**ORDER NO:134,DT05.12.2013**

**TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED**

 O/o SUPERINTENDING ENGINEER,

 TL&SS CIRCLE :: KADAPA.

**Memo.No.SE/TL & SS/Kdp/ADE-T/AE-T /F.40 ./D.No. 2389 /13, Dt. 11 -11-13.**

 **Sub: APTRANSCO - TL&SS Circle /Kadapa** – Dragging of the failed R-Phase limb 1 X

 33.33 MVA (100MVA 220/132KV “ANSALDO” make PTR-I R-Phase and keeping in

 safer place and dragging, erection and filteration of spare 33.33 MVA PTR limb for

 commissioning in place of failed limb at 220 KV SS, Kadapa - Estimate –

 Sanctioned – Reg.

  **Ref**: Lr.No.DE/TLC/ TRE/KDP/ F.No.23b / D.No.422/13, Dt.30-10-13.

**@@@@**

Under the powers delegated vide T.O.O.No.CE (Transmission)Ms.No.

229, Dt.18-9-10 item No. 4(b) enhancement of delegation of powers, the undersigned is pleased to accord sanction to the estimate “Dragging of the failed R-Phase limb 1 X 33.33 MVA (100mva 220/132KV “ANSALDO” make PTR-I R-Phase and keeping in safer place and dragging, erection and filteration of spare 33.33 MVA PTR limb for commissioning in place of failed limb at 220 KV SS, Kadapa”.

 The cost of the estimate works out to **Rs. 2,94,778-00** (Rupees Two Lakhs ninety four thousand seven hundred and seventy eight only)

 The estimate is technically sanctioned and registered as O&M No.

 53 /13-14 and the work should be taken up subject availability budget provision.

 The expenditure is chargeable to A/C.No. 74.101 of 220 KV SS Kadapa under TL & SS Division, Kadapa under repairs and maintenance to Power Transformers.

 **SUPERINTENDING ENGINEER, TL & SS CIRCLE :: KADAPA.**

**To**

The Divisional Engineer/TL & SS/ Kadapa.

The Divisional Engineer/TLC TRE/Kadapa.

The Asst. Divisional Engineer/M/220 KV SS/Kadapa.

The Asst. Divisional Engineer /TLC TRE/Kadapa

# Along with estimate Encl: One estimate.

Copy submitted to the Chief Engineer/Kadapa Zone/Kadapa.

Copy to the Accounts Officer/TL & SS Circle/Kadapa.

**REPORT TO ACCOMPANY THE ESTIMATE**

**Name of the work** : The estimate provided **Rs. 2,94,778-00** (Rupees Two Lakhs ninety four thousand seven hundred and seventy eight only) covers the following items.

1. Dragging of the failed R-phase limb (33.33 MVA) Sl.No. 14492 and keeping at a safer place as directed by higher authorities.
2. Dragging, erection, filteration, complete wiring, spary painting and commissioning of the spare R-phase 33.33 MVA limb Sl.No. 14489 in plae of failed limb.
3. 1 No. HV bushing of B phase limb and LV bushing of Y phase limb are leaking and the same are to be replaced with bushings removed from failed limb.

 The estimate to this effect is prepared as per rate contract of Rates approved by Chief Engineer/ Transmission/ Vidyut Soudha/ Hyderabad as per Lr. No. CTO-121/F.PTR’s erect. work/ D.No. 104/08, Dt. 05-07-2008.

 The expenditure is chargeable to A/c No. 74.101 of erection of 1 No. 33.33 MVA Power Transformer limb at 220 KV SS, Kadapa.

**Conclusion:** The estimate is now sanctioned.

 SUPERINTENDING ENGINEER,

 TL & SS CIRCLE :: KADAPA.

