

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

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IISER/PUR/PT/02/14

19th May 2014

INVITATION FOR BIDS

Sealed and superscribed **Two-Part** bids are invited for supply of following Lab Equipments

I. UV – VIS - SPECTROPHOTOMETER

SCHEDULE

- | | | |
|--------------------------|---|-----------------------------------|
| 1) TENDER NO. | : | IISER/PUR/4209/14 |
| 2) DUE DATE | : | 10 th June 2014 [3 PM] |
| 3) COST OF TENDER # | : | Rs. 500 + 4.04% VAT |
| 4) EMD [BID SECURITY] ** | : | Rs. 2,25,000/- |

SPECIFICATIONS:

UV-VIS-NIR SPECTROPHOTOMETER

The UV-VIS-NIR spectrophotometer will be used for measuring parameters such as absorbance, diffused reflectance, transmittance of solutions, thin films and powders of various metal, organic, inorganic and nano materials. A temperature dependant and controlled environment dependant measurements will be carried out using this instrument. This instrument will be utilized 24 × 7 and vendors should keep in mind the suitability of the equipment for such a continuous operation and quote the parts accordingly. The instruments capabilities and performance should be demonstrated at IISER TVM while installing. Please note that, when we specify the resolution, reproducibility and other parameters, all of them are mentioned with respect to international standard as mentioned by ASTM and NIST and please comply these standards when making a compliance statement with valid proof.

<u>LIGHT SOURCE</u>	Halogen and Deuterium lamp with a life of more than 2000 hours, Automation Position alignment mechanism built in
Wavelength range	175 nm - 3300 nm (or better).
Optical System	Suitable reflecting optical system with high end coating (preferably SiO ₂ coated) with holographic grating monochromator with not less than 1440 lines/mm, blazed at UV/VIS and NIR regions; System should come with littrow mounting with sample thickness compensated detector optics and pre-aligned tungsten-halogen and deuterium sources.
Detector	System should have three Detector configuration. Photomultiplier for high energy in the entire UV/Vis wavelength range. Combination of high performance Peltier-cooled InGaAs detector, 2 options: Narrow band covering 860-1800 or wide band covering 860-2500 nm and Peltier cooled PbS detector for 1800/2500-3300 nm in the NIR wavelength range

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UV/VIS Resolution	Resolution should be ≤ 0.05 nm
NIR Resolution	Resolution should be ≤ 0.2 nm
Stray light	Better than or equal to 0.00007% T at 220 nm (10 g/l NaI ASTM method) and better than or equal to 0.0004% T at 1420 nm with water
Wavelength Accuracy	System should have following wavelength accuracy for UV/Vis and NIR region. UV/VIS $\leq \pm 0.08$ nm. NIR $\leq \pm 0.3$ nm.
Wavelength Reproducibility	System should have following wavelength reproducibility for UV/VIS and NIR region. UV/VIS $\leq \pm 0.02$ nm. NIR $\leq \pm 0.08$ nm.
Photometric Accuracy	Double Aperture Method 1 A : ± 0.0003 & Double Aperture Method 0.5 A : ± 0.0003 A
Photometric Stability	≤ 0.0002 A/h
Baseline Flatness	± 0.0008 A
Photometric Linearity	At 1.0 A : ± 0.0060 A , At 2.0 A : ± 0.0160 A , At 3.0 A ± 0.0050 A , NIR At 1.0 A (1200 nm) ± 0.0005 A , NIR At 2.0 A (1200 nm) : ± 0.0010 A
Photometric Reproducibility	1 A with NIST 930D Filter at 546.1 nm ≤ 0.00016 A 0.5 A with NIST 930D Filter at 546.1 nm ≤ 0.00008 A 0.3 A with NIST 930D Filter at 546.1 nm ≤ 0.00008 A .
Bandpass	0.05 nm - 5.00 nm in 0.01 nm increments in UV/Vis range & 0.20 nm - 20.00 nm in 0.04 nm increments for NIR range
Photometric Noise RMS	0 A and 500 nm ≤ 0.00005 A, 0 A and 1500 nm ≤ 0.00002 A, PbS (Servo) ≤ 0.00250 A, 0 A and 1500 nm InGaAs ≤ 0.00002 A, Wide Band InGaAs (Servo) ≤ 0.00010 A, Narrow Band InGaAs (Servo) ≤ 0.000025 A
Sample Compartment	Dual sample compartment for accommodating snap-in accessories such as 60 mm integrating sphere and automated reflectance accessory attachments. The primary sample compartment should have at least 200 mm wide and second sample compartment should have greater than or equal to 400 mm width to accommodate the reflectance accessory attachments
Measurement modes	System should be capable to run in Transmittance, Absorbance and Reflectance mode.
Sample type	Suitable for measuring the reflectance, transmittance and absorbance of bulk samples, thin films, liquid samples and powders
Signal correction	Chopper design based four segmented signal correction for dark/sample/dark/reference for high absorbance scan quality. Modes: Scan, Time Drive, Wavelength program, Concentration Calibration, Concentration
Sample holders	Various holders for liquid/solid/powders samples to be provided
Baseline Flatness	Better than or equal to ± 0.00007 A from 200-3000 nm, 2 nm slit

IISER/PUR/PT/02/14

Noise Level	UV/VIS: Better than or equal to 0.000050 A RMS at 500 nm, 0A, better than or equal to 0.001 A RMS at 500nm, 4A, better than or equal to 0.0001 A RMS at 190 nm, 0A. NIR: Better than or equal to 0.00004 A RMS at 1500 nm, 0A, better than or equal to 0.001 A RMS at 1500nm, 2A, better than or equal to 0.005 A RMS at 1500 nm, 3A.
Support computer	Branded desktop PC (HP/Compaq/IBM) with following configurations: 3.5 GHz or Intel third or fourth generation core i7 processor, 4GB RAM and expandable, 500 GB hard disk, original Intel motherboard, DVD Rewritable drive, 3 button wireless optical mouse with pad and multimedia wireless keyboard, 1 serial port, 1 parallel port, 4 USB ports rear side, 4 USB ports front side, 10/100/1000 Gigabit NIC, additional bays to increase HDD capacity, 21" LED monitor, Microsoft Windows 7 operating system and MS Office
Software	Original licensed software for the comprehensive operation of the spectrophotometer, computer, integrating sphere and automated reflectance accessory attachments. Software for acquiring the optical constants of thin films, bulk and liquid samples. The software should be embedded in the spectrophotometer control software. Latest version of Microsoft Office utility. Software should have following scans · Wavelength scan (Abs, %T, %R for sample and reference sample). · Time scan (Abs, %T, %R for sample and reference sample) Should be able to export data in different formats including ASCII
Calibration	Accessories (standards) for calibration of reflectance, transmittance and absorbance.
Support kit	Tungsten halogen and deuterium spare lamps – 2 Nos. each, Quartz Cuvette - 10 mm path length – 5 Nos. and solid sample holders for transmittance measurements– 2 Nos.
Mandatory accessories	
(a) Integrating sphere	Snap-in 60 mm diameter integrating sphere accessory with powder and solid sample holders for reflectance and transmittance measurements. This accessory should come with special calibration material like Spectralon standard for calibration. · Diameter: 60 mm or better. · Wavelength range 200 – 2500 nm. · Inside wall of integrating sphere should be coated with barium sulphate or spectralon.
(b) Automated Reflectance Accessory	For absolute variable angle reflectance measurements of high and low reflectance coatings, anti-reflection coatings and band pass filters, etc. by automatically and reproducibly changing the angle of the sample. Horizontal sample mounting is preferable to avoid the vertical clamping damage. This accessory should have fully automated software controlled provision to select required measurement angles from 8 - 68° or better covering the

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	measurement in the range of 200-3000 nm or better and eliminating the need for any manual measurements or manual mirror adjustments.
(c) Polarizer and Depolarizer drive	Accessory to measure the s and p-polarized light
(d) Optional accessories	Quote should also be submitted separately for the following item(s):
(e) Lamps	Tungsten halogen and Deuterium lamps – 2 Nos each.
(f) Power requirement	As per Indian Electrical Standards
(g) Manuals	The following manuals in English should be supplied free of cost along with the system: Detailed user instruction manual, operation / instruction manual, trouble shooting manual, CDROM tutorials for Spectrophotometer, Automated reflectance accessory and integrating sphere attachment. Detailed circuit and fault diagnostic software, detailed circuit diagram of the equipment (Spectrophotometer), maintenance and service manual
(h) Maintenance	The supplier shall provide uninterrupted supply of spares and accessories for a period of 10 years after warranty
(i) Up-gradation	The supplier shall supply any software for spectrophotometer and automatic reflectance accessory whenever they are upgraded at free of cost
(j) Application notes	The supplier shall provide detailed application notes of spectrophotometer, integrating sphere and automated reflectance accessory in hard and soft copies.
(k)	accessories needed to make temperature dependant measurement at least in the range -25°C to 100°C degree and provision for inert atmosphere experiments.
(l)	All calibration standards need to be provided
(m)	quartz cuvettes of various liquid capacity and path length as mentioned below, two pairs of each Micro-cell holder (variable 50 – 500 micro lt.) Micro-cell cuvette for 50 -500 micro lt. cuvette (– 3.5 ml with 10 mm path length; – 1.0 ml with 10.0 mm path length.
General requirements	
A. Documents required:	(i) All technical documents should be in English
	(ii) Should contain all the details related to the UV VIS NIR unit and associated subsystems
	(iii) Should contain all the information related to essential optical, mechanical, electronic and electrical layout drawings of the main system as well as all subsystems required for maintenance and service.
	(iv) Operation and Troubleshooting manual
	(v) QA/ QC documents
	(vi) Site preparation and utilities to be provided by IISER TVM to be specified clearly.
	(vii) Please provide the details of the overall dimensions of the system including utilities.
	(viii) Technical bid should include: a) Drawing of the system with internal arrangements of sub-assemblies and b) The system dimensional details of the system/foot print

