TENDER NOTICE

TENDER FOR THE SUPPLY OF
INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY (ICP-MS)
TO THE INSTITUTE OF FISHERIES POST GRADUATE STUDIES
TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY
TNJFU-OMR CAMPUS, VANIYANCHAVADI, CHENNAI-603 103,TAMIL NADU

No. 1191/DN/IFPGS /TNJFU /NADP (2018-19)/ICP-MS/2019, dated 10.01.2019

Sealed Tenders (Two covers system – Technical and Commercial bids separately) are invited from firms of standing, who are actual manufacturers, accredited distributors of such manufacturers for the supply of **Inductively Coupled Plasma Mass Spectrometry (ICP-MS) system** with online UPS and other accessories. GSTIN Reg. No. should be furnished

Tender schedule containing detailed specifications of the above equipment and terms and conditions can be had from the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu on payment of Rs. 100/- (Rupees One hundred only) by cash or demand draft drawn in favour of the Dean, Institute of Fisheries Post Graduate Studies, payable at Indian Bank, Siruseri IT park Kanchipuram – 603 103. The last date for the receipt of requisition for the supply of tender schedule will be **22.01.2019** at 4.00 PM. Money orders and postal orders will not be accepted.

The tender schedule may also be downloaded from the university website www.tnjfu.ac.in/tenders.html in which case, the cost of tender schedule ie. Rs.100- (Rupees One hundred only) in the form of Demand Draft may be sent to the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu.

The sealed covers super-scribed as "Tender for the supply of **Inductively Coupled Plasma Mass Spectrometry (ICP-MS) system with online UPS** should be addressed to "The Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu", so as to reach him on or before **23.01.2019** at 3.00 PM and Technical bid cover will be opened on **23.01.2019** at 3.30 PM and scrutinized and the commercial bid cover will be opened on **24.01.2019** at 11.00 AM in the presence of such of those tenderers of their authorized representatives as may be present.

The right of rejecting any (or) all tenders without assigning any reasons thereof is reserved by the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu. Further particulars, if any required, can be obtained from the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu.

08/1/19

Dean i/c &
Principal Investigator
Institute of Fisheries Post Graduate Studies
TNJFU- OMR Campus, Vaniyanchavadi
Chennai-603 103

8/1/19

TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY
INSTITUTE OF FISHERIES POST GRADUATE STUDIES
TNJFU-OMR CAMPUS, VANIYANCHAVADI, CHENNAI-603 103, TAMIL NADU

TENDER FORM AND CONDITIONS

No. 1191/DN/IFPGS /TNJFU/NADP (2018-19)/ICP-MS/2018, dated 10.01.2019

I. GENERAL:

Last date for submission of Tender is **23.01.2019** at 3.00 PM. Technical bid cover will be opened on **23.01.2019** at 3.30 PM and scrutinized and the commercial bid cover will be opened on **24.01.2019** at 11.00 AM. Tender should state in the body of their letter whether they are

i) Manufactures
ii) Manufacture's authorized agents
iii) Holders in stock of the stores tendered for

II. DEVIATION FROM SPECIFICATION:

Tender for the supply and installation of **Inductively Coupled Plasma Mass Spectrometry (ICP-MS) system (1 No.)** with online UPS and accessories is invited.

The tenders are requested to study the specification stated below:

Specification : as given in the schedule
Nos. required : as given in the schedule

SERVICE CONDITION:

Guarantee period and after sales service conditions to be mentioned. In case of deviation or alteration the same should be brought out boldly and prominently in the offer made.

III. Any terms or conditions not brought out in the body of the offer will not be considered.

IV. In case any condition or terms of contract applicable in the invitation of tender is not acceptable to the tendering firm they should specifically state deviation therein from the body of their tender.

V. In the body of the letter, the tenderer should specifically state that he agrees for sole arbitration by the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu.

