



Indian Council of World Affairs

Sapru House, Barakhamba Road

New Delhi

विश्व मामलों की भारतीय परिषद
सप्रू हाउस, नई दिल्ली
रखरखाव अनुभाग

संख्या:- आईसीडब्ल्यूए/बिल्डिंग/872/15/2008

Dated 21.10.2016

Quotations for AMC of Water Purifier installed at Library, ICWA

The Indian Council of World Affairs (ICWA) invites sealed quotations for comprehensive annual maintenance contract of water purifier 100 LPH Vam Soft Pure make (customize) installed at Library, ICWA. for a period of one year from the date of awarding the work . The list of items to be covered under AMC is attached. The parties are required to furnish the unit as well as total cost of comprehensive maintenance strictly for as per in the attached Performa. ICWA reserves the right to accept or reject any or all of the offers, in full or in part, without assigning any reasons whatsoever. The firms should have proven experience in carrying out similar types of work in various offices. **Last date of submission of proposal is 18 November, 2016.**

The terms and conditions of AMC are as under:

1. The selected agency will be responsible for repair / maintenance work of the Water Purifier 100 LPH installed at ICWA including cost of defective parts. To the extent possible, all repair and maintenance work would be carried out in ICWA office premises only. For this purpose, the agency will send their qualified service engineer at ICWA from 9.00 AM to 5.30 PM on working days and even on holidays or beyond office hours, if need arises.
2. All the complaints should be attended to and defects rectified immediately on receiving of the report and in any case on the day of reporting. In case the defect is major and it is not possible to rectify within a day, the problem should be reported to the concerned officer and a standby equipment should be provided within 48hrs. In case, there is delay beyond the estimated time then a charge of Rs. 200/- per day will be chargeable and this would be deducted from the bills directly. (Not applicable in case of Hardware failure)

3. The jobs which are not possible to be carried out in the office premises will be allowed to be done outside with due approval but without payment of any extra charges. For this, the agency would be required to provide standby equipment.
4. The rates once approved will not be enhanced by the AMC provider in any case during the currency of the contract.
5. No advance payment will be made in any case. The payment will be released on quarterly basis after making statutory deductions like TDS at the end of each calendar quarter and after securing a satisfactory certificate.
6. ICWA shall not be responsible for damages of any kind for any mishap/injury/accident caused to any service engineer of the AMC Provider while during work in ICWA premises. All liabilities, legal or monetary, shall be borne by the AMC Provider.
7. The contract can be terminated by ICWA at any time without assigning any reason. In this connection the decision of ICWA shall be final.
8. The contract may be terminated by the agency by assigning valid reason by giving a 2(Two) months notice so as to ensure that the alternate arrangements can be put in place.

Note:-

Sealed quotations should be sealed properly and super-scribed as quotation/2016-17 for comprehensive annual maintenance contract for Water Purifier . The name of firm should be mentioned on the envelope addressed to Deputy Director General, Indian Council of World Affairs, Sapru House, Barakhamba Road, New Delhi.

Performa for Submission of Quotation

To,
Deputy Director General,
Indian Council of World Affairs
Sapru House, Barakhamba Road
New Delhi – 110001.

Sub : AMC of Water Purifier 100 LPH (customize)

Dear Sir,

With reference to your enquiry Ref. संख्या:- आईसीडब्ल्यूए/बिल्डिंग/872/15/2008 Dated 21-10-2016, given below are our AMC charges for comprehensive annual maintenance charges for RO installed at ICWA.

Details of Technical Specification of Water Purifier 100 LPH are as under:

| <u>Flow Rate</u> | |
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| Feed Water | 600 LPH |
| Treated Water | 100 LPH |
| Reject Water | 500 LPH |
| <u>RAW WATER PUMP</u> | |
| Purpose | To feed the Dual Media Filter at pressure more than 2 operating pressure for filter. |
| Specifications | a) MOC: CI |
| | b) Type: Horizontal Centrifugal |
| | c) Flow Rate: 600 litres per hour |
| | d) Head: 35 m |
| | e) Power Required: 0.37 kw |
| | f) Electrical: 220 V, single phase, 50 hz |
| | g) Cycle: 2900 rpm |
| | h) Make: Kirlosker/C.G/CRI |
| | i) Quantity: 1 No. |
| <u>Multi Grade Filter</u> | |
| Purpose | To remove the total suspended solids, dirt, iron and re-index which can foul the membranes |
| Specifications | Vessel: a) Make: Pentair/EQUI. b) Material of Construction: FRP c) diameter: 250 mm d) Height: 1350 mm e) Testing Pressure: 10 Kg/cm ² f) Opening: Top only g) Quantity: 1 No. |
| | Valve: a) Make: Initiative, India b) Material of Construction: Nary c) Type: Multipart Single lever value d) Size: 0.5 inches e) Maximum Flow Rate: 1,800 LPH f) Working Pressure: 2-4 Bar g) Working: Down-Flow |

