

**Project
Engineering
Management**

Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)



Ref No. : PE/PG/YE1/E-5326/2016/CORRIGENDA/01

Date: 20.08.2016

CORRIGENDA / ADDENDUM-01

SUBJECT: 1 X 370 MW KPCL YELAHANKA CCPP
TENDER ENQUIRY FOR OIL FILLED SERVICE TRANSFORMERS
OUR REF: TENDER ENQUIRY NO: PE/PG/YE1/E-5326/2016, DATED- 12.08.2016

1. Price Schedule has been revised as per enclosed sheet.

All future amendment and due date extension, if any, for this tender shall be hosted only on above website.

Thanking You,

With Regards,

For & on behalf of BHEL


Sumeet Sahay
Sr Engineer/PG-I-2

सुमीत सहाय / SUMEET SAHAY
वर्किंग अभियन्ता (पी.जी.-1-2)/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
Plot No. 25, Sector-16A. Noida-201 301

Please reply to:

Sh Sumeet Sahay, Sr. Engineer
PG-I-2

Power Project Engineering Institute Building
HRD & ESI Complex Plot No. 25, Sector -16 A,
BHEL-PEM,Noida-201301 (U.P.)
Tel No.0120-4213532, 09999498202

ANNEXURE - I TO NIT REF NO-PE/PG/YE1/E-5326/2016 DTD-12.08.2016

1 X 370 MW YELAHANKA CGPP (KPCL)



PRICE SCHEDULE FOR OIL FILLED SERVICE TRANSFORMER - PACKAGE

MAIN SUPPLY

SL NO	ITEM DESCRIPTION/SERVICE	ITEM CODE	UOM	TOTAL QTY	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST/VAT @ % Against Form 'C' /E/EII (INR)	SERVICE TAX @ (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	
A	AUXILIARY SERVICE TRANSFORMERS (OIL FILLED)											
A.1	1600kVA, 6.6kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=8.0%, 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)	302-11041-A	No.	12								
A.2	2000kVA, 6.6kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=10.0%, 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)	302-11042-A	No.	2								
A.3	EXTRA OIL (10%) IN SEALED NON RETURNABLE STANDARD DRUMS (Type & no. of Transformers, as per annexure-II)	302-11045-A	LOT	1								
A.4	TYPE TEST (Details as per Annexure-III)	302-11051-A	LOT	1								
A.5	SUB-TOTAL PRICE (A.1 to A.4)											

July 2016

ANNEXURE - I TO NIT REF NO-PE/PG/VE1/E-5326/2016 DTD-12.08.2016

1 X 370 MW YELAHANKA CAPP (KPCL)

PRICE SCHEDULE FOR OIL FILLED SERVICE TRANSFORMER - PACKAGE

MAIN SUPPLY

SL NO	ITEM DESCRIPTION/SERVICE	ITEM CODE	UOM	TOTAL QTY	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST/VAT @ % Against Form 'C' /E/IEII (INR)	SERVICE TAX @ (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)
B	OIL FILLED SERVICE TRANSFORMER - MANDATORY SPARES (Details as per Annexure-1B)	302-11000-B	LOF	1							
C	TOTAL LUMPSUM PRICE (A.5 + B)										

Note:-

1.Bidder to note that total price indicated above at C.O 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.

2.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.

3.BIDDER SHALL SUPPLY 10% EXTRA OIL AS PER THE QUOTED PRICE. QUANTITY OF EXTRA OIL SHALL BE SUBJECT TO APPROVAL DURING DETAIL ENGINEERING.

4.**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.).

5.IN CASE TYPE TESTS ARE MAINTAINED BY THE BIDDERS.

6.CHARGES FOR ALL TYPE TESTS EXCEPT SHORT CIRCUIT TEST SHALL BE CONSIDERED FOR PRICE COMPARISONS PURPOSE.

7.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.

8. 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.

9. For any clarification please refer Technical Specification No- PE-TS-409-302- E001

10.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).

