



ANNEXURE-I OF NIT REF NO- PE/PG/SIN/E-4268/13, DTD-12.12.2013

2 X 600 MW SINGARENI THERMAL POWER PROJECT, ADILABAD

PRICE SCHEDULE FOR AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)

**MAIN SUPPLY**

SL NO	ITEM DESCRIPTION	UOM	TOTAL QTY	UNIT EX- WORKS PRICE (DULY PACKED) (₹)	TOTAL EX- WORKS PRICE (DULY PACKED) (₹)	ED (INCLUDING CESS) @ % (₹)	CST/VAT @ % Against Form 'C' /I/E/II (₹)	SERVICE TAX @ (₹)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (₹)	TOTAL F.O.R SITE PRICE (₹)
A	AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)									
A.1	1600KVA, 11KV/433V, 3 phase, 2 winding, outdoor, ONAN, Z= 8.0%, Dyn1, OFF Circuit taps ± 5% in steps of 2.5% (with cable box type HV and with bus-duct type LV termination)	NOS	16.00							
A.2	1000KVA, 11KV/433V, 3 phase, 2 winding, outdoor, ONAN, Z= 6.0%, Dyn1, OFF Circuit taps ± 5% in steps of 2.5% (with cable box type HV and with bus-duct type LV termination)	NOS	2.00							
A.3	1000KVA, 11KV/433V, 3 phase, 2 winding, outdoor, ONAN, Z= 6.0%, Dyn1, OFF Circuit taps ± 5% in steps of 2.5% (with cable box type HV and with bus-duct type LV termination) [max. losses at 50% loading-3.0KW, Max losses at 100% loading - 9.8 KW. For Green Building as per ECBC table 8.2]	NOS	2.00							
A.4	TOTAL FROM A.1 TO A.3	NOS	20.00							
B.0	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS FOR FOLLOWING AUXILIARY SERVICE TRANSFORMERS (OIL FILLED) (Item-wise breakup as per Annexure-II)	LOT	1.00							

*Sumed Sahay*  
12/12/13



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PRICE SCHEDULE FOR AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)

MAIN SUPPLY

SL NO	ITEM DESCRIPTION	UOM	TOTAL QTY	UNIT EX- WORKS PRICE (DULY PACKED) (₹)	TOTAL EX- WORKS PRICE (DULY PACKED) (₹)	ED (INCLUDING CESS) @ % (₹)	CST/VAT @ % Against Form 'C' /E/El (₹)	SERVICE TAX @ (₹)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (₹)	TOTAL F.O.R SITE PRICE (₹)
C.0	TYPE TESTS/ SPECIAL TESTS ON TRANSFORMERS (Item-wise breakup as per Annexure-III)	LOT	1.00							
D.0	MANDATORY SPARES (Item-wise breakup as per Annexure-IV)	LOT	1.00							
E.0	ORDERING VALUE (A.4+B.0+C.0+D.0)									
F.0	OPTIONAL ITEMS									
	O&M Spares for 3 years operation shall be submitted by the bidder for reference only (separate Item-wise Annexure to be furnished, if applicable)									

Note:-

- Bidder to note that total price indicated above at E.0 shall be considered for evaluation and hence should be complete in all respect for the full scope defined and considering all terms and conditions agreed.
- Any item not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.
- Above Quantity of Transformers shall be for ordering. Variation in Quantity may be to the extent of +30% of the Total Order Value.
- Bidder shall supply 10% extra oil as per the quoted price. Quantity of extra oil shall be subject to approval during detail engineering.
- Bidders to note that all routine and acceptance tests as per Clause No. 10.04 & 10.05 of Technical Specification No. PE-RC-999-302-E001 shall be carried out on all Transformers without any additional cost. Charges for all routine and acceptance tests shall be deemed to be included in bid price. Bidders shall quote accordingly.
- For any clarification please refer Technical Specification No-PE-TS-381-302-E001
- Indian Bidders to note that the Freight/charges that is to be quoted by you shall be in percentage of the Total Ex Works. Bidder to mention the percentage of freight (of Total Ex Works).

