



**CENTRAL COUNCIL FOR RESEARCH IN UNANI MEDICINE**  
(An Autonomous Organization under Ministry of AYUSH, Govt. of India)  
61-65, Institutional Area, Oppo. D-Block, Janakpuri, New Delhi-110058.

## **RE-TENDER NOTICE**

On behalf of the Director General, CCRUM, New Delhi, sealed Bids are invited from reputed original equipment manufacturers/their authorized representatives in two bid system (Technical Bid and Commercial Bid) for the supply of HPTLC and GC-MS-MS instruments with accessories. Detailed specifications & terms and conditions can be obtained from the office of the Assistant Director (Admin.), CCRUM (**Room No. 606**) on any working day.

Those vendors who had submitted their bids in response to CCRUM Open Tender Notice dated 03<sup>rd</sup> January 2020 are required to re-submit their revised bids. The last date for receipt of Bids is 17<sup>th</sup> February 2020 at 5:00 PM. Technical Bid shall be opened on 18<sup>th</sup> February 2020 at 11:30 AM in Committee room of Council. Price Bids of bidders found suitable on Technical parameters shall be opened on 19<sup>th</sup> February 2020 at 03:00 PM. For details please visit Council's website [www.ccrum.res.in](http://www.ccrum.res.in).

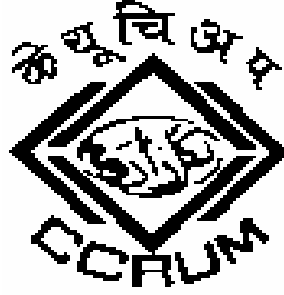
**Assistant Director (Admn.)**

**Central Council for research in Unani Medicine**

Ministry of AYUSH

61-65, Institutional Area, Opp. D-Block, Janakpuri,

New Delhi- 110058.



**REVISED TENDER DOCUMENT**

**FOR**

**SUPPLY**

**OF**

**HPTLC & GC-MS-MS**

**INSTRUMENTS**

## CONTENTS

S. No.	Details	Page No.
1.	<b>SECTION –I</b>	
	NOTICE INVITING TENDERS (NIT)	2-7
2.	<b>SECTION-II</b>	
	Descriptions & Technical Specifications of Instruments Required	
	1. High Performance Thin Layer Chromatography (HPTLC) system	8-11
	2. GC-MS-MS	12-13
3.	<b>SECTION-III</b>	
	Quality Control Requirement	14
4.	<b>SECTION-IV</b>	
	Tender Form	15
5.	<b>SECTION-V PRICE SCHEDULE</b>	
	A) Price Schedule for Domestic Goods Or Goods Of Foreign Origin Located Within India	16
6.	<b>SECTION-VI PRICE SCHEDULE</b>	
	A) Price Schedule For Goods To Be Imported From Abroad	17
7.	<b>SECTION-VII PRICE SCHEDULE</b>	
	Price Schedule For Comprehensive Maintenance Contract After Warranty Period To Be Quoted For 3 Years	18
8.	<b>SECTION-VIII ANNEXURES</b>	
	I. <i>(Blacklisted by any of the Department/ organization and no criminal case is pending against the said firm)</i>	19
	II. <i>(Having sufficient experience for supply of instrument)</i>	20
	III. <i>(Accept all the terms, conditions and others instructions )</i>	21
	IV. <i>(Letter of Authorized for Attending Bid Opening)</i>	22
	V. <i>Bidder's Warranty</i>	23
	VI. <i>Bank Guarantee</i>	24

## **SECTION-I**

### **NOTICE INVITING TENDERS (NIT)**

#### **1. Tender enquiry**

On behalf of Director General, the Central Council for Research in Unani Medicine, New Delhi, invites sealed tenders from reputed original equipment manufacturers/their authorized representatives in two bid system (Techno-commercial Bid and Price Bid) for the supply of instruments viz. HPTLC and GC-MS-MS with accessories.

#### **2. Terms and Conditions (Under Two Bid System)**

##### **2.1 Purchase of Tender Document**

The Tender document can be either downloaded from the website [www.ccrum.res.in](http://www.ccrum.res.in) or can be obtained from the office of Assistant Director (Admin.), CCRUM (Room. No. 606).

##### **2.2 Tender No.**

<b>S.No.</b>	<b>Description</b>	<b>Schedule</b>
<b>1.</b>	<b>Date of sale of tender enquiry documents</b>	<b>08.02.2020 to 17.02.2020</b>
<b>2.</b>	<b>Place of tender enquiry</b>	<b>Assistant Director (Admin.), Central Council for Research in Unani Medicine, (Room no. 606), 61-65, Institutional Area, Opp. D-Block, Janakpuri, New Delhi- 110058.</b>
<b>3.</b>	<b>Closing date and time for receipt</b>	<b>17.02.2020 at 5:00 PM</b>

	of tender	
4.	Date and time of opening of Techno-commercial Bid	18.02.2020 at 11:30 AM
5.	Date and time of opening of Price Bid	19.02.2020 at 03.30 PM
6.	Venue of opening of Techno-commercial and Price Bid	Committee Room, Central Council for Research in Unani Medicine, 5 <sup>th</sup> Floor, 61-65, Institutional Area, Opp. D-Block, Janakpuri, New Delhi- 110058.

### 2.3 Submission of tender Document

Tender/ quotation (**separately for Techno-commercial bid and Price bid**) must be submitted in sealed cover super-scribing thereon bidder's name, Notification No. and name of the Item, along with tender document and EMD. This is to be dropped in the Tender Box placed at the office of Assistant Director (Admin.), (Room No. 606), CCRUM, New Delhi positively before the tender bid closing date and time. Tenders sent through Fax will not be accepted.

### 2.4 Payment of EMD:

The Tender for each instrument must be accompanied by EMD (refundable) as stated, by means of a Demand Draft, in favour of the Director General, Central Council for research in Unani Medicine payable at New Delhi separately.

