

**NORTH EASTERN ELECTRICITY SUPPLY COMPANY OF ORISSA LIMITED
OFFICE OF THE CHIEF EXECUTIVE OFFICER**

Corporate Office: Januganj, Balasore 756019, Orissa, Fax No.-06782-263259

Regd. Office: Plot No. N-1/22 , Nayapalli , Bhubaneswar-751012, Orissa, Fax-0674-2558343

TENDER DOCUMENT
FOR

**REPAIR OF DISTRIBUTION / POWER TRANSFORMER &
MAINTENANCE OF POWER TRANSFORMER**

TENDER NOTICE NO. 4908 , dtd.24.3.09

- * The last date of and time of receipt of tenders : 21.4.09 up to 1.0PM
- * Date and time of opening of Technical Bids: 21.4.09 by 3.0 PM
- * Date and time of opening of Price Bids : 22.4.09 by 11 AM

**General Manager (Works)
NESCO, Balasore.**

NORTH EASTERN ELECTRICITY SUPPLY COMPANY OF ORISSA LIMITED
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TENDER NOTICE NO. 4908 , dtd. 24.3.09

Sealed tenders are invited from reputed manufacturers / repairing units / HT contractors for repairing & maintenance of transformers, details spread over following groups ,such as **Gr.-A** : repairing of 11/0.4 KV, 11/0.25 KV & 33/0.4 KV distribution transformers; **Gr.-B** : repairing of 33/11 KV power transformers; **Gr.-C** : maintenance of 33/11 KV power transformers ranging from 1 MVA to 8 MVA.

The manufacturers / repairing units should have annual turn over of at least Rs.50.00 lakhs for last three financial years ending on 07-08 and adequate experience & infrastructure in similar field for Gr. A & Gr. B . The HT Contractors should have valid HT license & adequate experience for Gr. C.

The tender document will be available from this office during office hours on working days or from the website of NESCO i.e www.nescoorissa.com on payment of Rs.1000/- (One Thousand only) + VAT 4% (non-refundable) for each group in shape of cash/ Bank Draft in favour of NESCO Ltd. ,Balasore , from 30.3.09 to 20.4.09. An amount of Rs.50/- only will be charged extra in case the tender documents is opted through post.

The tenders should be accompanied with the EMD Rs.1.0 Lakh for Gr. A&B and Rs.50,000/- for Gr.C in shape of Demand Draft/ Bank Guarantee (from any nationalized/ scheduled bank)in favour of NESCO Ltd., Balasore. Tenders without the Earnest Money & receipt of tender paper cost will be considered as invalid. This office shall not be held responsible for any postal / courier delay to obtain or in Submission of the tender document. Fax / website tender shall not be entertained.

N.B : * Sale of tender document (during office hrs. working days): **30.3.09 to 20.4 . 09**
* The last date and time of receipt of tenders : **21.4. 09 up to 1.0 PM**
* Date and time of opening of Technical Bids: **21. 4. 09 3.0PM**
* Date and time of opening of Price Bids : **22. 4 . 09 11 AM**
(in presence of bidders or their authorized representative)

The undersigned reserves the right to reject any or all tenders & distribute the works among the valid tenderers without assigning any reasons thereof.

Chief Executive Officer

NORTH EASTERN ELECTRICITY SUPPLY COMPANY OF ORISSA LIMITED
OFFICE OF THE CHIEF EXECUTIVE OFFICER
CORPORATE OFFICE: JANUGANJ, BALASORE-756019
S E C T I O N - I

INSTRUCTION TO BIDDERS

1. Tender papers of only those cases, which have purchased the tender paper from this office, will be considered. Original money receipts should be enclosed with the tender in the absence of which the offers will be rejected.
2. The NESCO may split up the work amongst more than one Tenderer for any particular work. The lowest bid may not guarantee to be offered the whole contract.
3. Sealed Tenders complete with all details i.e technical specification, EMD, statutory clearance & price bid on enclose format is to be submitted to this office on or before ***Dt. 21.4.09 up to 1.0 PM*** in double sealed cover super-scribed on each of the cover as ***“Tender Specification against Tender Notice No 4908 Dtd.24.3.09. due to be opened on Dt.21.4.09 at 3.00 PM & 22.4.09 at 11 AM for technical bid & price bid respectively”***.