IISER/PUR/PT/02/14

	along with the peripherals and utilities c) Worldwide references for such systems has to be attached along with the Quotation
B. Other Requirements	(i) Warranty of 3 years.
	(ii) Indicate the cost of additional 2 years AMC contract beyond the warranty period. (itemize the cost)
	(iii) <u>Spares and Consumables</u> : Recommended Spares for trouble free operation of the system for 5 years. Sufficient number of rapidly wearing and consumable parts is included to cover the guarantee period. <u>Service Support</u> : The vendor should guarantee service support with spare parts availability for a period of ten years and is essential. Please indicate the shortest turn around time for making the equipment operational from the time of reporting the breakdown. (Recommended Spares for trouble free operation of the system for 5 years to be quoted separately)
	(iv) Vendor is required to install and commission the equipment at IISER TVM and demonstrate the performance of the equipment as per mutually agreed upon test/ evaluation protocol. Installation has to be carried out by the trained engineers of the Equipment manufacture.
	(v) After installation of the system, the claimed process capabilities of the system has to be demonstrated. This has to be done at IISER TVM site
	(vi) Training on operation and trouble shooting of the system has to be provided during the installation.
	(vii) The supplier should have their own trained engineers in India to support after sales.
	(viii) Only reputed original equipment manufacturer (OEM) of international standard should only submit the tender.
	(ix) Vendor shall provide list of customers (in India and abroad) along with email addresses, where the similar system has already been installed.
	(x) Vendor shall quote along with above specification compliance details.
	(xi) Detailed Catalogue/ Data Sheet of the quoted item.
	(xii) Clientele List
	(xiii) Performance Letter from the Clients.
	(xiv) Detailed Compliance Sheets are to be attached along with Technical Bids for evaluation. Without detailed Compliance sheet, your offer shall summarily be rejected.
	(xv) Vendor should provide the following details in the quote. System foot print, Weight of the system, Infrastructure facilities required for operation of the system. Vendor should supply gas and water connector fitting and non-corrosive stainless steel tubing. After sales support arrangements.

IISER/PUR/PT/02/14

	<p>Service and maintenance of the system (both preventive and breakdown)</p> <p>A list of essential spares/accessories that need to be kept in stock by IISER TVM.</p> <p>If in case of need, whether these spares/accessories are available in India with your agents/partners. If not, what is the minimum lead time required to supply them?</p>
	<p>(xvi) The manufacturer should have supplied at least 3-5 similar units in India and should have exposed experience in operation and servicing of these tools for more than 3-5 years in India.</p>

II. OPTICAL MICROSCOPE

SCHEDULE

1 TENDER NO.	:	IISER/PUR/4211/14
2 DUE DATE	:	10th June 2014 [3 PM]
3 COST OF TENDER #	:	Rs. 500 + 4.04% VAT
4 EMD [BID SECURITY] **	:	Rs. 4,50,000/-

SPECIFICATIONS:

<p>Upright optical microscope is for doing normal microscopic morphological studies of the samples made in our labs. The samples are thin films, nanocomposites, transparent and opaque samples. Some time we have samples two materials mixed with good transparency but of different refractive index. This microscope is a general purpose microscope, and will be also used for fluorescence, phase contrast and polarization microscopy.</p>	
System Requirements	<p>Research Microscope stand for reflected light and Transmitted light, with inbuilt LED White Day light illumination exchangeable LED Lamp housing with constant color temperature at 4500°K. with dovetail for interchangeable stages, with adjustable height knob, focus stop and torque adjustment, with ground plate. Power supply 90-250V (stabilized), 50/60Hz.</p> <p>The Microscope should be equipped with Fluorescence attachments 100w Hg source for simultaneous operation : complete fluorescence attachment integrated to the microscope. Fluorescence Illuminator with 103W Mercury (Hg) lamp combined with BG 38 filter with Fluorescence Filter Block for work under uv-visible excitation range 400-650nm, all narrow band excitation filters needed. Complete with Special Lamp house and Mirror house for fitting both the illumination.</p>
	<p>3-step focus drive for coarse, medium and fine focusing, focus torque adjustment and adjustable focus stop, with focus knobs</p>
	<p>Plan Acromat Objective set : EPI 5x/0.12,</p>

IISER/PUR/PT/02/14

	EPI 10x/0.25, EPI 20x/0.40, EPI 50x/0.75, EPI 100x/0.85 and Phase contrast objectives : 20x/0.40 PH, 40x/0.65 PH, 100x/1.30 oil
	Infinity corrected & Harmonic Compensated (HC) Optical System
	Objective nosepiece, 6-fold for minimum 6 objectives to use simultaneously
	4-fold illuminator for Reflected Light (RL & TL slot with two FL Filter blocks); with color-coded and centerable iris aperture and field diaphragm. Filter magazine for 4 light filters 32 mm diameter slots for polarizer/ analyzer
Contrast techniques	For Reflected Light- bright field, polarization, & Fluorescence. For Transmitted Light- bright field, Phase Contrast, Polarization.
	Reflector BF (for Bright field), SMITH for Polarization
	Inbuilt Lamp housing with lamp mount for halogen lamp 12V 100W, with 1-lens collector and heat protection filter, mains cable 0.55m with 5 nos. 12V/ 100W halogen lamp – 2 nos
	XY-Stage: size 102x102 mm travel range with stage bracket, XY-drive and ceramic stage plate
	Trinocular Phototube with fixed photo tube, with tube lens □/1x, with 30° viewing angle, with interpupillary adjustment 55-75 mm, with constant focus and 3 beam splitter positions vis/phot: 100%/0%, 50/50%, & 0%/100%, fixed
	Harmonic Corrected Two nos. Focusable & Adjustable Eyepiece 10x/22 or better. Rotatable Polarizer and analyzer in the light path.
	Dust cover for complete set
	Universal Condenser 0.90 with switchable condenser head and , Colour Coded [with respect to the objective colour code - for proper aperture selection] with Condenser lens with 6-position condenser disc, empty, for light rings DF/PH, Rotatable Universal Polarizer for Transmitted Light Condenser.
	Digital color high-sensitivity cooled CCD camera for material and fluorescence microscopy with Grade Zero (Type 2/3) sensor, RGB Bayer mosaic colour filter, with Electronic global shutter/progressive scan readout shutter

IISER/PUR/PT/02/14

	<p>control, Resolution - 1.4 megapixel, (1392 x 1040) and Max. scaled resolution (PC only) 3.3 megapixel, (2088 x 1560), pixel size - 6.45 μm x 6.45 μm, colour depth - 36 bit, A/D converter - 12 bit, dynamic range - > 62 dB (typical), exposure time - 4 μsec. - 10 min., Quantum efficiency - Blue 470 nm 77%; Green 530 nm 73%; Red 600 nm 100%, speed - 35 fps , C- mount - 0.7x</p>
Software	<p>Software should be complete automatic and capable for Sophisticated measurements on individual features including size, shape, position, orientation and intensity parameters for multiple Individual features or particles Provides range of grey image processing methods to enhance image prior to analysis Perform threshold detection on colour and monochrome images Provides range of binary image processing methods to select features for analysis Allows user to modify, add, and delete selected features by manual image editing Allows a guard frame to be set to prevent errors in objects touching edge of image Shows a list of selected parameters for all features measured Uses measurement filtering to classify features for measurement Creates histograms to display the distribution of sizes and shapes Calculates a range of statistics for each parameter and for histograms Exports data to Excel to create user defined reports Analyses multiple images and accumulates data for them Uses Sequence Wizard to interactively establish setting of analysis.</p>
	<p>System should be able to capture an image of large sample than microscope field of view while maintaining high resolution in x-y -z live image building application.</p>
	<p>Special software module for image overlay, movie module</p>
	<p>Microscope camera and software should be from same manufacturer for best integration, best reproducible and repeatable results.</p>
General requirements	
Manuals	<p>Installation, Operation & Maintenance Manuals (with all Circuit diagrams) in English (1 hard copy + 1 soft copy on CD ROM)</p>

IISER/PUR/PT/02/14

Spares and Consumables	Recommended Spares for trouble free operation of the system for 5 years. Sufficient number of rapidly wearing and consumable parts is included to cover the guarantee period.
Service Support	The vendor should guarantee service support with spare parts availability for a period of ten years and is essential. Please indicate the shortest turn around time for making the equipment operational from the time of reporting the breakdown.
Training	Training on operation, programming, application and maintenance of the machine to be provided for 2 engineers and 2 research scholar for minimum of 15 days at IISER TVM
	After installation of the equipment at IISER TVM, the manufacturer should demonstrate the technical capability mentioned in the catalogue in our premises.
Performance Warranty	For 36 months from the date of successful installation at IISER TVM
	The supplier should have their own trained engineers in India to support after sales.
	Vender should provide the following details in the quote. System foot print Weight of the system Infrastructure facilities required for operation of the system. Vender should supply gas and water connector fitting and non-corrosive stainless steel tubing. After sales support arrangements. Service and maintenance of the system (both preventive and breakdown) A list of essential spares/accessories that need to be kept in stock by IISER TVM. If in case of need, whether these spares/accessories are available in India with your agents/partners. If not, what is the minimum lead time required to supply them?
	Only reputed original equipment manufacturer (OEM) of international standard should only submit the tender
	The manufacturer should have supplied at least 3-5 Optical microscope in India and should have exposed experience in operation and servicing of these tools for more than 3-5years
	Vendor shall provide list of customers (in India and abroad) along with email addresses, where the similar system has already been installed. Detailed Catalogue/ Data Sheet of the quoted item.

