



भारत-अनुप-राष्ट्रीय उच्च सुरक्षा पशु रोग संस्थान
ICAR-National Institute of High Security Animal Diseases

(एवियन इन्फ्लूएंजा ओ.आई.ई. संदर्भ प्रयोगशाला)
(OIE Reference Laboratory for Avian Influenza)
आनंद नगर, भोपाल - ४६२०२२ (म.प्र.), भारत
Anand Nagar, Bhopal - 462022 (M.P.), India



EPABX Tel. No. 0755-2757542, 2750647, FAX: 0755-2758842, Website: www.nihsad.nic.in

F. No. 9-152/17-18/NIHSAD (P&S)

Dated: - 03.01.2018

TENDER NOTICE (Second Call)

Online Bids are invited from reputed & interested firms for Work/ Job Contract for **Operation & Maintenance of PLC and Steam Based Liquid Waste Sterilization Plant of Bio-Containment Facility (ABSL-3)** at ICAR Unit, NIHSAD, Bhopal for a period of one year and extendable by one more year subject to mutual agreement, as per its requirement. A demand Draft/FDR of Rs. 30,000/- as earnest money deposit (EMD) is to be made in favour of ICAR Unit, NIHSAD, Bhopal and may be addressed to Director, ICAR-NIHSAD, Bhopal.

1.	Details of Tender Deposits: -	
	Cost of Tender Form	Rs. 1000/- (Rupees One Thousand Only) (in shape of DD Only in favour of ICAR Unit, NIHSAD, Bhopal)
	Earnest Money Deposit	Rs. 30,000/- (Rupees Thirty Thousand Only) (DD/FDR)
	Security Deposit	10% of the total value of the contract (DD/FDR)

Tender Schedule (Critical date sheet)

Tender id	2017_DARE_272672_2
Tender No.	No. 9-152/17-18/NIHSAD (P&S)
Name of Organization	ICAR-National Institute of High Security Animal Diseases, Bhopal – 462022
Date and Time for issue/Publishing	03.01.2018 at 06:00 PM
Document Download/Sale Start Date and Time	05.01.2018 at 11:00 AM
Document Download/Sale End Date and Time	25.01.2018 at 05:00 PM
Pre Bid Meeting Date & Time	12.01.2018 at 11:00 AM
Bid Submission Start Date and Time	05.01.2018 at 11:30 AM
Bid Submission End Date and Time	25.01.2018 at 06:00 PM
Technical Bid Opening Start Date and Time	27.01.2018 at 11:30 AM
Price Bid Opening Start Date and Time	Will be intimated after scrutiny of technical bid
Address for Communication	Director, ICAR-NIHSAD, Anand Nagar, Bhopal – 462022 (M.P.) Website: - www.nihsad.nic.in

On-Line bids are invited under two-bid system (containing technical bid & financial bid) through e-procurement system of CPPP from registered/well-established / reputed firms for a period of one year and extendable by one more year subject to satisfactory performance at ICAR-NIHSAD, Bhopal.

The instructions for uploading the tender/quotation may be obtained from the website of CPP portal i.e. <http://eprocure.gov.in>.

In case, holiday is declared by the Government on the day of opening bids, the bids will be opened on the next working day at the same time. The Director, NIHSAD reserves the right to accept or reject any or all the tenders without assigning any reasons.

Please note that only online bids submitted through CPP Portal will be accepted. Technical Bid and Financial Bid (BOQ) should be uploaded separately.

**Adm. Officer
ICAR-NIHSAD, Bhopal**



भाकृअनुप-राष्ट्रीय उच्च सुरक्षा पशुरोग संस्थान
ICAR-National Institute of High Security Animal Diseases

(एवियन इन्फ्लूएंजा ओ.आई.ई. संदर्भ प्रयोगशाला)
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Anand Nagar, Bhopal - 462022 (M.P.), India



EPABX Tel. No. 0755-2757542, 2750647, FAX: 0755-2758842, Website: www.nihsad.nic.in

F. No. 9-152/17-18/NIHSAD (P& S)

Dated: - 03.01.2018

INVITATION TO ONLINE TENDER AND INSTRUCTIONS CONTAINING TERMS AND CONDITIONS FOR OPERATION & MAINTENANCE OF PLC AND STEAM BASED LIQUID WASTE STERILIZATION PLANT OF BIO-CONTAINMENT FACILITY (ABSL-3) FOR A PERIOD OF ONE YEAR ON JOB/ WORK CONTRACT BASIS AT ICAR-NIHSAD, BHOPAL AND EXTENDABLE BY ONE MORE YEAR SUBJECT TO SATISFACTORY PERFORMANCE OF THE VENDOR AND MUTUAL AGREEMENT.

From: - Director,
ICAR-National Institute of High Security Animal Diseases,
Anand Nagar,
Bhopal – 462022 (M.P.)

To

Dear Sir(s),

Online Tender are hereby invited on behalf of the Director, ICAR-NIHSAD, Bhopal for OPERATION & MAINTENANCE OF PLC AND STEAM BASED LIQUID WASTE STERILIZATION PLANT OF BIO-CONTAINMENT FACILITY (ABSL-3) FOR A PERIOD OF ONE YEAR ON JOB/WORK CONTRACT BASIS AT ICAR-NIHSAD, BHOPAL AND EXTENDABLE BY ONE MORE YEAR SUBJECT TO SATISFACTORY PERFORMANCE OF THE VENDOR AND MUTUAL AGREEMENT.