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| | <p>Media: Mixed bed sand media consisting of the following i) Gravel ii) Pebbles iii) Quartz Sand iv) Carbon Average Porosity 50 micron particular size Bed depth: 600 mm</p> |
| | <p>Pipelines & Accessories: Pipe of PVC 10 Bar tested pressure Testing cock & pressure gauges at inlet-outlet of system</p> |
| DOSING SYSTEM | |
| Purpose | To dose antiscalant chemical to protect the scaling for membranes. |
| Specifications | <p>a) MOC: PP b) Capacity: 5 LPH c) Pressure: 7 Bar d) Qty. : 1 No. e) Make: e- dose</p> |
| MICRON FILTER | |
| Purpose | To remove the fine particles up to 05 microns and rectify leves to acceptable level |
| Specifications | <p>Cartridge Filter & Housing Housing: a) Make: Initiative, India b) MOC of Housing: PP c) Length: 10" d) Diameter: 4.0" e) Quantity: 2 nos.</p> <p>Cartridge: f) Make: Filtermation, Malaysia g) Cartridge MOC: Polypropylene h) Length: 10" i) Diameter: 2.5" j) Quantity: 2 nos. k) Micron rating: 05 micron</p> |
| HIGH PRESSURE PUMP | |
| Purpose | To feed the Reverse Osmosis Membrane at pressure taking consideration flux rate, flow |
| Specifications | <p>a) Type: rotary vein positive suction pump b) Flow rate: 400 liters per hour c) Head: 400 O.T.</p> |

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| | <p>d) Electrical: 220 V, Single Phase, 50 hz e) Cycle: 2900 rpm f) Make: Raj / CRI</p> |
| RO MEMBRANE | |
| Purpose | To remove the major part of TDS up to 98% by Reverse arranged and designed to give adequate flow and rate |
| Specifications | <p>a) Type: Spiral Wounded b) Diameter of Membrane: 4.0 inch c) Length of Membranes: 1 Mt. d) No. of Membranes: 1 e) Recovery per Membrane: 10-15% f) Salt Rejection per Membrane: 98-99% g) Make of Membranes: RO SH/Dow/Hydronautics,US/ h) System Recovery: 17%</p> |
| RO PRESSURE TUBE | |
| Purpose | To pack reverse osmosis membranes and operate a 150 psi |
| Specifications | <p>a) MOC: FRP b) Diameter of Pressure Vessel: 4.0 inch c) Length of Pressure Vessel: 1.1 m d) No. Pressure Vessels: 1 e) No. of Membrane per vessel: 1 f) make : Imported g) Position: Horizontal, Series h) Arrays: 1 NO. i) Flushing: Solenoid Valve will be used.</p> |
| ELECTRICAL PANEL | |
| Purpose | A control panel is provided as a safety measure for 11 electrical items |
| Specifications | <p>a) Complete Starters b) Indicating lights c) Push Buttons d) Incomers, Auto-Manual Switches</p> |
| INSTRUMENTATION | |
| Purpose | <p>a) Flow Meter: To measure the online flow of water b) TDS Meter: To measure the online TDS of water c) Low Pressure Switch: To protect RO pump from</p> |

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| | <p>drainage</p> <p>d) High Pressure Switch: To protect RO pump from burned</p> |
| Specifications | <p>Rota Meter: Quantity: 2 Nos. (permeate & reject) Range: 200 lph-720 lph Make: Vats, India/equi.</p> <p>Digital TDS meter: Quantity: 1 NO. (permeate line) Range: 0-500 PPM Optional Features: Make: Vats, India</p> <p>Pressure Switch: Quantity: 2 NO. (Low & High) Range: 0-450 psi Make: Indfos, India</p> <p>Pressure Gauges: Quantity: 4 No. Range: 0-7 bar Dail Size: 2.5 inches Type: Bourdon Make: K.I/Guru, India</p> |
| Plumbing & Fittings | <p>a) Valves, pipelines before Ro modules is in pvc till the termination point.</p> <p>b) NRV's pressure relief valves, wherever needed</p> <p>c) The system will be on common MS base frame</p> |

We agree to all the terms and conditions specified in your enquiry Ref. संख्या:-

आईसीडब्ल्यूए/बिल्डिंग/872/15/2008 Dated 21-10-2016

Thanking you,

Rubber Stamp of the
Company

Yours faithfully,

Signatures _____

Financial Bid/Offer

| Description | Amount (Rs.) |
|--|--------------|
| Comprehensive annual maintenance charges for Water Purifier (100 LPH customized) All inclusive | |

Thanking you,

Rubber Stamp of the
Company

Yours faithfully,

Signatures _____