IISER/PUR/PT/02/14

	Performance Letter from the Clients.
	Detailed Compliance Sheets are to be attached along with Technical Bids for evaluation. Without detailed Compliance sheet, your offer shall summarily be rejected
	Should provide NIST and ASTM standards calibration materials along with the system.
Annual Maintenance Contract	An AMC proposal shall also be send for the above equipment for a suitable period after warranty shall also be included in the quote.
Computer	Pentium 4 (minimum configuration: 3.4 GHz, 4 GB RAM, HD 1TB, DVD R/RW, Mouse, Keyboard, 22 inch LCD and color Printer, Windows 7 (32 bit) operating system, Intel i3 Processor or higher version
Optional	Motorized stages and rotatable stages Additional filters Possibility of multiple camera Possibility of additional lamps

III. FT – IR SPECTROMETER

SCHEDULE

1. TENDER NO. : IISER/PUR/4212/14
2. DUE DATE : 10th June 2014 [3 PM]
3. COST OF TENDER # : Rs. 500 + 4.04% VAT
4. EMD [BID SECURITY] ** : Rs. 1,75,000/-

SPECIFICATIONS:

A Fourier Transmission infrared Spectroscopy (FTIR) for characterizing organic and inorganic materials at inert atmosphere under varying temperatures.	
System Requirements	The system should be of modular design in one platform with all the elements
Spectral Range	Spectral range of (FAR-IR, MID-IR & NIR) 12,000 cm ⁻¹ – 50 cm ⁻¹ or better range with exchangeable MIR, NIR & FIR beam splitter. Necessary source, beam splitter and detector should be quoted to cover the above mentioned range.
Detectors	DLaTGS/DTGS detector for MID IR range, DLaTGS/DTGS (or similar) for FAR IR range and InGaAs/similar type detector for NIR Range.
Beam Splitter	KBr Beam splitter for MID IR range, solid substrate/silicon / mylar beam splitter for FAR IR range and CaF ₂ beam splitter for NIR Range. The beam splitters should be moisture resistant and capable of working in high humidity area should be able to work in high humidity area

IISER/PUR/PT/02/14

Optical Unit	Optical unit should be gold/Al coated, sealed and desiccated with provisions for purging facilities. Optical system should also be compatible for all the accessories and detectors with resolution of about 0.4 cm^{-1} or better.
Software Specifications	Spectrometer components like source, laser, detector, and interferometer must be continuously monitored and the software must offer detailed information about the nature of any failure and suggest possible remedy.
ATR	ATR with Monolithic Diamond crystal for direct Powder, Liquids, Polymer, Films sample analysis without any sample preparations. For MIR and N IR range from 350 cm^{-1} to 12500 cm^{-1}
Diffuse Reflectance Accessory	Temperature range up to 450 degree C. accessory should be capable of measuring catalyst samples with size as small as 3mm total diameter (including powders). Accessory should have the capability to operate in vacuum from 133mPa to 10^{-6} Torr. Accessory should have options to take in external gasses like CO/N ₂ /CO ₂ /He etc. Instrument should operate in entire FTIR range and should come with IR transparent window.
Cell Holder	Variable temperature cell holder for transmission studies of liquids and solids between $-190 \text{ }^{\circ}\text{C}$ to $250 \text{ }^{\circ}\text{C}$. Sealed cell with NaCl windows for Liquids. Additional 20 NaCl plates for recording transmission spectra. Gas cells are needed to be provided for the routine analysis of gases and vapours
Gas Cylinder	High purity nitrogen cylinder (iolar grade) with double stage double meter gas regulator with stainless steel diaphragm and pressure gauge to be quoted
Input power	Available Input power : 220 V one phase/three Phase, 50 Hz
System Accessories	The state-of-the art computer should be supplied with windows based operating system loaded with the system software with printer.
	A suitable UPS of reputed make should be provided along with the system.
	The system should come with a 3 yrs warranty of all the parts including, computer and software, and UPS.
	Any accessories compatible may be quoted as optional.
	Oil free, imported Hydraulic press with Agar pestle and mortar. Liquid cell holder and demountable cell with NaCl windows for viscous/Semi Solid samples, KBr die set, Assorted Rectangular Teflon Spacers, KBr Circular and rectangular Windows, Universal KBr pellet Holder, KBr (4X250g) should be supplied with instrument.
Optional Items	Options for spectra search by single or multi region and feature for library generation & management. Following Libraries should be quoted optionally. 1) ATRFTIR Aldrich-ICHEM Package 30001 (For ResPro) 2) ATRFTIR Aldrich-ICHEM Pkg VOL 1 30001-1 (For ResPro)

IISER/PUR/PT/02/14

	<p>3) ATRFTIR Aldrich-ICHEM Pkg VOL 2 30001-2 (For ResPro)</p> <p>4) Polymers + Polymer Additives (ATR) 30002 (For ResPro)</p> <p>5) Solvents (ATR) 30004 (For ResPro)</p> <p>6) Organometallics + Inorganics (ATR) 30005 (For ResPro)</p> <p>7) Forensic (ATR)30014 (For ResPro)</p> <p>8) Hazardous + Toxic Chemicals (ATR)30018 (For ResPro)</p> <p>9) Pharmactcls Drugs+Antibiotics (ATR) 30020 (For ResPro)</p> <p>10)Upgradable to sophisticated techniques like IR-Raman, TG-IR etc</p>
General requirements	
A. Documents required:	(i) All technical documents should be in English
	(iii) Should contain all the information related to essential optical, mechanical, electronic and electrical layout drawings of the main system as well as all subsystems required for maintenance and service.
	(iv) Operation and Troubleshooting manual
	(v) QA/ QC documents
	(vi) Site preparation and utilities to be provided by IISER TVM to be specified clearly.
	(vii) Please provide the details of the overall dimensions of the system including utilities.
	(viii) Technical bid should include: a) Drawing of the system with internal arrangements of sub-assemblies and b) The system dimensional details of the system/foot print along with the peripherals and utilities c) Worldwide references for such systems has to be attached along with the Quotation
B. Other Requirements	(i) The quoted system should be certified as complete for carrying out the measurement: FT-IR spectra of a variety of samples such as solids, liquids, gels, films etc FTIR spectra of organic, inorganic, organometallic compounds Study of kinetics, catalytic reaction and changes, structural changes of nano material in exposure to any chemical, gas etc.
	(ii) Warranty of 3 years including Source, beam splitter & interferometer. Part numbers of all parts for which warranty will not be applicable should be specified in the quotation.
	(iii) Indicate the cost of additional 2 years AMC contract beyond the warranty period. (itemize the cost)
	(iv)Spares and Consumables: Recommended Spares for

IISER/PUR/PT/02/14

	<p>trouble free operation of the system for 5 years. Sufficient number of rapidly wearing and consumable parts is included to cover the guarantee period.</p> <p><u>Service Support:</u> The vendor should guarantee service support with spare parts availability for a period of ten years and is essential. Please indicate the shortest turn around time for making the equipment operational from the time of reporting the breakdown. (Recommended Spares for trouble free operation of the system for 5 years to be quoted separately)</p>
	(v) Vendor is required to install and commission the equipment at IISER TVM and demonstrate the performance of the equipment as per mutually agreed upon test/ evaluation protocol. Installation has to be carried out by the trained engineers of the Equipment manufacture.
	(vi) After installation of the system, the claimed process capabilities of the system has to be demonstrated. This has to be done at IISER TVM site
	(vii) Training on operation and trouble shooting of the system has to be provided during the installation.
	(viii) The supplier should have their own trained engineers in India to support after sales.
	(ix) Only reputed original equipment manufacturer (OEM) of international standard should only submit the tender.
	(x) Vendor shall provide list of customers (in India and abroad) along with email addresses, where the similar system has already been installed.
	(xi) Vendor shall quote along with above specification compliance details.
	(xii) Detailed Catalogue/ Data Sheet of the quoted item.
	(xiii) Clientele List
	(xiv) Performance Letter from the Clients.
	(xv) Detailed Compliance Sheets are to be attached along with Technical Bids for evaluation.
	<p>(xvi) Vender should provide the following details in the quote. System foot print, Weight of the system, Infrastructure facilities required for operation of the system. Vender should supply gas and water connector fitting and non-corrosive stainless steel tubing. After sales support arrangements. Service and maintenance of the system (both preventive</p>

IISER/PUR/PT/02/14

	and breakdown) A list of essential spares/accessories that need to be kept in stock by IISER TVM. If in case of need, whether these spares/accessories are available in India with your agents/partners. If not, what is the minimum lead time required to supply them?
	(xvii) The manufacturer should have supplied at least 3-5 similar units in India and should have exposed experience in operation and servicing of these tools for more than 3-5years in India.

IV. FLOURIMETER

SCHEDULE

- | | | |
|--------------------------|---|-----------------------------------|
| 1. TENDER NO. | : | IISER/PUR/4213/14 |
| 2. DUE DATE | : | 10 th June 2014 [3 PM] |
| 3. COST OF TENDER # | : | Rs. 500 + 4.04% VAT |
| 4. EMD [BID SECURITY] ** | : | Rs. 3,00,000/- |

SPECIFICATIONS:

The fluorescence spectrophotometer should be capable of both steady-state fluorescence and anisotropy measurements with high sensitivity with the following specifications and features: This will be used for thin films and solutions based fluorescence measurements.	
System Requirements	The system should be of modular design in one platform with all the elements including illumination source, the excitation and emission monochromators, the sample chamber, fluorescence detectors, other related electronics.
Light source (steady state)	Ozone free Xe lamp with good power or better. Enhanced light collection and focusing for maximum efficiency at all wave lengths. Superior optical design to aberration corrected lenses to eliminate chromatic aberration maximally.
Excitation Monochromator	Czerny-Turner type three gratings too get good resolution and through put with a broad spectral band width Wave-length range: 185-850 nm; Band-pass: continuously adjustable 0-20nm, Wave-length resolution: 0.05 nm or lower
Sensitivity	5000:1 or more
Emission monochromator	Czerny-Turner type three gratings too get good resolution and through put with a broad spectral band width Wave-length range: 185- 2000 nm; band-pass: continuously adjustable 0-20nm; Wave-length resolution: 0.05 nm or lower;

