



PUDUCHERRY POWER CORPORATION LIMITED
(A GOVERNMENT OF PUDUCHERRY UNDERTAKING)



PROJECT OFFICE, T.R. PATTINAM 609 606, KARAIKAL.

Phone: 04368-233060

Email: ppclmmc@gmail.com

Telefax: 04368-233287

Ref.No.AB-056/MMC/2024-25/ 1073

GSTIN No.34AAACP6507E1ZS

Dt 25.09.2024

ENQUIRY

To

Sub: Inviting offer for Filtration of Transformer Oil, Repair works of Transformer - Reg.
QUOTATION TO BE:

| | |
|--|---|
| Submitted on or before: 14.10.2024 -5.00 pm | Opened on: 15.10.2024 - 03.00 pm |
| Kept valid for 6 months from the date of opening | Submitted in TWO parts. |

Sealed quotation is invited for **Transformer oil purification work and Repair works of Transformers. The scope of work and specification of transformers are enclosed and the terms & conditions are mentioned therein.**

The Party should have previous work experience in Power Transformer oil purification, overhauling/repair work, oil leak arresting work of Power Transformer in Power Plant/sub-station and supporting document to be submitted with the offer. The EMD and experience documents to be kept separately from the sealed envelope for Price bid.

General Terms and conditions:

1. The rate quoted should be inclusive of providing of Oil filtration machine, manpower, transport charges, tools and tackles, etc. required for the works, all taxes and other charges as admissible.
2. Applicable other charges, if any should be clearly mentioned as whether inclusive or extra. If not mentioned, it will be presumed that the rate quoted is inclusive of all other charges.
3. **EARNEST MONEY DEPOSIT:** An Earnest Money Deposit of **Rs 5000.00** (Rupees Five thousand only) should be paid by demand draft drawn in favor of the EXECUTIVE ENGINEER (MECH.), Puducherry Power Corporation Ltd T.R. Pattinam, Karaikal on any Nationalized/Scheduled bank payable at Karaikal. The earnest money deposit will bear no interest and will be released after successful completion of the work and acceptance.
4. Parties registered with NSIC or SSI/MSME is exempted for submitting EMD/SD. However copies of supporting Documents/Certificates should be kept in separate cover super scribing "**Earnest Money Deposit Exemption**".
5. The party shall be required to place the "PQR & EMD/EMD Exemption" and the "Tender" in two separate sealed envelopes marked "PQR/EMD" and "Tender" respectively. Both the envelopes shall then be placed in another sealed envelope and submitted to the tender inviting authority in the usual manner. The officer opening the tenders shall first open the envelope containing the "PQR/EMD". One week time will be given to the party for submitting the pre existing shortfall documents. If the PQR/EMD is found to be in order, only then the Officer shall proceed further with opening the Tender.
6. **The L1 bidder shall be arrived as the lowest bidder for total amount for all the items. The rate is to be quoted for all items.**



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7. The rate has to be quoted in the prescribed tabular column format for work measurement.
8. The work should be carried out in PPCL site, T.R.Pattinam, Karaikal 609 606. **The specification of the transformers and the scope of the work are enclosed.**
9. No Workshop facility is available inside PPCL campus and outside private workshops to be utilized by the party concerned at their own cost.
10. Exact date for commencement of work will be intimated appropriately.
11. Necessary Gate pass should be obtained well before the commencement of work.
12. The party should ensure round the clock progress of work at site and should follow all safety rules and procedures strictly inside the plant.
13. In case of any faulty workmanship in the scope of work, the tenderer must rectify the same on free of Cost.
14. **PAYMENT: 80%** Payment for Transformer Oil Purification Work will be made within 30 days from the date of receipt of your invoice after completion of work satisfactorily and approval of Engineer-in-charge and the balance **20%** Payment will be made after submission of ESI / EPF etc. documents.
15. **The bill in triplicate along with advance stamped receipt should be sent to the undersigned for effecting payment.**
16. The **20%** Payment will be made only after submission of the following :
 - **For EPF:**

To be generated from the EPF website for the specific month for the manpower deployed to PPCL and the same to be enclosed separately with a covering letter.

 - i. Combined challan of account no.01, 02, 10, 21 &22 with TRRN number.
 - ii. EPF-Electronic Challan cum Return (ECR)
 - iii. EPF Challan summary/EPF-TRRN details.
 - **For ESI:**

To be generated from the ESI website for the specific month for the manpower deployed to PPCL and the same to be enclosed separately with a covering letter.

