

UNIVERSITY OF DELHI

DELHI-110007



**e-TENDER DOCUMENT for the procurement of
Equipment: Magneto-Optical Kerr Effect (MOKE) Optical
Components Setup**

Ref. No: DU/SERB/DST/EMR/2016/002437/SA/MOKE-1

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Section 1

Department of Physics and Astrophysics University of Delhi, Delhi-110007

E-PROCUREMENT TENDER NOTICE

Prof. S. Annapoorni, Department of Physics and Astrophysics, University of Delhi invites tenders under Two Bid System (Technical and Financial) from reputed and eligible agencies through e-procurement for **Magneto-Optical Kerr Effect (MOKE) Setup** in a SERB, DST sponsored project at the Department of Physics and Astrophysics, University of Delhi, Delhi-110007.

Items	Details/ Date
Equipment	Magneto-Optical Kerr Effect (MOKE) Optical Components Setup
EMD	Rs. 20000
Tender Fee	NIL
Bid Document Download Start Date	Tuesday, 18 th September 2018, 10:00 am
Bid Submission End Date	Monday, 8 th October 2018, 5:00 pm
Bid Opening Date	Tuesday, 9 th October 2018, 4:00 pm

Notes:

(i) All details regarding the subject tender are available on our websites www.du.ac.in and <https://eprocure.gov.in/eprocure/app>. Bidders are therefore, requested to visit our websites regularly to keep themselves updated.

(ii) Manual bids shall not be accepted.

(iii) For submission of E-Bids, bidders are required to get themselves registered with <http://eprocure.gov.in/eprocure/app>.

(iv) Tender document's cost (Nil) and EMD/Draft should reach Prof. S. Annapoorni, PI, SERB-DST Project, Department of Physics and Astrophysics, University of Delhi, Delhi-110007, before the end date and time of bid submission. Failing which offer will be liable for rejection. Papers related to company details (Copies of TIN No., PAN No, Sales Tax & Income Tax registration, etc) and product details (Printed product specification sheet and other brochure/ leaflets, etc) may also be submitted along with. Bidder, however have to attach scanned copies of EMD documents along with their e-tender.

(v) Clarifications/ queries, if any, can be addressed to S. Annapoorni, PI, SERB-DST Project, Department of Physics and Astrophysics, on phone no. 9871521718 and email: annapoornis.phys@gmail.com

Prof. S. Annapoorni, PI, SERB-DST Project
Department of Physics and Astrophysics,

INSTRUCTIONS AND INFORMATIONS FOR THE BIDDERS

1.	<p>Introduction: The University of Delhi is the premier university of the country and is known for its high standards in teaching and research and attracts eminent scholars to its faculty. The Department of Physics and Astrophysics in Delhi University has acquired distinction in teaching and research both at the national and international level. The Department is fairly well equipped for advance research in Material Science. The Department presently runs M.Sc. Physics 4 semester course and also runs Ph.D. programmes that involves high end research in physics.</p>
2.	<p>Two Bid System Tender: Separate Technical and Commercial Bids for ‘as per specifications given in Annexure I should be submitted online.</p> <p>Bids shall be submitted online only at CPP portal: https://eprocure.gov.in/eprocure/app.</p> <p>Tenderers/contractors are advised to follow the instructions provided in the ‘Instructions to the Contractor/Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e-procurement at https://eprocure.gov.in/eprocure/app.</p> <p>Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.</p> <p>Tenderer who has downloaded the tender from the University website www.du.ac.in and Central Public Procurement Portal (CPPP) https://eprocure.gov.in/eprocure/app, shall not tamper/modify the tender form including downloaded price bid template in any manner. In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with Delhi University.</p> <p>Intending tenderers are advised to visit again University website www.du.ac.in and CPP Portal https://eprocure.gov.in/eprocure/app at least 3 days prior to closing date of submission of tender for any corrigendum / addendum/ amendment.</p>
3.	<p>Due date: The tender has to be submitted on-line before the due date i.e Monday, 8th October 2018, 5:00 pm. The offers received after the due date and time will not be considered. <u>No manual bids will be considered.</u></p>
4.	<p>Technical quotation must contain the following:</p> <ul style="list-style-type: none"> (a) Quotation should be directly from Original equipment manufacturer (OEM) or authorized sales agent. (b) Sole agency certificate (if applicable) and its validity from Foreign Principals (in case