Tender shall be submitted in person only. Any other means of delivery shall not be accepted. Tender will be opened in the office of the undersigned on above date & time. Tenders received after due time and date shall not be considered. The price bid of only those tenderers who qualify in the technical bid, shall be opened on the scheduled date.

Each group should have separate sealed envelop mentioned for technical & price bids. Clearly mentioning the “GROUP” name at the top of the envelops.

4. Telegraphic Tender shall not be accepted under any circumstances.
5. NESCO reserve the rights to reject the lowest or any other tender or all tenders without assigning any reason thereof.
6. The tenders should be kept valid for a period of 12 months (i.e up to March 2010) from the date of opening of the tender.
7. The tenders should be accompanied with the earnest money deposit of Rs. 1.00 Lakh for Gr.A&B and Rs.50,000/- for Gr.C in shape of Bank Draft / Bank Guarantee (from a nationalized bank or scheduled Bank) in favour of NESCO Ltd., Balasore . No adjustment towards earnest money

deposit shall be permitted against any outstanding amount with NESCO Ltd. .Tenders submitted without deposit of EMD shall be rejected.

8. *(i) In case of unsuccessful Tenderer, the earnest money will be refunded to them after the Tender is decided. In the case of successful Tenderer, this will be refunded only after furnishing of Security Money.*

(ii) The earnest money will be forfeited, if the successful Tender fails to accept the letter of intent or work order issued in their favour.

(iii) The Tender not accompanied with earnest money deposit shall be disqualified.

9. The Tenderers are expected to be fully conversant with the meaning of all the clauses of the specification before submitting their tender. In case of doubt regarding the meaning of any clause may ask for clarification in writing from the undersigned. This, however does not entitle the Tenderer to ask for time beyond due date fixed for receipt of tender.
10. After opening of the tender and within the validity period no reduction or enhancement in offer price by the tenderer will be entertained. On the other hand, it will make the tender liable for rejection. However management reserves the right for negotiation of rates & terms from among the eligible bidders.

Conditional Offers shall not be accepted.

11. The bidders should quote their bids in **computerized or typing** only. No handwritings are allowed. Over writing shall be avoided . In the event of discrepancy or arithmetical error , the decision of the management shall be final & binding on the tenderer.
12. The Tenders should be accompanied with proof of PAN,TIN,CST,VAT Registration Nos. & Service Tax Registration Nos., failing which the tenders will not be taken into consideration.
13. Recent test certificates copy of instruments by approved laboratory must be submitted.

General Manager (Works)

NESCO, Balasore

SECTION – II (Gr. A & B)
GENERAL TERMS & CONDITION OF CONTRACT

The bidders are requested to submit the tender as per instructions given below. The tenders not prepared as per our terms detailed below are liable for rejection

1.SCOPE OF WORK:- The repair works should be done as per the scope of work in the estimate. The estimate will be framed during initial inspection carried out by the authorized officers of NESCO in the repairer workshop for power transformer . The scope of works shall cover replacement / re-insulation of HV/LV coils, replacement of transformer oil, insulation Gaskets, Bolts and Nuts, Breather, Bushings ,Studs, Buchholz relay ,valves etc. by new ones. The transformers shall be delivered after complete repair with first filling of transformer oil confirming to relevant ISS. All the damaged materials will be returned to store along with the repair one through challan.

2.MARKINGS:- You shall fix a name plate on the body of the transformer without removing the original name plate inscribing the following particulars.

- i) Name of your firm.
- ii) Date of repairing.
- iii)Reference to work order No. & Date.
- iv)Sl.No. of repairer.

3. PRICE :- The price quoted should be firm and final. The rate and total should be entered both in figures and words and any correction should be attested under the Seals of the Firm. No revision of rates from that originally quoted will be allowed within the validity period. The rate should be quoted item wise including all taxes and duties as per enclosed technical details in section-IV & Technical bid details in section- III.