Sl. No.	Equipment	E.M.D.
1.	High Performance Thin Layer Chromatography (HPTLC) system with accessories	Rs. 2,00,000 or 2 % of bid amount whichever is lower
2.	GC-MS-MS Triple Quadrupole System with accessories	Rs. 1,80,000 or 2 % of bid amount whichever is lower

### 2.5 Quoting the Core price & Tax, Duties, Discount etc.

The taxes / duties / discounts, if applicable, are to be explicitly and separately shown in the bid and under no circumstances these components shall be added to the basic price and shown as single price. All the components of taxes, if applicable, should be shown explicitly and separately.

## **2.6 Electrical Power**

All equipment must operate at 230V/50 Hz single phase and / or equivalent three phase electrical power.

## **2.7 The validity of the Quotation**

The validity of the quotation should be for at least 90 days from the closing date of the bid.

## **2.8 Late Bids**

The offers will not be considered if received after the bid closing date and time.

## **2.9 Invalid quotes**

The offers received through telex / tele-fax / e-mail will not be accepted by the Council under any circumstances.

## **2.10 In case of Postal loss**

The Council shall not be responsible for any delay / loss or non-receipt of tenders by post / courier service.

## **2.11 No unsolicited correspondence**

No unsolicited correspondence shall be entertained after the submission of the offer.

## **2.12 Purchase Agreement**

If an order is placed with the firm, the purchase shall be governed by an agreement as per the Council's rules in force at the time.

## **2.13 Additions in terms and conditions**

Additional terms and conditions will be incorporated in the purchase order, if needed, to safe guard the interests of the Council.

## **2.14 Non-transferable**

The Tender Enquiry documents are not transferable.

## **2.15 Power to reject the offer**

Any offer containing incorrect and incomplete information shall be liable for rejection.

Central Council for research in Unani Medicine, New Delhi reserves the right to accept / reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. *However, deficiencies on any one or, more of the following crucial criteria will be a material factor, for consideration other than the Lowest Quotation: -*

- 1. Total Number of installations of the similar Equipment in the premier Research Institutes in India.*
- 2. Availability of Service Network in India.*
- 3. Valuable feedback from the present users about the performance, service support, accuracy of result, etc.*
- 4. Any other techno commercial information which is deemed fit to be important in the opinion of the Council.*

## **3. Price Schedule**

1. The bidder who is capable of supplying the instrument quoted as per the list of ITEMS mentioned in the schedule, is alone need to submit their quotation.
2. The rates should be quoted for a single unit.
3. The price should include the delivery and installation at the centre of Council (HPTLC & GC-MS-MS at DSRI, Ghaziabad) and training charges (if any).

#### **4. Qualification Criteria:**

- 4.1 The tenderer must be a manufacturer or its authorized agent.
- 4.2 The firm must have the requisite domain expertise with regard to supply, installation and post-sale service of the items they are quoting.
- 4.3 The firm should have been in existence for at least five years as on the date of this document and must have executed at least three orders for this kind of equipment during the last five years.
- 4.4 The firm should have sufficient number of installations of the similar Equipment in the premier Research Institutes in India.
- 4.5 The firm should have nation-wide Service Network all over India.
- 4.6 The feedbacks from the present users of the similar equipment about the performance, service support, accuracy of result, etc. are to be submitted along with the Tender Document.
- 4.7. Any other techno commercial information, pertaining to these particular Instruments, principal suppliers, technical background and capability, local agents' background on Scientific Equipment Business, etc. may also be appended along with testimonials and documentary proof.

#### **5. Conditions of Contract: -**

- 5.1 The offer must be in English. The rates should be indicated both in figures and words against item specified. It is preferable that the price be quoted in Indian Rupees.
- 5.2 **The total cost should be quoted for FOB (Free on Board) as well as CIF (Cost Insurance and Freight) – Ghaziabad**
- 5.3 **The price quotes under FOB (Free on Board) and CIF (Cost Insurance and Freight) should also include the expected installation cost**



**in the Ghaziabad and also cost of consumables which are required for the main equipment for initial operation upto a reasonable period.**

- 5.4 In case of the Principal supplier of Foreign country unable to meet the conditions stated at para no 2.4, the local agent / dealer should fulfill the above said conditions in respect of Local Insurance, Freight, safety transport and installation, etc.
- 5.5 The prices quoted shall remain firm until equipment is supplied to the Ghaziabad
- 5.6 The Central Council for Research in Unani Medicine has been granted the benefit of exemption from the payment of the Central Excise Duty and Customs Duty by the Department of Scientific and Industrial Research (DSIR), India, vide their Notification No. TU/V/RG-CDE(795)/2017 dated 12.10.2018.

**In respect of**

- a. Scientific and technical instruments, apparatus, equipment including computers.
  - b. Accessories and spare parts of goods specified in (a) above and consumables.
  - c. Computer software, compact disks, CD ROM, Recording magnetic tapes, microfilms, micro-chips etc.
  - d. Prototypes.
  - e. Customs duties at Indian port, if any, will be to the account of the Council.
- 5.7 Infra-structural, power and any other requirement for satisfactory installation and commissioning of the whole system must be provided, at least 30 days in advance of the installation to be commenced. All drawing for electrical connections, electrical safety items piping work etc. must be provided in detail.
- 5.8 Complete technical specifications and literature, including process flow, to be included with the quotation. Manufacturers of various major parts/equipment must be mentioned explicitly.
- 5.9 A clear statement regarding availability of after-sales service and availability of spare- parts for next 5 to 10 years should be included.
- 5.10 Recent customer list (within last five years) with contact details including email address must be provided.
- 5.11 If manufacturers have an authorized representative in India, they are requested to inform his technical ability to take care of the problems in the system, if developed later within the warranty and outside the warranty period. The responsibility of the Indian agent must be clearly specified.

5.12 The bidder from abroad shall obtain, if required, export permission from the appropriate authorities in his country or the country of origin for items to be shipped to India in case of items to be imported. The Central Council for Research in Unani Medicine shall provide necessary information if required for this purpose.

**5.13 Required Delivery Schedule:**

**a) For Indigenous goods or for imported goods if supplied from India:**

60 days from date of Notification of Award to delivery at consignee site. The date of delivery will be the date of delivery at consignee site. (Tenderers may quote early delivery period)

**b) For Imported goods directly from foreign countries:**

60 days from the date of opening of L/C. the date of delivery will be the date of receipt of goods by the consignee. (Tenderers may quote early delivery period)

5.14 The bidder from within India shall obtain the requisite approval for Imports etc., if required.

**5.15 Warranty: The material covered under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operation and performance for a period of at least 36 months from the date of putting the system into operation at the Ghaziabad or at least 42 months from the date of receipt of the last lot of the consignment in India.**

If any item covered under warranty fails, the same shall be replaced free of cost including all the applicable charges including shipping cost both ways.