	<p>of foreign manufacturer).</p> <p>(c) Pre-installation requirements such as electrical load requirement, space etc. must be specified.</p> <p>(d) Any optional equipment/accessory advised for better functioning of equipment must be specified and quoted separately.</p> <p>(e) Details on installation, commissioning and training of the equipment must be specified.</p> <p>(f) Installation of equipments together with the demonstration and training for all the measurements mentioned in at user site should be free of cost and must be included in the quotation.</p> <p>(g) State service-support for the equipment in India, specifically in Delhi/NCR, give details of service-centers with address, telephone numbers and name of service engineers available,</p> <p>(h) Vendor should quote the equipments strictly as per tender specifications including complete technical details along with make, model, and complete specifications. Detailed compliance sheets along with supporting documents to be attached with Technical Bid for evaluation. Certificate of compliance with any deviation from specification must be attached.</p> <p>(i) Original brochures and original specification sheets (from equipment manuals) directly obtained from the principal manufacturer of the quoted model must be enclosed along with supporting data.</p> <p>(j) Technical bid should include drawing of the system with internal arrangements of sub-assemblies, and system dimensional details/footprint along with peripherals and utilities.</p> <p>(k) Vendor must have supplied at least three similar equipments in India (preferably in Delhi). User list with address, e-mail & Phone No. must be enclosed.</p> <p>(l) Any third party or customized item/accessory in the equipment is to be clearly mentioned with make and model.</p> <p>(m) An undertaking from OEM is required to facilitate the user on regular basis with technology/software updates.</p> <p>(n) Language of Bid: 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. In case, the supporting documents and printed literature furnished by the Bidder are in some other language, then an accurate translation in the English language must be provided.</p>
5.	Cost of Tender Form (Non-Refundable): Nil
6.	<p>Earnest Money Deposit (EMD): NIL</p> <ul style="list-style-type: none"> • Rs. 20,000/- (Rs. Twenty five thousand) in the form of Fixed Deposit Receipt (FDR) in favour of “The Registrar, University of Delhi, Delhi”, payable at Delhi. EMD should the reach Prof. S. Annapoorni, PI, DST Project, Department of Physics and Astrophysics, University of Delhi, Delhi-110007, before the end date and time of bid submission. • Bidders, however have to attach scanned copies of EMD/Draft documents along with the e-tender (technical bid). The non-submission of EMD will lead

	to the rejection of the bid. The EMD shall remain valid for a period of 60 days beyond the final bid validity period. The EMD of unsuccessful bidders will be returned to them within 30 days after the award of the contract. The successful bid, if withdrawn, is liable for forfeiture of the EMD.
7.	Performance Bank Guarantee: 10% of total purchase order value with validity up to one year after completion of warranty period must be submitted within 30 days from the date of purchase order.
8.	Bid Document Download Start Date: Tuesday, 18th September 2018
9.	Bid Submission Start Date: Tuesday, 18th September 2018
10.	Bid Submission End Date: Monday, 8th October 2018
11.	Technical Bid Opening Date: Tuesday, 9th October 2018
12.	Opening of Commercial Bid and Evaluation: <ul style="list-style-type: none"> • Commercial bids of eligible and technically qualified bidder will be opened. • The lowest financial bid in respect of each category/brand of the equipment will be considered separately for award of work.
13.	Commercial bid must contain the following: <ul style="list-style-type: none"> • Prices must be quoted on CIF (Delhi) basis. All charges including all taxes (airport duty, custom clearance, if any), insurance, etc. should be clearly indicated. • Guarantee or warranty conditions must be clearly specified. • Service charges per visit and AMC after warranty period must be specified. • Validity of quotation must be at least 6 months from the date of quotation. • Mode of payment is Electronic Transfer for Indian Vendors and Wire transfer/LC for foreign purchases should be mentioned in the bid. • Name and address of the company on whose name the LC is to be opened should be clearly mentioned. • Supplier must submit TIN number / PAN number and bank details as applicable.
14.	Summary Rejection of Tender: The tenders not accompanied with Earnest Money Deposit shall be summarily rejected. Similarly, if the bidder proposes any alternation in or additions to the prescribed form of tender or decline to carry out any work of the tender document; or any conditions mentioned, etc., his tender is liable to be rejected.
15.	Final Decision Making Authority: <ul style="list-style-type: none"> • The University reserves the right to order equipment with better quality over lower price and to accept or reject any or all the quotations without assigning any reasons thereof or incurring any liability to the bidders. • The University reserves the right not to purchase some part of the complete system as given in Annexure I. • Before the deadline for submission of tender, the University may modify the tender document by issuing addendum/corrigendum.
16.	Technical and Qualifying Criteria: <ul style="list-style-type: none"> • Vendors may be invited for presentation and clarification to the technical