IISER/PUR/PT/02/14

	<p>accuracy: +/- 0.05 nm.</p> <p>The system should also be capable of measuring fluorescence anisotropy. The anisotropy parameters should be programmable with the software so that it can be measured directly by using the software.</p>
Detector	<p>Photodiode for excitation correction for 185 nm- 2000 nm. Emission detector: PMT with high sensitivity in photon-counting mode. Or any other better detector with a good spectral windows to get spectra ranging from 185 nm to 2000 nm without any break</p>
Sample chamber	<p>standard thermostable 10 mm cuvette (2 Nos) holder. Should be equipped with Peltier based temperature controlled device to accurately control the chamber temperature ranging 0 degree C – 100 degree C with accuracy +/- 1.0 degree C or better with all related accessories.</p> <p>Cuvette holder for smaller volume samples (200-600 ul) should be provided.</p> <p>Quartz micro cuvette (5 No) (~100 ul), semi-microcuvette (5 Nos) (0.5ml or lower) should be provided.</p> <p>Microcuvette inserts, sample holders if applicable should be provided.</p> <p>Accessories for anisotropy measurement should be provided.</p> <p>Sample holder for thin films.</p>
Software	<p>Software must be able to do data acquisition, display, and all other post-acquisition analysis both in steady state modes.</p>
Computer	<p>The state-of-the art computer should be supplied with windows based operating system loaded with the system softwares with printer.</p>
	<p>A suitable UPS of reputed make should be provided along with the system.</p>
	<p>The system should come with a 3 yrs warranty of all the parts including but not limited to light sources, detectors, Peltier unit, computer and softwares, and UPS.</p>
	<p>Any accessories compatible may be quoted as optional.</p>
	<p>integrating sphere attachments</p>
	<p>Calibration standards with NIST, ASTM standards should be provided.</p>
Optional Items	<p>Electroluminescence and phosphorescence measurement polarization fluorescence options time resolved fluorescence</p>
General requirements	
A. Documents required:	<p>(i) All technical documents should be in English</p>
	<p>(ii) Should contain all the details related to the UV VIS NIR unit and associated subsystems</p>

IISER/PUR/PT/02/14

	(iii) Should contain all the information related to essential optical, mechanical, electronic and electrical layout drawings of the main system as well as all subsystems required for maintenance and service.
	(iv) Operation and Troubleshooting manual
	(v) QA/ QC documents
	(vi) Site preparation and utilities to be provided by IISER TVM to be specified clearly.
	(vii) Please provide the details of the overall dimensions of the system including utilities.
	(viii) Technical bid should include: a) Drawing of the system with internal arrangements of sub-assemblies and b) The system dimensional details of the system/foot print along with the peripherals and utilities c) Worldwide references for such systems has to be attached along with the Quotation.
B. Other Requirements	(i) Warranty of 3 years.
	(ii) Indicate the cost of additional 2 years AMC contract beyond the warranty period. (itemize the cost)
	(iii) <u>Spares and Consumables</u> : Recommended Spares for trouble free operation of the system for 5 years. Sufficient number of rapidly wearing and consumable parts is included to cover the guarantee period. <u>Service Support</u> : The vendor should guarantee service support with spare parts availability for a period of ten years and is essential. Please indicate the shortest turn around time for making the equipment operational from the time of reporting the breakdown. (Recommended Spares for trouble free operation of the system for 5 years to be quoted separately)
	(iv) Vendor is required to install and commission the equipment at IISER TVM and demonstrate the performance of the equipment as per mutually agreed upon test/ evaluation protocol. Installation has to be carried out by the trained engineers of the Equipment manufacture.
	(v) After installation of the system, the claimed process capabilities of the system has to be demonstrated. This has to be done at IISER TVM site
	(vi) Training on operation and trouble shooting of the system has to be provided during the installation.
	(vii) The supplier should have their own trained engineers in India to support after sales.
	(viii) Only reputed original equipment manufacturer (OEM) of international standard should only submit the tender.

IISER/PUR/PT/02/14

	(ix) Vendor shall provide list of customers (in India and abroad) along with email addresses, where the similar system has already been installed.
	(x) Vendor shall quote along with above specification compliance details.
	(xi) Detailed Catalogue/ Data Sheet of the quoted item.
	(xii) Clientele List
	(xiii) Performance Letter from the Clients.
	(xiv) Detailed Compliance Sheets are to be attached along with Technical Bids for evaluation. Without detailed Compliance sheet, your offer shall summarily be rejected.
	(xv) Vender should provide the following details in the quote. System foot print, Weight of the system, Infrastructure facilities required for operation of the system. Vender should supply gas and water connector fitting and non-corrosive stainless steel tubing. After sales support arrangements. Service and maintenance of the system (both preventive and breakdown) A list of essential spares/accessories that need to be kept in stock by IISER TVM. If in case of need, whether these spares/accessories are available in India with your agents/partners. If not, what is the minimum lead time required to supply them?
	(xvi) The manufacturer should have supplied at least 3-5 similar units in India and should have exposed experience in operation and servicing of these tools for more than 3-5years in India.

TERMS & CONDITIONS

[APPLICABLE TO ALL THE ABOVE TENDERS]:

- 1) **Separate Bid with Tender No. & Item Name shall be separately sent for each Tender**
- 2) Instruction to Bidder [Annexure I] shall be followed.
- 3) General conditions of the Contract are as per Annexure II.
- 4) [#] Tender cost in the form of DD favouring IISERTVM shall be sent along with 'Technical bid'.
- 5) ~~**Bid Security [refundable without any interest] shall be as per clause 1.15 of Annexure I and shall also be sent alongwith~~ Technical bid. Incase the Bid security is provided by Bank Guarantee, specimen for the same is at Annexure III.
- 6) Clause 1.10[Bid Form] of Annexure I is **not** applicable for this Tender.
- 7) ***Tenders without Tender Cost and Bid Security shall not be considered and summarily to be disqualified from participating tender.***

IISER/PUR/PT/02/14

8) Tender Opening:

All tenders will be opened at our Director's Conference Hall on **11th June 2014 at 11 AM**. Authorized representatives of the bidders may attend the Tender Opening.

TWO - PART TENDER


PART I - TECHNICAL BID:

Consisting of all Technical details alongwith commercial terms and conditions. DD towards Tender Cost, Bid Security [EMD] and Integrity Pact signed shall be sent alongwith Technical bids.

PART II - PRICE BID:

Showing item-wise prices for the items mentioned in the Technical Bid.

The technical bid and the Price bid should be in separate sealed and superscribed covers. Both these covers are to be put in a sealed bigger cover superscribing Tender No and due date. Technical bids will be opened first and after evaluation, price bids of only the shortlisted bidders will be opened.


**DEPUTY REGISTRAR [F&A]
[PURCHASE & STORES]
IISERTVM**

INSTRUCTIONS TO BIDDER

TABLE OF CONTENTS

Sl.No. Contents

- 1.1. Eligible Bidders
- 1.2. Cost of Bidding
- 1.3. Fraud and Corruption
- 1.4. Cost of Bidding Documents
- 1.5. Content of Bidding Documents
- 1.6. Clarification of bidding documents
- 1.7. Amendment of Bidding Documents
- 1.8. Language of Bid
- 1.9. Documents Comprising the Bid
- 1.10. Bid form and price schedule
- 1.11. Bid Prices
- 1.12. Bid Currencies
- 1.13. Documents Establishing Bidder's Eligibility and qualifications
- 1.14. Documents Establishing Goods' Eligibility And Conformity to Bidding Documents
- 1.15. Bid Security
- 1.16. Period of Validity of Bids
- 1.17. Format and Signing of Bid
- 1.18. Submission, Sealing and Marking of Bids
- 1.19. Deadline for Submission of Bids
- 1.20. Late Bids
- 1.21. Withdrawal, substitution and Modification of Bids
- 1.22. Opening of Bids by the Purchaser
- 1.23. Confidentiality
- 1.24. Clarification of Bids
- 1.25. Preliminary Examination
- 1.26. Responsiveness of Bids
- 1.27. Non-Conformity, Error and Omission
- 1.28. Examination of Terms & Conditions, Technical Evaluation
- 1.29. Conversion to Single Currency
- 1.30. Evaluation and Comparison of bids
- 1.31. Comparison of Bids
- 1.32. Contacting the Purchaser
- 1.33. Post qualification
- 1.34. Negotiations
- 1.35. Award Criteria
- 1.36. Purchaser's right to vary Quantities at Time of Award
- 1.37. Purchaser's right to accept any Bid and to reject any or all Bids
- 1.38. Notification of Award
- 1.39. Signing of Contract
- 1.40. Order Acceptance
- 1.41. Performance Security

Introduction

1.1. ELIGIBLE BIDDERS.

1.1.1 This Invitation for Bids is open to all suppliers.

1.1.2 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids.

1.2. COST OF BIDDING

1.2.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

1.3. FRAUD AND CORRUPTION:

1.3.1 The purchaser requires that the bidders suppliers and contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the following are defined:

"corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;

"fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;

"collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the purchaser, designed to establish bid prices at artificial, noncompetitive levels; and "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract;

1.3.2 The purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question;

The Bidding Documents

1.4. COST OF BIDDING DOCUMENTS

1.4.1 Interested eligible bidders may purchase the bidding documents on payment of the cost of bidding documents as indicated in the invitation for bids/NIT or alternatively, the bidding documents can be downloaded from our Website as indicated in the Invitation for Bids/NIT free of cost.

1.5. CONTENT OF BIDDING DOCUMENTS

1.5.1 The goods required, bidding procedures and contract terms are prescribed in the bidding documents which should be read in conjunction. The bidding documents, apart from the invitation for bids have been divided into 8 chapters as under:

Chapter 1: Instructions to Bidder (ITB)

Chapter 2: General Conditions of Contract (GCC) and Special Conditions of Contract (SCC)

1.5.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

1.6. CLARIFICATION OF BIDDING DOCUMENTS

1.6.1 A prospective Bidder requiring any clarification of the Bidding Documents shall contact the Purchaser in writing at the Purchaser's address specified in the Special Conditions of Contract (SCC). The Purchaser will respond in writing to any request for clarification, provided that such request is received not later than ten (10) days prior to the deadline for submission of bids. The Purchaser shall forward copies of its response to all those who have acquired the Bidding Documents directly from it, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under clause relating to amendment of Bidding documents and Clause relating to Deadline for Submission of Bids. The clarifications and amendments issued would also be hosted on the website of the purchaser for the benefit of the other prospective bidders.

1.7. AMENDMENT OF BIDDING DOCUMENTS

1.7.1 At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.

1.7.2 All prospective bidders who have received the bidding documents will be notified of the amendment in writing or by cable or by fax, or by e mail and will be binding on them. The same would also be hosted on the website of the purchaser and all prospective bidders are expected to surf the website before submitting their bids to take cognizance of the amendments.

1.7.3 In order to allow prospective bidders reasonable time to take the amendment into account, while in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids and host the changes on the website of the purchaser.

PREPARATION OF BIDS

1.8. LANGUAGE OF BID

1.8.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in English language only especially when the details are technical.