1. The terms and conditions of the contract are those contained in the general conditions of contract applicable to the contracts placed by the ICAR-NIHSAD as detailed in the tender forms and its schedules. Please submit your rates in the tenders form if you are in a position to provide the requisite services in accordance with the requirements stated in the attached schedules.
2. Earnest money of Rs. 30,000/- and Rs. 1,000/- as cost of Tender form must be deposited in the form of demand draft/FDR to ICAR Unit, NIHSAD, Bhopal **in person to Director, ICAR-NIHSAD, Bhopal on or before the last date/time of submission.** The particulars of the earnest money deposited must also be super scribed on the top of the envelope by including the demand draft/FDR number and date failing which the bids will not be accepted. Conditional bids shall not be considered. No overwriting or cutting is permitted in the tender documents. Such bids will be rejected outright.
3. The tenderer is being permitted to give tenders in consideration of the stipulations on his part that after submitting his tenders, he will not resale from his offer or modify the terms and conditions thereof. If the tenderer fails to observe and comply with the foregoing stipulations, the aforesaid amount of EMD will be forfeited by the NIHSAD. In the event of the offer made by the tenderer not being accepted, the amount of earnest money deposited by the tenderer will be refunded to him

- after he has applied for the same, in the manner prescribed by the ICAR-NIHSAD, Bhopal. An undertaking as per Annexure - II, is also required to be submitted by the tendering firm.
4. The Schedules of the tenders form should be uploaded with online technical bids. In the event of the space provided on the schedule form being insufficient for the required purposes, additional pages may be added. Each additional page must be numbered consecutively and be signed in full by the tenderer. In such cases, reference to the additional pages must be made in the tender form. If any modification of the schedule is considered necessary it should be communicated by means of a separate letter along with the tenders.
 5. The tenders are liable to be ignored if complete information as required is not given therein or if the particulars asked for in the schedules to the tenders are not fully filled in. Individual signing the tenders or other documents connected with the contract may specify whether he signs it in the capacity of (i) a sole proprietor of the firm or constituted attorney of such sole proprietor, or (ii) a partner of the firm if it be partnership in which case he must have authority to refer to arbitration dispute concerning the partnership whether by virtue of the partnership agreement or power of attorney or (iii) constituted attorney of the firm if it is a company.
 6. If a tenderer does not accept the offer, after issue of letter of award by ICAR-NIHSAD within 15 (Fifteen) days, the offer made shall be deemed to be withdrawn without any notice & earnest money forfeited.
 7. In case of partnership firms, where no authority has been given to any partner to execute the contract/agreement concerning the business of the partnership, the tenders and all other related document must be signed by every partner of the firm. A person signing the tender form or any other documents forming part of the contract on behalf of another shall be deemed to warranty that he has authority to bind such other and if, on enquiry it appears that the persons so signing had no authority to do so, the ICAR-NIHSAD shall without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all costs and damages. Each page of the tender and the schedules to the tender and annexure(s), if any, should be signed by the tenderer and should be uploaded along with technical bid.
 8. Online tenders are invited under two-bids systems through e-procurement system. **EMD must be deposited with Director, ICAR-NIHSAD during working hours i.e. 10:00AM to 5:00 PM on all working days (except Saturday, Sunday and Gazetted Holidays) before the last date/time for submission of bids, failing which bids will not be accepted. EMD must be in the form of Demand draft/FDR in favour of ICAR Unit, NIHSAD, Bhopal.**
 9. Tenders will be opened online by the authorized officer(s) on 27.01.2018 at 11:30 AM. Bidders have two options to participate in tendering process at the time of opening of Bids. Bidders can come at the place of opening of bids (electronically) as done in the conventional tender process or he can visualize the process online without physically being present at ICAR-NIHSAD.
 10. The financial bid (BOQ) will be opened for the technically qualified tenderers only. The date of opening of financial bid would be intimated to technically qualified tenderers.
 11. Tenderer is at liberty to be present or to authorize a representative to be present at the time of opening of the tenders. The name and address of the representative who would be attending the opening of the tenders on your behalf should be indicated in your tender. Name and address of permanent representative of the tenderer, if any, may also be indicated.
 12. An amount equivalent to 10% of the total contract value of contract is to be deposited by the selected agency/successful tenderer as Performance Security Deposit only after receiving a communication from the NIHSAD. In the event of non-deposition of the same, the earnest money will be forfeited.
 13. No interest on security deposit and earnest money deposit shall be paid by the NIHSAD to the tenderer.

14. The bid validity period is 180 days from the date of opening of technical bid.
15. The amount of basic wages & VDA notified by the Labour Commissioner, Jabalpur (M.P.) effective from 1st October 2017 (vide circular No. J-92(1)/2016 E.S.III dated 14.03.2017) is the minimum base and the tenderers are at liberty to quote any rates above the minimum indicated therein, keeping in view any increase in wages/VDA in April & October each year. The bid of those tenderers shall be summarily rejected who quote less than the minimum wages rate and other statutory payments prescribed by Law. The tendering agency shall be responsible for compliance of all statutory provisions relating to minimum wages, EPF & ESI in respect of personnel deployed by it to this office. All such statutory requirements must be incorporated while quoting the rate.
16. The Firm will not charge placement charges or any other amount from the manpower deployed with NIHSAD from the payment to be made to the outsourced staff as per quoted rates. The contract is liable to be terminated, security deposit forfeited and the Contractor/Firm will be blacklisted if, at any stage, reports are received that the Contractor/Contracting Firm has charged the manpower on any account.
17. Service Charges are to be mentioned separately by the Tendering Firm.
18. Income Tax (TDS) which is as per the rules of the Government shall be deducted at source from monthly bills of the successful tenderer, as per rules/instructions made applicable from time to time by government.
19. In accordance with O.M. No. 29(1)/2014-PPD dated 28.01.2014 of Department of Expenditure, Ministry of Finance, bids quoting 'Nil' or unfeasible consideration/service charges shall be treated as unresponsive and will not be considered.
20. Decision of Director, ICAR-NIHSAD shall be final for any aspect of the contract and binding on all parties. Disputes arising, if any, on the contract will be settled at his level by mutual consultation and in case of failure of settlement, dispute shall be referred to the sole arbitrator to be appointed by the Director, ICAR-NIHSAD. The decision of the sole arbitrator so appointed shall be final and binding on the parties. Arbitration proceeding shall be governed by the Arbitration & Conciliation Act, 196 as amended from time to time.
21. Acceptance by the Director, ICAR-NIHSAD will be communicated by fax/express letter or any other form of communication. Formal letter of acceptance and work order of the tenderer will be forwarded as soon as possible, but the earlier instructions in the fax/express letter etc. should be acted upon immediately.
22. The Director, ICAR-NIHSAD does not pledge itself to accept the lowest or any tenders and also reserve to itself right of accepting the tenders whole or in part keeping in view valid reasons Conditional tenders will not be accepted.
23. The Director, ICAR-NIHSAD in its capacity as Principal Employer, reserves the right to modify any of the terms and conditions of the contract as mentioned in the Schedules I, II & II(a) of this document, at its discretion, in the interest of the job/work.
24. Successful Bidder/tenderer will have to enter into a detailed contract agreement with ICAR-NIHSAD on non-judicial stamp paper of Rs. 500/- (Five Hundred Only) for work.
25. The following documents/vouchers are required to be uploaded with the technical bid [Schedule-I, II & II(a)]: -
 - a. Scanned copy of DD/FDR of earnest money deposit (EMD) and tender cost form.
 - b. Scanned copy of Registration Certificate of the firm.
 - c. Scanned copies of EPF and ESI Certificate issued by the local Government Office.

