather pipe should be connected at top of the conservator tank with two bends at right angles.

#### **17.0 SEALING GASKETS**

All sealing washers and gaskets shall be made of 'oil and heat resistant Nitrile / Neoprene rubber/synthetic .rubber-bonded cork type RC-70C gaskets. The oil level in the transformer shall be made up to the required level while the transformer filled with oil is maintained at a temperature of 45 Deg. C. All steel screws, nuts and fasteners exposed to atmosphere shall be either galvanized or cadmium plated.

#### **18.0 TRANSFORMER OIL**

The transformer oil used shall comply with the requirements of the specification as per Annexure-IV enclosed in addition to the provision in the IS: 335-1993 (Latest). Oil sample will also be taken out from fresh stock of T/F oil to be tested as per latest IS: 335-1993. One sample of oil drawn from every lot of transformer offered for inspection may be tested at NABL accredited lab for tests.

#### **19.0 BASE MOUNTING ARRANGEMENT**

The under base of all transformers shall be provided with two 75x40x6mm. Channels with holes (at a centre to centre distance of 415mm) to make them suitable for mounting on plinth

#### **20.0 RATING AND TERMINAL MARKING PLATE(S)**

Each transformer shall be provided with non-detachable rating diagram and terminal marking plate(s) of weather proof material, fitted in a visible position and showing the complete information as given under clause 17 of IS: 1180-2014. Further each transformer shall have inscription of Owner name- Purchase order and date.

#### **21.0 TESTS:**

21.1 Routine Tests: All transformers shall be subjected to routine tests at the manufacturer's works in accordance with IS: 2026 and IS: 11802014

21.2 Acceptance tests: The following tests acceptance tests are to be carried out in presence of purchaser's representative in accordance with procedure mentioned in the General specifications:

- (a) Measurement of winding resistance
- (b) Measurement of voltage ratio and check of voltage vector relationship
- (c) Measurement of impedance voltage/short circuit impedance and load-loss





- (d) Measurement of no-load loss and current at full voltage.
- (e) Measurement of insulation resistance
- (f) Induced over-voltage withstand test
- (g) Separate-source voltage withstand test
- (h) Dielectric tests
- (i) Oil sample test for BDV and moisture content
- (j) Visual examination & Measurement of Dimensions
- (k) Pressure test
- (l) Oil leakage test

### 21.3 Type Tests:

#### **TYPE TESTS TO BE CONDUCTED ON ONE UNIT:**

In addition to the Tests mentioned in para 21 following Tests shall be conducted.

- 21.3.1. 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.
- 21.3.2. Impulse voltage test: As per Clause No. 13 (With chopped wave) of IS – 2026 part-III latest version.
- 21.3.3. Air Pressure Test: As per Cl. - 22.5 of IS- 1180-2014
- 21.3.4. Short Circuit withstand test: Thermal and dynamic ability.
- 21.3.5. Magnetic Balance Test.
- 21.3.6 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.
- 21.3.7 Type test certificates for the tests carried out on prototype of same specifications shall be submitted along with the bid.



The purchaser may select the transformer for type tests randomly

**NOTE:** Purchaser reserves the right to get all or any type/ special test carried out on one sample per 100 units or a part thereof. The test shall be conducted at manufacturer's works or any recognized laboratory or a Govt test house.

The supplier shall furnish calculations in accordance with IS: 2026 to demonstrate the thermal ability of the transformers to withstand short-circuit.

## 21.0 TEST VOLTAGES

Transformers shall be capable of withstanding the power frequency and impulse test voltage prescribed below:

Nominal system voltage	Highest voltage	Impulse test voltage	Power frequency voltage
433 V (rms)	-	-	3 kV
11 kV (rms)	12 kV (rms)	95 kV (Peak)	28 kV (rms)

## 22.0 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.

- Physical inspection / checking of winding insulating material, core material for annealing and prime quality and other accessories /fitting of Transformer.
- Measurement of Core area and flux density.
- 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.