5.16 Payments terms: Normally a letter of Credit will be opened for 100% FOB price on receipt of order acknowledgement, however, 90% of the LC amount will be paid on proof of the shipment of the consignment with necessary documents to be detailed at the time of placing of the purchase order.

Balance of 10% of the LC amount shall be made after satisfactory installation and commissioning and against submission of the Installation & Commissioning certificate, duly accepted by the purchaser, and **a performance bond of 10% of the total contract / purchase value in the form of bank guarantee (obtained from any Nationalized Bank in India) for the duration of the Warranty period.**

Bank charges shall be borne by the contractor / supplier.

- 5.17 In case of any dispute in respect of the tender, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.
- 5.18 No Agency commission will be paid to any authorized agent in India.
- 5.19 **Liquidated damages:** Timely supply of the ordered items, installation, commissioning (wherever is applicable) and training etc. is the essence of the contract. In case of failure to supply within the time specified in the Purchase order, a penalty/LD of 0.5% of the total value per week or a part thereof shall be levied subject to a maximum of 7.5% in respect of items which are not supplied. The decision of Council shall be final in this regard.
- 5.20 The training should be provided by the firm on the specimen and operation of the equipments for a minimum period of two weeks from the date of installation with an expert team for two persons.

For any clarification with respect to technical specifications, please contact **Assistant Director (Admin), Central Council for Research in Unani Medicine, New Delhi.**

## SECTION-II

### DESCRIPTIONS & TECHNICAL SPECIFICATIONS OF INSTRUMENTS REQUIRED

#### 1. TECHNICAL SPECIFICATIONS FOR HPTLC SYSTEM

**Integrated HPTLC system for quantification, identification, multi-wavelength, finger printing and micro-preparative separations must have following specifications:**

<b>1.</b>	<b>HPTLC Software</b>	<ul style="list-style-type: none"><li>• New generation, single software to link, control, integrate, manage the individual instruments for application, development, scanning and image documentation.</li><li>• Numerous methods library available for internet download for lifetime.</li><li>• Client-server system for flexibility.</li><li>• Powerful database tracks individual samples and ensures data integrity.</li><li>• Several tools for System Suitability Test.</li><li>• Built-in automatic back-up and restore tool for data.</li><li>• Random and unique report ID given to each printout.</li><li>• Stores infinite number of methods and downloads them to instruments, when called for.</li><li>• Data security achieved through access control, customizable user Management, defined access levels to success.</li><li>• Safe database prevents accidental alteration / deletion.</li><li>• Essential for GLP &amp; 21 CFR Rule 11 compliance with IQ-OQ-PQ</li></ul>
<b>2.</b>	<b>Semi Automatic Spot / Band Applicator</b>	<ul style="list-style-type: none"><li>• Sprays sample to layer.</li><li>• Stand alone or Appropriate Software to control operation of Scanner, Photo-documentation system &amp; Applicator.</li><li>• 4 mode applicator: - Quantitative analysis, Micro-preparative chromatography (190mm band length &amp; 500µl sample in one go), Superimpose – internal standard or derivatization reagent in same</li></ul>

		<p>method, <i>In – situ</i> clean-up (sample application at 110mm on y axis).</p> <ul style="list-style-type: none"> <li>• Sample syringe – 10 µl to 100µl (2 Nos.) (for analytical work) 25 µl to 250 µl (2 Nos.) or more is acceptable (for micro-preparative work). Sample position on X &amp; Y axis freely selectable. Automatic rate of sample dispensing. Method storage – 10 built-in or infinite through appropriate software. Method entry – Manual or download from software. Can auto – test instruments (self-diagnosis).</li> </ul>
3.	<b>Chromatogram Development Chambers</b>	<ul style="list-style-type: none"> <li>• All glass, moulded, two piece, bubble free chamber for TLC/ HPTLC.</li> <li>• Bottom divided into two equal halves with a sloping divider.</li> <li>• Chamber top and bottoms (both outside the chamber and inside the two troughs) should be perfectly parallel to each other.</li> <li>• Chamber ground finish on top for good seal and at bottom for perfect level.</li> <li>• Heavy chamber to minimize effects of vibration.</li> <li>• One piece joint less moulded chambers prevent leakage and tough to handle while cleaning.</li> <li>• Stainless steel rust proof lid with overhang to completely seal the chamber. Appropriate sizes for 20x20 cm, 20x10 cm and 10x10 cm plates.</li> </ul>
4.	<b>Gradient Automatic Multiple Development Chamber (Optional and any alternative to this will also be considered)</b>	<ul style="list-style-type: none"> <li>• PC controlled chamber comprising chromatogram developing chamber and its control module.</li> <li>• Upto 25 times stepwise multiple development in same direction possible.</li> <li>• Upto 5 solvents to make gradient. Plate drying time 1 – 5 min.</li> <li>• Gas phase equilibration after every step possible.</li> <li>• Mobile phase front monitoring by CCD (Charged Coupled Devices).</li> <li>• Vacuum sensor built in. Gradient display on screen. Validation software + self diagnostics built-in. Vacuum connector. Optional link to appropriate software (vacuum pump is required)</li> </ul>
5.	<b>Development Chamber with Humidity Control and</b>	<ul style="list-style-type: none"> <li>• Developing Chamber for fully automatic development of TLC/HPTLC plates 20 x 20, 20 x 10 cm and 10 x 10 cm (glass, plastic, aluminium). (2 each)</li> </ul>