- d. Scanned copy of experience of operation and maintenance of PLC AND STEAM BASED LIQUID WASTE STERILIZATION PLANT for atleast 2 works of one year duration each in last 5 years in Govt/PSU/Autonomous bodies/Local Govt./Reputed Process Industries.
- e. Scanned copy of balance sheet of the firm to fulfill the requirement of minimum average turnover of the firm not less than Rs. 15 Lacs during the last three years.
- f. Scanned copies of Income tax and GST registration certificates.
- g. Scanned copies of PAN Number.
- h. Scanned copies of MSE (Micro & Small Enterprises) in related service/business, if applicable. The MSE firms are exempted from tender cost as well as EMD subject to submission of their valid registration certificate.
- i. An undertaking as per attached Format (Annexure – II) duly attested by Notary on a non-judicial stamp paper of value of Rs. 500/- (Rupees Five Hundred Only) regarding their non-blacklisting by any of the Government Departments, Public Sector Undertakings and/or by Central Vigilance commission during the last three years. **Original undertaking should be submitted along with EMD.**

Only those firms who qualify in the technical bid will be considered for financial bid.

Financial bid (BOQ) should be uploaded separately.

Yours Sincerely,

Adm. Officer

For and on behalf of the Director
National Institute of High Security Animal Diseases
Anand Nagar, Bhopal – 462 021 (M.P.)

TENDER FOR THE AMC OF PLC AND STEAM BASED LIQUID WASTE STERILIZATION PLANT OF BIO-CONTAINMENT FACILITY (ABSL – 3) ON JOB/WORK CONTRACT BASIS

Full Name & Address of the Tenderer in :
addition to Post Box No. if any, should be
quoted in all communications to this office
Telephone No. :
Fax/Mobile No. :
E-Mail address :

From
.....

To
The Director,
National Institute of High Security Animal Diseases,
Bhopal – 462021 (M.P.)

I/We have read all the particulars regarding the General information and other terms and conditions of the contract for and agree to provide the services as detailed in the schedule herein or to such portion thereof as you may specify in the acceptance of the Tender at the rates given in this Tender and I/We agree to hold this offer open till 180 days. The rates quoted will be valid for a period of one year in the event of award of the Contract.

1. I/We shall be bound by a communication of acceptance dispatched within the prescribed time.
2. I/We have understood these terms and conditions for the contract and shall provide the best services strictly in accordance with these requirements.
3. The following pages have been added to and form a part of this Tender. The Schedules – I, II, II(a) and III are accompanied with this Tender.
4. Every page so attached with this Tender bears my signature and the office seal.
5. DD/FDR No..... dated..... of Rs. drawn in favour of ICAR Unit, NIHSAD, Bhopal and payable at SBI HET, Piplani Branch, Bhopal enclosed as earnest money required.

Yours faithfully,

Signature & Seal of the Tenderer
Telephone No. Office

Name of the Witness _____ Resi.....
Occupation _____(alongwith Address Proof) Mobile
Address _____
Signature of witness to contractor’s signature
Address:
Name & Signature of Witness:
Address:

Signature of the tenderer.....

SCHEDULE – I**SCHEDULE TO TENDERS**

Part – I

1.	Name of the Firm/Agency	
2.	Full Address with PIN Code Telephone No. /Mobile No.	
3.	Constitution of the Firm/Agency (Attach copy) Indian Companies Act of partners any other Act, if not, the owners	
4.	For partnership firms whether registered under the Indian Partnership Act, please state further whether by the partnership agreement to arbitration has been conferred on the partner who has signed the Tender.	
i)		
ii)	If answer to the above is in negative whether there is any general power of attorney executed by all the partners of the firm authorizing the partners who have signed the Tender to refer dispute concerning business of the partnership to arbitration.	
iii)	If the answer to above point one and two is in the affirmative please furnish a copy of either the partnership agreement or the general power of attorney as the case may be. The copy should be attested by a Notary Public or its execution would be admitted by affidavit on a properly stamped paper by all partners.	
5.	Name and full address of the Banker	
6.	Permanent Income Tax (PAN) no./Circle/Ward	
7.	Any other relevant information	

Signature of the tenderer.....

Part – II

8.	Earnest money Deposited:	Yes
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Part – III

9.	Name and Address of the firm's representative and whether the firm would be representing at the opening of the Tenders	
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10.	Name of the Permanent Representative visiting NIHSAD, Bhopal regarding the contract	
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Date: - _____