	<p>evaluation committee on short notice.</p> <ul style="list-style-type: none"> • Vendor shall assure to maintain the inventory of spare parts after warranty is over for the maintenance of equipment supplied for a period of 10 years. • Clarifications may be sought on Technical/Commercial aspects, if felt necessary, before deciding to place the offer. • Accuracy & reproducibility of measurements must be demonstrated, without which installation will not be considered complete in working site at Department of Physics and Astrophysics, University of Delhi. • Manufacturer must attach document along with their offer in support of fulfilling this clause of the technical specification. • Standard samples for the calibration and demonstration should be provided. • Factory Test Certificates with respect to various parameters mentioned in the specification etc should be enclosed along with the equipment shipment from factory. • One Hard copy of the complete sets of manuals (in English) along with a soft copy should be provided. • User Training: The bidder should provide on-site user training at Physics Department, University of Delhi for minimum 3 working days after installation and commissioning of the system to be provided by the supplier. • Printed documents in support of claimed specification should be provided. • Vendor should have executed at least 3 projects in the last five years for the equipment quoted to the Universities or Research Institutes of repute in the Country. Documentary evidence is to be submitted for these 3 projects with complete contact details (Name, address, Tel, Email, etc). A detailed user list in India may also be provided.
17.	<p>System Upgradeability Features:</p> <ul style="list-style-type: none"> • The offered system must be capable of being upgraded in future for the advanced measurements.
18.	<p>Pre-installation requirements & Commissioning:</p> <ul style="list-style-type: none"> • Pre-installation requirements of electrical power, etc. should be mentioned in the quotation. • Installation and commissioning should be done by the supplier's trained engineer(s) of all the items at the work place at our site at, Prof. S. Annapoorni, Room No.103, New Block, Department of Physics & Astrophysics, University of Delhi, Delhi, India. • Two research students should be trained.
19.	<p>Warranty and spare parts:</p> <ul style="list-style-type: none"> • The offered system must be warranted for a period of 36 months from the date of installation against manufacturing defects. Free replacement/service onsite. • The original equipment manufacturer (OEM) should confirm in writing that the spares for the quoted model will be available for a period of minimum ten years after installation of the instrument. Spares (if any) needed for minimum ten year operation of the system must be quoted as optional. • Items of foreign origin should have insurance up to installation on site. • In case the OEM is bidding through an Indian agent, the OEM should give a written undertaking that they will be responsible for providing the warranty and