 - i. ESI challan number
 - ii. ESI monthly contribution –online challan status (Transaction details)
 - iii. ESI monthly contribution (Contractor wise) for the month of.....
17. Party should obtain all permits and licenses under the laws or regulations applicable and in connection with the work carried out and shall comply with and discharge all statutory obligations/liabilities under the various laws such as Factory Act/Workmen's Compensation Act /Employee's State Insurance Act / Employee's Provident Fund Act / Payment of Wages Act / Contract Labor (Regulation & Abolition) Act / Minimum Wages Act Etc., or any modification thereof.
18. The bidder shall make payments for ESI & EPF in separate code number other than PPCL code. No permission shall be given for PPCL code.



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- 19. The work should be completed within 7 days from the commencement of the work.
- 20. **LD Clause:** If the contractor fails to complete the work within the stipulated period, then the Contractor shall pay LD@0.5% for each week delay in work and the total LD% will be subject to the maximum of 5% of the quoted rate.
- 21. Our Tax payment Identification **GSTIN No.34AAACP6507E1ZS** is registered with Commercial Taxes Department, Puducherry. Bidder should furnish their GST details.
- 22. Quotations through fax/mail and late bids received after due date will not be considered.
- 23. Sealed quotations should be super scribed as "QUOTATION/ENQUIRY REF NO:AB-056 for Transformer oil Purification work".
- 24. If the tender opening date happens to be a holiday, the tender will be opened on the next working day.
- 25. The undersigned reserves all rights to accept/reject any or all the quotations without assigning any reasons thereof.
- 26. The work order is not transferable and subcontract/sublet of work is not permitted.

[Handwritten Signature] 24/09/2024

EXECUTIVE ENGINEER (MECH.)-PLANT



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Scope of work for Oil filtration of 15MVA, NGT, 5MVA and 2MVA Transformers

1. Scope of work for oil filtration

- i. The contractor has to bring the stream line filter machine fitted with a vacuum pump for the transformer oil filtration purpose.
- ii. The capacity of the filter machine should be minimum 4500 LPH.
- iii. The quoted rate should include completing the transformer oil filtration with the required three numbers of cycles / to improve the dielectric strength to the optimum value.
- iv. The contractor should bring the oil testing kit along with filter machine. The voltmeter in the oil testing kit should have been calibrated and the calibration certificate needs to be produced for the same.
- v. The filtration of transformer oil to be carried out through transformer tank only.
- vi. The oil samples during and after filtration has to be taken from top and bottom of the tank in case of 15 MVA, 2MVA and 5MVA transformers and NGT one sample may be taken for testing the dielectric strength and BDV is to be tested only after temperature of the oil cools down.
- vii. **The testing of oil should be in accordance with IS: 6792. Two samples of each of the oil should be tested before and after filtering and reports to be furnished. The BDV of transformer oil tested should be a more than 60KV RMS for one minute with a gap testing of 2.5mm. The circulation is to be continued more than 3 cycles if required until the above BDV is reached as instructed by Engineer in-charge. The test should be carried out six times and the arithmetic mean of the six results should be used.**
- viii. The transformer oil if required for top up will be supplied by PPCL.
- ix. The contractor should take IR readings for the transformer and hourly IR values to be recorded for plotting the graph during oil purification as instructed by the Engineer in charge.
- x. The healthiness of the Bucholz relay, Magnetic oil gauge, Pressure relief valve, OTI, WTI and other protections of the transformer are to be checked and if required needs to be supplied & replaced by the contractor. The Bucholz relay, magnetic oil gauge, OTI and WTI for 2 MVA & 5 MVA Transformers only supplied by PPCL.
- xi. In 15 MVA Transformer and NGT - 1 & 2 any other fittings/accessories if required to be replaced, the contractor should include both supply & replacement in their scope
- xii. Transformers oil filtration work has to be carried out one by one.
- xiii. The necessary single/three phase supply for the filtration machine will be provided by PPCL.