Place: - _____

AUTHORISED SIGNATORY

PART – IV

List of Documents to be submitted by the Bidder in Technical bid

Sr. No.	Documents required	Yes/No	Page No.
1	Cost of Tender Form		
2	EMD in shape of DD/FDR/Banker's Cheque detailed on the envelope		
3	PAN Card in the name of firm/proprietor		
4	ESI Registration No. alongwith valid certified copy thereof		
5	EPF Registration No. alongwith valid certified copy thereof		
6	Firm should be Registered under company act or any other concerned authorities of Central Government/State Government or under company Act or any other Act essential for carrying out similar job work and copy of relevant certificate needs to be submitted		
7	Experience Certificate/List of contract (in this field) of last five years in tabular form. Enclose scanned copy of certificate of satisfactory performance from clients. Experience of working with ICAR/GOI/State Government, Autonomous bodies, Public sector undertaking/local bodies only will be preferred & considered.		
8	Average turnover of the firm not less than Rs. 15.00 Lacs (Rupees Fifteen Lakhs Only) during the last three financial years as reflected in certified Trading & P&L Account, Certified copies of Trading and P&L Account and Balance Sheet of the firm for last three years of the service contract by the chartered accountant should be furnished.		
9	Other related documents, photocopy of Banker details alongwith name of bank and Account No. and Address proof etc.		
10	GST registration certificate issued by the Government etc.		
11	If any agency is exempted from depositing of the above documents a copy of supporting government orders should be enclosed.		
12	The contractor/agency must have a registration with the relevant shop and Estt. Act. Of Labour Department.		
13	Number of staffs/supervisor registered under ESI/EPF contributions (staff/supervisor) required with ESI/EPF Department		

Signature of the tenderer.....

Annexure – I**Details of the Minimum 2 Works Experience of one year each during last 5 years.**

Sr. No.	Name of the Deptt. Organization & Name of Contact Person with Ph. No.	Period		No. of Staff deployed	Remarks
		From	To		
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					

(Authorized Signatory)

SCHEDULE – II**1. Eligibility Criteria: -**

1.1 Essential qualification:-

- a. Experience of at least two works of one year each in operation & maintenance of PLC and steam based liquid waste sterilization plant of minimum processing volume of 10 m³ liquid per day during last 5 years in Govt/PSU/Autonomous bodies/Local Govt./Reputed process industries.
- b. Scanned copy of satisfactory past performance certificate from the clients as specified above (1.1a).

2. Process Description: -

- 2.1 All the contaminated water coming from the containment laboratory and animal wings collected in the basement is to be steam sterilized before release to outside. Per 24 hours, an estimated volume of about 20 M³ will have to be treated. Each wing is provided with a storage tank for sewage water with a volume of about 15 M³ each. The tanks serve as collecting and storing effluent for a short period. Final sterilization is done in batch sterilizers. Apart from the storage/ collecting tanks in the basement of each wing, the installation has two mixing tanks, which temporarily can serve as extra storage capacity in case of emergency. To reduce the risk of total breakdown, all critical components are double and can take care of the total capacity.
- 2.2 Under natural flow the sewage water is transported to one of the main storage tanks located under each wing. Each tank is provided with two transporting pumps, controlled by level controls in each tank, for transferring the sewage water to the mixing tanks in the sewage treatment unit. The sewage is mixed in the mixing tank before being discharged to the batch sterilizers. For the transport to the six batch sterilizers, monopumps are used in combination with a blender device (for cutting of longer particles/straw/fibres etc.) to protect pumps and valves.
- 2.3 After the mixing and preheating in the mixing tank, the effluent is automatically pumped to batch sterilizers, where after being filled to the maximum level; a sterilization process starts automatically and sterilizes the contents of the batch sterilizer at 121⁰C for 30 min. This takes about 90 minutes, followed by a final check before being discharged to a lagoon outside the building. As mentioned already, the discharged material has to pass a serpentine in the mixing tanks to cool down to a safe temperature for discharging and for saving energy by heating up the contents of the mixing tank, still to be sterilized.
- 2.4 The calculated temperature of the sterilized effluent, and after having passed this serpentine, will be about 70⁰C.

3. Scope of Work:-

- 3.1 **Sterilization:-** The contaminated water from the containment laboratory and animal wing is to be sterilized at 121⁰C for 30 minutes before releasing to outside. The minimum of 15-20 M³ will have to be sterilized daily. In case the effluent is more, then the system to be run till the effluent is exhausted. If the need arises then even the

systems is to be run on Sunday/holidays/National Holidays. The work also involves the maintenance/repairs of the Plant/Instruments/PLC/Piping (SS/HDPE/MS) tanks/Pumps/ Marcerators/ Control valves etc. Pipe includes compete piping in the liquid waste sterilization plant coming from the ceiling of ground /1st floor.

3.2 List of Equipment/Instruments to be maintained under contract.

1.	M/s. Storage Tank 15 M ³ Capacity with agitators,	2 Nos.
2.	S. S. Mixing Tank with agitator 6 M ³ (With one serpentine bypassed from the heat recovery system)	2 Nos.
3.	S. S. Sterilization Tank with safety valves 0.5 M ³	6 Nos.
4.	Effluent Transfer Pumps	4 Nos.
5.	Allweier make Macerators (Cutter)12 M ³ /hr (Motor coupled with a cutter)	2 Nos.
6.	Screw Pumps (Rotomac make) & pot strainers	4 Sets
7.	PLC Panel (Allen Bradley SLC 500 TM PLC Modular Hard ware)	1 No.
8.	PCC cum MCC Panel	1 No.
9.	Instrument Control Panel	1 No.
10.	Sapcon Make HI-LO Level Controllers	4 Sets
11.	Pressure Switches (Steam line) (Switzer make)	2 Nos.
12.	Pressure Switches (Air Line & Sterilizers) (Switzer make)	8 Nos.
13.	Smart Pressure Transmitter (Honeywell)	6 Nos.
14.	Smart Temperature Transmitter (ABB, CG HARTMAN & BRAUN Ltd make)	16 Nos.
15.	Differential Pressure Switches (make – VARMATRAFG)	8 Nos.
16.	Capacitance type continues level controller (sapcon make)	8 Nos.
17.	I/P Converters (Moore controls make)	8 Nos.
18.	Annunicator with Hooter	2 Sets
19.	PID Controller (make - Yokogawa)	6 Nos.
20.	Digital Recorder for Temp. & Pressure (Yokogawa)	2 Nos.
21.	Digital level Controller (On-Off 3Set Point) Nishko μ CS2000	7 Nos.
22.	Temperature Controller (On-Off 3 Set Point) Nishko μ CS2000	4 Nos.
23.	D. C. Power Supply (make - AGRONIC ELNT)	1 No.
24.	50 NB Modulating control valves with actuators (make – Keystone/Aira)	6 Nos.
25.	15 NB On- Off Control Valve with actuators/25NB ON-OFF (make – Keystone/Aira)	6Nos./1No.
26.	50 NB On- Off Control Valve with actuators (make - Keystone/Aira)	57 Nos.
27.	Air Pressure Regulator Cum filter (make- Janatics India)	14 Nos.
28.	Acid charging pump (make - CG pumps)	1 No.
29.	CCTV monitoring system consisting of -	
A.	Computer Server with Intel Pentium – VI 2.8GHz HT technology, processor, 80GB SCSI HDD, 2x15 MB DDR RAM, 1 MB Cache 48x DERW, IEEE ports, USB ports, 10/100 MBPS Ethernet port – 2 nos. Iomega REV 35 GB back up drive – 01 no. MS XP professional.	1 No.