VI. PRICE:

a) Prices must be in foreign currencies for the main equipment and the price for indigenous accessories in terms of rupees and paise.

b) The unit price should be for the equipment as indicated in the schedule of tender enquiry and not for any other equipment.

c) Price quoted should be for delivery at site, as specified by The Dean, Institute of Fisheries Post Graduate Studies, TNJFU- OMR Campus, Vaniyanchavadi, Chennai-603 103 in the supply order inclusive of charges such as packing and forwarding.

d) Discount if any, should be indicated prominently.

e) Prices quoted shall be firm in all respects and for each equipment.

f) Tenders with price variation basis will not be accepted.

g) The offer should be kept valid for six months from the date of tender and supply is expected before **31.07.2019**

VII. The tenderer is solely responsible for the equipment till delivered and demonstration of the equipment to be conducted.

VIII. **Earnest Money Security Deposit and Execution of Agreement:**

Each tender should be accompanied by an **Earnest Money Deposit of Rs. 1,00,000/- (Rupees One lakh only)** in the form of demand draft drawn in favour of the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu. failing which the tender will not be considered. **Cheques and cash will not be accepted**. If for any reason the tenderer withdraws the tender before or after being selected or before being rejected by the competent authority, the Tamil Nadu Dr. J. Jayalalithaa Fisheries University reserves the right to forfeit the deposit in part or in full. **The earnest money deposited will be refunded to the unsuccessful tenderers. In the case of successful tenderers, the amount will be adjusted towards Security Deposit.**

The successful tenderer (hereinafter referred to as contractor) shall also furnish a security deposit of not less than 5% of the total value of the contract subject to maximum of Rs. 10,000/- within 15 days from the date of intimation of the acceptance of the tender. The Security deposit will be inclusive of the Earnest Money Deposit, already remitted.

The security deposit will be refundable only after the expiry of a period of ONE YEAR from the date of handing over the stores in working conditions/completion of the work to the full satisfaction and upon the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu issuing a certificate that no amount is due from the contractor under the agreement and that the contractor executed on a non-judicial stamp paper of the value to be fixed incorporating the terms and conditions of the

contract within one month from the date of intimation of the acceptance of the tender. In case of default of these conditions i.e. remitting security deposit and executing agreement within the time allowed, the earnest money deposit will be forfeited without prejudice to any other right of the University will also be entitled to make other arrangement for obtaining these items from others and recover from the contractor any excess expenditure or cost incurred by the University over the contract price together with all charges, expenses and damages attending to such purchase, provided the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu. in specific circumstances in the matter of payment of security deposit and execution of agreement.

IX. **DELIVERY:**

The supplies shall be subject to inspection and acceptance or rejection by the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu, shall from time to time name and appoint for the purpose, the said person to be named and appointed being hereinafter referred to as the Inspection Officer.

The supplies made by the tenderer which in the opinion of the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu, or the Inspecting Officer in bad order, unsound in quality or description or not in accordance with specifications as have been prescribed in that behalf or otherwise faulty or unfit for use, shall be rejected.

The supplies so rejected shall be removed by and that the expenses of tenderer within 15 days after he has been given notice of the rejection. If not taken away, the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu, may ask the goods to be removed and disposed off in the manner he may deem fit and recover from the tenderer the expenses incurred in such removal and disposal.

The substitution of supplies which have been rejected by the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu, or the Inspecting Officer in whole or in part under the provisions herein before contained the tenderer shall and will within the time permitted by the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu, or the Inspection officer after such rejection shall have been notified to him as aforesaid supply and delivery without causing any extra cost of expenditure. If not so supplied and delivered by the tenderer or substitution as aforesaid and also in case of failure by the tenderer to supply and deliver supplies demanded from him under this tender within the period prescribed for supply and delivery, the Dean, Institute of Fisheries Post Graduate Studies, TNJFU-OMR Campus, Vaniyanchavadi, Chennai-603 103, Tamil Nadu, or the inspecting Officer shall have power to purchase from others in lieu of rejected or not delivered goods and any excess expenditure or cost incurred by the University over and above the tenderer price together with all charges and expenses attending to the purchase shall be recoverable from the tenderer. Nothing herein contained shall

prejudice any other right of the University in that behalf under the tender or otherwise.