(Signature)
20/16

सुमीत सहाय / SUMEET SAHAY
वरिष्ठ अभियंता (पी.सी.-1/2)/Sr. Engineer (P.C-1-2)
भारत हेवी इलेक्ट्रिकल्स लिमिटेड / Bharat Heavy Electricals Ltd.
पावर सेक्टर-परियोजना प्रबंधन विभाग
Power Sector-Project Engineering Management
प्लॉट नं.-25, सेक्टर-16A, नारदा-201 301
Plot No. 25, Sector-16A, Nardra-201 301

ANNEXURE - IB TO NIT REF NO-PE/PGYE1/E-5326/2016 DTD-12.08.2016



1 X 370 MW YELAHANKA CAPP (KPCL)

AUXILIARY SERVICE TRANSFORMERS (OIL FILLED) - MANDATORY SPARES

MANDATORY SPARES

SL NO	ITEM DESCRIPTION/SERVICE	ITEM CODE	UOM	TOTAL QTY	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST/VAT @ % Against Form 'C' /E/II (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)
B.1	1600kVA, 6.6kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=8.0%, 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)									
B.1.1	Complete set of Gaskets		Set	1						
B.1.2	HV Bushing		No.	1						
B.1.3	LV Bushing		No.	1						
B.1.4	LV neutral Bushing		No.	1						
B.1.5	Dial Type Thermometer		No.	1						
B.1.6	Oil Level Gauge		No.	1						
B.1.7	Complete winding Temperature indicating equipment		Set	1						
B.1.8	Explosion vent Diaphragm		No.	1						
B.1.9	Silica Gel Breather		No.	1						
B.1.10	Valves of each type		Set	1						
B.1.11	Buchholz Relay		No.	1						
B.1.12	CT of each type		No.	1						
B.1.13	SUB-TOTAL(B.1.1 to B.1.12)									
B.2	2000kVA, 6.6kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=10.0%, 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)									
B.2.1	Complete set of Gaskets		Set	1						
B.2.2	HV Bushing		No.	1						
B.2.3	LV Bushing		No.	1						

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ANNEXURE - IB TO NIT REF NO-PE/PG/YE1/E-5326/2016 DTD-12.08.2016

1 X 370 MW YELAHANKA CAPP (KPCL)



AUXILIARY SERVICE TRANSFORMERS (OIL FILLED) - MANDATORY SPARES

MANDATORY SPARES

SL NO	ITEM DESCRIPTION/SERVICE	ITEM CODE	UOM	TOTAL QTY	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST/VAT @ % Against Form 'C' /E/II (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)
B.2.4	LV neutral Bushing		No.	1						
B.2.5	Dial Type Thermometer		No.	1						
B.2.6	Oil Level Gauge		No.	1						
B.2.7	Complete winding Temperature indicating equipment		Set	1						
B.2.8	Explosion vent Diaphragm		No.	1						
B.2.9	Silica Gel Breather		No.	1						
B.2.10	Valves of each type		Set	1						
B.2.11	Buchholz Relay		No.	1						
B.2.12	CT of each type		No.	1						
B.2.13	SUB-TOTAL (B.2.1 to B.2.12)									
B.3	TOTAL LUMP SUM PRICE (B.1.13 + B.2.13)									

Note:-

1. Prices quoted at sl.no. B.3 above should be same as quoted at sl.no. B of Annexure - I.

Handwritten signature and date: 20/10/16

सुमीत सहाय / SUMEET SAHAY
 बरिष्ठ अभियन्ता (पी.जी.-1-2) / Sr. Engineer (PG-1-2)
 भारत भारी इलेक्ट्रिकल्स लिमिटेड / Bharat Heavy Electricals Ltd.
 पावर सेक्टर-परियोजना इंजीनियरिंग प्रबंधन
 Power Sector-Project Engineering Management
 प्लॉट नं.-25, सेक्टर-16ए, नॉएडा-201 301
 Plot No. 25, Sector - 16A, Noida - 201 301

ANNEXURE - II TO NIT REF NO-PE/PGYE1/E-5326/2016 DTD-12.08.2016



1 X 370 MW YELAHANKA CCPP (KPCL)

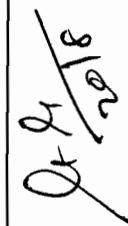
AUXILIARY SERVICE TRANSFORMERS (OIL FILLED) - EXTRA OIL (10%)

EXTRA OIL (10%)

SL NO	ITEM DESCRIPTION/SERVICE	ITEM CODE	UOM	TOTAL QTY	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST/VAT @ % Against Form 'C' /E/EII (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)
A.3	EXTRA OIL (10%) IN SEALED NON RETURNABLE STANDARD DRUMS (Type & no. of Transformers, as below)									
A.3.1	1600kVA, 6.6kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=8.0%, 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.	12						
A.3.2	2000kVA, 6.6kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=10.0%, 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.	2						
A.4	TOTAL LUMP SUM PRICE									