	Make: IBM	
B.	Computer with Intel Pentium-IV 2.8 GHz HT technology processor, 40GBHDD, 256 MBDDR RAM, 1 MB Cache, 48X CDRW, IEEE ports, 10/100 MBPS Ethernet port – 2 nos. iomega REV 35 GB back up drive – 1 no. MS win XP professional. Make: IBM	1
C.	Computer with Intel Pentium – IV 2.8GHzHT technology processor, 40GBHDD, 256 MBDDR RAM, 1 MB Cache, 48X CDRW, IEEE ports, USB ports and derail ports, 10/100 MBPS Ethernet port – 2 nos., 19” Flat colour monitor, Optical Scroll mouse and keyboard, Microsoft Windows XP professional, Rapid Restore Ultra, Embedded security sub system, system migration assistant. Make: IBM	1 No.
D.	Printer all in one (Colour) HP inkjet	1
E.	Loop controller with the following features: 8 channel universal input programmable PID loop controller, Serial/ OPC interface, Isolated inputs, Fast dynamic action control, Local LCD display Make: Installed by Cadtrack Digital Systems, Hyderabad	1
F.	Analog I/O interface module with features like: 40 channel universal programmable analog input modules, Serial/OPC interface, Local LCD display. Make: Installed by Cadtrack Digital Systems, Hyderabad	1
G.	UPS with the following specs: 2 KVA online with maintenance free tubular batteries 1 hr. backup.	1
H.	Basement visual inspection with the following equipment set: Samsung CCTV camera with rotary drive – 3 nos, CCTV monitor/ mixer/ amplifier – 1 No. 32” colour LED TV (Panasonic) – 1 No.	1
i.	Software: SCADA Software Make: Merz	1 Set
J.	Interconnecting software for I above Make: installed by Cadtrack Digital System, Hyderabad	1 Set
K.	Electrical Panel in Control Room & PLANT Area for SCADA remote operation	2 Sets

3.3 **De-rusting & painting** as per need with red oxide/enamel paint shall have to be carried out by the bidder. The material required will be made available by NIHSAD.

3.4 **Calibration of important instruments (Digital level indicator & controller 07 nos.; Digital temp. indicator controller rtd 06 nos.; Temperature transmitter 16 nos.; Pressure switch 06 nos.; Pressure transmitter 06 nos.; Digital temperature recorder 01 no.) are to be calibrated twice in a year (half yearly) by NABL approved external agencies with duly certified standard test instruments and equipments. Calibration reports are to be submitted.**

3.5 **OPERATION**

As the basic purpose is to prevent the escape of pathogens from the laboratory to the environment, system must run. The readings are to be recorded on daily basis in the log

book made available by NIHSAD while operating under semi automatic mode for each sterilizer.

3.6 **MAINTENANCE**

In addition to the operation of various equipments and machineries, the bidder is required to maintain them in perfect working condition. This including, being the contractual obligation repair and both preventive and general maintenance. In addition to these the bidder is also responsible for up keeping of various equipments related to liquid waste sterilization Plant.

Repair & maintenance of all piping systems carrying air, water steam associated with liquid waste sterilization plant (like airline and associated valves, steam, traps etc within the liquid waste sterilization plant area.) Sterilized effluent line upto the lagoon area (outside the inner boundary). HDPE Pipe line from lab outlets to storage tanks is also in the scope of contractor. [Safety valves; 14 Nos., Steam Traps; 14 Nos., are inclusive]

3.7 **Preventive maintenance activities include:**

(To be recorded in maintenance register)

3.7.1 **Daily Checks:**

Visual inspection of leakage of effluent from the pipe lines (Entire HDPE and SS pipe line, flanges, elbows, P traps etc. coming out from the ceiling of basement floor.

Visual inspection of any leakage of effluent from the sterilizers, storage tanks, mixing tanks, pumps associated with liquid waste sterilization plant.

Visual inspection of Electricals control panel, cable terminations, motor terminals for any loose connections, carbon deposition etc.

Records of sterilization temperature and time for each cycle.

3.7.2 **Weekly Checks:**

Besides, the above checks all probes, sensors, thermo wells alongwith their terminals.

3.7.3 **Monthly Checks:**

Besides, the above checks, the following are to be checked.

All P/S traps alongwith their flange connections are to be checked and cleaned for clearing of blockage.

The contractor can do this job by dividing this job equally in four parts and do in a weekly job.

3.7.4 **Maintenance of Logbook:** - Logbooks are to be maintained by the contractor Record & maintenance of logbook are to be kept chronologically along with record of preventive work, breakdown maintenance etc.

3.7.5 **Spares:** - All the spare of instruments/ equipments/ gauges/ fuses/ coils/ relays/ contractors/ pumps spares required for maintenance/repair would be provided by NIHSAD free of cost. The contractor has to give the list of spares required for repair well in advance.