	<b>Automation (Optional and any alternative to this will also be considered)</b>	<ul style="list-style-type: none"> <li>• Stand-alone mode or Appropriate Software Control. Development in 20 x 10 cm Twin Trough chamber.</li> <li>• Solvent front detection by CCD (Charged Coupled Devices).</li> <li>• Activity and preconditioning of the layer, chamber saturation, developing distance and final drying can be pre-set and automatically controlled.</li> <li>• Sensor monitored “Humidity Control” of layer allows reproducible chromatography at defined activity of the layer. 10 methods storage built in or infinite methods through Appropriate Software.</li> <li>• Method entry. Manual or download from System Manger.</li> <li>•</li> </ul>
<b>6.</b>	<b>TLC / HPTLC Scanner with Data Evaluation</b>	<ul style="list-style-type: none"> <li>• Software controlled Scanner / Densitometer for automatic spectrum scanning for identity check as well as purity check;</li> <li>• Automatic quantitative measurement by absorbance &amp; fluorescence; All TLC / HPTLC plate sizes acceptable;</li> <li>• Scan speed 100mm/sec @ 25µm resolution;</li> <li>• Wavelength range 190-900 nm;</li> <li>• Monochromator flushing by nitrogen;</li> <li>• Data sampling rate – 4000 / sec;</li> <li>• Special Macro optics for TLC &amp; Micro optics for HPTLC.</li> <li>• Spectrum scan speed 100 nm / sec; Max 999 spectra / plate;</li> <li>• Visible pilot slit image / scan compartment illumination with UV to check sample alignment with scan beam; D2, Hg, W lamps built-in.</li> <li>• Self diagnostic + Service dialog + Universal filter for fluorescence also built-in</li> <li>• scan slit size variable</li> <li>• Bandwidth selectable 5 or 20 nm.</li> <li>• Data evaluation 32 bit software or latest version</li> <li>• Excellent S/N ratio (Signal-to-noise ratio).</li> <li>• High reproducibility; Controlled by Appropriate Software, Automatic / Manual data integration, Auto baseline correction.</li> <li>• Spot check facility. 3D display with data storage and auto calculation of each peak at its <math>\lambda_{max}</math>.</li> </ul>

		<ul style="list-style-type: none"> <li>• Calibration - single level, multilevel, linear / non-linear. Statistics CV / CI. (Coefficient of variation/ Confidence interval) Reproducibility check facility.</li> <li>• Auto calculation of data .Computer generated random no. for each report (GLP compliance).</li> <li>• Lamp use tracking. 2 level digital user manual.</li> <li>• Service Dialog + self Diagnostics + Tutorial all built – in. Meets GLP.</li> <li>• IQ-OQ-PQ and 21 CFR Rule 11 certification.</li> </ul>
7.	<b>Essential Software For Scanner</b>	<ul style="list-style-type: none"> <li>• Spectrum Scanning option</li> <li>• Scanner Quantification</li> <li>• Scanner Multi Wavelength</li> </ul>
8.	<b>TLC / HPTLC Photodocumentation System Under GLP :</b>	<p>Fully automated image documentation at 254nm, 366nm and visible light. Illumination Unit, Industrial Camera and HPTLC specific software.</p> <ul style="list-style-type: none"> <li>• Illumination unit – Uniform illumination with 254 + 366 nm UV + Visible light (from above &amp; below the plate).</li> <li>• 60 KHz supply for instant, flickerless illumination.</li> <li>• Easy access for changing tubes &amp; filters and PCB (Printed Circuit Board).</li> <li>• Auto switch off.</li> <li>• Total darkness.</li> <li>• Viewing window to observe plate in UV.</li> <li>• Safety - UV switched off if door opened.</li> <li>• Safety Glasses</li> <li>• <b>Camera:</b> 48 bit, high resolution industrial camera head (2<sup>48</sup> grey level resolution).</li> <li>• Images of the highest quality.</li> <li>• Fixed parameters for total reproducibility.</li> <li>• True colours capture.</li> <li>• Very linear response.</li> <li>• Individually calibrated.</li> </ul>

		<ul style="list-style-type: none"> <li>• Camera head is PC operated and does not have any controls.</li> <li>• Image data and report through appropriate software only, Tamper proof data</li> <li>• <b>HPTLC Specific Software:</b> Automatic image optimization. Automatic exposure time to suit brightest zone within dynamic range of CCD (Charged Coupled Devices).</li> <li>• Full function annotation. <math>R_f</math> scale.</li> <li>• Child image with or w/o ROI (Region of Interest) blow up.</li> <li>• Auto image capture at 254nm and or 366nm and or white light.</li> <li>• Raw data inaccessible to user.</li> <li>• Spot application tool to detect faintest fractions. High speed data transfer USB 3.0.</li> <li>• Control by appropriate software. Options to process the image.</li> </ul>
9.	<b>Software For TLC / HPTLC Photo documentation System (GLP) :</b>	<ul style="list-style-type: none"> <li>• High Resolution Documentation software for IQ-OQ (Installation Qualification-Operational Qualification), performance check</li> <li>• clean plate correction</li> <li>• image averaging, image subtraction</li> <li>• White adjusts and flat field corrections.</li> <li>• Very useful to create the best possible image for evaluation.</li> <li>• Image comparison viewer software. Allows comparison of different tracks from different plates under GLP.</li> </ul>
10.	<b>TLC / HPTLC Plate Heater</b>	<ul style="list-style-type: none"> <li>• For in-situ derivatization and layer activation.</li> <li>• Stain resistant ceran glass top</li> <li>• temp range 25<sup>0</sup> to 200<sup>0</sup>C</li> <li>• Uniform heating of plate.</li> <li>• Digital display of set &amp; actual Temp. display remains on as long as plate is hot.</li> <li>• Upto 20 x 20 cm size plates.</li> </ul>
11.	<b>Chromatography</b>	<ul style="list-style-type: none"> <li>• UV Cabinet, Model 4 Dual wavelength 254 nm + 366 nm with</li> </ul>