However of GOI makes it mandatory under Rajbhasha Abhniyam in that case views of Rajbhasha unit of IISER-TVM may be sought.

1.8.2 The Supplier shall bear all costs of translation, if any, to the English language and all risks of the accuracy of such translation, for documents provided by the Supplier.

1.9. DOCUMENTS COMPRISING THE BID

1.9.1 The bid prepared by the Bidder shall include:

- a) Bidder Information Form
- b) Bid security as specified in the Invitation to Bids.
- c) Service support details form;
- d) Deviation Statement Form;
- e) Performance Statement Form;
- f) Manufacturer's Authorization Form.
- g) Documentary evidence establishing that the bidder is eligible to bid and is qualified to perform the contract if its bid is accepted.
- h) Bid form.
- i) Documents establishing goods eligibility and conformity to bidding documents.
- j) Applicable Price Schedule Form.

- k) DGS&D Registration certificate in case the items under procurement falls under the restricted category of the current export-import policy of the Govt. of India.

1.10. BID FORM AND PRICE SCHEDULE

1.10.1 The bidder shall complete the Bid Form and the appropriate price schedule form furnished in the bidding documents. These forms must be completed without any alterations to its format and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

1.11. BID PRICES

1.11.1 The Bidder shall indicate on the appropriate price schedule form, the unit prices and total bid prices of the goods it proposes to supply under the contract.

1.11.2 Prices indicated on the price-schedule form shall be entered separately in the following manner:

(a) For Goods manufactured within India

(i) The price of the goods quoted Ex-works including taxes already paid.

(ii) VAT and other taxes like excise duty etc. which will be payable on the goods if the contract is awarded.

a. The charges for inland transportation, insurance and other local services required for delivering the goods at the desired destination as specified in the price schedule form.

b. The installation, commissioning and training charges including any incidental services, if any.

(b) For Goods manufactured abroad

(i) The price of the goods, quoted on FCA (named place of delivery abroad) or FOB (named port of shipment), as specified in the price schedule form.

(ii) The charges for insurance and transportation of the goods to the port/place of destination.

(iii) The agency commission charges, if any.

(iv) The installation, commissioning and training charges including any incidental services, if any

1.11.3 The terms FOB, FCA, CIF, CIP etc shall be governed by the rules prescribed in the current edition of the Incoterms published by the International Chambers of Commerce, Paris.

1.11.4 Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc. such offer shall be rejected as incomplete.

1.11.5 The price quoted shall remain fixed during the contract period and shall not vary on any account

1.11.6 All lots and items must be listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced their prices shall be assumed to be included in the prices of other items. Lots or items not listed in the Price Schedule shall be assumed to be not included in the bid.

1.11.7 The purchases made by the purchaser for scientific purpose are exempt from excise duty and Custom Duty at a concessional rate is leviable.

1.12. BID CURRENCIES

1.12.1 Prices shall be quoted in Indian Rupees for offers received for supply within India and in freely convertible foreign currency in case of offers received for supply from foreign countries.

1.13. DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATIONS

1.13.1 The bidder shall furnish, as part of its bid, documents establishing the bidders' eligibility to bid and its qualification to perform the contract if its bid is accepted.

1.13.2 The documentary evidence of the bidders qualification to perform the

contract if the bid is accepted shall establish to the purchasers satisfaction that;

(a) The bidder meets the qualification criteria listed in bidding documents, if any.

(b) Bidder that doesn't manufacture the goods it offers to supply shall submit to Manufacturers' Authorization Form (MAF) using the form specified in the bidding document to demonstrate that it has been duly authorized by the manufacturer of the goods to quote and/or supply the goods.

(c) In case a bidder not doing business within India, it shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India equipped and able to carry out the supply, maintenance, repair obligations etc. during the warranty and post warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc. during the warranty and post-warranty period.

1.13.3 Conditional tenders shall not be accepted

1.14. DOCUMENTS ESTABLISHING GOODS' ELIGIBILITY AND CONFORMITY TO BIDDING DOCUMENTS

1.14.1 To establish the goods' eligibility, the documentary evidence of the goods and services eligibility shall consist of a statement on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.

1.14.2 To establish the conformity of the goods and services to the specifications and schedule of requirements of the bidding document, the documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings and data, and shall consist of:

(a) A detailed description of the essential technical and performance characteristics of the goods;

(b) A list giving full particulars, including available sources and current prices, of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods during the warranty period following commencement of the use of the goods by the Purchaser in the Pricedbid; and

(c) An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.

1.14.3 For purposes of the commentary to be furnished pursuant to above, the Bidder shall note that standards for workmanship, material and equipment, designated by the Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute these in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

1.15. BID SECURITY

1.15.1 The Bidder shall furnish, as part of its bid, a bid security (BS) for an amount as specified in the Invitation for Bids. In the case of foreign bidders, the BS shall be submitted either by the principal or by the Indian agent and in the case of indigenous bidders; the BS shall be submitted by the manufacturer or their specifically authorized dealer/bidder.

1.15.2 The bid security is required to protect the Purchaser against the risk of

- Bidder's conduct, which would warrant the security's forfeiture.
- 1.15.3 The bid security shall be in Indian Rupees for offers received for supply within India and denominated in the currency of the bid or in any freely convertible foreign exchange in the case of offers received for supplies from foreign countries in equivalent Indian Rupees. The bid security shall be in one of the following forms at the bidders' option:
(a) A bank guarantee issued by a Nationalized/Scheduled bank/Foreign Bank operating in India in the form provided in the bidding documents and valid for 45 days beyond the validity of the bid. In case a bidder desires to submit a BG issued from a foreign bank, then the same should be confirmed by a Nationalised/Scheduled Indian bank; or
(b) Fixed Deposit receipt pledged in favour of the IISER-TVM.
(c) A Banker's cheque or demand draft in favour of the purchaser issued by any Nationalised/Scheduled Indian bank.
- 1.15.4 The bid security shall be payable promptly upon written demand by the purchaser in case the conditions listed in the ITB clause 15.11 are invoked.
- 1.15.5 The bid security should be submitted in its original form. Copies shall not be accepted.
- 1.15.6 While Bid security (EMD) is a requirement, the Director IISER-TVM may grant exemption of Bid security to some specific parties having sound credentials and are of national/international repute.
- 1.15.7 The bid security of unsuccessful bidder will be discharged /returned as promptly as possible positively within a period of 15 days after the expiration of the period of bid validity or placement of order whichever is later, without any interest.
- 1.15.8 The successful Bidder's bid security will be discharged upon the Bidder furnishing the performance security, without any interest. Alternatively, the BS could also be adjusted against PS, if it is paid through DD/BC.
- 1.15.9 The firms registered with DGS&D, NSIC, Govt. Public Undertakings, and Central Autonomous Bodies and with the IISER-TVM, if any, are exempted from payment of bid security (BS) provided such registration includes the item they are offering which are manufactured by them and not for selling products manufactured by other companies.
- 1.15.10 In case a bidder intimates at the time of tender opening in writing that the bid security is kept inside the financial bid, then in such cases, the technical bid of the party would be accepted provisionally till opening of the financial bids with which the party has attached the bid security.
- 1.15.11 The bid security may be forfeited:
(a) If a Bidder withdraws or amends or impairs or derogates its bid during the period of bid validity specified by the Bidder on the Bid Form; or
(b) In case of a successful Bidder, if the Bidder fails to furnish order acceptance within 15 days of the order or fails to sign the contract and/or fails to furnish Performance Security within 21 days from the date of contract/ order.
- 1.16. PERIOD OF VALIDITY OF BIDS**
- 1.16.1 Bids shall remain valid for minimum of 90 days after the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
- 1.16.2 In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by cable, telex, fax or e-mail). The bid security provided shall also be suitably extended. A Bidder may

refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.

1.16.3 Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

1.17. FORMAT AND SIGNING OF BID

1.17.1 The bids may be submitted in single envelop or in two parts as specified in the Invitation for Bids.

1.17.2 In case the bids are invited on single envelop basis, then the Bidder shall prepare two copies of the bid, clearly marking each "Original Bid" and "Copy Bid", as appropriate. In the event of any discrepancy between them, the original shall govern.

1.17.3 In case the bids are invited on two-bid system, the Bidder shall submit the bids in two separate parts. One part shall contain Technical bid comprising all documents listed under clause relating to Documents Comprising the Bid excepting bid form and price schedules. The other part shall contain the priced-bid comprising bid form and price schedules. The Bidder shall prepare two copies of the bid, clearly marking each "Original Bid" and "Copy Bid", as appropriate.

1.17.4 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. All pages of the bid, except for un-amended printed literature, shall be initialled by the person or persons signing the bid.

1.17.5 Any interlineations, erasures or overwriting shall be valid only if they are initialed by the persons or persons signing the bid.

1.18. SUBMISSION, SEALING AND MARKING OF BIDS

1.18.1 The bidders may submit their duly sealed bids generally by post or by hand.

1.18.2 In the case of bids invited on single envelop basis, the Bidders shall seal the original and each copy of the bid in separate inner envelopes, duly marking the envelopes as "original" and "copy". The envelopes shall then be sealed in an outer envelope.

1.18.3 In the case of bids invited on two part basis, the Bidder shall seal the un-priced commercial and technical bid comprising the documents as listed in ITB 1.9.1 excepting for h & j and the priced bid in two separate envelopes duly marked as "Technical bid" and "priced bid". Both the envelopes shall then be sealed in one outer envelope.

1.18.4 (a) The inner and outer envelopes shall be addressed to the Purchaser indicated in the SCC.

(b) Bear the name and address of the bidder, Tender No., due date and a warning "Do not open before _____" to be completed with the time and date as specified in the invitation for bids.

1.18.5 If the outer envelope is not sealed and marked as required above, the Purchaser will assume no responsibility for the bid's misplacement or premature opening. In such cases, bids received in open condition within the due date and time will be accepted at the risk of the bidder if the same is presented to the Stores & Purchase Officer before expiry of the due date and time of opening of the bids.

1.18.6 Firms submitting bids in a single envelope against the requirement of two-bid system would be considered for further evaluation at the risk & responsibility of the bidder. However, the opened priced bid would be sealed immediately by the TOC without disclosing the price.

