# Appendix 3.a: Technical Offer Form (both the hard copy and soft copy to be submitted in a separate sealed envelope without price information)

**As indicated in the Terms of Reference, the Contractor is requested to provide a full Technical Offer for each offered Lot.**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Description | Supplier’s Comments & Deviations if any | |
|  |  | Oil Regeneration System | Oil Dehydration System |
| 1. | Name & Address of the Manufacturer |  |  |
| 2. | Place of the Manufacture and Country of Origin |  |  |
| 3. | Make |  |  |
| 4. | Model |  |  |
| 5. | Product’s web page |  |  |
|  | **Characteristics of oil after processing and operating plants** | | |
| 6. | Breakdown Voltage (kV , Across 2.5mm gap) |  |  |
| 7. | Moisture Content (ppm) |  |  |
| 8. | Suspended Particles (micron) |  |  |
| 9. | Gas Content (% by Volume) |  |  |
| 10. | Acidity (mg KOH/gm of Oil) |  |  |
| 11. | Maximum Dielectric Dissipation Factor (DDF) 90 °C (Tan δ) |  |  |
| 12. | Dielectric Strength (kV) |  |  |
| 13. | Power Factor at 100°C |  |  |
| 14. | Sludge (Maximum) after 164h at 120°C (%) |  |  |
| 15. | Flash point (minimum) (°C) |  |  |
| 16. | Reduction of water content of oil in single pass assuming initial moisture content in the oil is 100 mg/kg or ppm |  |  |
| 17. | List and quantities of byproducts generated by the plants when processing 100,000 kg of transformer insulating oil with initial moisture content of 100 mg/kg or ppm. Please include reaction byproduct as well as spent filters, adsorbent and any other byproduct |  |  |
| 18. | List, quantities and/or concentration of air emissions from plants when processing used transformer mineral oil and when regenerating adsorbent material. |  |  |
|  |  |  |  |

In addition to the above table and to what is requested in the Instructions to Bidders, for each offered Lot, the following Information shall be furnished in the technical offer.

* + 1. Duly filled Technical Offer Form above;
    2. Company brochure and documentary evidence relevant to clause 6.3 of the ToR;
    3. Manufacturer’s Authorization in accordance with the below template;
    4. Manufacturing Experience in accordance with clause 6.1 of the ToR;
    5. List of Tools and Spare Parts in accordance with clause 6.2 of the ToR;
    6. Acceptance Letter from the Agent for carrying out After Sales services in accordance with clause 6.6 of the ToR;as applicable.
    7. Certified copy of the quality assurance conforming to ISO 9001.
    8. Certified copies of Relevant Type Test reports.
    9. Reports of chemical analysis of air emission from the plants when treating used transformer oil and regenerating in-situ filters and adsorbent materials.
    10. Report of chemical analysis of byproducts being generated by the plants (for example, filter cartridges, spent adsorbent material, etc.
    11. Mass balance of the plants, assuming the treatment of 150,000 kg of transformer oil with initial moisture content of 100 mg/kg or ppm. Please give details of any other assumption such as acidity content, particles, etc. in the initial oil.

**MANUFACTURER’S AUTHORIZATION TEMPLATE**

**(pls see above point c) )**

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the bidding document.]*

Date: *[insert date (as day, month and year) of Bid Submission]*

No.: *[insert number of bidding process]*

To: *[insert complete name of Purchaser]*

WHEREAS

**We *[insert complete name of Manufacturer],* who are official manufacturer of *[insert type of goods manufactured],* having factories at [insert full address of Manufacturer’s factories], do hereby authorize *[insert complete name of Bidder]* to submit a bid, the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods],* and to subsequently sign the Contract.**

**We hereby extend our full guarantee and warranty in accordance with Clause 7.7 of the Technical Specifications, with respect to the Goods offered by the above firm.**

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on day of , *[insert date of signing]*