### 23.1 DOCUMENTATION:

All drawings shall conform to International Standards Organization (ISO) 'A' series of drawings sheet/ Indian Standards Specification IS-656. All drawings shall be in ink and suitable for microfilming. All dimensions and data shall be in SI Units

### 23.2 LIST OF DRAWINGS AND DOCUMENTS:

The tenderer shall furnish four sets of following drawings along with his offer:-

- a) General outline and assembly drawings of the equipment.
- b) Graphs showing the performance of equipment in regard to magnetization characteristics.
- c) Sectional views showing:



- a. General constructional features.
  - i) The materials / gaskets/ sealing used.
  - ii) The Insulation, the winding arrangements, method of connection of the primary / secondary winding to the primary / secondary terminals etc.
  - iii) Porcelain used and its dimensions along with the mechanical and electrical characteristics.
  - d) Arrangement of terminals and details of connection studs provided.
  - e) Name Plate.
  - f) Schematic drawing.
  - g) Type test reports in case the equipment has already been type tested.
  - h) Test reports, literature, pamphlets of the bought out items and raw material.
- 23.3** The manufacturing of the equipment shall be strictly in accordance with the approved drawings and no deviation shall be permitted without the written approval of the purchaser. All manufacturing and fabrication work is connection with the equipment prior to the approval of the drawing shall be at the supplier's risk.
- 23.4** 16 sets of nicely printed and bound volumes of operation, maintenance and erection manuals in English Language, for each type and rating of equipment supplied shall be submitted by the supplier for distribution, prior to the dispatch of the equipment. The manual shall contain all the drawings and information required for erection, operation and maintenance of the distribution transformer. The manual shall also contain a set of all the approved drawings, type test reports etc.
- 23.5** Approval of drawings / work by purchaser shall not relieve the supplier of his responsibility and liability for ensuring correctness and correct interpretation of the drawings for meeting the requirement of the latest version of applicable standards, rules and codes of practices. The equipment shall confirm in all respects to high standards engineering, design workmanship and latest revisions of relevant standards at the time to ordering and purchaser shall have the power to reject any work or materials which, in his judgement is not in full accordance therewith.



#### **24.0 PACKING**

Transformer shall be suitably packed as per the standard practice while dispatching from the works. Although the method of packing is left to the discretion of the manufacturer it should be robust enough for handling normally encountered during transportation by road/rail.

All accessories shall be dispatched in suitable boxes or crates. They shall be securely bound with wire and shall have all descriptive marking stamped thereon.

#### **25.0 INSTRUCTIONS MANUAL**

Eight sets of the instruction manuals shall be supplied at least four (4) weeks before the actual dispatch of equipment. The manuals shall be in bound volumes and shall contain all the drawings and information required for erection, operation and maintenance of the transformer. The manuals include amongst others, the following particulars:

- a) Marked erection prints identifying the components, parts of the transformer as dispatched with assembly drawings.
- b) Salient technical particulars of the transformer..
- c) Copies of all final approved drawings.
- d) Detailed O&M instructions with periodical check lists and Performa etc.

#### **26.0 COMPLETENESS OF EQUIPMENT**

- i) All fittings and accessories, which may not be specifically mentioned in the specification but which are necessary for the satisfactory operation of the plant, shall be deemed to be included in the specification and shall be furnished by the contractor without extra charges. The equipment shall be complete in all details, whether such details are mentioned in the specification or not, without any financial liability to the Purchaser under any circumstances.
- ii) All deviations from this specification shall be separately listed under the requisite schedules, in the absence of which it will be presumed that all the provisions of the specification are complied with by the bidder.



## 27.0 INSPECTION:

All tests and inspection shall be made at the place of manufacturer and unless otherwise 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.

## 28.0 QUALITY ASSURANCE PLAN:

- 28.1 The Bidder shall furnish following information along with his bid. Information shall be separately given for individual type of material offered.
- 28.2 Statement giving list of important raw materials, names of sub-supplies for the raw materials, list of standards according to which the raw materials are tested. List of tests normally carried out on raw materials in the presence of Bidder's representative, copies of test certificates.
- 28.3 Information and copies of test certificates as in (1) above in respect of bought out accessories.
- 28.4 List of manufacturing facilities available.
- 28.5 Level of automation achieved and list of areas where manual processing exists.
- 28.6 List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such test and inspection.
- 28.7 List of testing equipment available with the bidder for final testing of equipment along with valid calibration reports shall be furnished with the bid. Manufacturer shall possess 0.1 class instruments for measurement of losses.
- 28.8 Manufacturer's Quality Plan (MQP) to be provided at the time of GTP/Drg/Type test





28.8 The successful Bidder shall within 30 days of placement of order submit following information regarding list of new materials as well as bought out accessories and the names of sub-suppliers selected from those furnished along with offer.

**29. DOCUMENTATION:**

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

29.1 Dimension's tolerances

29.2 Weight of individual components and total weight.

**30. PACKING & FORWARDING:**

30.1 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.

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

**31. MANDATORY SPARES:**

Mandatory spares shall be supplied as per the purchaser's requirement.

