

Annexure 1**Quotation format PART – A****(Technical Bid)**

Sl. No.	Particulars	Firm's Response
1	Technical parameters to be maintained as per the NIT	
2	Availability of requisite equipment and infrastructure to carry out the Repairs.	
3	Technical competence of the Manufacturers	
4	Order copies for works of similar nature executed to SCCL, CIL subsidiaries, Reputed concerns or Govt. under takings.	
5	Performance reports, if any. obtained from the respective organisations	
6	NSIC or SSI, ISO certificates for the enquired works. Documentary proof to be furnished.	
7	Guarantee / Warranty to be furnished as per the NIT	
8	Details of availability of Service support	
9	Delivery period and lead time required.	
10	Whether manufacturer/authorized Dealer / agent. (enclose documentary Proof) Public company / limited / private / partnership firm	
11	Whether the quotation is submitted by the Principal or not. In case the quotation is submitted by other than the Principal, authorization to be submitted.	
12	Any other Information	

Signature of the bidder
With seal. .

**Quotation format
PART- B
(Commercial Bid)**

Sl. No.	Particulars	Firm's Response
1	Details of Earnest Money Deposit submitted	
2	Validity of offer (Six months from the date opening of Tender)	
3	Applicability of taxes and duties along with IT PAN No., ST & E.D. Registration No. etc.	
4	PAN No (Copy to be enclosed)	
5	VAT Regn No. (Copy to be enclosed)	
6	ED Regn No. (Copy to be enclosed)	
7	Service Tax Regn No. (Copy to be enclosed)	
8	Performance guarantee (agreed to submit as per NIT or not)	
9	Confirm acceptance of Late delivery penalty clause as per NIT	
10	Confirm acceptance of Risk Purchase clause as per NIT	
11	Confirm acceptance of Fall clause as per NIT	
12	Specimen copy of Part-C without prices (un-priced copy)	
13	Any other information	

Signature of the bidder
With seal.

**Quotation format
Part 'C' - (Price bid)**

Tenderers are requested to quote the rates for the following items

Sl. No.	Description	Units	Distribution transformers		Power transformers	
			Up to 200 KVA	Above 200 KVA & up to 500 KVA	Up to 1600 KVA	Above 1600 KVA & up to 5000 KVA
A.	MATERIAL COST	Tentative Qty.				
1	EC Grade paper Covered copper Conductor Round IS 12444 and 7404 Part I Wire for primary windings of Power Transformers .Old copper can be retained by firm. Cost of old copper to be taken into account while quoting	Kg.			375	375
2	EC Grade paper Covered copper Conductor Rectangular IS 12444 and 7404 Part 2 Strip for secondary windings of Power Transformers .Old copper can be retained. Cost of old copper to be taken into account while quoting	Kg.			280	280
3	EC Grade paper Covered copper Conductor Rectangular IS 12444 and 7404 Part 2 Strip for primary and secondary windings of Distribution Transformers .Old copper can be retained . Cost of old copper to be taken into account while quoting	Kg	137 Primary 92 Secondary	137 Primary 92 Secondary		
4	Pre-compressed insulation board of various thicknesses of Raman Board make S.C.3.1 Grade Conforming to IEC 60641 B 3.1 for HT & LT windings insulation	Kg.	35	35	90	90
5	Tap switch(11KV-5position/33KV-6 position)	1 No.				
6	New contact set (complete) for tap switch.	1 set.				
7	CRGO Cold Rolled Grain Oriented M4 or M3 (0.23 thick) for lamination core	Kg.	400	400	1400	1400
8	Buchholz relay	(i) GOR-I 1 No. (ii) GOR-II 1 No.				
9	Breather Type: clear view	(i) 250gm 1 No (ii) 500gm 1 No (iii) 1000gm 1 No (iv) 1500gm 1 No (v) 2000gm 1 No.				
10	Breather Type: Metal body	(i) 250gm 1 No (ii) 500gm 1 No (iii) 1000gm 1 No (iv) 1500gm 1 No (v) 2000gm 1 No.				
11	Complete set of Gasket	1 set.				
12	New Transformer oil	Ltr.	440	440	1410	1410