WORKING ESTIMATE TOWARDS DISMANTLING, DRAGGING OF FAILED 100 MVA (1X33.33 MVA R-Phase Limb) ANSALDO MAKE PTR-I AND DRAGGING, ERECTION AND FILTERATION OF SPARE 33.33 MVA PTR LIMB FOR COMMISSIONING IN PLACE OF FAILED PH-PHASE LIMB AT 220 KVSS, KADAPA BY PRIVATE AGENCY.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Rate contract No. | Description of Work | Qty | Rate | Amount |
| 1 | 1 | Mobilization of men, loading, unloading, transportation of men, T&P such as wooden sleepers, winch jacks, packing pieces etc., anywhere in A.P required for handling the power transformer. | 1 | LS | 13500.00 | 13500.00 |
| 2 | 32 | Dragging the 100 MVA (1x33.33 MVA) ANSALDO Make Power Transformer **failed** R-phase limb where ever necessary including making all arrangements for dragging the transformer complete at 220 KVSS Kadapa.  |  |  |  |  |
|  | (a) | Up to 15 mts. | 1 | LS | 9954.00 | 9954.00 |
|  | (b) | Over and above 15 mts. | 118 | Mts | 498.00 | 58764.00 |
| 2 | 3 | Turning the 33.33 MVA spare transformer limb available at repair bay through 180 degrees including all arrangements. | 1 | No.33.33 MVA PTR | 5720.00 | 5720.00 |
| 3 | 32 | Dragging the 100 MVA (1x33.33 MVA) ANSALDO Make Power Transformer spare limb where ever necessary including making all arrangements for dragging the transformer to replace the failed R-phase limb at 220 KVSS, Kadapa. |  |  |  |  |
|  | a) | Up to 15 mts. | 1 | LS | 9954.00 | 9954.00 |
|  | b) | Over and above 15 mts. | 112 | Mts. | 498.00 | 55776.00 |
| 4 | 34 | Dismantling of defective bushings and erection the bushings which were dismantled from failed R-phase limb in place defective bushings including all connected works oil draining and refilling but excluding oil filteration work. |  |  |  |  |
|  | a) | 220 KV Bushing. | 1  | No. | 11880.00 | 11880.00 |
|  | b) | 132 KV Bushing | 1  | No. | 7920.00 | 7920.00 |
| 5 | 31 | Transport of 4 KL or 6 KL oil filter (including return trip charges) |  |  |  |  |
|  | b) | More than 50 KM | 396 | KM | 25.00 | 9900.00 |
| 6 | 37 (b) | Filteration of old oil. | 14.26 | KL | 4000.00 | 57040.00 |
| 7 | 58 | Complete wiring up of the 33.33 MVA PTR including system cooler control fans and motor driving mechanism of OLTC panel providing suitable ferrules & lugs. | 1 | Job | 10303.00 | 10303.00 |
| 8 |  | Rewinding of cooling fans of 10/16 MVA Power Transformer (As per Data-I) | 4 | Nos. | 2910.00 | 11640.00 |
|  |  | Total |  |  |  | 26235.00 |
|  |  | Service tax @ 12.36% on total |  |  |  | 32426.58 |
|  |  | Grand Total |  |  |  | 294777.58 |
|  |  | Or say |  |  |  | 294778.00 |

 (Rupees Two Lakhs ninety four thousand seven hundred and seventy eight only)

SUPERINTENDING ENGINEER,

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**DATA-I**

**ITEM NO: 17 CHARGES FOR REWINDING OF COOLING FANS**

Rewinding of 1 No. cooling fan by replacing the defective bearings.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.No | LABOUR REQUIRED | QTY | RATE | AMOUNT in Rs. |
| 1 | 26 SWG Enamel Copper wire | 2.000 | Kg | 750.00 | 1500.00 |
| 2 | Leathoroid paper | 0.5 | Mt. | 450.00 | 225.00 |
| 3 | Varnish | 0.5 | Lts | 180.00 | 90.00 |
| 4 | Flexible wire for end connections | 2 | Mts. | 22.50 | 45.00 |
| 5 | Cotton tape role | 1 | Job | 35.00 | 35.00 |
| 6 | Bearings | 2 | Nos. | 375.00 | 750.00 |
| 7 | Labour charges for dismantling of fan | 1 | LS | 100.00 | 100.00 |
| 8 | Labour charges for removal of jammed bearings | 1 | LS | 125.00 | 125.00 |
| 9 | Labour charges for rewinding | 1 | LS | 550.00 | 550.00 |
| 10 | Sundries like bolts & nuts & grease | 1 | LS | 50.00 | 50.00 |
|  | **Total** | **3470.00** |
|  | Less cost of removed Copper | 1.600 | Kgs. | 350.00 | 560.00 |
|  | **NET TOTAL** | **2910.00** |

(Rupees Two thousands nine hundred and ten only)

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