4. TAXES & DUTIES :- (i) All other taxes and duties are under the scope of the contractor/ repairing units.

(ii)All payments will be subject to tax deduction at source prescribed under Income Tax Act & Orissa Sales tax Act.

(iii)The bidder shall be responsible for due payment of all applicable taxes, duties, levies changes and expenses with respect to or arising out of performance of this work order.

5. VALIDITY:- The tenders should be kept valid for a period of 12 months (i.e up to March 2010) from the date of opening of the tender.

6. TRANSPORTATION:- To & Fro transportation charges is inclusive for distribution transformer & it will be paid extra for power transformer if departmental arrangement will not available , from Balasore Stores / Sub-Depot, Jajpur Road to factory premises and Repair transformers from factory premises to Balasore Stores/ Sub-Depot, Jajpur Road.

7. DELIVERY: -The repaired transformer should be kept ready for inspection within 20 days for distribution transformer & 45 days for power transformer from the date of issue of the receipt the empty burnt transformer . The repaired transformer should be despatched only after the inspection is conducted and despatch instruction issued by this office. The inspection note with tests certificate as per relevant IS & Guarantee Certificate of each consignment should be furnished to this office immediately after inspection for approval and issuing despatch instruction . The owner ,however reserves the right to reschedule the delivery and change the destination, if required..

8.PAYMENT:- 100% payment will be made within 30 days of submission of bills subject to the following:

- a) Receipt of repairing transformers in good condition and verification thereof.
- b) Approval of Guarantee Certificate & inspection report.
- c) Bank Guarantee i.e as per clause No.14.

Alternately: - In case of non-submission of Performance Bank Guarantee & BG for Security Deposit , payment will be made after adjusting one time Security Deposit & required amount towards PBG as per clause 14(b), from the bills within 30 days from submission of bills after receipt of materials in good condition and subject to approval of inspection report & Guarantee Certificate.

9.DEFECT LIABILITY PERIOD:- You have to give guarantee of the repaired work if any defect or failure, which arise due to faulty materials, workmanship or design within the defect liability period . The defect liability period shall be 18 months from the date of receipt of repaired transformers (last consignment) at stores or 12 months from the date of use/commissioning, which ever is earlier. If during this period any repaired transformers are found defective, these shall be promptly replaced or rectified by you at your own cost including To & Fro transportation cost.

10.PENALTY:- If supply is not made within stipulated delivery period, penalty shall be imposed @ 0.5% per week or part thereof, subject to maximum of 5% of the order value on such portion of the contract, which remain undelivered within the stipulated delivery period. The date of delivery at NESCO stores will be treated as actual date of supply. The imposition of penalty is however subject to force majeure condition.

11.TEST CERTIFICATE:-You are requested to furnish the test certificate in respect of repaired transformers covered in the work order in triplicate to this office at the time of delivery of the consignment for verification & approval thereof..

12.GUARANTEE:- The materials should be guaranteed for trouble free service for a period as indicated in clause no.9 above. The above guarantee certificate in triplicate should be furnished to this office for approval at the time of offer for inspection against each consignment and copies should be furnished to the concerned consignee and paying officers for their record.

13.FREE REPLACEMENT:- Free replacement for loss or damage of materials during transit shall be made by you immediately on receipt of information from the consignee without waiting for settlement of your claim with the Carriers and Insurers.

14.(a) SECURITY DEPOSIT: - One time Security deposit amounting **One Lakhs** for distribution transformer/ **Three Lakhs** for power transformer to be deposited in shape of Demand Draft / Bank Guarantee from any Nationalized Bank or scheduled Bank in favour of the Chief Executive Officer, NESCO, payable at Balasore for a period of 15 months .

(b) **PERFORMANCE BANK GUARANTEE :-** (i)One time Performance Bank Guarantee amounting **Two Lakhs** (Rupees two Lakhs only) for distribution transformer & (ii) Performance Bank Guarantee to the tune of 10% of the total contract value of each work order for power transformer , in shape of Bank Guarantee from any Nationalized Bank or scheduled Bank in favour of Chief Executive Officer, NESCO, Balasore on a non-judicial stamp paper of worth Rs. 50/- (Rupees Fifty) only strictly as per the enclosed format, should be furnished to this office immediately after completion of supply. The Bank Guarantee should be valid for the order to cover the guarantee period as per clause 9 plus 3 months towards claim period .