Sl. No.	Description	Units	Distribution transformers		Power transformers	
			Up to 200 KVA	Above 200 KVA & up to 500 KVA	Up to 1600 KVA	Above 1600 KVA & up to 5000 KVA
13	BUSHINGS a) 440 V b) 3.3 KV c) 6.6 KV d) 11 KV e) 33 KV (i) 250A (ii) 630A	1 No 1 No 1 No 1 No 1 No. 1No.				
14.	COPPER STUDS a) 440 V b) 3.3KV. c) 6.6KV d) 11KV e) 33 K V (i) 250A (ii) 630A	1 No 1 No 1 No 1 No 1 No. 1No.				
15	GM Wheel valve SE a. 3/4' size. b. 1" size. c. 1 1/2 "size. d. 2" size. e. 2 1/2 "size. f. 3 "size.	1 No. 1 No. 1 No 1 No. 1 No. 1 No.				
16.	CI flanged valve F/E a. 3/4' size. b. 1" size. c. 1 1/2 "size. d. 2" size. e. 2 1/2 "size. f. 3 "size.	1 No. 1 No. 1 No 1 No. 1 No. 1 No.				
17.	GM fanged valve F/E a. 3/4' size. b. 1" size. c. 1 1/2 "size. d. 2" size. e. 2 1/2 "size. f. 3 "size.	1 No. 1 No. 1 No 1 No. 1 No. 1 No.				
18.	WTI & OTI 10cm 15cm	1 set. 1 set.				
19.	Radiator fins	1No.				
20.	Explosion vent pipe	1No.				
21.	Explosion vent diaphragm	1No.				
	SUB-TOTAL (A)					

Sl. No.	Description	Units	Distribution transformers		Power transformers	
			Up to 200 KVA	Above 200 KVA & up to 500 KVA	Up to 1600 KVA	Above 1600 KVA & up to 5000 KVA
B.	SERVICING CHARGES					
1	Cleaning and Painting of transformer (Complete) both inside & out side	Sq feet.				
2	Servicing of tap switch.	1 No.				
3	Replacement of tap switch.	1 No.				
4	Replacement of new contact set for tap switch	1 No.				
5	Assembly of HT winding with proper insulation.	1 set.				
6	Assembly of LT winding with proper insulation.	1 set.				
7	Drying the complete assembled core and windings in the warming chamber till rated I.R values are obtained.					
8	Filtration of oil.	Ltr.				
9	Filling the tank with new transformer oil.	Ltr.				
10	Changing of GM Wheel valve SE a. 3/4' size b. 1" size. c. 1 1/2 "size. d. 2" size. e. 2 1/2 "size. f. 3 "size.	1 No 1 No 1 No 1 No 1 No 1 No				
2	Changing of CI flanged valve F/E a. 3/4' size. b. 1" size. c. 1 1/2 "size. d. 2" size. e. 2 1/2 "size. f. 3 "size.	1 No 1 No 1 No 1 No 1 No 1 No				
3	Changing of GM fanged valve F/E a. 3/4' b. 1" size. c. 1 1/2 "size. d. 2" size. e. 2 1/2 "size. f. 3 "size.	1 No 1 No 1 No 1 No 1 No 1 No				
4	Replacing of lamination core	Kg.				
5	Replacement of Bucholtz relay. (i) GOR-I (ii) GOR-II	1 No. 1 No.				
6	Replacement of OTI & WTI. (i) 10cm (ii) 15cm	Set. Set.				
7	Replacement of breather. Type: clear view (i) 250gm (ii) 500gm (iii) 1000gm (iv) 1500gm (v) 2000gm	1 No 1 No. 1 No. 1 No 1 No.				

Sl. No.	Description	Units	Distribution transformers		Power transformers	
			Up to 200 KVA	Above 200 KVA & up to 500 KVA	Up to 1600 KVA	Above 1600 KVA & up to 5000 KVA
8	Replacement of breather. Type: Metal body (i) 250gm (ii) 500gm (iii) 1000gm (iv) 1500gm (v) 2000gm	1 No 1 No. 1 No. 1 No 1 No				
9	Replacement of bushing a) 440V bushing b) 3.3 KV bushing c) 6.6 KV bushing d) 11KV bushing e) 33 KV bushing (i) 250A (ii) 630A	1 No 1 No. 1 No. 1 No 1 No. 1 No. 1 No.				
10	Replacement of copper stud suitable to a) 440 V b) 3.3 KV c) 6.6 KV d) 11KV e) 33 KV (i) 250A (ii) 630A	1 No 1 No. 1 No. 1 No 1 No 1 No				
11	Replacement of Radiator fins	1No.				
12	Replacement of explosion vent pipe	1 No.				
13	Replacement of explosion vent diaphragm	1No.				
	SUB-TOTAL (B)					
	Total price for evaluation purpose (A+B)					

NOTE:

L-1 status evaluation:

The landed cost of each corresponding item will be multiplied by tentative quantity as mentioned above and totals of all items will be added together for arriving L1 status.