X. **A Guarantee towards the supply of spare parts if any when required on the agreed basis for an agreed price.**

XI. **The tenderer shall furnish the following guarantee:**
A guarantee to the effect that articles supplied shall be of the best quality and workmanship and shall be in with such quantities and such price. A guarantee for a period of one year or more from the date of handing over the equipment and systems and any defects in their proper function during the guarantee period should be rectified by the tenderer free of charge. If during the guarantee period, the supplies are found not to the description and quality offered by the University will be entitled to reject the articles and the supplier shall replace or pay the University such damages as may arise including the replacement of cost and towards delay and damages. Nothing herein continued shall prejudice any other right of the University if that behalf under the tender or otherwise.

XII. **TRANSFER OF SUPPLY:**

The tenderer shall not transfer or assign the supply or any part there or any interest therein directly or indirectly to any person or persons whomsoever without the written consent of the University.

XIII. If the supply order is placed on a higher tenderer as a result of inability of the tenderer then he will be liable to pay the University the difference between the supply rate and that the lowest acceptable tender. This is in addition to and without prejudice to other rights under the terms of the tender.

XIV. **INSTALLATION AND TESTING:**

All deliveries of goods should be accompanied by invoice bills in triplicate to the officer at site to whom the goods are supplied.

a) The time allowed for completion of supply and delivery as prescribed including demonstration under the conditions of the tender is the essence of the tender.
b) Without prejudice to other rights under the terms of this tender or otherwise.
    i) If the tenderer fails in the due performance of his/her supply within the time fixed in the supply or any extension thereof, the tenderer is liable to pay as liquidated damages up to 2% per month of the supply value of such portion of the materials as have not been delivered, installed and commissioned and having been delivered, installed and commissioned cannot in consequence of the delay be used efficiently during each month between the appointed or extended time as the case may be and the actual time or delivery installation.

The tenderer is not entitled for any enhancement of the rates once accepted. It shall be lawful for the purchaser to set off any loss or expense or cost of damages sustained or incurred by the purchaser by reason of the cancellation of the tender form and out of

nominees for the time being payable or due to the tenderer from the University otherwise apart from forfeiting the security deposit furnished by their tenderer.

All sums found due to the University under or by virtue of these presents shall be recoverable from the tenderer in any manner as the University may deem it.

XV. Any notice or communication to the tenderer shall be deemed to be sufficiently served if given or left in writing at his usual or last known place of abode.

XVI. All questions, disputes or differences arising under out of or in connection with the supply, if not concluded shall be subject to the exclusive jurisdiction of the place from which the acceptance of the tender is issued, is situated.

08/11/19

Dean i/c &
Principal Investigator
Institute of Fisheries Post Graduate Studies
8/11/19 TNJFU- OMR Campus, Vaniyanchavadi
Chennai-603 103

TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY
INSTITUTE OF FISHERIES POST GRADUATE STUDIES
TNJFU-OMR CAMPUS, VANIYANCHAVADI, CHENNAI-603 103, TAMIL NADU

TENDER SCHEDULE

Tender for the supply and installation of **"Inductively Coupled Plasma Mass Spectrometry (ICP-MS) system** with online UPS and accessories is invited.

Issued to:

8/11/19

Dean i/c &
Principal Investigator
8/11/19 Institute of Fisheries Post Graduate Studies
TNJFU- OMR Campus, Vaniyanchavadi
Chennai-603 103

Sl. No.	No. of Unit required	Particulars of the equipment	Rate in Figures & Words	Unit in Figures & No.	Total
1	1 No.	**Inductively Coupled Plasma Mass Spectrometry (ICP-MS) system with online UPS** (as per below technical specifications)			

TECHNICAL SPECIFICATIONS:

The Inductively Coupled Plasma Mass Spectrometry should contain the following specifications for its day to day operation

The following hardware/functionality and specified performance requirement is mandatory for the instrument specified.