	<p>annual maintenance as per the clauses above, even if there is a change in the Indian agency of the manufacturer.</p> <ul style="list-style-type: none"> • The undertaking from OEM should also include that if in future, OEM does not have any Indian agency, the service will be provided directly by the service engineer of the OEM without any extra charge.
20.	<p>Discounts/Rebates: The equipment will be used for teaching and basic research in the University of Delhi. Maximum special discounts/rebates should be indicated in the offer.</p>
21.	<p>Arbitration and Settlement of Disputes: University of Delhi and the vendor 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. Otherwise, the Vice Chancellor of Delhi University shall appoint a Sole Arbitrator of the dispute who will not be related to the contract and whose decision shall be final and binding. Any dispute arising out of this purchase shall be under the jurisdiction of the courts of Delhi.</p>
22.	<p>Eligibility Criteria</p> <p>Only such of the bidders who meet the eligibility criteria specified below will be eligible to respond to this notice inviting tender (NIT). The pre-qualification criteria for the participating bidders are as given below:</p> <ul style="list-style-type: none"> (i) The Bidder should be Registered Firm/Company or OEM / Authorized Dealer/Distributor /Supplier of OEM. As proof of same an attested copy of TIN No. and PAN No should be submitted. Sales Tax & income Tax registration also need to be furnished. Bids from authorized distributors/ dealer/supplier of OEM shall also be accepted, subjected to the furnishing of a certificate from OEM authorizing them to bid on their behalf. (ii) The proof of the bidders (authorized representative firm/Company/OEM) as income Tax assessee (In the form of income Tax Return) for at least last Three years should be enclosed (iii) The Bidder should have been in operation for at least three years as of 31st March 2017 as evidenced by the Certificate of Incorporation and Certificate of Commencement of Business issued by the Registrar of Companies, India. (iv) The bidder should be in the business of supplying Equipment/ Machinery to reputed Educational institutes (Institutions and recognized Universities etc.). (v) Bidder should not be blacklisted by Central Government, State Government or any other Institute(s) / Organization.

Section 3

Annexure – I **Covering letter**

(Format of the letter to be submitted by the Vendor on his **LETTER-HEAD**)

To
The Registrar
University of Delhi
Delhi-110007

Date:

Dear Sir,

Sub: Your tender for Supply & Installation of **Magneto-Optical Kerr Effect (MOKE) Setup** as per specifications in your Tender.

With reference to your tender, and after having examined and understood the instructions, terms and conditions specified in the tender, we hereby enclose our offer for the supply of the following items as detailed in your tender.

Equipment description	Make and Model offered	Tender Reference No.

We further declare that

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender' from the web site(s) namely: as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. to (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) /corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract , without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

We further confirm that the offer is in conformity with the terms and conditions as mentioned in your above referred letter and enclosures. We also understand that the University is not bound to accept the offer either in part or in full and that the University has right to reject the offer in full or in part without assigning any reasons whatsoever.

a) We have uploaded a scanned copy of the required EMD amount favoring University of Delhi issued by

..... (Name of the Bank),

..... (Branch address)

.....(Date),

and is payable at Delhi, towards Earnest Money Deposit (**EMD**)

b) A hard copy of the original signed + stamped EMD/Draft document shall be submitted via physical submission.

Yours faithfully,

Authorized Signatories

(Name & Designation, seal of the firm)

Date:

Annexure II

(Note: This EMD bank guarantee certificate should be prepared by the vendor on a **Non judicial stamp paper** of **Rs. 100/-**)

Earnest Money Deposit Bank Guarantee

To
The Registrar
University of Delhi
Delhi-110007

Dear Sir,

Supply & Installation of “Quotations for -----(give Tender Reference No.)

WHEREAS

The University of Delhi located at Delhi (hereinafter called the University) has invited tenders for the Supply & Installation of “.....” on the terms and conditions mentioned in the tender document.

1. It is one of the terms of invitation of tenders that the tenderer shall furnish a Bank Guarantee as detailed in the tender document Clause 6 as **Earnest Money Deposit**.

2. M/s _____, (hereinafter called as Tenderer), who are our constituents intend to submit their tender for the said equipments and have requested us to furnish guarantee to the ‘University’ in respect of the said sum of Rs. -----
--/ (Rupees----- only)

NOW THIS GUARANTEE WITNESSETH

1. We _____ (NAME OF THE BANK) do hereby agree with and undertake to the University of Delhi, their Successors, Assigns that in the event of the University of Delhi coming to the conclusion that the Tenderer have not performed their obligations under the said conditions of the tender or have committed a breach thereof, which conclusion shall be binding on us as well as the said Tenderer, we shall on demand by the University of Delhi, pay without demur to the University of Delhi, a sum of Rs. -----/(Rupees ----- only) or any lower amount that may be demanded by the University of Delhi. Our guarantee shall be treated as equivalent to the Earnest Money Deposit for the due performance of the obligations of the Tenderer under the said Conditions, provided, however, that our liability against such sum shall not exceed the sum of Rs. -----/(Rupees ----- only).