**32. SELF PROTECTED (SP) FEATURES on HT-Side of transformer.**

DHBVN reserves the option of asking bidders to incorporate the following SP (Self Protected) features in the Distribution Transformers of all kVA capacities. However this shall be specifically defined in the tender by the Nigam.

The transformers shall have the following SP features:

32.1 Internal HV fuse 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.

33. **Transformer Sealing facility**

The transformer should have facility to seal the transformers Top Plate & its body.

34. **RATING AND TERMINAL MARKING PLATES:**

There shall be rating plates on the transformer containing the information specified in clause 15.2 of IS: 2026-1977 (part-i). No load & full load losses of the transformer should also be mentioned on the rating plate. 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) Property of DHBVN
- iv) Make
- v) Guarantee period
- vi) 5-Star rating label in accordance with colour design, logo etc., shall be provided on the transformer as per the design / recommendations of Bureau of Efficiency (BEE)

35. **PENALTY FOR NON PERFORMANCE:**

- 35.1 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
- 35.2 Transformer with temperature rise and impedance beyond the Guaranteed values.
- 35.3 Purchaser reserves the right to reject any transformer during the test at supplier's works, if the temperature rise exceeds the guaranteed values.
- 35.4 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.
- 35.5 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.

**36. PROTOTYPE TRANSFORMER**

The prototype transformer on which type test got conducted shall be supplied to DHBVN duly sealed after completion of type testing in the beginning itself before commencement of supply. The bidder shall furnish an affidavit that all his balance transformers shall meet with prototype in all respects (internal & external). The Nigam can randomly select any transformer and verify the internal/external details with the prototype sample at any time during warranty period.

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

The purchase may select any transformer from the offered lot for inspection during subsequent lots for carrying out temperature rise test from any Govt. approved lab.

**37. Nigam's Quality Assurance Plan:-**

The Nigam's Quality assurance plan for the inspection of material at manufacturer's factory, post receipt inspection at Nigam's stores/ turnkey contractor's site stores, dispatch of material, supply lots, counter checking etc. is in force for the procurement and turnkey works which shall be applicable, as the case may be, alongwith up-to-date amendments, if any.

**38. GUARANTEED TECHNICAL PARTICULARS**

The guaranteed technical particulars of the transformer shall be given by the tenderer (Annexure-1) along with the tender. Tenders without GTP'S 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.

SE/P&D, DHBVN  
Cum-member Secretary  
CSC, DHBVN/UHBVN



**Amendment No. -I**

**DAKSHIN HARYANA BIJLI VITRAN NIGAM**

The amendments in the technical specification No. CSC-119/R-I/DH/UH/P&D/2015-16 may be read as under: -