15.INSPECTION & TEST: - The authorized representatives of NESCO shall have the right to inspect the raw materials during the process of repairing at your works. You are required to offer for stage inspection & final testing after repair of the

transformers .The stage inspection & final testing will be carried out by the authorized officers of NESCO . All required facilities including recently calibrated (preferably by CEI,Orissa or ETDC,Govt. Of Orissa) instruments shall be provided to

our inspecting and testing officer deputed to carry out their job. The following routine tests as applicable to the new transformers by relevant ISS (if any) shall be conducted on the repair transformers by our authorized officers and results approved by this office before issuing release order for dispatch of the transformers.

- i. Measurement of winding DC resistance at extreme and normal tap positions.
- ii. Measurement of voltage ratio on each tapping & Polarity test and Phase relationship.
- iii. Measurement of Load Losses (Full Load & No Load) including impedance voltage test.
- iv. Insulation resistance test from LV to earth, HT to earth and HV to LV.
- v. One minute separate source voltage withstand test.
- vi . Double Voltage Double Frequency test.
- vii. Insulation test of the Oil.(BDV test)
- viii. Magnetic Balance Test.
- ix. Measurement of neutral unbalanced current which shall not exceed 2% of the full load rated current of the transformer.
- x. Induced over voltage withstand test for 60 seconds.

The above tests shall be carried out at your premises. The test results so obtained signed by you and the inspecting officers, shall be sent to this office for approval and issue of release order.

16. RETURN OF OLD MATERIALS ó All the damaged materials will be returned to store along with the repair one through challan such as all damaged coil/strip, OLTC,HV &LV studs etc., otherwise the bill canø be passed for payment.

17. DESPATCH INSTRUCTIONS: - Immediately on successful completion of inspection, despatch instruction shall be issued.

18. FORCE MAJEURE :- The repairer shall not be liable any penalty on account of delay or failure to perform the contract for reasons of force majeure such as acts of God acts of the Public, Enemy, acts of Government, Fire, Floods, Epidemics, Guarantee in restriction, Strikes, Freight Embargos and provided that the repairer shall within 10 (ten) days from the beginning of such delay notify the owner in

writing of the cause of delay the owner shall verify the facts and grant such extension as facts justify.

19. RIGHT TO REJECT/ACCEPT ANY TENDER :- NESCO reserves the right either to reject / accept any or all of Tenders. Orders may also split up between different tenderers on individual merits of the Tenders. The owner has exclusive right to alter the quantities of the materials at the time of placing final work order. It may be clearly understood by the Tenderer that NESCO need not assign any reason for the above action

20. JURISDICTION OF COURT:- For the purpose of jurisdiction of Court in the event of disputes, if any, this work order shall be deemed to have entered into at Balasore within the State of Orissa and this is hereby expressly agreed that neither party shall be competent to bring a suit as regard to the matter covered by the purchase order of any place outside the state of Orissa.

21. Out Right Rejection of Tenders :- Tenders shall be rejected out right with the following conditions.

- (i) Tenders without NESCO tender document.
- (ii) Non-submission of tender in person or by Registered Post with A.D.
- (iii) Telegraphic submission of tender.
- (iv) Tenders not accompanied by prescribed earnest money deposit.
- (v) Offer price of the tender for less than 15 months.
- (vi) Non- compliance of our stipulated terms & conditions.

General Manager (Works)
NESCO, Balasore

S E C T I O N – II (Gr.C)

GENERAL TERMS AND CONDITONS

The bidders are requested to submit the tender as per instructions given below.
The tenders not prepared as per our terms detailed below are liable for rejection

1. PRICE:

The price quoted should be firm and final. The rate and total should be entered both in figures and words and any correction should be attested under the Seals of the Firm. No revision of rates from that originally quoted will be allowed within the validity period. The rate should be quoted at work site inclusive of all taxes and duties .