- 3.7.6 **List of consumable & other items under contractor's scope (Note: - The bidder should take note of this while bidding)-**
- a). **All types of nut bolt (SS & MS), washers, gasket, gland rope, rubber bush, teflon tape, toughened glass for sterilizer tanks, insulation tape, M-seal, RTV sealent, all type of cable lugs, glass fuses, V belts etc.**
 - b). **Grease and gear oil.**
 - c). **Rewinding and repairing of motors (material, labor charges and transportation all inclusive).**
 - d). **All type of machinery and welding work is under contractor scope.**
- 3.7.7 **Repair of Equipment** – Equipment which cannot be repaired at site is to be got repaired from the manufacture or their authorized service agent by the bidder. For repair, cost of spare parts/ replaced parts plus taxes on it will be reimbursed by NIHSAD. But the transportation charges & repair charges plus taxes if any will be borne by the bidder.
- 3.7.8 **Tool & Tackles** – All the Tools and Tackles, Welding machines, Safety gadgets (Safety Helmets, Ear Mufflers, Hand Gloves, Eye Goggles, gum boots, Industrial safety shoes etc.) are to be provided by the successful bidder to their staff at NIHSAD site.
- 3.7.9 **Testing: - All Steam lines pipes & pressure vessels are to be tested as per BIS specification or 1.7 times the working pressure once a year.**
- 3.7.10 **Operational Requirement : Manpower**
Manpower for operation of liquid waste sterilization plant requires thorough knowledge of liquid waste sterilization plant & laboratory working procedures therefore the manpower should not be changed frequently and should work under the guidance of NIHSAD engineers and Biosafety Officer or his nominee. Any change in staff should have prior approval of competent authority.
- 3.7.10.1 **Requirement and qualification of contractual staff to be engaged to carry out the scope of work for 4 work points: -**
- a). **Work points with requirement of supervisory work (Skilled) – 01 No.** – Diploma in Electrical/Electrical & Electronics /Mechanical / Instrumentation Engg. with atleast 3 years of experience in similar processing plant.
- OR**
- ITI in Electrical/PPM/Mechanical Trade with NCVT certificate having atleast 5 years of experience in similar processing plant.
- b). **Work points with requirement of operator cum mechanic persons (Semi Skilled) – 3 nos. with 3 different trades** – ITI in Electrical/Electronics/Mechanical/Fitter/Instrumentation/PPM (process plant maintenance) Trade with NCVT Certificate having atleast two years experience in similar process plant.
- The staff engaged in general shift also assist in general maintenance, repair works, upkeep and maintenance of all the fixtures, floors, roof walls removing of Jalis etc. In case of any lapse on duty and malfunctioning of the system, bidder is liable to face action under the ICAR regulations and bio-safety norms of the Institute.
- If any Supervisor/Operator cum Mechanic is absent alternative arrangements have to be made for smooth functioning of the system. Person working at NIHSAD should not be

used for other site work.

3.7.11 **Special Notes: -**

1. NIHSAD will not be responsible for any injuries, accident to the contractor's employees which may occur during the course of operation/ negligence in performing the duty.
2. **All the staffs will be provided by the contractor at least one pair of shoes and two sets of uniform (dungaree/ overall combination) of blue colour on Annual basis (colour shade sample will have to be produced to the Competent Authority for acceptance). No operator/assistant operator will be allowed to work without uniform, shoes, and other prescribed safety gadgets required essentially to carry-out the job. They should also be issued photo identity-cards by the contractor. The logo and name of the firm should be embroidered in uniform along with the Identity card. No employee will be replaced/changed without the consent/intimation of the NIHSAD's Authority.**
3. If any damage to the equipment/buildings and other connected accessories which will be handed over to the successful bidder (the property of the NIHSAD), the cost may be debited accordingly over and above penalty.
4. The bidder must clearly mention in their technical offer the number of persons skill-wise, they are going to hire for regular work, keeping in mind weekly off, national holidays and men in pair working at liquid waste sterilization plant on basement floor.
5. Two men safety rule shall be followed all the time in liquid sterilization plant area. New firm must see the facility before participation.
6. Contractor should deploy contractual manpower in such a way that all of their staff gets weekly off, and other paid holidays like 26 January, 15 August and 2nd October. At least 2 nos. of staff should be available for preventive maintenance during Sunday and holidays except National Holidays.
7. Whenever a technician/expert is hired, the firm should inform in writing giving their name address and phone number well in advance through I/c. liquid sterilization plant to the administrative officer.
8. The operators shall maintain logbooks under their care and all complaints and jobs taken care shall be recorded. These books shall be shown to NIHSAD authorities and got it signed at the end of the day.

OTHER TERMS & CONDITIONS

1. The contract is subject to the condition that the tenderer will comply with all the laws and acts of Central Govt., State Govt. relating to this contract made applicable from time to time.
2. The persons so provided by the agency under this contract will not be the employee of the NIHSAD and there will be no employer-employee relationship between the NIHSAD and the person so engaged by the contractor in the aforesaid services.
3. For this Contract, water and electricity will be provided by the institute. It is presumed that the bidder has assessed all the requirements of manpower/materials/logistics/taxes etc. thoroughly before participating in the tender process and the tender quoted cost is lumpsum in respect of all these items/services and therefore no request for any alteration/hike in the rates once quoted would be entertained within one year from the date of award of tender. None of the other requirements including stationary items would be provided from the institute.
4. The contractor will discharge all his legal obligations in respect of the workers/supervisors to be employed/deployed by him for the execution of the work in respect of their wages and service conditions and shall also comply with all the rules and regulations and provisions of law in force that may be applicable to them from time to time.
5. The contractor shall indemnify and keep indemnified the NIHSAD from any claims, loss or damages that may b cause to it on account of any failure to comply with the obligations under various laws. In case of any dispute the decision of Director, NIHSAD shall be final and binding on the contractor.
6. The service provider/contractual staff should have adequate literary knowledge to cope up with the smooth operation of work.
7. To have proper coordination in working, the Contractor/Service provider Agency authorities would visit the working areas frequently and contact the concerned In-charge officers/administration for any clarification if required.
8. The contractor must employ adult contractual staff (21 – 58 years) only. Employment of the child labour shall lead to the termination of the Contract.
9. Any change in contractual worker should be done in consultation with NIHSAD authority. Abrupt and unjustified changes will not be accepted.
10. All the Contractual Services Staff should follow strict attendance and alternative arrangements are to be made by the agency to keep all the work points to be in operation by the substitute if any contractual worker leaves the point.
11. The selected agency shall provide the necessary personnel to NIHSAD as per labour acts prevalent as per GOI or M.P. whichever is applicable. The agency shall employ good and reliable Contractual persons with good health. In case any of the personnel so provided is not found suitable by the NIHSAD, the NIHSAD shall have the right to ask for his replacement without giving any reason thereof and the agency shall on receipt of a written communication will have to replace such persons immediately.
12. The shift contractual staff should not leave their points vacant unless and until the reliever comes for shift duties, supervisor will maintain all the registers, which are kept at concerned Section.
13. The contractor shall not sublet the work without prior written permission of the NIHSAD.
14. The contractor or his workers shall not misuse the premises allotted to them for any purpose other than for which the contract is awarded.
15. The contractor shall keep a complaint register with his supervisor, and it shall be open to verification by the authorized officer of NIHSAD for the purpose. All complaints should be immediately attended by the Agency.