Sr. No	Specification clause no.	Existing clause	Proposed clause																														
1.	6.0 (Temperature Rise)	<b>6.0 (TEMPERATURE RISE):-</b> The transformer shall be capable of operating continuously at its normal rating without exceeding the temperature rise limit. The temperature rise shall not exceed the limits of <b>40°C</b> (measured by resistance method) for transformer windings and <b>35°C</b> (measured by thermometer) in top oil above the ambient temperature when tested in accordance with IS 2026. The Transformer with higher temperature rise shall not be acceptable. Hot spot temperature shall not exceed 95°C when calculated on an annual weighted average temperature of 35° C as per IS: 2026.	<b>6.0 (TEMPERATURE RISE):-</b> The transformer shall be capable of operating continuously at its normal rating without exceeding the temperature rise limit. The temperature rise shall not exceed the limits of <b>45°C</b> (measured by resistance method) for transformer windings and <b>40°C</b> (measured by thermometer) in top oil above the ambient temperature when tested in accordance with IS 2026. The Transformer with higher temperature rise shall not be acceptable. Hot spot temperature shall not exceed 95°C when calculated on an annual weighted average temperature of 35° C as per IS: 2026.																														
2.	<b>7.1</b>	The total losses at 50% and 100% loading for 11000/433 V, DTs shall not exceed the values given below: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>kVA Rating of T/Fs</th> <th>Max. total losses at 50% load (Watts)</th> <th>Max. total losses at 100% load (Watts)</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>1150</td> <td>3330</td> </tr> <tr> <td>500</td> <td>1430</td> <td>4100</td> </tr> <tr> <td>630</td> <td>1745</td> <td>4850</td> </tr> <tr> <td>1000</td> <td>2620</td> <td>7000</td> </tr> </tbody> </table> <p>These losses are maximum allowable and here would not be any positive tolerance. Bids with higher losses</p>	kVA Rating of T/Fs	Max. total losses at 50% load (Watts)	Max. total losses at 100% load (Watts)	400	1150	3330	500	1430	4100	630	1745	4850	1000	2620	7000	The total losses (includes no-load & load losses) at 50% and 100% loading equivalent to <b>BEE 2-Star rating (As per BIS, Energy Efficiency level-3)</b> shall not exceed the values given below: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>kVA Rating of T/Fs</th> <th>Max. total losses at 50% load (Watts)</th> <th>Max. total losses at 100% load (Watts)</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>1150</td> <td>3330</td> </tr> <tr> <td>500</td> <td>1430</td> <td>4100</td> </tr> <tr> <td>630</td> <td>1745</td> <td>4850</td> </tr> <tr> <td>1000</td> <td>2620</td> <td>7000</td> </tr> </tbody> </table> <p>The above losses are maximum allowable and hence would not have any positive</p>	kVA Rating of T/Fs	Max. total losses at 50% load (Watts)	Max. total losses at 100% load (Watts)	400	1150	3330	500	1430	4100	630	1745	4850	1000	2620	7000
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		than the above specified values would be treated as non-responsive. However, the manufacturer can offer losses less than above.	tolerance. Bids with higher losses than the above specified values would be treated as non-responsive. However, the manufacturer can offer losses less than the above values. <b>BEE star rating logo and BIS mark should be provided on each transformer.</b>
3.	10.6.	<b>10.6.</b> No load current shall not exceed 2% 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 <b>disproportionately high</b> . 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.	<b>10.6.</b> No load current shall not exceed 2% of full load current and will be measured by energizing the transformer at rated voltage and frequency. Increase of 12.5% of rated voltage shall not increase the No load current by <b>5%</b> of 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.
4.	10.7.1 (Temperature rise)	<b>10.7.1 Temperature rise:-</b> The temperature rise over ambient shall not exceed the limits described below: i) Top oil temperature rise measured by thermometer: <b>35</b> deg. C. ii) Winding temperature rise measure by resistance: <b>40</b> deg. C. Bids not meeting the above limits of temperature rise will be treated as non-responsive.	<b>10.7.1 Temperature rise:-</b> The temperature rise over ambient shall not exceed the limits described below: i) Top oil temperature rise measured by thermometer: <b>40</b> deg. C. ii) Winding temperature rise measure by resistance: <b>45</b> deg. C. Bids not meeting the above limits of temperature rise will be treated as non-responsive.

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



**GUARANTEED & OTHER PARTICULARS FOR DISTRIBUTION TRANSFORMERS (CSP type) –  
1000 KVA, 11/0.433 kV DTs**

**(To be furnished by the Manufacturer)**

**Sl.N Description**

1. Make & Manufacturer
2. Place of Manufacture
3. Voltage in kV
4. Rating in 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. 50% load losses (watts) at 75 deg. c
11. 100% Load Losses at 75 deg. C (watts)
12. Current density used for  
a) HV Winding  
b) LV Winding
13. 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
- 14. Efficiency at 75 deg.
  - C. a) Unity P.F. &
  - b) 0.8 P.F
- 1) 125 % load
- 2) 100 % laod
- 3) 75 % load
- 4) 50 % load
- 5) 25 % load
- 15. Regulation at
  - a) Unity P.F.
  - b) 0.8 P.F. at 75 deg. C
- 16. % Impedance at 75 deg. C
- 17. Flash Test
  - HV 28 kV/ 50 HZ for 1 minute
  - LV 3 kV/ 50 HZ for 1 minute
- 18. Over potential Test Double Voltage &
- 19. Double frequency for 1 minute
- 20. Impulse test
- 21. 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 22. Oil Data
1. Qty for first filling (mm)
  2. Grade of oil used
  3. Maker's name
  4. BDV at the time of filling
23. 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.) 24.
- 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.
25. 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



26. Insulation materials provided

- a) For Conductors (1) HV (2) LV
- b) For Core

27. Material and Size of the wire used

1) HV

- a) SWG/mm
- b) Dia
- c) 2) LV
- a) Strip size.
- b) No. of Conductors in parallel.
- c) Total area of cross section (sq. mm.)

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

29. MCCB (if provided) as per Nigam latest technical specification.

30. Particulars of Bushings HV/ LV

- 1) Maker's name
- 2) Type IS-3347/IS- 1180
- 3) Rating as per I.S.
- 4) Dry power frequency voltage withstand test
- 5) 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 reports enclosed.



