

By Regd. Post with Ack. Due.



**NORTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LTD**  
**WARANGAL - 506 001.**

## (EXTENSION PURCHASE ORDER)

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**From**

The Chief General Manager / P&MM,  
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 T.S.N.P.D.C.L, Corporate Office,  
 Nakkalagutta, Hanamkonda,  
 Warangal - 506 001.

GSTIN No. 36AABCN2875L321.

**To**

M/s. Toshiba Transmission & Distribution  
 Systems (India) Private Limited,  
 Rudraram, Patancheru Mandal,  
 Sangareddy District, Telangana.  
 Pin : 502329, India

SAP No.	5	1	0	0	0	0	2	0	1	3
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P.O.No.CGM/P&MM/NPDCL/Wgl./GM/DE-2/A3/Extn.PM-5444/17, Dt.16-12-2017.

Sir,

**Sub:-** TSNPDCL - P&MM Wing - Tender Specification No.STN-06/2017-18 for procurement of 11KV/433-250V, 3 Phase 800 KVA Conventional Copper Wound Distribution Transformers with BIS Energy Efficiency Level-2 (Star-1) **for Water Grid Works - Extension Purchase Order - Issued** - Reg.

**Ref:-** 1. Tender specification No. STN-06/2017-18.  
 2. Lr.No.CGM/P&MM/NPDCL/WGL/GM/DE-2/A3/PM-5308/17 Dt. 23.09.17.  
 3. Office Note Approved on Dt. 14.12.2017.

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- ACCEPTANCE :** I acting for and on behalf of and by the order and direction of the TSNPDCL, accept the rates for supply of 800 KVA Conventional Copper wound Distribution Transformers with BIS Energy Efficiency Level -2 with guaranteed losses as per **Clause-5.0** and as per the above cited correspondence at the following terms and conditions.
- PRICES :** The prices noted are variable and free at a destination stores inclusive of Freight & Insurance, Ex-works and CGST @9% & SGST @ 9%. The unloading charges at destination stores shall be to TSNPDCL's account. The prices are variable as per IEEMA price variation formula as given below with base date as **01-08-2017** with ceiling limit of 30% on positive side and there is no limit on negative side.

$$P = \frac{P_o}{100} \left\{ 10 + 33 \frac{C}{C_o} + 24 \frac{ES}{ES_o} + 9 \frac{IS}{IS_o} + 4 \frac{IM}{IM_o} + 5 \frac{TO}{TO_o} + 15 \frac{W}{W_o} \right\}$$

The date of delivery for the purpose of price variation, shall be the date on which the Distribution Transformers is notified as being ready for inspection/despatch (in the absence of such notification, the date of manufacturers despatch note shall be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto) (or) actual date of delivery, whichever is advantageous to purchaser for supplies made beyond schedule delivery date. For material deliveries before the schedule delivery date, the prices shall be as per the IEEMA PVC Clause (on TSNPDCL request for early supplies in writing).

As far as practicable, prices will be revised (upward or downward) abinitio, to take care to any variation in price of raw materials as defined above, but if for any reason it is not found to be practicable, the deliveries shall be effected at the contracted price and price variation claimed subsequently through a supplementary bill which will be paid as per the purchase order terms after approval by this office. If any time, any documentary evidence proof or certificate in regard to the price variation bill is required by this office the supplier shall have to furnish the same.

The price variation bills shall be claimed separately which will be paid after approval of the same by this office and after adjustment of recoveries, if any, intimated by field officers. You shall claim only the prices as indicated in the purchase order in your regular bills.

If there is downward revision in the prices of materials at the time of supply, the suppliers shall invariably claim the invoices at reduced rates on account of such downward revision.

Any variation up or down taxes or other statutory levies, or new levies introduced after placing of the order, under this specification, shall be to the TSNPDCL's account, provided that, the delivery schedules are adhered to by the supplier. In case, if there are increase in tax or other statutory levies or new levies after the agreed delivery dates, the supplier shall bear the impact of these levies and if there is downward variation/revision TSNPDCL shall be given credit to that extent.