2. SALES TAX:

Sales Tax declaration Form ~~EoCo~~ as applicable will be issued for the execution of work by NESCO. The up-to-date Sales Tax Clearance certificate should be furnished with the tender.

3. EARNEST MONEY:

- a) Rs. 50,000/- (Rupees Fifty Thousand only) for maintenance of 33/11 KV Power Transformers towards EMD to be paid in shape of Bank Draft/ Bank Guarantee (from a nationalized Bank or Scheduled bank) in favour of the NESCO Ltd, Balasore. Tenders with out requisite EMD will be rejected.
- b) Earnest money will be forfeited if the successful tenderer fails to accept the order and /or letter of indent placed in its favour .
- c) Earnest money will be refunded to the unsuccessful bidder only after the tender is finally decided. In case of successful tenderer ,EMD will be refunded after furnishing of CPBG/SD (as per clause No.9) .
- d) No adjustment towards EMD shall be permitted against any outstanding amount with NESCO.

4. Tools, Tackles & Consumables: - All required tools, tackles, consumables required for the execution of the work, shall have to arranged by the contractor without any

extra financial cost to NESCO. If the contractor fails to mobilize sufficient number of tools & Tackles on time, the NESCO Engineers reserve the right to engage the same in the interest of the work at the risk and cost of the contractor.

- 5. Quality and Workmanship:-** The Contractor shall have to comply applicable IS norms. The work shall be executed under the direct supervision of the NESCO engineers and if any work is found unsatisfactory by NESCO engineers, the contractor shall have to dismantle the same and rectify without any extra financial cost to NESCO.
- 6. Transportation:** -Transportation of the required materials from NESCO stores to the work site, return of surplus and dismantled materials, loading of goods at NESCO stores as well as unloading at contractor stores shall have to be arranged by the contractor and this rate is included in the total work order price as stated above.
- 7. Site facilities:** - The contractor shall arrange its site office and also stores conveniently at the works location, to store the materials for the execution of the works. Besides the above electricity, water etc shall have to be arranged by the contractor without any extra financial cost to NESCO.
- 8. Watch & Ward:** - The contractor shall be responsible for arranging suitable watch & ward of the equipment/ materials issued to him as well as of installations from the time of issue to the final take over of the installation for operation by NESCO. Any loss, damage, theft to the materials / Equipment / Installation shall be compensated by the Contractor.
- 9. Contract Performance Bank Guarantee/ Security Deposit:-**The contractor within fifteen (15) days from the date of this Award notice , shall submit a contract performance Guarantee (CPBG) in favour of NESCO Ltd, Balasore on a non judicial stamp paper of worth Rs.50/- (Rupees Fifty) only strictly as per enclosed proforma from any Nationalised Bank or schedule Bank equivalent to ten percent(10 %) of the total contract price of the contract . The contract performance Bank Guarantee shall be valid for the period of 90 days beyond the guarantee period. The Security Deposit may also be paid in shape of Bank draft in favour of NESCO Ltd., Payable at Balasore. If the Contractor fails to furnish the CPBG/ Security Deposit within 15 days of the date of issue of the work order, the letter of Indent / work order will be liable for cancellation. CPBG deposited by the contractor may be forfeited in event of any breach of or default in all or any of the conditions set forth and provided in the work order.

10. Payment:- 100 % payment will be made from NESCO Corporate Office , Balasore within 30 days subject to the following:

- (i) Approval of Guarantee Certificate by competitive authority of this office.
- (ii) Approval of Contract Performance Bank Guarantee/ Security Deposit as indicated in clause No.9

Alternately: - In case of non-submission of Performance Bank Guarantee, 90% payment will be made within 30 days from submission of bills after receipt of materials in good condition and subject to approval of inspection report & Guarantee Certificate.

The balance 10% payment will be paid after expiry of the Guarantee period

11. PENALTY:

- a) If supply / erection of items/ equipments is delayed beyond the schedule as stipulated in work order then the contractor shall be liable to pay to the NESCO as liquidated damages for delay, a sum of 0.5 % (half percent) of the contract price for every week delay or part thereof for individual completion.