## **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



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- 
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 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





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Reference Abbreviations Name and Asset

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IEC	International Electro Technical Commission Bureau Central de la Commission Electro Technique International, Rue de verembe 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

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**GUARANTEED CHARACTERISTICS OF NEW TRANSFORMER OIL IN DRUMS/TANKERS AND IN TRANSFORMERS**

**A. OIL IN DRUMS/TANKERS**

S.No.	Characteristics	Requirement
1.	Appearance	Oil shall be clear & transparent & free from suspended matter or sediments.
2.	Density at 29.5°C (Max.)	0.89 g/cm <sup>2</sup>
3.	Kinematics viscosity at 27°C (Min.)	27CST
4.	Interfacial tension at 27°C (min.)	0.04 N/M
5.	Flash point (Min.)	140°C
6.	Pour point (Max.)	-°C
7.	Neutralization value a) Total acidity (Max.) b) In organic acidity	0.03 mg KOH/gm Nil
8.	Corrosive sulphur	Non-corrosive
9.	Electric strength (Break down voltage) Min. a) New untreated oil: If the above value is not obtained the oil shall be treated. b) After treatment.	a) 30 kV (rms) b) 60 kV (rms)
10.	Dielectric dissipation factor (Tan-delta) at 90°C	0.002 (Max.)
11.	Water content )Max.)	50 ppm
12.	Specific resistance (resistivity) a) At 90°C (Min.) b) At 27°C (Min.)	a) 35x10 <sup>12</sup> ohm-cm b) 900 x10 <sup>12</sup> ohm-cm
13.	Oxidation stability a)Neutralization value after oxidation (max.) b)Total sludge after oxidation (Max.)	0.40 mg KOH/gm 0.10% by weight
14.	Ageing characteristics after accelerated ageing	



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	(open breaker method with copper catalyst) a) Specific resistance (Resistivity) i) At 27°C Min.)  ii) At 90°C (Min.)  b) Dielectric dissipation factor (Tan delta) at 90°C  c) Total acidity (Max.)	          2.5 x 10 <sup>12</sup> ohm-cm          0.2 x 10 <sup>12</sup> ohm-cm
	d) Total sludge value percent by weight	0.2 Max.   0.05 mg KOH/gm  0.05 Max.
15.	Presence of oxidation inhibitor	Absent

**B. CHARACTERISTICS OF OIL IN THE TRANSFORMERS**

The important characteristics of the transformer oil after it is filled in the transformer (within 3 months of filling) shall be as follows:-

Sr No	Characteristics	Permissible limit satisfactory for use
1.	Electric Strength (Breakdown voltage kV) Prior to energisation	50 kV minimum
2.	Water content (PPM)	25 PPM (max.)
3.	Specific Resistance (Resistivity) ohm-cm at 90°C	2X10 <sup>12</sup> ohm-Cm (Min)
4.	Dielectric dissipation factor tan delta) at 90°C	0.01 (Max)
5.	Neutralization value (Total acidity)	0.055 mg. KOH/gm (Max)
6.	Sediment and/or perceptible sludge	Absent
7.	Flash point	140°C (Min)
8.	Interfacial tension at 27°C	0.030 N/m(Min).



**SCHEDULE OF DELIVERIES**

Sr. No.	Name of item / Specification	Name of consignee	Delivery Schedule
QD-763	3 phase 11KV/433-250V, 1000 KVA oil immersed, naturally cooled Copper wound outdoor type Distribution Transformers with SP (Self Protected-HT Side only) features as per Nigam Technical Specification no. CSC-119/R-I/DH/UH/P&D/2015-16 alongwith amendments details as per Tender Documents.	Any Where in Haryana	<b>ITEM SPECIFIC AS PER REQUIREMENT (to be decided/approved by CE/MM while issuing NIT)</b>  The material shall be supplied in 4 equal lots to each utility. 1 <sup>st</sup> lot of 25% quantity shall be delivered within 45 days of the date of approval of drawings or 100 days of the date of placement of LOI whichever is earlier. Balance quantity shall be delivered within 3 equal monthly lots thereafter. 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:



**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:-**



**Annexure – V**

**(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.	<b><u>Commercial Terms:</u></b>			
	Clause No.			
B.	<b><u>Technical Specifications:</u></b>			
	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, witnessh 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, l 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 1000 KVA 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

From

To

The Chief Engineer/MM,  
DHBVN, Hisar

**Subject: - Undertaking in respect of Tender Enquiry no. QD-763 for the procurement of 1000 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-763 for the procurement of 1000 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)



**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 Qty., (Total Min. qty.) (3)	NIT Qty., (Total Max. qty.) (4)	Unit (5)	Place of billing (Haryana /Out of Haryana) (6)	Qty. offered (min/Max.) (7)	FOR Destination rates without GST in Rs. Per/Unit (8)	GST % rates (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)