SPECIFICATIONS OF INDUCTIVELY COUPLED PLASMA WITH MASS SPECTROMETRY (ICP-MS) WITH ACCESSORIES

1 **System Application (**The system should have)

i. Computer controlled fully automatic ICP- MS system

ii. Multi-elemental analysis in ppm, ppb and ppt levels with required sensitivity and stability of diverse range of food and water samples

iii. The system should be a space saving, compact model that can fit into allocated lab space with all the sub- systems and accessories.

iv. Should have dedicated gas channels for collision and reaction gases with independed Two mass controller for each gases like He, O_2 & H.

v. Corrosion-resistant exteriors should be provided

vi. Model number of the equipment proposed to be supplied to be clearly mentioned

vii. The system should capable of analysing high TDS more than 25% samples and it should quoted with necessary accessories like AGD, UHMI or equivalent technology as to be quoted with the main instrument

2 **Sample Introduction System**

i. Nebulizer: Concentric nebulizer, made from PFA with low sample flow rate as standard (~0.2mL/min)

ii. Spray Chamber: Peltier controlled Spray Chamber from temperature -5°C to Room Temp for Better Stability, Repeatability and also Organic Sample upgradation for near future.

iii. Peristaltic Pump: Low-pulsation, high-precision 10-roller peristaltic pump, with 3 separate channels, for precise delivery of sample and internal standard (ISTD), plus spray chamber drain.

Note: Peristaltic pump tubing for sample intake, internal standard intake, and drain: 50No each along with the instrument.

3 **Plasma**

i. RF generator: 27/40 MHz, High power-transfer efficiency and maintenance-free solid state digital drive generator with variable-frequency impedance matching. Tolerance to changes in sample matrix; even highly volatile organic solvents should be able to be introduced without affecting plasma stability. RF power range: 500W to 1600W

ii. Torch: Easy-mount, one-piece quartz torch- 10 Nos. along with the instrument.

iii. Torch position: Automatic adjustment of the torch position

4 **Interface**

i. Sampling cone: 1mm diameter orifice, Ni-tipped with Cu base. Easy access to the interface region for routine maintenance. – Sampling cone - 5 Nos. and O-ring- 10 Nos. along with the instrument.

ii. Skimmer cone: 0.4mm diameter orifice, Ni-tipped- 5Nos. along with the instrument.

Collision/Reaction Cell System:

i. The system should have efficient ion deflector for removing all neutrals and photons from the Ion path.

ii. Cell offering three modes of operation: Standard Mode, Collision Cell Mode and Reaction Cell and should be offered with 2 MFC

iii. Switching of reaction and collision gases shall be through software and automated. Unit shall have the flexibility of applying both (collision, and reaction) gases using single method for removal of interferences. Low mass cut off, Cut off facility or equivalent technology should be there to remove unwanted polyatomic interferences formed due to free atoms.

iv. A reaction & collusion cell should be provided for removing poly atomic interference removal allowing use of collusion gases like Helium and pure reactive gases like methane, ammonia, Oxygen, hydrogen and other mixture gases

v. Vendor should attach application notes for Arsenic analysis as per FSSR where O2 or any other suitable gas is used to remove interference for ArCl which demonstrates mass shift mode.

vi. Zero maintenance for the cell

5 **Instrument Sensitivity**

i. Should be able to detect and quantify in%, ppm, ppb and ppt level

6 **Mass Analyzer**

i. Quadrupole mass spectrometer: Mass range: 2 - 260amu
ii. Mass scan speed: Scan speed (Li to U, plus data collection at 40 intervening masses): 2500amu/sec
iii. Abundance Sensitivity (at Cs): Low Mass side: 5 x 10-7, High Mass side: 1 x 10-7
iv. The ICP-MS system must be guaranteed to be supported with a service and application support contract for at least **7 years** after the date of purchase.