16. All the contractual workers should maintain discipline, punctuality and obedience in the campus. Any misconduct would entail the administration to instruct the contractor to replace the person immediately.
17. Payment to the Contractor will be made on monthly basis. The sequence of payment would be as given below.
 - a. Payment to the contractual staff shall be done by the contractor through BANK TRANSFER in their account on or before 10th of each month, right from the first month.
 - b. The contractor then shall submit the claims of such payments to the institute alongwith proof of BANK TRANSFER, payment towards EPF, ESI, GST and other statutory payment etc. The mode of payment and challans etc. should be transparent so as to prove their authenticity. In case of quarterly payment such proof shall be submitted in subsequent month.
 - c. Upon verification of records as mentioned above and the attendance of contractual persons, the administration would release the payment via BANK TRANSFER in the account of contractor.
 - d. In no case, release of payment should be linked to payment to contractual workers which must be done before 10th day of each month.
 - e. Income Tax (TDS) will be deducted from the payments due for the work done as per rule.
 - f. The contractor will have to provide the details of (individual wise) EPF deposition with the concerned department and copy of the detailed list obtained from the EPF department/website should be submitted as a supporting document alongwith the bill of the succeeding month. Similarly, firm should also provide evidence towards depositing the relevant amount towards ESI with details.
 - g. The contractor will have to give revised minimum wages with other statutory liabilities as and when the minimum wages are revised during the currency of the contract. Normally, wages are revised during April and October every year. It is expected that the bidder/contractor has taken into account such changes (increase) in the wages and will pay to the labourers/workers such revised wages from the date they become effective. NIHSAD will not pay any extra money to the contractor for such revisions but shall ensure that revised wages are paid to them at stipulated dates.
 - h. The Institute will not be responsible either to the Contractor or to its workers deployed at this Institute for any medical assistance/injuries/death or any kind of loss occurred to contractual labours.
18. The Director, NIHSAD reserves the right to reject any or all tenders/quotations in whole or in part without assigning any reason thereof. The decision of Director, NIHSAD shall be final and binding on the Contractor/Agency in respect of clause covered under the contract.

Signature of tenderer.....

**INSTRUCTIONS TO CONTRACTOR FOR STATUTORY COMPLIANCES FOR
WORK CONTRACT**

1. **Statutory registration and clearances**

Contractor shall commence the work only after obtaining valid Labour License, independent provident fund no., ESI Registration no., and Income tax no. and clearance certificate in respect of provident fund, ESI and Income tax from respective enforcement authorities.

IDENTITY CARD

2. Contractor shall provide to each of his employee an Identity card which shall have his photograph verified by contractor, his name, place of work and name of the contractor.

3. **Statutory obligation**

3.1 Contractor shall engage only adult security personnel (preferably in the age group of 21 years and 58 years).

3.2 Contractor shall abide local laws.

3.3 In case a contractor deploys women worker obligation under women's law – should be followed.

4. **PF & ESI Contribution & Return**

4.1 PF & ESI contribution of workers engaged shall be borne by the contractor as per laws/ rules in force & shall produce papers/ records whenever asked to do so.

4.2 Contractor shall fully comply all other formalities as per the PF & ESI statutory provisions and submit a copy of the challans etc. to NIHSAD for replying to statutory authorities in case of any complaints.

4.3 Verification of the character and antecedents of new workers from police authorities are to be got done by the contractors and should submit to the office before commencement of AMC. In case of old workers, these certificate should be renewed every 3 years.

5. **Medical care in case of accident**

5.1 The agency shall agree to get all the staff members insured against any liabilities arising under the workman's compensations act or under the common law. This aspect shall not be a liability on the part of the Institute in any case

5.2 It is responsibility of contractor to undertake necessary care and make arrangement for transportation and the treatment of his worker.

5.3 Contractor should assist and guide his workers.

6. **Supervision**

Contractor shall engage or nominate a supervisor as per the scope of work defined in the tender to supervise and control his workers at the work spot during execution of

work for effective supervision. They will also identify their worker and regulate entry at gate at the time of entering and leaving the premises.

7. **Payment of wages**

7.1 Payment shall be made by the contractor to his workers as per their category & nature of work which shall not be less than the rates declared from time to time under Minimum wages Act. As per Central Govt.

8. **Safety and disciplinary action**

8.1 Contractor shall ensure that his workers do not indulge in any unsafe or hazardous activities. They use safety equipment such as safety belts, safety shoes, goggles, helmets and masks where use of such equipment is required in day-to-day operations. All such safety gadgets will be provided by the contractor.

9. **Records & information to be furnished by contractor**

9.1 Contractor shall maintain neatly, completely and legibly registers, records, reports and returns for inspection by various authorities at short notice.

9.2 Contractor shall submit the details of work awarded to him by other department indicating work order No., nature of work etc.

10.0 After award of AMC the successful bidder has to deposit 10% performance security with agreement before starting the work. In case of a new contractor taking over AMC, the new contractor has to depute his staff to acquaint with the working of the machinery at least 15 days before actual taking over the work. He will not be allowed to start work before the agreement signing, payment of the security deposit etc.