	<b>Visualisation : UV Cabinet</b>	<p>guaranteed minimum intensity</p> <ul style="list-style-type: none"> <li>• UV lamp at 17 cm distance.</li> <li>• Short wave UV (254 nm) 1600, long wave (366 nm) 1000,. Visible light (&lt;400nm) 0.4.</li> <li>• Full protection to viewer's eyes and skin from UV light for safety.</li> <li>• High tech 50 kHz power supply for flickerless, instant illumination.</li> <li>• Auto switch off after 10 min.</li> <li>• Thermal sensor and tilt sensor built in for user safety.</li> </ul>
12.	<b>Spraying and Dipping Technology</b>	<ul style="list-style-type: none"> <li>• Micro-droplet spraying technology (2) and dipping chamber (2 each for 20X20 and 20X10) for derivatization of TLC plates</li> <li>• Highly homogeneous reagent distribution through optimized droplet size</li> <li>• Recommended settings for the most common derivatization reagents</li> <li>• Safe and environmentally friendly operation through closed system</li> <li>• Intuitive handling and easy cleaning</li> <li>• 2ml derivitization reagent consumption for 20x10cm plates &amp; 4ml for 20x20cm plates</li> </ul>
13.	<b>General Conditions</b>	<ul style="list-style-type: none"> <li>• Specifications should be confirmed from the website of the manufacturer.</li> <li>• <b>Maintenance:</b> A good team of service engineers, trained by the manufacturer is essential. Detailed information of service engineers and their product training to be provided. AMC or CMC rates should be offered reasonably</li> <li>• Live product demo, with our samples is necessary. The same may be arranged at supplier's cost.</li> <li>• <b>Analysis support:</b> Since we deal with complex samples, support for analysis should be given by the supplier by sending their application.</li> <li>• Equipment should be future proof and manufacturer is expected to offer upgrade whenever available rather than change models.</li> <li>• <b>Warranty period:</b> 2 years desirable. After sales services must be described in detail. After sales support through Application Lab is very essential.</li> <li>• <b>Training :</b> 3 days during installation. Subsequently at supplier's Application lab for 15 days for two scientists. Provide full details of after sales services staff and application laboratory</li> <li>• Demo of various specifications should be given by the successful bidder</li> </ul>

	<p>before placing order</p> <ul style="list-style-type: none"> <li>• A live demo nearby and analysis of our samples will have to be done by bidders at their cost.</li> <li>• Provide complete details of your customer support laboratory in India and training charges, if any in the next three years after the installation must be quoted.</li> </ul>
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## **2. TECHNICAL SPECIFICATIONS FOR GC-MS-MS TRIPLE QUADRUPOLE SYSTEM**

A triple-quadrupole mass spectrometer is a tandem MS method in which the first and third quadrupoles act as mass filters and the second causes fragmentation of the analyte through interaction with a collision gas. The Triple Quadrupole GC-MS should have the following features to deliver high performance operation, maximum sensitivity, uptime and productivity.

<b>1.</b>	<b>Column Oven</b>	<ul style="list-style-type: none"> <li>• GC column oven temperature control from ambient temperature -20 °C to 450 °C with at least 15/16 heating ramps or better</li> <li>• 2 capillary columns of 30 m should accommodate.</li> <li>• Maximum achievable temperature ramp rate should be 120 °C/min or better</li> <li>• Preferably cool down rate 400<sup>0</sup>C to 50<sup>0</sup>C within 5 minutes or better.</li> </ul>
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2.	<b>Inlet (Two)</b>	<p>The system should be provided with Programmable Split/split less capillary inlet with temperature programming (PTV/MMI) for wide range of capillary column &amp; one split/split less capillary Inlet</p> <ul style="list-style-type: none"> <li>• Pressure range – 0-100psi, Pneumatics – Electronic Flow Control (EFC) or better</li> <li>• Maximum temperature -400°C, Split range – 1:1 &amp; 6000:1 or more</li> </ul>
3.	<b>FID (Flame Ionization Detector)</b>	<p>The system should have one FID detector with the following specification or better:</p> <ul style="list-style-type: none"> <li>• MDL (Minimum Detectable Level): &lt; 2 pg c/s or better(specify the compound)</li> <li>• Dynamic range: &gt; 10<sup>7</sup></li> <li>• Data acquisition rate: up to 400 Hz or better</li> </ul> <p>All gases flow should be adjustable/ controlled by software with no manual control.</p>
4.	<b>Auto Sampler/ Head Space Sampler System / SPME</b>	<ul style="list-style-type: none"> <li>• The system should have a Auto sampler/injector with vial capacity of 100 vials or more with large volume injection capability upto 200 micro litre. Auto sampler must have facility of liquid injection, Head space injection, SPME injection with fibre conditioning module in the same sampler with syringe based technique</li> <li>• Operating Voltage – 230 V</li> </ul>

5.	<b>Triple Quadrupole Mass Spectrometer with EI (Electron Ionization):</b>	<ul style="list-style-type: none"> <li>• Quadrupole should be made up of material to have better mass transfer efficiency and should have heating facility or equivalent technique.</li> <li>• EI source should be made of solid, non-coated, inert material with dual filaments and preferably programmable to 300 °C or better.</li> <li>• Electron energy 0-300 eV</li> <li>• The system should have a inert gas as collision gas</li> <li>• Mass range (m/z) should be upto 1,000 amu or better</li> <li>• Dynamic range (electronic) 10<sup>6</sup></li> <li>• Scan rate (electronic) of 6,000 u/s or better</li> </ul>
6.	<b>Installation Specifications (Instrument detection limit )</b>	<p><b>The sensitivity of system should be as followed and demonstrated at site</b></p> <p><b>0.5 fg</b> octafluoronaphthalene <i>m/z</i> 272 – 200 transition should give</p> <ul style="list-style-type: none"> <li>• area precision - 4% (n=8)</li> <li>• (Instrument Detection Limit (IDL) -0.5 fg with inert ion 2 fg OFN or better</li> </ul>
7.	<b>MS sample Probe</b>	For analysis of solid sample
8.	<b>Software Control System</b>	Basic operation of GC-MS-MS should be controlled from the software having provision for automatic tuning. The MS-MS can be vented and pumped down from the interface for the ultimate in easy maintenance. 21 CFR Para II compliance with IQ/OQ/PQ
9.	<b>Quantitative analysis- Qualitative analysis software</b>	Quantitative analysis- Qualitative analysis software for GC QQQ should be provided
10.	<b>Library/</b>	<ul style="list-style-type: none"> <li>• <b>Database NIST, Wiley &amp; Maurer/ Pfleser/Weber MS Library</b> latest version with license may preferably be supplied with the system.</li> </ul>