The total of liquidated damages for delay under the contract will be subject to a maximum of five percent (5 %) of the contract price.

- b) Work order will be treated as automatically cancelled after the stipulated date of period with forfeiture of Contract Performance bank Guarantee as per Clause-9 above, unless ,the date of completion is extended by the authority subject to imposition of penalty mentioned at (a) above at the discretion of the authority. The imposition of penalty is however subject to force majeure condition.

12. Taxes& duties:-

- (i) All other taxes and duties are under the scope of the contractor.
- (ii) All payments will be subject to tax deduction at source prescribed under Income Tax Act & Orissa Sales tax Act (work contract tax).
- (iii) The contractor shall be responsible for due payment of all applicable taxes, duties, levies changes and expenses with respect to or arising out of performance of this work order.

13. GUARANTEE:

The works should be guaranteed for satisfactory operation and trouble free service for a period of **Twelve months** from the date of completion of the work. Any defect noticed during this period shall be made good by the Contractor free of cost provided

such defects are attributed to faulty design and workmanship used. The above guarantee certificate shall be furnished in triplicate to the authority for approval.

14. COMPLETION OF WORK:

The work should be completed within the stipulated contract period as would be stipulated in Work order.

15. INSPECTION:The authorized representative NESCO will inspect the works at any stage during the execution of works..

16. VALIDITY:

- a) Price should be firm and offer should be valid for a period of 12 months from the date of opening of the tenders / placement of work order.
- b) Tenders with lesser validity period will be rejected out right at the time of opening of the tender.
- c) Tender with conditional validity or rates will be rejected out right.

17. STATUTORY COMPLIANCE:- The contractor has to ensure all required statutory compliance including IT , ST, PF , ESI , Labour License , Work man Compensation, Payment of Minimum Wage etc. as in force from time to time. Any payment against the work order is subject to the compliance of all statutory requirements as above.

18. STATUTORY COMPLIANCE:- The contractor has to ensure all required statutory compliance including IT , ST, PF , ESI , Labour License , Work man Compensation, Payment of Minimum Wage etc. as in force from time to time. Any payment against the work order is subject to the compliance of all statutory requirements as above.

19. SCOPE OF THE WORK:

NESCO reserves the right to alter, reduce or increase the scope of works or allot the work in spitted manner amongst two or more bidders and without assigning any reason thereof, what so ever the decision of the NESCO will be final.

If the rates of this tender is not reasonable as per the internal estimate of the company, then NESCO reserves the right to cancel the tender without assigning any reason thereof, what so ever the decision of the NESCO will be final.

20. ACCEPTANCE:

The successful bidder / bidders on receipt of the work order/ letter of intent should intimate its acceptance within 15 (fifteen) days of receipt of order, failing which the order will be automatically cancelled with forfeiture of earnest money deposit as applicable.

21. JURISDICTION OF THE HIGH COURT OF ORISSA:

Suits if any, arising out of the contract shall be filed by either parties in any court of Law to which the jurisdiction of the High Court of Orissa extends. The bidders who does not adhere to this Clause will be rejected.

22. CANCELLATION OF THE BID: -

NESCO reserves the right to modify, cancel, split, postpone, withdraw the invitation of bids without assigning any reason thereof and shall bear no liability whatsoever consequent upon such a decision.

General Manager (works)
NESCO, Balasore.

SECTION – III (TECHNICAL BID)

1. The repair work of distribution transformer shall cover complete replacement of all H.V. coils by new ones , replacement of transformer oil, insulation Gaskets, Bolts and Nuts, Breather, Bushings , Studs etc. by new ones. The old HV coils should not be used in the transformer in any manner or shape.

The transformers shall be repaired with first filling of transformer oil & other materials confirming to relevant ISS. The transformer oil should be complied with latest version of IS: 335-1983 . The routine tests shall be carried out in accordance with IS:2026

The losses shall not exceed by more than 10% the values given below:

KVA Rating	No-load losses(Watt)	Load losses (Watt)
10	45	205
16(1-Ph.)	50	250
16(3-Ph)	80	475
25	100	685
50	160	940
63	180	1235
100	260	1760
150	320	2400
200	460	2650
250	480	3500
315	520	4450
500	600	6435

Old HT studs & LT studs will be returned to store along with the repaired transformers through challan .

