

**3 X 660 MW NORTH KARANPURA STPP**  
**AUXILIARY SERVICE TRANSFORMERS (OIL FILLED) For ACC Application**  
**PRICE SCHEDULE- INDIAN BIDDERS**

Sr. No.	Item code	Item Description	Unit	Quantity	Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)	ED Nil aganinst PAC	CST/VA T @.....% of EX-Works	Freight Including Service Tax @.....% of EX-Works	Total FOR Site Price (INR)
1.0	302-11010-A	2500kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=13.0%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)	NO.	45						
2.0	302-11000-B	OIL FILLED SERVICE TRANSFORMER - Mandatory Spares Details as per Annexure-I	SET	1						
3.00	302-11045-A	EXTRA OIL (10%) IN SEALED NON RETURNABLE STANDARD DRUMS (Type & no. of Transformers, as per annexure-II)	LOT	1						
4.00	302-11051-A	TYPE TEST (Details as per Annexure-III)	LOT	1						
	Total (1 to 4)									

**NOTES**

- 1 BIDDER TO NOTE THAT THE COST OF TRANSFORMER SHALL INCLUDE THE COST OF ROUTINE TESTS AND SHALL BE CARRIED OUT ON ALL TRANSFORMERS WITHOUT ANY ADDITIONAL COST. BIDDER SHALL QUOTE ACCORDINGLY.
- 2 BIDDER SHALL SUPPLY 10% EXTRA OIL AS PER THE QUOTED PRICE. QUANTITY OF EXTRA OIL SHALL BE SUBJECT TO APPROVAL DURING DETAIL ENGINEERING.

- 3 \*\*CHARGES FOR CARRYING OUT SHORT CIRCUIT TEST SHALL BE PAYABLE BASED ON ACTUAL INVOICE FROM DESIGNATED LABORATORIES (CPRI, BHOPAL/ CPRI, BANGLORE / ERDA, VADODARA) WITH AN ADDITIONAL LUMP SUM AMOUNT OF 5% OF EX-WORKS PRICE OF TRANSFORMER BEING TESTED TO COVER HANDLING COSTS (TRANSPORTATION, INSURANCE ETC.).
- 4 IN CASE TYPE TESTS ARE WAIVED, THE TYPE TEST CHARGES SHALL NOT BE PAYABLE TO THE BIDDER
- 5 CHARGES FOR ALL TYPE TESTS EXCEPT SHORT CIRCUIT TEST SHALL BE CONSIDERED FOR PRICE COMPARISONS PURPOSE.
- 6 IN CASE ANY OF THE TYPE AND SPECIAL TESTS ARE REQUIRED TO BE REPEATED THE SAME SHALL BE CARRIED OUT BY THE VENDOR WITHOUT ANY COMMERCIAL / DELIVERY IMPLICATION TO BHEL.

**3 X 660 MW NORTH KARANPURA STPP**  
**AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)-ACC Application**  
**PRICE SCHEDULE (MANDATORY SPARE)-INDIAN BIDDERS**

ANNEXURE-I

Sr. No.	Item code	Item Description	Unit	Quantity	Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)	ED Nil aganist PAC	CST/VAT @ .....% of EX-Works (INR)	Freight Including Service Tax @ .....% of EX-Works (INR)	Total FOR Site Price (INR)
1.0		HV bushing with metal parts & gaskets	NO EACH TYPE	3						
a		11.0/0.433kV, 2500KVA	NO.	3						
2.0		LV bushing with metal parts & gaskets	NO EACH TYPE	3						
a		11.0/0.433kV, 2500KVA	NO.	3						
3.0		LV Neutral bushing with metal parts & gaskets	NO EACH TYPE	1						
a		11.0/0.433kV, 2500KVA	NO.	1						
4.0		WTI with contacts	NO EACH TYPE	1						
a		11.0/0.433kV, 2500KVA	NO.	1						
5.0		OTI with contacts	NO EACH TYPE	1						
a		11.0/0.433kV, 2500KVA	NO.	1						
6.0		Pressure relief Device	NO EACH TYPE	1						

**3 X 660 MW NORTH KARANPURA STPP**  
**AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)-ACC Application**  
**PRICE SCHEDULE (MANDATORY SPARE)-INDIAN BIDDERS**