2. We also agree to undertake to and confirm that the sum not exceeding Rs. -----
/(Rupees -----only) as aforesaid shall be paid by us without any demur or protest, merely on demand from the University of Delhi on receipt of a notice in writing stating the amount is due to them and we shall not ask for any further proof or evidence and the notice from the University of Delhi shall be conclusive and binding on us and shall not be

questioned by us in any respect or manner whatsoever.

We undertake to pay the amount claimed by the University of Delhi within a period of one week from the date of receipt of the notice as aforesaid.

3. We confirm that our obligation to the University of Delhi under this guarantee shall be independent of the agreement or agreements or other understandings between the University of Delhi and the Tenderer. This guarantee shall not be revoked by us without prior consent in writing to the University of Delhi.

We hereby further agree that

- Any forbearance or commission on the part of the University of Delhi in enforcing the conditions of the said agreement or in compliance with any of the terms and conditions stipulated in the said tender and/or hereunder or granting of any time or showing of any indulgence by the University of Delhi to the Tenderer or any other matters in connection therewith shall not discharge us in any way our obligation under this guarantee. This guarantee shall be discharged only by the performance by the Tenderers of their obligations and in the event of their failure to do so, by payment by us of the sum not exceeding Rs. ----- (Rupees -----only)
- Our liability under these presents shall not exceed the sum of Rs. ----- (Rupees -----only)
- Our liability under this agreement shall not be affected by any infirmity or irregularity on the part of our said constituents in tendering for the said work or their obligations there under or by dissolution or change in the constitution of our said constituents.
- This guarantee shall remain in force up toprovided that if so desired by the University of Delhi, this guarantee shall be renewed for a further period as may be indicated by them on the same terms and conditions as contained herein.
- Our liability under this presents will terminate unless these presents are renewed as provided hereinabove on theor on the day when our said constituents comply with their obligations, as to which a certificate in writing by the University of Delhi alone is the conclusive proof whichever date is later. Unless a claim or suit or action is filed against us within six months from that date or any extended period, all the rights of the University of Delhi against us under this guarantee shall be forfeited and we shall be released and discharged from all our obligations and liabilities hereunder.

Yours' faithfully,

For and on behalf of _____ Bank

Authorized official

(Note: This guarantee will require stamp duty (Rs. 100/-) as applicable and shall be signed by the official whose signature and authority shall be verified).

Annexure III

(**Note:** This letter of authority should be on the **Letter-Head** of the manufacturing concern, and should be signed by a competent person of the manufacturer)

Manufacturer's Authorization Form (MAF)

Ref: No.

Date.....

To
The Registrar
University of Delhi
Delhi-110007

Dear Sir,

Tender Reference

We.....who are established and reputable manufacturers of.....having factories at..... and.....do hereby authorize M/s.(Name and address of Representative/Agent/Dealer) to offer, negotiate and conclude the contract with you against the above invitation for tender offer.

We hereby extend our full guarantee and warranty as per terms and conditions of the tender, and the contract for the equipment and services offered against this invitation for tender.

Yours faithfully,

Authorized Signatories
(Name & Designation)
Date:

Annexure - IV

(**Note:** This letter of authority should be on the **Letter-Head** of the manufacturing concern and should be signed by a competent person of the manufacturer)

Company Profile

Details filled in this form must be accompanied by sufficient documentary evidence, in order to verify the correctness of the information.