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2. Scope of works for Repairing work

- i. **The following spots and over all places of the transformers have to be inspected compulsorily for inspection of oil leakages, if any oil leakages identified it should be attended by the contractor including required consumables & materials.**
HV, LV and Neutral bushings, HV bushing secondary terminals, OLTC's chambers, top cover & inspection door, view glasses, shut off valves in the radiator fins and entire fittings & accessories of the transformers.
- ii. The entire consumables like rubberized gaskets, view glasses, O rings, seals, paste, washers, bolts & nuts and etc, required for the job have to be brought by the contractor.
- iii. Necessary tools and tackles for attending the oil leakages and the consumables for above said job are in the contractor's scope.
- iv. The breather units for all the transformers are to be supplied & replaced by the contractor.
- v. Replacement of rubber beadings, acrylic sheets in the marshalling box (WTI, OTI Panel) are in the contractor's scope. Supply & replacement of oil surge relay in 15 MVA Power Transformer I & II in the Contractors scope.
- vi. Arrangement of portable crane if required is in contractor's scope.
- vii. **The contractor should leave the site only after energizing the transformers.**
- viii. **In case of any faulty workmanship in the scope of work, malfunction the Contractor must rectify the same at their own cost.**
- ix. **For the above said works the contractor may inspect all the transformers at PPCL site before submission of their offer.**



ENQUIRY PAGE-06

Specification for Transformers for Oil Filtration

2 MVA Transformers - 1 & 2

Make : BHARAT BIJILEE
 Capacity : 2000 KVA
 Voltage (HV/LV) : 11000 V/ 433 V
 Current AT (HV/ LV) : 105 A/ 2667 A
 Phase (HV/LV) : 3/3
 Frequency : 50 HZ
 Year of Manufacture : 1997
 Types of Cooling : ONAN
 Connection symbol : DYN 11
 Mass/vol of oil Kg/lts : 1140 kg/1325 lts

5 MVA Transformers - 1 & 2

Make : BHARAT BIJILEE
 Capacity : 5000 KVA
 Voltage (HV) : 11000 V
 Voltage (LV) : 6900 V
 Current AT (HV) : 262.4 A
 Current AT LV : 418.4 A
 Phase (HV/LV) : 3/3
 Frequency : 50 HZ
 Year of Manufacture : 1997

Types of Cooling : ONAN
 Connection symbol : DYN 11
 Mass/vol of oil Kg/lts : 1980 kg/2300 lts

15 MVA Transformers -1 & 2 with OLTC

Make : Apex Electricals LTD
 Type : Out Door
 Capacity : 12000/15000 KVA
 H.T Voltage : 115000 V
 H.T Amps : 60.2/75.3 A
 L.T Voltage : 11000 V
 L.T Amps : 629.8/787.3 A
 Connection (HT/LT) : Star/Delta
 Vector Group : YnD11
 Type of Cooling : ONAN/ONAF
 Total Weight : 36.875 Tons
 Wt of Oil : 9975 Kg/11600 Lts

NGT -1 & 2

Make : APEX Electrical Ltd
 Type of cooling : ONAN
 Rating : 150 KVA
 No Load HT/LT : 11000 V/ 240 V
 Current HT/LT : 7 A/ 360 A
 Vector group : Star/Delta
 Phase : 3
 Oil : 400 kg/ltr



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| Sl. No | Description | Rate per unit (Rs.) | Amount (Rs.) |
|--------|---|-------------------------------------|----------------|
| 1 | Filtration of tr.oil, of 15MVA -1&2 with OLTC, NGT-1&2, 5MVA 1&2 & 2MVA-1&2 Transformers. Total (31250 lts) | (Per Litre for 31250 Ltrs (1-Cycle) | (For 3 Cycles) |
| 2 | Transportation charge for filtration machine | (Lumpsum) | |
| 3 | Oil leak attending, replacing of gaskets , Rubber beading, supply and replacement of Silica gel & Breather, Replacement of oil surge relay in 15 MVA Transformer I & II, acrylic sheet, view glass and other items required to be replaced along with materials | (Lumpsum) | |
| | | Sub-Total | |
| | | GST @ % | |
| | | Total Amount (Rs.) | |

Commercial Terms and Condition:

| Sl. No | Details | Terms in Tender | Terms Accepted by the Party |
|--------|---|---|-----------------------------|
| 1 | Price Quoted | Inclusive of Machine , Man power, ESI/EPF, Transport charges, Tools & tackles etc | |
| 2 | Payment Terms | As per the Terms clause 14. | |
| 3 | Validity | 90 Days from date of opening of Tender | |
| 4 | Supporting Documents for the previous experience | Should be enclosed, Two separate envelops (i) EMD & PQR (ii) Price bid | |
| 5 | Delivery/ Completion Period | Vendor to specify. Estimated seven days from commencement of work. | |
| 6 | The Oil Purification/Filtration machine Capacity of at least 4500LPH to be utilized. | To be Accepted | |
| 7 | Acceptance of All the Terms and Conditions | To be Accepted | |

Signature with Seal of the Party