सुमीत सहाय/SUMEET SAHAY  
वरिष्ठ अभियंता (पी.जी.-2)/Sr. Engineer (PG-2)  
भारत हेवी इलेक्ट्रिकल्स लिमिटेड/Bharat Heavy Electricals Ltd.  
प्लॉट नं.-25, सेक्टर-16ए, नोएडा-201 301  
Plot No. 25, Sector-16A, Noida-201 301

**Note:-**

**SUNNET SAHAY**



ANNEXURE-III OF NIT REF NO. PE/PG/SIN/E-4268/13. DTD-12.12.2013						
2 X 600 MW SINGARENI THERMAL POWER PROJECT, ADILABAD						
PRICE SCHEDULE FOR AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)						
TYPE TESTS/ SPECIAL TESTS CHARGES ON AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)						
SL NO	ITEM DESCRIPTION	UOM	TOTAL QTY	UNIT TEST CHARGES (₹)	TOTAL TEST CHARGES (₹)	SERVICE TAX @ (₹)
TOTAL TEST CHARGES INCLUDING SERVICE TAX (₹)						
C.0	TYPE TESTS/ SPECIAL TESTS CHARGES ON FOLLOWING AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)					
C.1	1600kVA, 11kV/433V, 3 phase, 2 winding, outdoor, ONAN, Z= 8.0%, Dyn1, OFF Circuit taps $\pm 5\%$ in steps of 2.5% (with cable box type HV and with bus-duct type LV termination)					
C.1.1	Tank Pressure Test	LOT	1.00			
C.1.2	Tank Vacuum Test	LOT	1.00			
C.1.3	Measurement of Acoustic Noise Level as per NEMA TR-1	LOT	1.00			
C.1.4	Temperature Rise Test at a tap corresponding to maximum losses	LOT	1.00			
C.1.5	Dielectric Type Test including Chopped Wave Impulse Test on all Three Phases	LOT	1.00			
C.1.6	SUB-TOTAL (SUM OF C.1.1 TO C.1.5)					
C.2	1000KVA, 11kV/433V, 3 phase, 2 winding, outdoor, ONAN, Z= 6.0%, Dyn1, OFF Circuit taps $\pm 5\%$ in steps of 2.5% (with cable box type HV and with bus-duct type LV termination)					
C.2.1	Tank Pressure Test	LOT	1.00			
C.2.2	Tank Vacuum Test	LOT	1.00			

Symet Sahar  
12/12/13

SL NO	ITEM DESCRIPTION	UOM	TOTAL QTY	UNIT TEST CHARGES (₹)	TOTAL TEST CHARGES (₹)	SERVICE TAX @ (₹)	TOTAL TEST CHARGES INCLUDING SERVICE TAX (₹)
C.2.3	Measurement of Acoustic Noise Level as per NEMA TR-1	LOT	1.00				
C.2.4	Temperature Rise Test at a tap corresponding to maximum losses	LOT	1.00				
C.2.5	Dielectric Type Test including Chopped Wave Impulse Test on all Three Phases	LOT	1.00				
C.2.6	SUB-TOTAL (SUM OF C.2.1 TO C.2.5)						
C.3	1000KVA, 11KV/433V, 3 phase, 2 winding, outdoor, ONAN, Z= 6.0%, Dyn1, OFF Circuit taps $\pm 5\%$ in steps of 2.5% (with cable box type HV and with bus-duct type LV termination) [max. losses at 50% loading-3.0KW, Max losses at 100% loading - 9.8 kw. For Green Building as per ECBC table 8.2]						
C.3.1	Tank Pressure Test	LOT	1.00				
C.3.2	Tank Vacuum Test	LOT	1.00				
C.3.3	Measurement of Acoustic Noise Level as per NEMA TR-1	LOT	1.00				
C.3.4	Temperature Rise Test at a tap corresponding to maximum losses	LOT	1.00				
C.3.5	Dielectric Type Test including Chopped Wave Impulse Test on all Three Phases	LOT	1.00				
C.3.6	SUB-TOTAL (SUM OF C.3.1 TO C.3.5)						
C.4	TOTAL (C.4= C.1.6 + C.2.6+C.3.6) (Should be same as C.0 of Annexure-I)						

Note:-

1. Type Tests as indicated shall be conducted / carried out on one Transformer of each Rating & Type.

2. The Type test Certificates to be submitted by bidder which should have been conducted on similar Transformers within last 10 years. These reports should be for the tests conducted on the equipment similar to those proposed to be supplied under this contract and test(s) should have been either conducted at an independent laboratory or should have been witnessed by a client.

Irrespective of bidder furnishing valid type test report, bidder to conduct all the type test/ special test indicated at Annexure C. These tests shall be conducted at Third party lab or in presence of client/ employer's representative and vendor to submit the reports for approval.