2. The repair work of power transformer shall cover replacement / re-insulation of HV/LV coils, replacement of transformer oil, insulation Gaskets, Bolts and Nuts, Breather, Bushings , Studs, Buchholz relay ,valves etc. by new ones.

The transformers shall be repaired with first filling of transformer oil & other materials confirming to relevant ISS. The transformer oil should be complied with latest

version of IS: 335-1983 . Dimension of 12 KV bushings & 36 KV bushings shall conform to IS:3347(Part-III) & IS: 3347(Part V) respectively. All type and routine tests shall be carried out in accordance with IS:2026. The losses shall not exceed by more than 10% the values given below:

KVA Rating	No-load losses(KW)	Load losses (KW)
1600	3.0	15.0
3150	4.5	23.0
5000	6.5	34.0
8000	8.5	50.0

All the damaged materials will be returned to store along with the repair transformer through challan .

3. The maintenance work of power transformer of 33/11 KV S/S under NESCO area shall cover filtration of transformer oil, replacement of gaskets by new ones , re-conditioning of Silica gel Breather , replacement of Silica gel Breather , painting etc.& the materials conforming to relevant ISS.

The oil filtration sets shall conform to the latest version of IS: 6034 & oil testing kit shall comply with the requirements of IS:6792-1992 of its latest version. Measurement of test voltage as per IS: 6792.

Before painting, all ungalvanised parts shall be thoroughly cleaned . The surface shall then be applied two coats of primer before being finally spray- painted.

4. The Tenders must be accompanied with proof of :-

- a) PAN,TIN,CST,VAT Registration Nos. & Service Tax Registration Nos., failing which the tenders will not be taken into consideration.
- b) Copy of recent test certificates copy of instruments by approved laboratory must be submitted.
- c) Details of plant & machinery at workshop along with capacity of various machines.
- d) Details of available man power.
- e) Experience in similar/ related job along with proof.
- f) Details factory space including size of heat chamber, provision for overhead chain pulley and other loading & unloading arrangements.
- g) Annual turn over for last three years i.e 2007-08,06-07,05-06 along with proof.
(Audited balance sheet & I.T return u/s 44AB of IT Act,1961)
- h) Copy of valid HT License .
- i) Copy PF,ESI registration certificate.

Price break up for Copper Wound Transformer

Sl. No	Capacity	Unit	*Cost of new materials required	Replac ement of oil charge	CST/ VAT	Total	Labour charges	Service tax	To & Fro transportat ion charge	Entry tax ,if any	Total Amount in Rs.
1	25 KVA, 11/0.4 KV	Each									
2	50 KVA, 11/0.4 KV	Each									
3	63 KVA, 11/0.4 KV	Each									
4	100 KVA, 11/0.4 KV	Each									
5	100 KVA, 33/0.4 KV	Each									
6	150 KVA, 11/0.4 KV	Each									
7	200 KVA, 11/0.4 KV	Each									
8	250 KVA, 11/0.4 KV	Each									
9	250 KVA, 33/0.4 KV	Each									
10	315 KVA, 11/0.4 KV	Each									
11	500 KVA, 11/0.4 KV	Each									

**** N.B : The bidders should be enclosed rate analysis of cost of materials .**

General Manager (Works)
NESCO, Balasore

SECTION – IV**(PRICE BID) “Group- B”**

The bidder should be quote their rates of following materials require for repair of different capacity of Power Transformer from 1.0 MVA to 8.0 MVA.