1.19. DEADLINE FOR SUBMISSION OF BIDS

1.19.1 Bids must be received by the Purchaser at the address specified in Invitation for bids not later than the time and date specified therein. In the event of the specified date for the submission of Bids being declared a holiday for the Purchaser, the Bids will be received up to the appointed time on the next working day.

1.19.2 The Purchaser may, at its discretion, extend the deadline for submission of bids by amending the bid documents in accordance with Clause relating to Amendment of Bidding Documents in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

1.20. LATE BIDS

1.20.1 Any bid received by the Purchaser after the deadline for submission of bids prescribed by the Purchaser will be rejected.

1.20.2 Such tenders shall be marked as late and not considered for further evaluation. They shall not be opened at all and be returned to the bidders in their original envelope without opening.

1.21. WITHDRAWAL, SUBSTITUTION AND MODIFICATION OF BIDS

1.21.1 A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice in accordance with ITB Clause 18 duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB Sub- Clause 17.4 (except that no copies of the withdrawal notice are required). The corresponding substitution or modification of the bid must accompany the respective written notice.

All notices must be:

(a) submitted in accordance with ITB Clauses 17 and 18 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," or "MODIFICATION;" and (b) Received by the Purchaser prior to the deadline prescribed for submission of bids, in accordance with ITB Clause 19.

1.21.2 Bids requested to be withdrawn in accordance with ITB Sub-Clause 21.1 shall be returned unopened to the Bidders. No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form or any extension thereof.

Opening and Evaluation of Bids

1.22. OPENING OF BIDS BY THE PURCHASER

1.22.1 The Purchaser will open all bids one at a time in the presence of Bidders' authorized representatives who choose to attend, as per the schedule given in invitation for bids. The Bidders' representatives who are present shall sign the quotation opening sheet evidencing their attendance. In the event of the specified date of Bid opening being declared a holiday for the Purchaser, the Bids shall be opened at the appointed time and location on the next working day. In two-part bidding, the financial bid shall be opened only after technical evaluation. 1.22.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening. Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution

notice contains a valid authorization to request the substitution and is read out at bid opening. Envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid opening. Only envelopes that are opened and read out at Bid opening shall be considered further.

- 1.22.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the Purchaser, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bid(s). The contents of the bid forms and price schedules would however be announced only at the time of opening of Priced-bids in the case of two-bid system.
- 1.22.2.1 Bids that are received late shall not be considered further for evaluation, irrespective of the circumstances.
- 1.22.2.2 Bidders interested in participating in the bid opening process, should depute their representatives along with an authority letter to be submitted to the purchaser at the time of bid opening.

1.23. CONFIDENTIALITY

- 1.23.1 Information relating to the examination, evaluation, comparison, and post qualification of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until publication of the Contract Award.
- 1.23.2 Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post qualification of the bids or contract award decisions may result in the rejection of its Bid.

1.24. CLARIFICATION OF BIDS

- 1.24.1 To assist in the examination, evaluation, comparison and post qualification of the bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted. However, no negotiation shall be held except with the lowest bidder, at the discretion of the purchaser. Any clarification submitted by a bidder in respect to its bid which is not in response to a request by the purchaser shall not be considered.

1.25. PRELIMINARY EXAMINATION

- 1.25.1 The Purchaser shall examine the bids to confirm that all documents and technical documentation requested in ITB Clause 1.9 have been provided, and to determine the completeness of each document submitted.
- 1.25.2 The Purchaser shall confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the offer shall be rejected.
 - (a) Bid Form and Price Schedule, in accordance with ITB Sub-Clause 1.10;
 - (b) All the tenders received will first be scrutinized to see whether the tenders meet the basic requirements as incorporated in the tender enquiry document. The tenders, who do not meet the basic requirements, are to be treated as unresponsive and ignored. The following are some of the important points, for which a tender may be declared as unresponsive and to be ignored, during the initial scrutiny:
 - (i) The Bid is unsigned.
 - (ii) The Bidder is not eligible.
 - (iii) The Bid validity is shorter than the required period.
 - (iv) The Bidder has quoted for goods manufactured by a different firm without the required authority letter from the proposed manufacturer.

- (v) Bidder has not agreed to give the required performance security.
- (vi) The goods quoted are sub-standard, not meeting the required specification etc.
- (vii) Against the schedule of Requirement (incorporated in the tender enquiry), the tenderer has not quoted for the entire requirement as specified in that schedule.
- (viii) The tenderer has not agreed to some essential condition(s) incorporated in the tender enquiry.

1.26. RESPONSIVENESS OF BIDS

- 1.26.1 Prior to the detailed evaluation, the purchaser will determine the substantial responsiveness of each bid to the bidding documents. For purposes of this clause, a substantive responsive bid is one, which conforms to all terms and condition of the bidding documents without material deviations, reservations or omissions. A material deviation, reservation or omission is one that:
- (a) affects in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or
 - (b) limits in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or (c) if rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.
- 1.26.2 The purchasers' determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 1.26.3 If a bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation or omission.

1.27. NON-CONFORMITY, ERROR AND OMISSION

- 1.27.1 Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformity or omissions in the Bid that do not constitute a material deviation.
- 1.27.2 Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
- 1.27.3 Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:
- (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
 - (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.
- 1.27.4 Provided that a bid is substantially responsive, the purchaser may request that a bidder may confirm the correctness of arithmetic errors as done by the purchaser within a target date. In case, no reply is received then the

bid submitted shall be ignored and its Bid Security may be forfeited.

1.28.

EXAMINATION OF TERMS & CONDITIONS, TECHNICAL EVALUATION

- 1.28.1 The Purchaser shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.
- 1.28.2 The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with ITB Clause 14, to confirm that all requirements specified in Schedule of Requirements of the Bidding Documents have been met without any material deviation or reservation.
- 1.28.3 If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Bid is not substantially responsive in accordance with ITB Clause 26, it shall reject the Bid.

1.29.

CONVERSION TO SINGLE CURRENCY

- 1.29.1 To facilitate evaluation and comparison, the Purchaser will convert all bid prices expressed in the amounts in various currencies in which the bid prices are payable to Indian Rupees at the selling exchange rate established by any bank in India as notified in the Newspapers on the date of bid opening in the case of single part bidding and the rates prevalent on the date of opening of the Priced bids in the case of two-part bidding. For this purpose, exchange rate notified in www.xe.com or www.rbi.org or any other website could also be used by the purchaser.

1.30.

EVALUATION AND COMPARISON OF BIDS

- 1.30.1 The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive
- 1.30.2 To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined below. No other criteria or methodology shall be permitted.
- 1.30.3 The bids shall be evaluated on the basis of final landing cost which shall be arrived as under:
For goods manufactured in India
(i) The price of the goods quoted ex-works including all taxes already paid.
(ii) VAT and other taxes like excise duty etc. which will be payable on the goods if the contract is awarded.
(iii) Charges for inland transportation, insurance and other local services required for delivering the goods at the desired destination.
(iv) The installation, commissioning and training charges including incidental services, if any.
For goods manufactured abroad
(i) The price of the goods, quoted on FCA (named place of delivery abroad) or FOB (named port of shipment), as specified in the bidding document.
(ii) The charges for insurance and transportation of the goods to the port/place of destination.
(iii) The agency commission etc., if any.
(iv) The installation, commissioning and training charges including incidental services, if any.
- 1.30.4 The comparison between the indigenous and the foreign offers shall be made on FOR destination basis and CIF/CIP basis respectively. However, the CIF/CIP prices quoted by any foreign bidder shall be loaded further as under:
a) Towards customs duty and other statutory levies—as per applicable rates.
a) Towards custom clearance, inland transportation etc. - 2% of the CIF/CIP value.
Note: Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc. such offers shall be rejected as incomplete.
- 1.30.5 In the case of Purchase of many items against one tender, which are not

inter- dependent or, where compatibility is not a problem, normally the comparison would be made on ex-works, (in case of indigenous items) and on FOB / FCA (in the case of imports) prices quoted by the firms for identifying the lowest quoting firm for each item.

1.30.6 Orders for imported stores need not necessarily be on FOB/FCA basis rather it can be on the basis of any of the incoterm specified in ICC Incoterms 2000 as may be amended from time to time by the ICC or any other designated authority and favourable to IISER-TVM.

1.30.7 Wherever the price quoted on FOB/FCA and CIF/CIP basis are the same, the Contract would be made on CIF / CIP basis only.

1.30.8 The GCC and the SCC shall specify the mode of transport i.e whether by air/ocean/road/rail.

1.31. THE PURCHASER SHALL COMPARE ALL SUBSTANTIALLY RESPONSIVE BIDS TO DETERMINE THE LOWEST EVALUATED BID, IN ACCORDANCE WITH ITB CLAUSE 1.30

1.32. CONTACTING THE PURCHASER

1.32.1 Subject to ITB Clause 1.24, no Bidder shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.

1.32.2 Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.

1.33. POST QUALIFICATION

1.33.1 In the absence of pre-qualification, the Purchaser will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 13.

1.33.2 The determination will take into account the eligibility criteria listed in the bidding documents and will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Purchaser deems necessary and appropriate.

1.33.3 An affirmative determination will be a prerequisite for award of the contract to the Bidder.

A negative determination will result in rejection of the Bidder's bid.

AWARD OF CONTRACT

1.34. NEGOTIATIONS

There shall not be any negotiation normally. Negotiations, if at all, shall be an exception and only in the case of items with limited source of supply. Negotiations shall be held with the lowest evaluated responsive bidder. Counter offers tantamount to negotiations and shall be treated at par with negotiations in the case of one time purchases.

1.35. AWARD CRITERIA

Subject to ITB Clause 37 the Purchaser will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

1.36. PURCHASER'S RIGHT TO VARY QUANTITIES AT TIME OF AWARD

The Purchaser reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions. Further, at the discretion of the purchaser, the quantities in the contract may be enhanced by 30% within the delivery period.

1.37. PURCHASER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders.

1.38. NOTIFICATION OF AWARD

1.38.1 Prior to the expiration of the period of bid validity, the Purchaser will notify the successful bidder in writing by registered letter or by cable or telex or fax or e mail that the bid has been accepted and a separate purchase order shall follow through post.