S.No.	Item	Details
1.	Name of Company	
2.	Mailing Address	
3.	Telephone and Fax numbers	
4.	Date of registration of the Company	
5.	Year of commencement of Business	
6.	Name and designation of the person authorized to make commitments to the University	
7.	Contact details of the person authorized to make commitments to the University	
8.	PAN Number	
9.	Whether direct manufacturer (OEM) or authorized dealer/representative	

Signature (Name & Designation)

Date:

Annexure V

(**Note:** This letter should be on the **Letter-Head** of the manufacturing Concern and should be signed by a competent person of the manufacturer)

CERTIFICATE FROM THE VENDOR STATING THAT THE COMPANY HAS NOT BEEN BLACKLISTED BY ANY GOVERNMENT ORGANISATION

The Registrar
University of Delhi
Delhi

Dear Sir,

This is to certify that M/s_____ has not been black listed by any Government Organization before submission of the tender document.

Yours faithfully,

Authorized Signatory

Name:

Designation:

Date:

For and on behalf of M/s_____

Annexure VI

Details of 3 major Projects

(**Note:** This letter of authority should be on the **Letter-Head** of the manufacturing concern and should be signed by a competent person representing the manufacturer.)

To
The Registrar
University of Delhi
Delhi-110007

Dear Sir,

We hereby certify that we have executed the following 3 projects to completion on similar items (.....) as offered in the present tender to other Government-Organizations/Educational-Institutions/Universities/Govt. funded Research – Labs, or institutes.

Note: Please quote only those projects which are of substantial value.

Name of the Vendor _____

S. No.	Name of the Client	Equipment Supplied	Clients Contact Details (Including Name, E-mail, Phone & address)

Signature (Name & Designation)

Date:

Annexure VII

(**Note:** This letter of authority should be on the **Letter-Head** of the manufacturing Concern and should be signed by a competent person of the manufacturer.)

To
The Registrar
University of Delhi
Delhi-110007

Details of service and support

Name of the Vendor _____

S. No.	Place	Own Office/Franchise	Postal Address	Contact Person & Contact Details	Number of engineers	Service Facilities available (Describe in detail)

Signature
Name:
Designation

Date:

Annexure VIII

(Note: This letter of authority should be on the Letter-Head of the manufacturing concern and should be signed by a competent person of the manufacturer.)

Warranty Compliance Statement

The Registrar
University of Delhi
Delhi-110007

Dear Sir,

Subject: Supply & Installation of

This bears reference to our quotation Ref _____ Dated _____.

We warrant that everything to be supplied by us shall be brand new, free from all defects and faults in material, workmanship and manufacture, and shall be of the highest grade, quality, and consistent with the established standards for materials specification, drawings or samples, if any, and shall operate properly. We shall be fully responsible for its efficient operation.

We also confirm that all service related complaints will be attended within a period of one to two days.

During the warranty period of **Three years**, in case the equipment fails, we will provide all services to complete repairs within a week free of charge.

Yours faithfully
Signature (Name & Designation)
Date:

Annexure IX

Deviation in Technical specifications offered by the bidder (To be attached with the **Technical bid**)

The Registrar
University of Delhi
Delhi-110007

Deviations from Technical Specifications, and Terms and Conditions of the Tender

S. No.	Tender Document Clause	Technical Specification, Or terms and conditions in the Tender document	Deviation offered	Reasons and whether deviation adds to the operational efficiency in case of the systems
1				
2				
3				
4				
5				
6				

Note:

- Above information in detail should be furnished separately for each of the items
- Also in case of deviations from any of the terms and conditions of the tender.
- If any deviations from the technical specifications are warranted, reasons for such variations should be specified, and

Whether such variations add to improvement of the overall performance of the systems (if any), should be specifically mentioned and supported by relevant technical documentation as required above.

Signature
(Name & Designation)
Authorized official of the company

Date:

Annexure X

(**Note:** This document to be enclosed is to be uploaded along with the price bid.)

Commercial Deviation

Bidders Name & Address:

To,
The Registrar
University Of Delhi
Delhi-110007

Sub: Supply & Installation ofFor Delhi University

The following are the Commercial Deviations and variations from and exceptions to the specifications and documents for the subject package. Except for these deviations, the entire work shall be performed as per your specifications & documents.