I. Scope of Work

1. Joint inspection shall be carried out by the representatives of both SCCL(one Engineer +one finance officer)and the Contractor at the Contractor's workshop to assess the item-wise details of repairs required for each of the transformers.
2. Weight of the primary and secondary coils should be taken and recorded in the Joint Inspection Report. The necessity for part or full rewinding of primary and secondary coils shall also be recorded in the Joint Inspection Report. However, part winding is not advisable and as such should not be recommended to the extent possible.
3. The weight of new copper to be used for rewinding should not be less than weight of old copper in any case.
4. Basing on such Joint inspection reports, work order will be released by the General Manager of the Concerned Area. In case of the transformers lying at Main Stores / Central Workshop, Kothagudem, the work orders shall be released by the General Manager (E&M) CWS.
5. Collection of the failed transformers from various areas of SCCL and delivery of the repaired transformers to the respective areas of SCCL shall be carried out by the Contractor at their cost.
6. The failed transformers shall be handed over to the contractor after removing the transformer oil.
7. The transformer oil required to be filled in the transformers after repairs, would be supplied by SCCL in separate oil barrels.
8. After filtering the transformer oil with not less than 50 KV/ minute dielectric strength as per IS 335 – 1972 (Revised), the contractor has to fill the transformer oil in the presence of representative of SCCL.
9. The contractor shall supply and fill the transformer with new transformer oil after filtration, in case SCCL does not supply the transformer oil. This should be clearly mentioned in the joint inspection report.
10. The rewinding of primary and secondary windings shall be carried out with new coils and the old coils should not be used under circumstance.
11. Original gauge of primary and secondary coils shall be maintained.
12. Original class of insulation shall be used for rewinding and any deviations shall be recorded in the Joint Inspection Report.
13. Core lamination shall be dismantled, cleaned and tested before re-assembly
14. After the repairs are completed, another Joint Inspection shall be carried out to confirm that repair work is carried out as per the Contract.

15. The following routine tests are to be carried out on the repaired transformers during the Joint Inspection and the test certificates shall be submitted in triplicate by the Contractor while delivering the repaired transformers.

- i) Measurement of winding resistance.
- ii) Measurement of voltage ratio & check of voltage vector relationship
- iii) Measurement of impedance voltage/short circuit impedance and load loss.
- iv) Measurement of no-load loss and current.
- v) Measurement of insulation resistance.
- vi) Dielectric tests.
- vii) Dielectric strength of transformer oil.

NOTE: IR values of repaired transformer should not be less than 5000 M.Ohms for 33 KV class and 1000 M.Ohms for 3.3 KV class.

16. All the removed / replaced parts, except the Copper & insulating material shall be returned to SCCL along with the repaired transformer. Old copper, salvaged from the transformer, shall be retained by the Contractor.

17. Firms have to quote for all material and servicing jobs in the NIT failing which offer can not be considered.

18. Transformer shall be painted (single coat) before dispatch .

19. Insulation levels should be maintained as per IS : 2026

20. The repaired transformers shall carry a guarantee for proper workmanship and performance for a period of 12 months from the date of commissioning, 18 months from the date of delivery of the repaired transformers at SCCL Stores which ever is earlier

21. In case of any failure of the repaired transformers during guarantee period, the same has to be repaired at the firm's cost including the transportation for taking the transformer to their factory and back to SCCL stores after carrying out proper rectification works within one month from the date of failure

22. The firm shall depute their representative to SCCL site for commissioning the transformer

23. After receipt of transformers and immediately after joint inspection the estimation of repairs shall be intimated to SCCL within two weeks for approval and releasing orders.

24. The repaired Transformer shall be delivered at SCCL site after repairs within 45 days of issue of order.