Note:-

1. Prices quoted at sl.no. A.4 above should be same as quoted at sl.no. A.3 of Annexure - I.


 24/10/18

सुमीत सहय / SUMEET SAHAY
 सचिव अभियंता (पी.जी.-2)/Sr. Engineer (PG-I-2)
 भारत हेवी इलेक्ट्रिकल्स लिमिटेड / Bharat Heavy Electricals Ltd.
 पावर सेक्टर-परियोजना प्रजनिधि/Power Sector-Project Engineering Management
 प्लॉट नं.-25, सेक्टर-16ए, नोएडा-201 301
 Plot No., 25, Sector-16A, Noida-201 301



ANNEXURE - III TO NIT REF NO-PE/PG/VE/1/E-5326/2016 DTD-12.08.2016

1 X 370 MW YELAHANKA CCPP (KPCL)

AUXILIARY SERVICE TRANSFORMERS (OIL FILLED) - TYPE TEST

TYPE TEST

SL NO	ITEM DESCRIPTION/SERVICE	ITEM CODE	UOM	TOTAL QTY	UNIT TEST CHARGES (INR)	TOTAL TEST CHARGES (INR)	SERVICE TAX @ (INR)	TOTAL TEST CHARGES INCLUDING SERVICE TAX (INR)
A.4	1600kVA, 6.6kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=8.0%, 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)							
A.4.1	TANK PRESSURE TEST		NO.	1				
A.4.2	TANK VACUUM TEST		NO.	1				
A.4.3	MEASUREMENT OF ACOUSTIC NOISE LEVEL AS PER NEMA TR-1		NO.	1				
A.4.4	TEMPERATURE RISE TEST		NO.	1				
A.4.5	DIELECTRIC TYPE TEST (INCLUDING CHOPPED WAVE IMPULSE TEST)		NO.	1				
A.4.6	SHORT CIRCUIT TEST **		NO.	1				
A.4.7	SUB-TOTAL(A.4.1 to A.4.6)							
A.4.8	2000kVA, 6.6kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=10.0%, 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)							
A.4.9	TANK PRESSURE TEST		NO.	1				
A.4.10	TANK VACUUM TEST		NO.	1				

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ANNEXURE - III TO NIT REF NO-PE/PG/YE1/E-5326/2016 DTD-12.08.2016

1 X 370 MW YELAHANKA CAPP (KPCL)

AUXILIARY SERVICE TRANSFORMERS (OIL FILLED) - TYPE TEST

TYPE TEST

SL NO	ITEM DESCRIPTION/SERVICE	ITEM CODE	UOM	TOTAL QTY	UNIT TEST CHARGES (INR)	TOTAL TEST CHARGES (INR)	SERVICE TAX @ (INR)	TOTAL TEST CHARGES INCLUDING SERVICE TAX (INR)
A.4.11	MEASUREMENT OF ACOUSTIC NOISE LEVEL AS PER NEMA TR-1		NO.	1				
A.4.12	TEMPERATURE RISE TEST		NO.	1				
A.4.13	DIELECTRIC TYPE TEST (INCLUDING CHOPPED WAVE IMPULSE TEST)		NO.	1				
A.4.14	SHORT CIRCUIT TEST **		NO.	1				
A.4.15	SUB-TOTAL (A.4.9 to A.4.14)							
A.4.16	TOTAL LUMP SUM PRICE (A.4.7 + A.4.15)							

Note:-

1. Prices quoted at sl.no. A.4.16 above should be same as quoted at sl.no. A.4 of Annexure - I.

2. **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.CHARGES FOR ALL TYPE TESTS EXCEPT SHORT CIRCUIT TEST SHALL BE CONSIDERED FOR PRICE COMPARISONS PURPOSE.

5.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 COST TO THE BUYER.

भारत हेवी इलेक्ट्रिकल्स लिमिटेड / भारत भारती इलेक्ट्रिकल्स लि.

पावर सेक्टर-परियोजना इंजीनियरिंग प्रबंधन
Power Sector-Project Engineering Management
प्लॉट नं.-25, सेक्टर-16A, नॉयडा-201 301
Plot No. 25, Sector -16A, Noida-201 301

(Signature)