<b>11. Other indigenous accessories</b>		<ul style="list-style-type: none"> <li>• ISI marked hydrogen, nitrogen, zero air, helium cylinder with regulators and gas purification system or any other gas required to run the system</li> <li>• Sonicator</li> <li>• Column HP-DB Wax (3 Nos.)</li> <li>• Column HP-DB 5MS (3 Nos.)</li> <li>• Auto Sampler vials- 5000 Nos.</li> <li>• Head Space Vials- 500 Nos.</li> <li>• Ferrules for supplied columns – 20 Nos.</li> <li>• Calibration standards for Mass spectrometer – 2 set</li> <li>• Test mix for GC-MS/MS – 2 Nos.</li> <li>• Injector liners for split/split less injector– 10 nos. each</li> <li>• Septa for GC Injectors – 100 Nos.</li> <li>• Filaments for MS – 10 Nos.</li> <li>• Vacuum Pump oil- 4 Litre</li> <li>• Auto sampler liquid syringes – 10 Nos.</li> <li>• Headspace Syringe- 5</li> <li>• Necessary tool kit for routine maintenance of GC-MS/MS – 1</li> <li>• Tuning solution PFTBA – 1 ml</li> <li>• Deactivated fused silica column</li> </ul>
<b>12. UPS</b>		10 KVA online UPS with 1 hours back up.
<b>13. Computer with printer</b>		PC Dell/HP system of latest version, 8 GB RAM, LED monitor, 1 TB, Display screen TFT colour screen size more than 15 cm with suitable printer
<b>14. Training</b>		Training of two scientists for two weeks after installation.
<b>15. Warranty</b>		5 Years onsite warranty on complete system including all accessories.

**SECTION-III**  
**QUALITY CONTROL REQUIREMENT**

(Proforma for equipment and quality control employed by the manufacturer(s))

Tender Reference No.

Date of opening

Time

Name and address of the Tenderer:

Note: All the following details shall relate to the manufacturer(s) for the goods quoted for.

- 01 Name of manufacturer
  - a. Full postal address
  - b. Full address of the premises
  - c. Telegraphic address
  - d. Telex number
  - e. Telephone number
  - f. E-mail ID
- 02 Plant and machinery details
- 03 Manufacturing process details
- 04 Monthly (single shift) production capacity of goods quoted for
  - a. For incoming materials and brought-out components
  - b. For process control
  - c. For final product evaluation
- 05 Test certificate held
  - a. .type test
  - b. .BIS/ISO certification

c. .any other

06 Details of staff

a. Technical

b. Skilled

c. Unskilled

Signature and Seal of the Tenderer

**SECTION-IV**  
**TENDER FORM**

S.NO.	PARTICULARS	
1.	Name of the Firm/Agency	
2.	Address of the Firm/Agency	
3.	Mobile No. / Phone No.	
4.	Email Address	
5.	Name of the Tenderer	
6.	Registration No. of the Firm (Attached proof)	
7.	Pan No. and TIN No. (Attached proof)	
8.	Copy of Income Tax Return for last two years (Attached proof)	
9.	Service Tax /Sales Tax/ GST No. (Attached proof)	
10.	Name and Address of Bank with details of Bank Account	
11.	Authorized Dealership Certificate of Manufacturer/Company (Attached proof)	
12.	List of PSU/ Recognized/Govt. organizations/Universities etc. where the instrument is working	
13.	Tender document cost of Rs. 500/- (for each tender) (Attached proof)	
14.	Technical Bid and Financial Bid should be sealed by the Bidder/supplier in separate covers duly super scribed. Both sealed covers are to be put in a bigger cover which should also be sealed and duly super scribed “ Tender for supply of _____ instrument.	
15.	Bid security (Earnest Money Deposit)	
16.	Weather agency has been blacklisted by any of the Department/ organization and no criminal case is pending against the said firm (Attach undertaking as per Annexure-I )	
17.	Firm/agency/Company having sufficient experience (Attach undertaking as per Annexure-II )	
18.	Copy of last three executed purchase orders to supply of same in	



	any Central / State Govt./Public Sector etc. in last 5 years as on 31 <sup>st</sup> August 2019	
19.	Tender documents accepted all the terms, conditions and other instructions (Attach undertaking as per Annexure-III )	
20.	Letter of Authorization for attending Bid opening (Attach letter as per Annexure-IV )	
21.	Technical Specifications of the instrument (Attach document)	

This is to certify that I/We have carefully read the contents of the tender documents and fully agree all the terms & conditions therein and undertakes myself/ourselves to abide by the same.

Date:

Signature of the Tenderer:- \_\_\_\_\_

Place:

Name of the Signatory:- \_\_\_\_\_

Name of the Firm/Agency:- \_\_\_\_\_

Seal of the Firm/Agency:- \_\_\_\_\_



## SECTION-V PRICE SCHEDULE

### A) PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA

1	2	3	4	5						6
				Price per unit (Rs)						
Schedule/ Items	Brief Description of Goods	Country of Origin	Quantity -(Nos.)	Ex-factory/ Ex- warehouse/ Ex- showroom/ Off-the shelf Located in India (a)	Excise Duty (if any) [% age & value]  (b)	Sales Tax/ GST(if any) [% age & value]  (c)	Inland transportation, Insurance charges for a period including 3 months beyond date of delivery, loading/uploading and Incidental costs till consignee's site  (d)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site  (e)	Unit price (at the Consignee site) basis  (f) =a+b+c+d+e	Total Price (at the Consignee site ) basis  (Rs.) 4x5(g)

**Total Tender price in Rupees:** \_\_\_\_\_

**In words:** \_\_\_\_\_

Note:-

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section-V-Price Schedule C

**Place:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Name** \_\_\_\_\_  
**Business Address** \_\_\_\_\_  
**Signature of Tenderer** \_\_\_\_\_  
**Seal of Tenderer** \_\_\_\_\_