Schedule – II (a)**CHECK LIST (TECHNICAL BID)****SUMMARY OF COMPLIANCE TO REQUIREMENT OF TENDER**

Sr. No.	Description of requirement	Yes/No	Page No.
1.	Essential a. Experience of at least two works of one year each in operation & maintenance of PLC and steam based liquid waste sterilization plant of minimum processing volume of 10m ³ liquid per day during last 5 years in Govt/PSU/Autonomous bodies/Local Govt./Reputed process industries. b. Scanned copy of satisfactory past performance certificate from the clients as specified above (1.1a)		
2.	Scanned copy of DD/FDR of earnest money deposit (EMD) and tender cost form.		
3.	Scanned copy of Registration Certificate of the firm.		
4.	Scanned copies of EPF and ESI Certificate issued by the local Government.		
5.	Scanned copy of balance sheet of the firm to fulfill the requirement of minimum average turnover of the firm not less than Rs. 15 Lacs during the last three years.		
6.	Scanned copies of Income tax and GST registration certificates.		
7.	Scanned copies of PAN Number.		
8.	Scanned copies of MSEs (Micro & Small Enterprises) in related service/business, if applicable. The MSEs firms are exempted from tender cost as well as EMD subject to submission of their valid registration certificate.		
9.	Scanned copy of undertaking as per attached Format (Annexure – II) duly attested by Notary on a non-judicial stamp paper of value of Rs. 500/- (Rupees Five Hundred Only) regarding their non-blacklisting by any of the Government Departments, Public Sector Undertakings and/or by Central Vigilance commission during the last three years. Original undertaking should be submitted alongwith EMD.		
	Financial bid (BOQ) should be uploaded separately.		

Declaration by the Tenderer:

This is to certify that I/We signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself ourselves to abide by them.

Signature of tenderer

Schedule – III**Financial Bid (BOQ) should be filled & uploaded separately**

To

The Director,
NIHSAD,
Bhopal – 462021 (M.P.)

Sir,

I/We submit our tender with respect to financial bid for work/job contract for Operation & Maintenance of PLC AND STEAM BASED LIQUID WASTE STERILIZATION PLANT OF BIO-CONTAINMENT FACILITY (ABSL-3) at NIHSAD, Bhopal and my/our rate is as follows which may be read with reference to Schedule – II: -

Financial Bid (BOQ)				
(For reference purpose only and not to be filled with technical bid)				
Tender Inviting Authority: Director, ICAR-NIHSAD, Bhopal				
Name of Work: AMC for operation and maintenance of PLC based water sterilization plant (steam sterilization) of Bio-Containment lab (ABSL-3)				
Contract No: NIHSAD/9-152/2017-18/P&S				
Name of the Bidder/ Bidding Firm / Company :				
<u>PRICE SCHEDULE</u>				
NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
1	2	7	8	10
1	Work contract			
1.01	AMC for operation and maintenance of PLC and steam based liquid waste sterilization plant (Total cost per month towards providing services as per statutory liability, i.e. minimum wages including VDA, EPF, ESI, etc.)		0.00	INR Zero Only
1.02	Agency service charge per month (Amount in INR)		0.00	INR Zero Only
1.03	Any other charges per month as per scope of work (Amount in INR) (Specify)		0.00	INR Zero Only
1.04	GST per month as applicable (Amount in INR)		0.00	INR Zero Only
Total in Figures			0.00	INR Zero Only
Quoted Rate in Words			INR Zero Only	

I/We agree to forfeiture of the EMD deposited by me/us in connection with tender if we fail to comply with any of the terms and conditions in whole or in part as paid down in the tender documents. We have carefully read the terms and conditions of the tender and agree to abide by these in letter and spirit.

In other terms and conditions that the tender would like to specify, it will form a part of the schedule.

Signature
Name and address of the firm with phone number

Liquidated Damage Clauses/Penalty Clause

1. In case of deficiency of services, Pro-rata deduction of amount on the services not provided will be made. In addition, 10% penalty would be charged after giving due hearing to the contractors explanation by the Director of the Institute.
2. The firm will not charge placement charges on any other account from the manpower deployed with the NIHSAD from the payment to be made to the outsourced staff as per quoted rates. The contract is liable to be terminated, security deposit forfeited and the Contractor/Firm will be blacklisted if, at any stage, reports are received that the Contractor/Contracting firm has charged the manpower on any account.
3. Any misconduct/misbehavior on the part of the manpower deployed by the agency will not be acceptable and such persons will have to be replaced immediately.
4. If the required number of workers/supervisor is less than the minimum required to carry-out the job as a whole, a penalty of Rs. 500/- Per worker per day will be deducted from the bill.

RISK CLAUSE: -

The Agreement of the contract can be terminated with two months notice from either side on the technical issues beyond logical solutions. However, in case of Service Provider/Contractor issuing notice, the expenses incurring due to such breach shall be recovered from the security deposit or pending bills or by raising a separate claim.

The decision of the Director, NIHSAD, Bhopal (competent authority in the Institute) shall be final and binding on the contractor/agency in respect of any clause covered under the contract and any matter incidental to the contract.

SEAL & SIGNATURE OF THE FIRMS REPRESENTATIVE

FULL ADDRESS.....

Mobile No.....

UNDERTAKING

I/We have read and understood General Terms and Conditions contained in the ICAR-NIHSAD's application form for contract. I/We do hereby declare that all the details provided in this application form are true to the best of my/our knowledge and belief and any misrepresentation of facts will render me/us liable to any action as may be deemed fit by ICAR-National Institute of High Security Animal Diseases, Bhopal.

I/We do hereby also accept ICAR-NIHSAD have the right to accept or reject this application and not to issue invitation to Tender to me/us.

I/We undertake to communicate promptly to ICAR-NIHSAD any changes in the condition or working of the firm. It is certified that we have not been blacklisted by any organization of Government of India including Central Vigilance commission (CVC) in the last three years. The undersigned is fully authorized to sign and submit this application form on behalf of the organization, he/she represent. We authorize ICAR-NIHSAD to approach individuals, employees, firms and corporations to verify our competence and general reputation.

Signature: -

Name: -

Designation: -

Address: -

Place: -

Dated: -