ANNEXURE-I

Sr. No.	Item code	Item Description	Unit	Quantity	Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)	ED Nil against PAC	CST/VAT @ .....% of EX-Works (INR)	Freight Including Service Tax @ .....% of EX-Works (INR)	Total FOR Site Price (INR)
7.0		MOG	NO EACH TYPE	1						
8.0		Buchholz relay complete	NO EACH TYPE	1						
9.0		Set of gaskets	SET	1						
a		11.0/0.433kV, 2500KVA	NO.	1						
10.0		Set of valves	SET	1						
a		11.0/0.433kV, 2500KVA	NO.	1						
11.0		Air cell for conservator	NO. (AS APPLI	1						
<b>Total</b>										

**3 X 660 MW NORTH KARANPURA STPP  
AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)-ACC Application**

ANNEXURE-II

**PRICE SCHEDULE (EXTRA OIL)-INDIAN BIDDERS**

Sr. No.	Item Description	Unit	Quantity	Unit Ex-Works (INR) Price	Total Ex-Works (INR)	ED Nil against PAC	CST/VAT @.....% of EX	Freight Including Service Tax	Total FOR Site Price (INR)
<b>EXTRA OIL (10%) IN SEALED NON RETURNABLE STANDARD DRUMS (Type &amp; no. of Transformers, as below)</b>									
1.0	2500kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=13.0%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)	NO.	45						
<b>Total</b>									

<u>NOTES</u>	
1	BIDDER SHALL SUPPLY 10% EXTRA OIL AS PER THE QUOTED PRICE. QUANTITY OF EXTRA OIL SHALL BE SUBJECT TO APPROVAL DURING DETAIL ENGINEERING.

**3 X 660 MW NORTH KARANPURA STPP**  
**AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)-ACC Application**  
**PRICE SCHEDULE (TYPE TEST)-INDIAN BIDDERS**

ANNEXURE-III

Sr. No.	Description of Type Test	Unit	Quantity	Unit Prices (INR)	Total Prices (INR)	Service Tax (INR)	Total Prices Including Service Tax
1.0	2500kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=13.0%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)	NO.					
1.a	TANK PRESSURE TEST	NO.	1				
1 b	TANK VACUUM TEST	NO.	1				
1 c	MEASUREMENT OF ACOUSTIC NOISE LEVEL AS PER NEMA TR-1	NO.	1				
1 d	TEMPERATURE RISE TEST AT A TAP CORRESPONDING TO MAXIMUM LOSSES. (Gas Chromatography shall be conducted on oil sample taken before & immediately after temp. rise test. Gas analysis shall be as per IS: 9434 (based on IEC: 60567), results will be interpreted as per IS: 10593 (based on IEC: 60599). Result shall be recorded for future reference).	NO.	1				
1 e	LIGHTNING IMPULSE(FULL & CHOPPED WAVE) TEST ON WINDINGS (AS PER IEC 60076-3)	NO.	1				
1 f	SHORT CIRCUIT TEST (SPECIAL TEST) AS PER IEC 60076-5**	NO.	1	AS PER NOTE 1			
<b>Total</b>							

**NOTES**

- 1 \*\*CHARGES FOR CARRYING OUT SHORT CIRCUIT TEST SHALL BE PAYABLE BASED ON ACTUAL INVOICE FROM DESIGNATED LABORATORIES (CPRI, BHOPAL/ CPRI, BANGLORE / ERDA, VADODARA) WITH AN ADDITIONAL LUMP SUM AMOUNT OF 5% OF EX-WORKS PRICE OF TRANSFORMER BEING TESTED TO COVER HANDLING COSTS (TRANSPORTATION, INSURANCE ETC.).
- 2 TYPE TEST CHARGES SHALL ALSO BE APPLICABLE IN CASE OF WAIVAL OF ANY TYPE TEST BY THE PURCHASER AT A LATER DATE.

- 3 IN CASE TYPE TESTS ARE WAIVED, THE TYPE TEST CHARGES SHALL NOT BE PAYABLE TO THE BIDDER
- 4 IN CASE ANY OF THE TYPE AND SPECIAL TESTS ARE REQUIRED TO BE REPEATED THE SAME SHALL BE CARRIED OUT BY THE VENDOR WITHOUT ANY COMMERCIAL / DELIVERY IMPLICATION TO BHEL.