## SECTION-VI PRICE SCHEDULE

### A) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4	5										
				Price per unit (Currency)										
Schedule/ Items	Brief Description of Goods	Country of Origin	Quantity -(Nos.)	Gross FOB price at sea/air port of Landing (inclusive of Agency Commissi on)	Amount and percentag e of Agency Commissi on **	Net FOB (excluding Agency Commissi on) (a- b)	Insuranc e & Freight	Net CIP by Air/Sea at the port of entry (c+d)	Custom Duty Amount as % of Net CIP(amount with CDED or as applicable) **	Custom Clearance & Handing Charges **	Loading /unloading inland transportation, insurance **	Installatio ns commissi oning, supervisio n, Demonstr ation & training at the consignee 's site **	Unit price on DPP basis at consignee's site	
													(i) In Indian Rupees (b+f+g+h+i)	(ii) In foreign currency (e)
				(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	

**Total price at Consignee's site**

**\*\* (i) In Indian Rupees column 4x (b+f+g+h+i) Rs \_\_\_\_\_**

**(In figures and words)**

**(ii) In foreign currency column (4x e) Rs \_\_\_\_\_**

**(In figures and words)**

Note:-

1. The tenderer will be fully responsible for the safe arrival of the goods at the consignee site in good condition as per terms of DDP (Delivery Duty Paid) .
2. The bidder break up of prices under various columns are for comparison of prices up to delivery of goods at consignee's site for tender evaluation.
3. The quoted price should be supported with original proforma invoice from the foreign manufacturers. The proforma invoice should indicate the percentage of agency commission included in the FOB prices. Indian agent to be paid in Indian Currency.
4. All the components of the DDP(Delivery Duty Paid) price will be paid by the tenderer. The purchaser will make the payment of DPP(Delivery Duty Paid) price after receipt of goods at consignee's site in good condition as per payment terms in the contract.
5. The prices quoted in foreign currency in column (e) shall be converted in Rupees at the selling rate of exchange applicable on the date of price tender opening. The customs duty at a uniform rate on net CIP (Carriage and Insurance Paid) value in rupees will be added to CIP (Carriage and Insurance Paid) price for evaluation and equitable comparison of tenders on DPP basis.

<p><b>Place:</b> _____</p> <p><b>Date:</b> _____</p>	<p><b>Name</b> _____</p> <p><b>Business Address</b> _____</p> <p><b>Signature of Tenderer</b> _____</p> <p><b>Seal of Tenderer</b> _____</p>
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## SECTION-VII PRICE SCHEDULE

### PRICE SCHEDULE FOR COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD TO BE QUOTED FOR 3 YEARS

1	2	3	4			5
Item Sl.No.	Brief Description of goods	Quantity (Nos.)	Comprehensive Maintenance Contract Cost for Each Unit year wise*			Total Comprehensive Maintenance Contract Cost for 3 ( or as specified) years [2x(4a+4b+4c)]
			1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	
			a	b	c	

- \*After completion of Warranty period

**NOTE:-**

1. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/service/operational manual, labour and spares, after satisfactory completion of warranty period may be quoted for next 2 years on yearly basis for complete and Turnkey (if any).
2. The cost of CMC may be quoted along with taxes applicable on the date of price tender opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
3. Cost of CMC will be added for Ranking/Evaluation purpose.
4. The payment of CMC will be made as per the contract
5. All software updates should be provided free of cost during CMC period.
6. The supplier shall keep sufficient stock of spares required during Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.
7. If the instrument is not in working condition, the engineer/supplier should visit and rectify the same with in a week.

<b>Place:</b> _____ <b>Date:</b> _____	<b>Name</b> _____ <b>Business Address</b> _____ <b>Signature of Tenderer</b> _____ <b>Seal of Tenderer</b> _____
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## **SECTION-VIII**

### **ANNEXURES**

**I. *Annexure-I (Blacklisted by any of the Department/ organization and no criminal case is pending against the said firm)***

#### **UNDERTAKING**

It is certified that my firm/agency/company has never been black listed by any of the Department/ Autonomous Institutions/ Universities/Public Sector undertakings of the Government of India or Government of NCT of Delhi or any other State Government etc. and no criminal case is pending against the said firm/ agency as on \_\_\_\_\_

Date: \_\_\_\_\_  
Place: \_\_\_\_\_  
Signature of the Tenderer:- \_\_\_\_\_  
Name of the Signatory:- \_\_\_\_\_  
Name of the Firm/Agency:- \_\_\_\_\_  
Seal of the Firm/Agency:- \_\_\_\_\_

Signature and Seal of the Tenderer

*II. Annexure-II (Having sufficient experience for supply of instrument)*

**UNDERTAKING**

It is certified that my firm/agency/company is having sufficient experience for supply of instrument (Name of Equipment) as mentioned in the Tender Document and all proofs have been attached.

Date: \_\_\_\_\_  
Place: \_\_\_\_\_  
Signature of the Tenderer:- \_\_\_\_\_  
Name of the Signatory:- \_\_\_\_\_  
Name of the Firm/Agency:- \_\_\_\_\_  
Seal of the Firm/Agency:- \_\_\_\_\_

Signature and Seal of the Tenderer

**III. Annexure-III** (Accept all the terms, conditions and others instructions )

**UNDERTAKING**

It is certified that I have personally read the Tender Document and accept all the terms, conditions and others instructions mentioned therein.

Date: \_\_\_\_\_  
Place: \_\_\_\_\_  
Signature of the Tenderer:- \_\_\_\_\_  
Name of the Signatory:- \_\_\_\_\_  
Name of the Firm/Agency:- \_\_\_\_\_  
Seal of the Firm/Agency:- \_\_\_\_\_

Signature and Seal of the Tenderer



**IV. Annexure-IV (LETTER OF AUTHORISATION FOR ATTENDING BID OPENING)**

**LETTER OF AUTHORISATION FOR ATTENDING BID OPENING**

**Subject: Authorization for attending bid opening of tender for supply of Instrument \_\_\_\_\_**

\_\_\_\_\_

Person (Name) is hereby authorized to attend the bid opening for the tender mentioned above on behalf of (Bidder). \_\_\_\_\_

Signature of the Bidder

Or

Authorized Person to sign the Bid

documents on behalf of the bidder

Note:

1. Only one representative will be permitted to attend the bid opening.
2. Permission for entry to the committee hall where bids are opened may be refused in case authorization as prescribed above is not received.