1.38.2 Until a formal contract is prepared and executed, the notification of award should constitute a binding contract.

1.38.3 Upon the successful Bidder's furnishing of the signed Contract Form and performance security pursuant to ITB Clause 1.41, the purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security.

1.39. SIGNING OF CONTRACT

1.39.1 Promptly after notification, the Purchaser shall send the successful Bidder the Agreement/PO.

1.39.2 Within twenty-one (21) days of date of the Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.

1.40. ORDER ACCEPTANCE

1.40.1 The successful bidder should submit Order acceptance within 15 days from the date of issue, failing which it shall be presumed that the vendor is not interested and his bid security is liable to be forfeited pursuant to clause 15.9 of ITB.

1.40.2 The order confirmation must be received within 15 days. However, the Purchaser has the powers to extend the time frame for submission of order confirmation and submission of Performance Security (PS). Even after extension of time, if the order confirmation /PS are not received, the contract shall be cancelled and limited tenders irrespective of the value shall be invited from the responding firms after forfeiting the bid security of the defaulting firm, where applicable, provided there is no change in specifications. In such cases the defaulting firm shall not be considered again for re-tendering in the particular case.

1.41. PERFORMANCE SECURITY

1.41.1 Within 21 days of receipt of the notification of award/PO, the Supplier shall furnish performance security in the amount specified in SCC, valid till 60 days after the warranty period. Alternatively, the PS may also be submitted at the time of release of final payment in cases where part payment is made against delivery & part on installation. The PS, where applicable, shall be submitted in advance for orders where full payment is to be made on Letter of Credit (LC) or on delivery. In this case, submission of PS at the time of negotiation of documents through Bank would be stipulated as a condition in the LC and the BS should be kept valid till such time the PS is submitted.

1.41.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

1.41.3 The Performance Security shall be denominated in Indian Rupees for the offers received for supplies within India and denominated in the currency of the contract in the case of offers received for supply from foreign

- countries.
- 1.41.4 In the case of imports, the PS may be submitted either by the principal or by the Indian Agent and, in the case of purchases from indigenous sources, the PS may be submitted by either the manufacturer or their authorized dealer/bidder.
- 1.41.5 The Performance security shall be in one of the following forms:
(a) A Bank guarantee or stand-by Letter of Credit issued by a Nationalized/Scheduled bank located in India or a foreign bank with preferably its operating branch in India in the form provided in the bidding documents. Or
(b) A Banker's cheque or Account Payee demand draft in favour of the purchaser. Or
(c) A Fixed Deposit Receipt pledged in favour of the Purchaser.
- 1.41.6 The performance security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including any warranty obligations, unless specified otherwise in SCC, without levy of any interest.
- 1.41.7 In the event of any contract amendment, the supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the performance security, rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter.
- 1.41.8 The order confirmation should be received within 15 days from the date of notification of award. However, the purchaser has the powers to extend the time frame for submission of order confirmation and submission of Performance Security (PS). Even after extension of time, if the order confirmation /PS are not received, the contract shall be cancelled and limited tenders irrespective of the value would be invited from the responding firms after forfeiting the bid security of the defaulting firm, where applicable provided there is no change in specifications. In such cases the defaulting firm would not be considered again for retendering in the particular case.

**DEPUTY REGISTRAR [F&A]
ADDITIONAL CHARGE [P&S]
IISERTVM**

GENERAL TERMS & CONDITIONS OF THE CONTRACT

TABLE OF CONTENTS

Sl.No. Contents

2.1	Definitions
2.2	Contract Documents
2.3	Fraud and Corruption
2.4	Joint Venture, Consortium or Association
2.5	Scope of Supply
2.6	Suppliers' Responsibilities
2.7	Contract price
2.8	Copy Right
2.9	Application
2.10	Standards
2.11	Use of Contract Documents and Information
2.12	Patent Indemnity
2.13	Performance Security
2.14	Inspections and Tests
2.15	Packing
2.16	Delivery and Documents
2.17	Insurance
2.18	Transportation
2.19	Incidental Services
2.20	Spare Parts
2.21	Warranty
2.22	Terms of Payment
2.23	Change Orders and Contract Amendments
2.24	Assignment
2.25	Subcontracts
2.26	Extension of time
2.27	Penalty Clause
2.28	Termination for Default
2.29	Force Majeure
2.30	Termination for insolvency
2.31	Termination for Convenience
2.32	Settlement of Disputes
2.33	Governing Language
2.34	Applicable Law
2.35	Notice
2.36	Taxes and Duties
2.37	Right to use Defective Goods
2.38	Protection against Damage
2.39	Site preparation and installation

2.1 DEFINITIONS

2.1.1 The following words and expressions shall have the meanings hereby assigned to them:

- a) "Contract" means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- b) "Contract Documents" means the documents listed in the Contract Agreement, including any amendments thereto.
- c) "Contract Price" means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
- d) "Day" means calendar day.
- e) "Completion" means the fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
- f) "GCC" means the General Conditions of Contract.
- g) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.
- h) "Related Services" means the services incidental to the supply of the goods, such as transportation, insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.
- i) "SCC" means the Special Conditions of Contract.
- j) "Subcontractor" means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
- k) "Supplier" means the natural person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
- l) Indian Institute of Science Education and Research, Thiruvananthapuram (IISER-TVM) means a society registered under the Travancore Cochin Literary Scientific and Charitable Societies' Registration Act, 1995 (12 of 1955) on 20.02.2008 at Kerala at no. T.342/08.
- m) "The final destination," where applicable, means the place named in the SCC.

2.2 CONTRACT DOCUMENTS

2.2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

2.3 FRAUD AND CORRUPTION

2.3.1 The purchaser requires that bidders, suppliers, contractors and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy,

- a) The terms set forth below are defined as follows:
 - i) "Corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;

- ii) "Fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
 - iii) "Collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the Borrower, designed to establish bid prices at artificial, noncompetitive levels; and
 - iv) "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract;
- b) the purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question;

2.4 JOINT VENTURE, CONSORTIUM OR ASSOCIATION

- 2.4.1 If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

2.5 SCOPE OF SUPPLY

- 2.5.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.

2.6 SUPPLIERS' RESPONSIBILITIES

- 2.6.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with Scope of Supply Clause of the GCC, and the Delivery and Completion Schedule, as per GCC Clause relating to delivery and document.

2.7 CONTRACT PRICE

- 2.7.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid.

2.8 COPYRIGHT

- 2.8.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

2.9 APPLICATION

- 2.9.1 These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

2.10 STANDARDS

- 2.10.1 The Goods supplied and services rendered under this Contract shall conform to the standards mentioned in the Technical Specifications and Schedule of Requirements, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such

standards shall be the latest issued by the concerned institution.

2.11 USE OF CONTRACT DOCUMENTS AND INFORMATION

2.11.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information, furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract.

Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.

2.11.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated above except for purposes of performing the Contract.

2.11.3 Any document, other than the Contract itself, enumerated above shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

2.12 PATENT INDEMNITY

2.12.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 12.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

(a) the installation of the Goods by the Supplier or the use of the Goods in India; and

(b) the sale in any country of the products produced by the Goods.

2.12.2 If any proceedings are brought or any claim is made against the Purchaser, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claims.

2.13 PERFORMANCE SECURITY

2.13.1 Within 21 days of receipt of the notification of award/PO, the Supplier shall furnish performance security in the amount specified in SCC, valid till 60 days after the warranty period. Alternatively, the PS may also be submitted at the time of release of final payment in cases where part payment is made against delivery & part on installation. The PS, where applicable, shall be submitted in advance for orders where full payment is to be made on Letter of Credit (LC) or on delivery. In this case, submission of PS at the time of negotiation of documents through Bank would be stipulated as a condition in the LC and the BS should be kept valid till such time the PS is submitted.

2.13.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

- 2.13.3 The Performance Security shall be denominated in Indian Rupees for the offers received for supplies within India and denominated in the currency of the contract in the case of offers received for supply from foreign countries.
- 2.13.4 In the case of imports, the PS may be submitted either by the principal or by the Indian agent and, in the case of purchases from indigenous sources, the PS may be submitted by either the manufacturer or their authorized dealer/bidder.
- 2.13.5 The Performance security shall be in one of the following forms:
- (a) A Bank guarantee or stand-by Letter of Credit issued by a Nationalized/Scheduled bank located in India or a bank located abroad in the form provided in the bidding documents. Or,
 - (b) A Banker's cheque or Account Payee demand draft in favour of the purchaser. Or,
 - (c) A Fixed Deposit Receipt pledged in favour of the Purchaser.
- 2.13.6 The performance security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including any warranty obligations, unless specified otherwise in SCC, without levy of any interest.
- 2.13.7 In the event of any contract amendment, the supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the performance security, rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter.
- 2.13.8 The order confirmation should be received within 15 days from the date of notification of award. However, the Purchaser has the powers to extend the time frame for submission of order confirmation and submission of Performance Security (PS). Even after extension of time, if the order confirmation /PS are not received, the contract shall be cancelled and limited tenders irrespective of the value would be invited from the responding firms after forfeiting the bid security of the defaulting firm, where applicable provided there is no change in specifications. In such cases the defaulting firm would not be considered again for re-tendering in the particular case.

2.14. INSPECTIONS AND TESTS

- 2.14.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the SCC or as discussed and agreed to during the course of finalization of contract.
- 2.14.2 The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser. The Technical Specifications and SCC shall specify what inspections and tests the Purchaser requires and where they are to be conducted. The Purchaser shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes
- 2.14.3 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at the point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no charge to the Purchaser.

- 2.14.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection
- 2.14.5 Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- 2.14.6 The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at final destination shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
- 2.14.7 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
- 2.14.8 With a view to ensure that claims on insurance companies, if any, are lodged in time, the bidders and /or the Indian agent shall be responsible for follow up with their principals for ascertaining the dispatch details and informing the same to the Purchaser and he shall also liaise with the Purchaser to ascertain the arrival of the consignment after clearance so that immediately thereafter in his presence the consignment could be opened and the insurance claim be lodged, if required, without any loss of time. Any delay on the part of the bidder/Indian Agent would be viewed seriously and he shall be directly responsible for any loss sustained by the purchaser on the event of the delay.