7 Guaranteed sensitivity specifications will be considered [To be demonstrated during Demo): Typical sensitivity values will not be considered **(Guaranteed/factory specifications will be considered. Not the Typical performance.)** To be demonstrated during Demo]:

Sensitivity	
Li (7)	≥ 45 Mcps/ppm
Co (59)	≥ 95 Mcps/ppm
In (115)	≥ 230 Mcps/ppm
U (238)	≥ 310 Mcps/ppm
Oxide (CeO^+/ Ce^+)	≤ 2%
Doubly charged (Ce^{2+}/ Ce^+)	≤ 3.0%
Background (9 amu)	≤ 1 cps (nogas mode)
detection limit	
Be (9)	≤ 0.2 ppt
In (115)	≤ 0.05 ppt
Bi (209)	≤ 0.08 ppt
Short term stabili y (%RSD)	≤ 2% (20 min)
Long term stability (%RSD)	≤ 3% (2 h)
Isotope Ratio precision: Ag (107)/Ag (109) (%RSD)	≤ 0.1%
Helium cell gas mode specification	
He mode detection limi	
As (75)	≤ 20 ppt
Se (78)	≤ 40 ppt

8 **Detector**

1. Unique, auto-switching, dual-mode discrete dynode electron multiplier detector provides a full 9 orders dynamic range with standard hardware and operating conditions. Fast measurement of transient signals is provided, due to the use of a proprietary analog amplifier, which operates at the same short integration time (100us) in both pulse and analog mode. Minimum dwell time: 100 µsec. Dynamic Range: 9 to 11 orders

9 **Vacuum System**

1. Efficient noise free vacuum system: Three-stage differential vacuum system with split-flow turbo molecular pump and external rotary pump for fast pump-down and simple maintenance.

2. Advance software should be included along with system, 10 element quantification curves in single pages, Excel auto export, upgradable to LC or IC ICPMS.

3. Matrix Introduction: Automatic Diluter Should be able to directly analyze seawater and Argon Dilution is preferred, Ceo+/Ce+ :0.05% for better sensitivity in trace Levels

10 **Water Chiller**

The system should have a suitable re- circulating chiller changer of Internationally reputed company for plasma component cooling.

11 **Auto Sampler**

The system should have

i. Highly effective auto sampler
ii. Auto sampler with minimum (240 vial of 14 ml) Programmable complete with inert PTFE coated probe with PTFE inner tubing.
iii. Extra vials 100 nos should provide
iv. All accessories, racks, bottles, tubing assembly, waste container, dust cover etc.

12 **System Controller and Operating System**

The system should have

i. Software control for automatic data acquisition and processing.
ii. Mass spectrometer tuning and calibration auto and manual.
iii. Data Validation (IQ/OQ/PQ for Software)
iv. Self-diagnostics
v. Multi element analysis capability, Isotope ratio and dilution
vi. Cool Plasma or other facility to eliminate polyatomic interferences.
vii. Remote diagnostics
viii. Software should control plasma, MS and other accessories like auto sampler
ix. The system software shall support the following calibration curve fit modes for Quantitative analysis:
    a. Linear least squares.
    b) Weighted linear least Squares
    c) Linear forced-through-zero least squares.
    d) Quantitative analysis including external calibration, additions, calibrations, method of standard additions, isotope ratios and isotope Dilutions and semi quantitative analysis.
    e) On-line help with quick steps to reference entire instrument user Manual.