Signature and Seal of the Tenderer

*Annexure - V*

**BIDDER'S WARRANTY**

The Director General, Central Council for Research in Unani Medicine invited Bid Document for Supply of Sophisticated Instruments at DSRI, Ghaziabad

and M/s. \_\_\_\_\_

Thereinafter referred to as "The Bidder" having carefully studied all the bid documents, Specifications, etc. accompanying the tender for supply of the \_\_\_\_\_ (Name of the Instrument) and desirous to submit the bids as per the Tender Document advertised vide Notification -Tender .....

**DO HEREBY WARRANTY THAT**

1. The bidder is familiar with all the requirements of the bid documents.
2. The bidder has inspected/ investigated the site and is satisfied, regarding the character and scope of the work and local conditions that may affect the supply or it's Performance.
2. The bidder is satisfied that the supply can be performed and completed as required in the contract.
4. The bidder accepts all risks directly or indirectly connected with the performance of the contract.
5. The bidder has had no collusion with other contractors, with any officers of Central Council for Research in Unani Medicine, or with any other person in preparation of the bid.
6. The bidder has not been influenced by any statement or promise of the Officials of Central Council for Research in Unani Medicine but only by the bid documents.
7. The bidder is financially solvent.

8. The bidder is experienced and competent to perform the contract to the satisfaction of the Central Council for Research in Unani Medicine.
9. The statements submitted with the bid are true.
10. The contractor is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the supply, work, its performance or personnel employed therein.
11. All the terms & conditions of the Supply Order will bind the bidder once his quote is accepted and supply order issued.

**Signature of the Bidder**

**BANK GUARANTEE**

**CENTRAL COUNCIL FOR  
RESEARCH IN UNANI MEDICINE**

(Ministry of AYUSH)  
61-65, Institutional Area,  
Oppo. D-Block, Janakpuri,  
New Delhi-110058.

This guarantee made this \_\_\_\_\_ day of \_\_\_\_\_ 201\_ by \_\_\_\_\_ Bank having its Registered Office at \_\_\_\_\_ and \_\_\_\_\_ one \_\_\_\_\_ of \_\_\_\_\_ its branches at \_\_\_\_\_ (hereinafter referred to as “the Guarantor” which expression shall, unless it be repugnant to the subject, meaning or context thereof, be deemed to mean and include its successors and assigns) in favour of the CENTRAL COUNCIL FOR RESEARCH IN UNANI MEDICINE represented by its Director General, having his office at 61-65, Institutional Area, Oppo. D-Block, Janakpuri, New Delhi-110058 hereinafter referred to as the “Council” which expression shall include his successors in office for an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) at the request of M/s. \_\_\_\_\_ (more fully described hereunder)

2. Whereas the Council has placed work Order No: PU/ \_\_\_\_\_ dated \_\_\_\_\_ for supply of \_\_\_\_\_ with M/s. \_\_\_\_\_ having its office at \_\_\_\_\_ and hereinafter referred to as the “Contractor” which expression shall include their officers successors and assigns.

3. And whereas the Contractor has accepted and agreed to execute the work as per the work order as per undertaking / agreement dated \_\_\_\_\_ within the time stipulated and in the manner specified therein.

4. And whereas the CCRUM has called upon the Contractor to furnish Bank Guarantee for the sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) for fulfillment of the said work as specified in the work order and as agreed to by the Contractor.

5. And whereas the Contractor has requested the Guarantor herein to furnish an irrevocable and unconditional Bank Guarantee in favour of the Director General, CCRUM for an amount of Rs. \_\_\_\_\_ as guarantee towards execution of the work as agreed to by the contractor.

6. Now, therefore, we \_\_\_\_\_ Bank, the Guarantor herein, do hereby irrevocably and unconditionally Guarantee the payment to the Central Council for Research in Unani Medicine the sum not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) in the event of any breach, failure, neglect or inability on the part of the Contractor in the execution of the said work, on demand without reference of the matter to the Contractor and without any prior consent of the Contractor, at all times throughout the period of execution of the work, without demur, cavil or argument or delay.

7. The Guarantor agrees and undertakes that the decision of the Council as to whether

the contractor has committed any breach of the obligation with respect to the work to be executed, and the quantum of amount therefore payable by the Contractor to the Council in

that regard, shall be final, binding and conclusive as against the Guarantor and the Guarantor shall make payment accordingly, on demand by the CCRUM, New Delhi.

8. The Guarantor further agrees and undertakes to pay to the CCRUM the amount demanded by Council irrespective of and notwithstanding any dispute raised by the Contractor in any suit or proceeding before any judicial forum relating to the Contracted work and the Guarantor's liability under this Guarantee shall be absolute and unequivocal.

9. This Guarantee is issued subject to the condition that the liability of this Guarantor under this guarantee is limited to the maximum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) and the guarantee shall remain in full force up to \_\_\_\_\_ and cannot be invoked otherwise than by a written demand or claim by the CCRUM for the payment of the said amount by the Guarantor on or before \_\_\_\_\_ or any extended date as decided by the CCRUM, New Delhi.

10. That the CCRUM, New Delhi shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the contracted work or to extend time for performance of the work by the Contractor. Any change in the contracted work shall not in any way release the Bank (Guarantor) from liability under this Guarantee and to waive notice of any such change. The Council shall have full liberty to forbear or enforce any of the terms and conditions of the contracted work.

11. This Guarantee shall not be affected by any legal limitation, disability or other circumstances relating to the Contractor or the Guarantor.

12. This Guarantee shall be valid for the period up to \_\_\_\_\_ and shall extend further and beyond \_\_\_\_\_ for such period as may be determined by the CCRUM, New Delhi.

13. The Guarantor undertakes not to revoke this guarantee except with the previous consent of the CCRUM in writing.

14. Notwithstanding anything contained herein:

- Our liability under this guarantee shall be limited to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only)
- This guarantee shall be valid upto \_\_\_\_\_ and for such further period as determined by the CCRUM for fulfillment of the contract.
- We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if you serve upon us a written claim or demand on or before \_\_\_\_\_ or such extended period / date.

In witness whereof, this Guarantee has been executed by \_\_\_\_\_ for and on behalf of the Bank - \_\_\_\_\_ (Guarantor) on the day, month and year first above written.

**SIGNATURE AND SEAL**

**NAME OF THE BANK (GUARANTOR):**

**ADDRESS:**