### 3. SCHEDULE OF MATERIALS :

#### i) 800 KVA DTR with BIS EE Level-2

Sl. No.	Particulars	Qty. (Nos.)	Rate per unit (Rs. Ps.)	Amount (Rs. Ps.)
1.	11KV/433-250V, 800 KVA, BIS Standard mark, oil immersed naturally cooled three phase, 50 Hz double wound, CRGO Core copper Winding, outdoor type, <b>Conventional Distribution Transformers with BIS Energy Efficiency Level-2 (STAR-1)</b> top cover fixed with nut and bolt and neoprene gasket arrangement generally conforming to IS 1180 (Part 1) : 2014 latest versions except where specified otherwise with first filling of oil generally as per IS-335/1983 (latest version) and as per specification.	8	<p style="text-align: center;"><b>11,17,437.44</b></p> Ex-works : 9,38,980.88 F&I : 8,000.00 CGST @ 9% : 85,228.28 SGST @ 9% : 85,228.28	89,39,499.52
		<b>8</b>	<b>Total :</b>	<b>89,39,499.52</b>
<b>(Rupees Eighty Nine Lakhs Thirty Nine Thousand Four Hundred and Ninety Nine and Fifty Two Paise Only)</b>				

#### NOTE:-

- The above transformers are guaranteed for a period of **five years** from the date of receipt of material at destination stores.
- 6 sets of drawings, guaranteed technical particulars, additional details and Source of materials shall be submitted within 2 days of receipt of purchase order and all other particulars mentioned in the list of fittings.
- You are requested to furnish the type test reports and BIS certificate before commencement of supplies as per specification.

#### 4. DELIVERY:

The delivery of the transformers shall commence and complete as shown below.

Schedule Date of Delivery	800 KVA (Qty.)
15.02.2018	4
05.03.2018	4
<b>Total</b>	<b>8</b>



The type test reports and drawings of the above 800 KVA Conventional Copper wound Distribution Transformers with BIS Energy Efficiency Level-2 may be got approved well before commencement of supplies.

Delay in delivery of materials free at destination stores due to non-availability of transport facility and any such reasons will not be considered. It is the responsibility of the suppliers to make alternate arrangements for transporting the material so as to see the material reaches the destination within the stipulated period.

The TSNPDCL shall have the right to vary the delivery schedule mentioned in this purchase order due to any operational exigencies at any time during the execution of the order by the suppliers, after due notice.

#### 5. LOSSES:

The total losses (includes no-load & load losses) at 50% and 100% loading as per IS 1180 (Part-1): 2014 shall not exceed the values at rated voltage and rated frequency permitted at 75 Deg.C are indicated below :

Voltage ratio	KVA rating	Max. Total Losses @ 50% load in Watts	Max. Total Losses @ 100% load in Watts
11KV/433 V	800	2287	6402

The above losses are maximum allowable and there would not be any positive tolerance. Firm has to supply the transformer as per no load losses, load losses and Maximum losses at 50% and 100% as mentioned in GTP.

#### 6. PENALTY FOR EXCESSIVE LOSSES: (During Guarantee period).

6.1. During testing, if it is found that the actual measured losses are more than values mentioned in GTP/specified losses, penalty shall be recovered from the supplier.

- (a) No load losses Rs. 288.23 per watt or part of there excessive loss.
- (b) Load loss: Rs. 93.68 per watt or part of there excessive loss.

For fraction of a KW, proportionate penalty will be recovered.

6.2 Transformers with temperature rise and impedance beyond guaranteed values not be accepted.

Transformers with temperature rise and impedance beyond guaranteed values:

i. If the temperature rise exceeds the guaranteed values in any sample of the transformer during testing, purchaser reserves the right to reject the available lot of the transformer.

ii. If the impedance values differ from the guaranteed values including tolerance in any sample of the transformer during testing, purchaser reserves the right to reject the available lot of the transformer.

#### 7. DESIGN & CONSTRUCTION:

7.1 **CRGO Core:** Material shall be CRGO sheet (M4 or Better grade) only prime quality material should be used. Prime excesses, Used material, Scrap, seconds, material or core removed from the second hand transformers shall not be used