13 **Microwave Digestion system**

i. Microwave digestion system, optimized for economic routine analysis of environmental samples, food quality control, plant material and other biological material.

ii. A single magnetron delivers up to 850 W microwave power in an unpulsed mode over the full power range.

iii. The sophisticated software prevents thermal overshoots and the design of the microwave applicator provides utmost field density, allowing efficient and uniform heating across all vessel positions.

iv. The exhaust unit continuously removes the reaction heat and gases,

which may escape during operation to extend the durability of the used materials. After a finished run the vessels are cooled down automatically.

v. The sensor system should enables automatic detection of each reaction vessel, as well as monitoring of the rotor revolution, to ensure uniform microwave heating and prevent localized overheating Comes with: Mains cable with plug CEE Type 7 (Central European), 3 m exhaust hose, basic tools and instruction manual.

vi. Included basic tools: Microwave Oven 50Hz, 12 pressure vessels with 50ml capacity, Handling Tool, IR calibrator, IR calibrator connection cord, USB Memory, Power supply: 230 V, 50 Hz, 2680 VA

The vendor should offer minimum 5 years of warranty against corrosion of cavity coating and 2 years of warranty against magnetron.

Other accessories and consumables

1. Micro mist nebulizer – 1 No's
2. AGD or UHMI or equivalent accessories for analysing high TDS Samples (more than 25%)
3. Argon gas cylinders- 6Nos. Cylinders (10 cumt) with one regulator
4. Helium gas cylinder- 2 Nos. (10 cumt) with one regulator and gas purifier
5. Auto sampler tubes or vials 500 Nos.
6. Vacuum pump oil 5 Litres
7. Tuning solution 1ppb -500 ml with 2vyear expiry
8. Multi element calibration standard 10ppm -100ml with min 2 year expiry
9. Internal standard 10ppm-100ml with min 2 year expiry
10. Cone cleaning solution 2L
11. Exhaust Hood
12. Latest Branded PC HP/DELL/ IBM with Laser Printer
13. 20 KVA on line UPS with Three hours back-up
14. Exhaust Hood
15. Suitable Platform
16. Suitable cooling system – 2 Nos.
17. 30 KVA diesel power generation system should be provided.

Specification sheet

A detailed specification sheet highlighting all above specifications along with detailed experimental conditions must be attached.

User list

Should provide more number of installations of similar application with similar instruments to be enclosed.

Training

Operational & Application Training should be provided for 10 days in Our Lab after the Installation.

Warranty

Instrument should have minimum 5 year Comprehensive warranty from the date of Installation & Commissioning with all spares for proper functioning of the instrument and OQPV (Operation Qualification and Performance Verification) every year, unlimited break down visits and two preventive maintenance in every year.

Service Support

The ICP-MS system must be guaranteed to be supported with a service and application support contract for at least **7 years** after the date of purchase.

SPECIAL CONDITIONS:

1. Price should be quoted in foreign currencies along with its equivalent in Indian Rupees for the main equipment and the price for indigenous accessories, if any, may be quoted in Indian Rupees.

2. Price and taxes should be quoted separately

3. This institution is eligible for concessional rates of GST as notified by the Government of India under notification no: 47/2017- Integrated Tax (Rate) and 45/2017- Central Tax (Rate) dated 14.11.2017. The goods for which tenders have been invited fall under classification of GST concession and the conditions for eligibility of concession are met by the institution. The DSIR certificate to this effect will be issued by the institute to the tenderer after award of the contract. Tenderers are requested to submit their tenders after accounting for the concessional rate of GST. The applicable concessional rate of GST is 5%.

4. Five years warranty period should be included.

5. Accessories, UPS, compatible PC and other sources may be from own source or from third party producers

6. Such third party manufacturers of accessories who fulfill the general conditions furnished above should be included in the tender.

7. Five years warranty period should cover all third party accessories quoted

8. The manufacture of the third party accessories should have sales and service network in Tamil Nadu.

9. Service and warranty policies of the third party accessories should be given in the technical bid of the tender.

10. Application training should be provided to our faculty and research personnel in the reputed and recognized application facility at free of cost.

11. Other service conditions are given with separate sheet attached with the schedule

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