

Departmental Estimate for repairing work towards (a) maintenance and reconditioning of Field Switch 3.3 kV VCB 630 Amp. Make Transgietz Enterprises and (b) repair of LVCR assembly and (c) welding transformer of EKGShovel Sl. No. 592 of Jharkhand OCP.

Sl. No.	Description	Qty.	Rate (Rs.)	Amount (Rs.)
A.	Maintenance and reconditioning of Field Switch 3.3 kV VCB 630 Amp. :			
1.	Supply and fixing of Trip Coil, Electrolytic copper, wound voltage grand 110V DC	01 no.		
2.	Supply and fixing of rectifier unit, 110V DC	01 no.		
3.	Supply and fixing of push button	02 no.		
4.	Supply and fixing of support insulator	02 no.		
5.	Supply and fixing of Indicating lamp	03 no.		
6.	Supply and fixing of Earth leakage relay, with CBCT, AC/DC Voltage grade 110V, current capacity 5 Amp.	01 no.		
7.	Supply and fixing of Auxiliary contact, 4 Pole, 4 NO+4NC	01no.		
8.	Wiring with ferrules and lugs	01 set		
9.	Supply and fixing of bushing for HT 3.3kV breaker	01 no.		
10.	Supply and fixing of HT /P.T. fuse, 11kV grade	03 no.		
11.	Supply and fixing of potential transformer, voltage grade 3.3kV 110V AC 3 Phase, Epoxy resin cast, dry type, 3.3kV, 110V, c11.0, 200VA	01 no.		
12.	Supply and fixing of Pomel of Plug and Socket 3.3kV	01 no.		
13.	Supply and fixing of IDMT relay , 2 O/C and 1 E/F, IDMT, triple pole, high Set inverse software based, programmable, non directional, high set Element type instantaneous relay, current setting range for idmt element 50% to 80% adjustable in step of 50% earth fault Aux. supply voltage 110V DC and 5A current rating	01 no.		
Sub Total A				
B.	Repair of LVCR assembly:			
1.	Replacement of Rings	10 no.		
2.	Replacement of studs	08 no.		
3.	Cost of top insulator of studs	08 no.		
4.	Replacement of carbon brush holders with carbon brushes	08 no.		
5.	Supervisor: 01 person X 02 day	02 attend		
6.	HT Electrician: 01 person X 02 day	02 attend		
7.	Helper: 02 person X 02 day	04 attend		
Sub Total B				
C.	Repair of Welding transformer:			
1.	Cost of Cu wire for repair of primary and secondary coil @Rs. 850 per kg and Less 60% scrap value. Net rate @Rs. 340 per kg	30 kg		
2.	Insulation Cost @15% of Cu cost i.e. (15% of 30kg x 850)	01 No.		
3.	Repairing of current adjuster	01 No.		
4.	Supervisor: 01 person X 02 day	02 attend		
5.	HT Electrician: 01 person X 02 day	02 attend		

6.	Helper: 02 person X 02 day	04 attend		
Sub Total C				
Total Cost (Sub Total A + Sub Total B + Sub Total C)				
Contractor's Profit @ 10%				
Total estimated cost				
GST. @18%				
GRAND TOTAL				
Round Off				