Sl.No.	Description of work	Unit	Rate in Rs.			
			1.0 to 2.0 MVA	3.15 MVA	5.0 MVA	8.0 MVA
1	Re insulation of HV copper conductor with existing conductor	Kg.				
2	Re insulation of LV strip copper conductor with existing conductor	Kg.				
3	New HV copper conductor	Kg.				
4	New LV copper conductor	Kg.				
5	Insulation of new HV copper conductor	Kg.				
6	Insulation of new LV copper conductor	Kg.				
7	New insulating press board	Kg.				
8	New EHV Grade transformer oil	Ltr.				
9	Filtration charges for new EHV grade transformer oil	Ltr.				
10	New gaskets RC 70 grade	LS				
11	Cleaning & spray painting of tank, radiators, conservator , tap changer, marshalling box etc. with one coat of primer & two coats of approved paint and inside the tank with epoxy paint.	No.				
12	New Off load Tap Switch	No.				
13	Repair of Off load Tap Switch	No.				
14	New On load Tap Changer	No.				
15	Repair of on load Tap Changer	No.				
16	36 KV HV Bushing	No.				
17	12 KV LV Bushing	No.				
18	36 KV HV Brass Stud with Nuts	No.				
19	12 KV LV Brass Stud with Nuts	No.				
20	C.I clamp for 33 KV Bushing	No.				
21	C.I clamp for 11 KV Bushing	No.				
22	Arcing Horn Assembly for 33 KV Bushing	No.				
23	Arcing Horn Assembly for 11 KV Bushing	No.				
24	Phase separator with insulation between coils	Set				
25	Galvanised H.W. items	Kg.				
26	New transparent type silicagel breather.	No.				
27	Buchholz relay (with alarm & trip contact)	No.				

28	Wheel Valve(Flange Type)50 mm	No.				
29	BSP Gun metal wheel valve with cap(1.5ö/2.0ö)	No.				
30	Radiator Shut off valve	No.				
31	Oil level gauge in conservator	No.				
32	Oil Temperature Indicator (with alarm & trip contact)	No.				
33	Winding Temperature Indicator (with alarm & trip contact)	No.				
Sl.No.	Description of work	Unit	Rate in Rs.			
			1.0 to 2.0 MVA	3.15 MVA	5.0 MVA	8.0 MVA
34	Oil level indicator	No.				
35	Miscellaneous items like insulating paper,cotton Tap,Weaving Taps,SRBP Tube,Sleeving etc.	LS				
36	Removal & blocking of OLTC Permanently	No.				
37	Repairing of (i) tank	No.				
	(ii)Radiator	No.				
	(iii) Conservator , marshaling box.	No.				
	(iv) marshaling box.	No.				
	CST/VAT on material _____ %					
	Labour charges for repairing of the transformer	L.S				
	Service tax with education cess on labour charges _____ %					
	Electricity Charges	LS				
	Transportation charges to & fro	per Km				
	Entry Tax ,if any					

General Manager (Works)
NESCO, Balasore

SECTION – IV**Price Bid “ Group- C”****Scope of the work of Each Transformer**

Sl. no	Description Of Work	Unit	Rate/ unit			
			1.0/1.6/ 2.0 MVA	3.15 MVA	5.0 MVA	8.0 MVA
1	Filtration of Transformers Oil	Per ltr.				
2	Replacement of Gasket with all materials as per direction of Engineering In-Charge where ever required.					
	a. Main tank	No.				
	b .Radiator	Each Radiator				
	c. H.V Bushing	Each bushing				
	d. L.V Bushing	Each bushing				
	e. Conservator Tank	Each				
	f. Oil level gauge	Each				
	g. Inspection Cover , Main Holes, Valves, Connecting , Pipes including tightening & terminal arrangement, of Buchholz relay, O.T.I,W.T.I	L.S				
	h. Marshalling box. Etc	No.				
3	(i) Re-conditioning of Silica gel Breather	No.				
	(ii) Replacement of Silica gel Breather	No.				
4	Painting of transformer as per direction of Engineering In-Charge with all materials (cleaning & painting with one coat of primer & two coats of approved quality paint).					
	a.Main tank	Per Sq. ft.				
	b. Conservator	Per Sq. ft.				
	c. Radiator	Per Sq. ft.				
	d. Tap Changer	Per Sq. ft.				
	e. Marshalling Box etc,	Per Sq. ft.				

	Transportation charges (in Rs,)	Per Km				
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General Manager (works)

NESCO,Balasore.