सुरेश कुमार शर्मा / SUMET SAHAY  
 एग्रीड एंगीनेयर्स एंड एम.के.एल. इलेक्ट्रिकल्स प्रा. लि.  
 प्लॉट नं. 25, गेजेट - 102, नोड - 301, 301  
 पॉवर सेक्टर, पोस्ट एडमिशन एंगीनेयर्स मैनेजमेंट  
 एग्रीड एंगीनेयर्स एंड एम.के.एल. इलेक्ट्रिकल्स प्रा. लि.  
 प्लॉट नं. 25, गेजेट - 102, नोड - 301, 301

12/12/12  
 सुरेश कुमार शर्मा



ANNEXURE-IV OF NIT REF NO- PE/PG/SIN/E-4268/13, DTD-12.12.2013

2 X 600 MW SINGARENI THERMAL POWER PROJECT, ADILABAD

PRICE SCHEDULE FOR AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)

**MANDATORY SPARES**

SL NO	ITEM DESCRIPTION	UOM	TOTAL QTY	UNIT EX-WORKS PRICE (DULY PACKED) (₹)	TOTAL EX-WORKS PRICE (DULY PACKED) (₹)	ED (INCLUDING CESS) @ % (₹)	CST/VAT @ % Against Form 'C' /EI/EII (₹)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (₹)	TOTAL F.O.R SITE PRICE (₹)
D.0	<b>MANDATORY SPARES FOR AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)</b>								
D.1	HV bushing with metal parts & gaskets								
D.1.1	11.0/0.433kV, 1600KVA	NOS	1.00						
D.1.2	11.0/0.433kV, 1000KVA	NOS	1.00						
D.2	LV bushing with metal parts & gaskets								
D.2.1	11.0/0.433kV, 1600KVA	NOS	1.00						
D.2.2	11.0/0.433kV, 1000KVA	NOS	1.00						
D.3	Neutral bushing with metal parts & gaskets								
D.3.1	11.0/0.433kV, 1600KVA	NOS	1.00						
D.3.2	11.0/0.433kV, 1000KVA	NOS	1.00						
D.4	WTI with contacts	NOS	1.00						
D.5	OTI with contacts	NOS	1.00						
D.6	Pressure relief device	NOS	1.00						
D.7	Magnetic oil gauge	NOS	1.00						
D.8	Buchholz relay complete	NOS	1.00						

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PRICE SCHEDULE FOR AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)

MANDATORY SPARES

SL NO	ITEM DESCRIPTION	UOM	TOTAL QTY	UNIT EX-WORKS PRICE (DULY PACKED) (₹)	TOTAL EX-WORKS PRICE (DULY PACKED) (₹)	ED (INCLUDING CESS) @ % (₹)	CST/VAT @ % Against Form 'C' /EI/EII (₹)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (₹)	TOTAL F.O.R SITE PRICE (₹)
D.9	Set of gaskets	SET	1.00						
D.10	Set of valves	SET	1.00						
D.11	Air cell for conservator (if applicable)	NQS	1.00						
D.12	SUB-TOTAL (SUM OF D.1 TO D.11) (Should be same as D.0 of Annexure-I)								

Note:-

1. Set consists of quantities required for 1 complete Transformer. Wherever 'Set' is indicated above, it means the total parts / accessories required to replace the particular item for a given equipment.

*Sumeet Sahay*  
12/12/13

SUMEET SAHAY

सुमीत सहाय (पी.जी.-1-2)/Sr. Engineer (PG-1-2)

वरिष्ठ अभियंता (पी.जी.-1-2)/श्री. इंजीनियर (PG-1-2)

भारत हेवी इलेक्ट्रिकल्स लिमिटेड/भारत हेवी इलेक्ट्रिकल्स लि.

पावर सेक्टर-परियोजना इंजीनियरिंग प्रबंधन

Power Sector-Project Engineering Management

प्लॉट नं.-25, सेक्टर-18ए, नोक्डा-201 301

Plot No. 25, Sector-18A, Noida-201 301

**ANNEXURE-V OF NIT REF NO- PE/PG/SIN/E-4268/13, DTD-12.12.2013**

**2 X 600 MW SINGARENI THERMAL POWER PROJECT, ADILABAD**

**O&M SPARES (OPTIONAL)**

SL NO	ITEM DESCRIPTION	UOM	TOTAL QTY	UNIT PRICE (₹)
	O&M Spares for 3 years operation shall be submitted by the bidder for reference only			

*Sumet Sahay*  
12/12/13

**सुमीत सहाय / SUMEET SAHAY**  
वरिष्ठ अभियन्ता (पी.जी.-I-2)/Sr. Engineer (PG-I-2)  
भारत हेवी इलेक्ट्रिकल्स लिमिटेड/Bharat Heavy Electricals Ltd.  
पावर सेक्टर-परियोजना इंजीनियरिंग प्रबंधन  
Power Sector-Project Engineering Management  
प्लॉट नं.-25, सेक्टर-16ए, नोएडा-201 301  
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