2.15 PACKING

- 2.15.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- 2.15.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified in SCC and in any subsequent instructions ordered by the Purchaser

2.16 DELIVERY AND DOCUMENTS

- 2.16.1 Delivery of the Goods and completion and related services shall be made by the Supplier in accordance with the terms specified by the Purchaser in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.
- 2.16.2 The terms FOB, FCA, CIF, CIP etc shall be governed by the rules prescribed in the current edition of the Incoterms published by the International Chambers of Commerce, Paris.
- 2.16.3 The mode of transportation shall be as specified in SCC

2.17 INSURANCE

- 2.17.1 Should the purchaser elect to buy on CIF/CIP basis, the Goods supplied under the Contract shall be fully insured in Indian Rupees against any loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in SCC.
- 2.17.2 Where delivery of the goods is required by the purchaser on CIF or CIP basis the supplier shall arrange and pay for Cargo Insurance, naming the purchaser as beneficiary and initiate & pursue claims till settlement, on the event of any loss or damage.
- 2.17.3 Where delivery is on FOB or FCA basis, insurance would be the responsibility of the purchaser.
- 2.17.4 With a view to ensure that claims on insurance companies, if any, are lodged in time, the bidders and /or the Indian agent shall be responsible for follow up with their principals for ascertaining the dispatch details and informing the same to the Purchaser and he shall also liaise with the Purchaser to ascertain the arrival of the consignment after clearance so that immediately thereafter in his presence the consignment could be opened and the insurance claim be lodged, if required, without any loss of time. Any delay on the part of the bidder/Indian Agent would be viewed seriously and he shall be directly responsible for any loss sustained by the purchaser on the event of the delay.

2.18 TRANSPORTATION

- 2.18.1 Where the Supplier is required under the Contract to deliver the Goods FOB, transport of the Goods, up to and including the point of putting the Goods on board the vessel at the specified port of loading, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract price. Where the Supplier is required under the Contract to deliver the Goods FCA, transport of the Goods and delivery into the custody of the carrier at the place named by the Purchaser or other agreed point shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract price.
- 2.18.2 Where the Supplier is required under the Contract to deliver the Goods CIF or CIP, transport of the Goods to the port of destination or such other named place of destination in the Purchaser's country, as shall be specified in the Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.
- 2.18.3 In the case of supplies from within India, where the Supplier is required under the Contract to transport the Goods to a specified destination in India, defined as the Final Destination, transport to such destination, including insurance and storage, as specified in the Contract, shall be arranged by the Supplier, and the related costs shall be included in the Contract Price.

2.19 INCIDENTAL SERVICES

- 2.19.1 The supplier may be required to provide any or all of the services, if any, specified in SCC

2.20 SPARE PARTS

- 2.20.1 The Supplier shall be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
- (a) Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
 - (b) In the event of termination of production of the spare parts:
 - (i) Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and

- (ii) Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

2.21 WARRANTY

- 2.21.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 2.21.2 The Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.
- 2.21.3 Unless otherwise specified in the SCC, the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the SCC, or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.
- 2.21.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof.
The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 2.21.5 Upon receipt of such notice, the Supplier shall, within a reasonable period of time, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 2.21.6 If having been notified, the Supplier fails to remedy the defect within the reasonable period of time; the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.
- 2.21.7 Goods requiring warranty replacements must be replaced on free of cost basis to the purchaser.

2.22 TERMS OF PAYMENT

- 2.22.1 The method and conditions of payment to be made to the Supplier under this Contract shall be as specified in the SCC.
- 2.22.2 The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to Delivery and document Clause of the GCC and upon fulfillment of other obligations stipulated in the contract.
- 2.22.3 Payments shall be made promptly by the Purchaser but in no case later than thirty (30) days after submission of the invoice or claim by the Supplier.
- 2.22.4 Payment shall be made in currency as indicated in the contract.

2.23. CHANGE ORDERS AND CONTRACT AMENDMENTS.

- 2.23.1 The Purchaser may at any time, by written order given to the Supplier pursuant to Clause on Notices of the GCC make changes within the general scope of the Contract in any one or more of the following:
- (a) Drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
 - (b) The method of shipping or packing;
 - (c) The place of delivery; and/or
 - (d) The Services to be provided by the Supplier.
 - (e) The delivery schedule.
- 2.23.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or

both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within fifteen (15) days from the date of the Supplier's receipt of the Purchaser's change order.

2.23.3 No variation or modification in the terms of the contract shall be made except by written amendment signed by the parties.

2.24. ASSIGNMENT

2.24.1 The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

2.25. SUBCONTRACTS

2.25.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or duties or obligation under the Contract.

2.26. EXTENSION OF TIME.

2.26.1 Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser.

2.26.2 If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without penalty, in which case the extension shall be ratified by the parties by amendment of the Contract.

2.26.3 Except as provided under the Force Majeure clause of the GCC, a delay by the Supplier in performance of its delivery obligations shall render the Supplier liable to the imposition of penalty pursuant to Penalty Clause of the GCC unless an extension of time is agreed upon pursuant to above clause without the application of penalty clause.

2.27. PENALTY CLAUSE

2.27.1 Subject to GCC Clause on Force Majeure, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services or contract value for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the Percentage specified in SCC. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC. Clause on Termination for Default. The SCC shall also indicate the basis for ascertaining the value on which the penalty shall be applicable

2.28. TERMINATION FOR DEFAULT

2.28.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part

- (a) If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause on Extension of Time; or
- (b) If the Supplier fails to perform any other obligation(s) under the Contract.
- (c) If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent or collusive or coercive practices as defined in GCC Clause on Fraud or Corruption in competing for or in executing the Contract.

2.28.2 In the event the purchaser terminates the contract in whole or in part, he may take recourse to any one or more of the following action:

- (a) The Performance Security is to be forfeited;
- (b) The purchaser may procure, upon such terms and in such manner as it deems appropriate, stores similar to those undelivered, and the supplier shall be liable for all available actions against it in terms of the contract.
- (c) However, the supplier shall continue to perform the contract to the extent not terminated.

2.29 FORCE MAJEURE

- 2.29.1 Notwithstanding the provisions of GCC Clauses relating to extension of time, penalty and Termination for Default the Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 2.29.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 2.29.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof within 21 days of its occurrence. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 2.29.4 If the performance in whole or in part or any obligations under the contract is prevented or delayed by any reason of force majeure for a period exceeding 60 days, either party may at its option terminate the contract without any financial repercussions on either side.

2.30 TERMINATION FOR INSOLVENCY

- 2.30.1 The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

2.31 TERMINATION FOR CONVENIENCE

- 2.31.1 The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- 2.31.2 The Goods those are complete and ready for shipment within 30 days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - (a) To have any portion completed and delivered at the Contract terms and prices; and/or
 - (b) To cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

2.32 SETTLEMENT OF DISPUTES

- 2.32.1 The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

- 2.32.2 If, after twenty-one (21) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.
- 2.32.3 The dispute settlement mechanism/arbitration proceedings shall be concluded as under:
- (a) In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Chairman, Board of Governors of IISER TVM and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.
 - (b) In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration In accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.
- 2.32.4 The venue of the arbitration shall be the place from where the purchase order or contract is issued.
- 2.32.5 Notwithstanding any reference to arbitration herein,
- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
 - (b) the Purchaser shall pay the Supplier any monies due the Supplier.
- 2.33 GOVERNING LANGUAGE**
- 2.33.1 The contract shall be written in English language which shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the English language only.
- 2.34 APPLICABLE LAW**
- 2.34.1 The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction as specified in SCC.
- 2.35 NOTICES**
- 2.35.1 Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by cable, telex, FAX, e-mail or and confirmed in writing to the other party's address specified in the SCC.
- 2.35.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.
- 2.36 TAXES AND DUTIES**
- 2.36.1 For goods manufactured outside India, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside India.
- 2.36.2 For goods Manufactured within India, the Supplier shall be entirely responsible

for all taxes, duties, license fees, etc., incurred till its final manufacture/production.

- 2.36.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in India, the Purchaser shall make its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.

2.37 RIGHT TO USE DEFECTIVE GOODS

- 2.37.1 If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.

2.38 PROTECTION AGAINST DAMAGE

- 2.38.1 The system shall not be prone to damage during power failures and trip outs. The normal voltage and frequency conditions available at site as under:
(a) Voltage 230 volts – Single phase/ 415 V 3 phase (+_ 10%)
(b) Frequency 50 Hz.

2.39. SITE PREPARATION AND INSTALLATION

The Purchaser is solely responsible for the construction of the equipment sites in compliance with the technical and environmental specifications defined by the Supplier. The Purchaser will designate the installation sites before the scheduled installation date to allow the Supplier to perform a site inspection to verify the appropriateness of the sites before the installation of the Equipment, if required. The supplier shall inform the purchaser about the site preparation, if any, needed for installation, of the goods at the purchasers' site immediately after notification of award/contract.

**DEPUTY REGISTRAR [F&A]
ADDITIONAL CHARGE [P&S]
IISERTVM**

IISER/PUR/4209/14
IISER/PUR/4211/14
IISER/PUR/4212/14
IISER/PUR/4213/14

MODEL BANK GUARANTEE FORMAT FOR FURNISHING BID SECURITY (BS)

Whereas (hereinafter called the “tenderer”) has submitted their offer dated.....for the supply of..... (hereinafter called the “tender”) against the Purchaser’s tender enquiry No.....KNOW ALL MEN by these presents that WE.....of having our registered office at.....are bound unto(hereinafter called the “Purchaser) in the sum offor which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this..... day of20.....

THE CONDITIONS OF THIS OBLIGATION ARE:

- 1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- 2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - a) If the tenderer fails to furnish the performance security for the due performance of the contract.
 - b) Fails or refuses to accept/execute the contract.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the purchaser (IISER-TVM) having to substantiate its demand, provided that in its demand the purchaser will note that the amount claimed by it is due to it owing the occurrence of one or both the two conditions, specifying the occurred condition or conditions. This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the bank not later than the above date.

Signature of the authorized officer of the bank

Name and designation of the officer

Seal, name and address of the Bank and address of the Branch.