Clause	Ref./ Page No.	As specified in the specification	Commercial Deviation and variation to the specification	Withdrawal price in Rs.

Date:
(Signature).....
Place:

Section 4

Magneto-Optical Kerr Effect (MOKE) Setup

The setup should include following major components:

- Frequency stabilized HeNe laser source with power supply
- Amplified Photodetector
- Photoelastic modulator with microprocessor controlled power supply
- Focusing lens and beam expander
- Optomechanics for MOKE components

S. No.	Specifications	Your specifications
1.	Measurement Mode	
	Longitudinal	
	Transverse	
2.	With possibility of extension to Polar	
	Wavelength 632.8 nm	
	Laser stand	
	Specify length and diameter of the laser	
	Spatial mode: TEM ₀₀	
	Output Power ≥ 5 mW	
	Life Time ≥ 30,000 hrs	
	Frequency stability ≤ ± 2 MHz	
	Intensity Stability ≤ ± 0.2%	
	Beam Diameter ≤ 5μm (±3% tolerance)	
	Beam divergence ≤ 1.5 (mrad)	
	Warm up time ≤ 10 min	
	Polarization ratio 500:1	
	Eyewares (2 pairs)	
	Product safety certificate	
	RMS noise ≤ 0.1 % for frequency < 10 MHz	
	Toggle instantly between intensity and frequency stable modes.	
3.	Amplified Photodetector with a pre-amplifier	
	Type (Large Area or array)	
	Frequency Bandwidth ≥ 1 MHz	
	Active Area ≥ 15 mm ²	
4.	Photo Elastic Modulator (PEM) with Microprocessor Controller	
	Compatible with magnetic field ≥ 4 T	
	Aperture ≥ 15 mm	
	Modulation frequency 40-50 kHz	
	Frequency stability 25 ppm	
	Suitable for MOKE measurements	

		Sensitivity <math> < 10^{-6}</math>	
		Anti-reflection coating (632.8 nm)	
		Power Supply for controller	
		LCD display,	
5.	Polarizer and Analyzer	Type : Glan- Taylor	
		Extinction Coefficient $\leq 10^{-6}$	
		Coating ~ 300 nm to 800 nm	
		Holder with markings and Stand for mounting both	
6.	Standard Sample	One soft and one hard magnetic thin film for calibration	
7.	Connecting Cables required for interfacing of all equipments		
8.	Software	All the necessary interfacing	
		RS232 serial interface to computer PEM100 software	
9.	Sample mount	Z movement and XY rotation stage	
		Sample holder Focusing lens and beam expander Optomechanics for the MOKE components	
10.	Computer installed with all necessary software/interface compatible with windows 7 or windows 10		
11.	Optional	Compatibility with low temperature set up	
		Probe Station	
		MOKE microscopy	
		All analysis and measurement software necessary for interfacing	
		Labview written program code required for interfacing the complete MOKE setup	
		CCD camera/ microscope for fixing the beam position of the sample with computer interfacing	
12.	Warranty	3 years warranty on each equipment from the date of installation	

The company should ensure, assembling, installation and interfacing of all the components with the necessary, interfacing cables, software and calibrations.

Section 5

Commercial/Financial/Price bid for Magneto-Optical Kerr Effect (MOKE)
Should be prepared in the following format

S. No.	Description	Price Foreign Currency/Indian Rupee	
1	<p><u>Main Unit</u> (Model No.):</p> <p>Magneto-Optical Kerr Effect (MOKE) Setup All parts and accessories to be described.</p> <p>Main unit Includes all parts, and accessories Other optional accessories required for successful <u>installation</u> and <u>commissioning</u> and <u>running</u> of the equipment may be quoted by the vendor. (Basic main unit must satisfy the required tender specifications)</p> <p><u>Prices of all parts/accessories</u> included in the main unit should be mentioned separately.</p> <p>(One consolidated price for the total unit is not acceptable)</p>		
2	Total price Ex-works		
3	Educational Discount offered (%)		
4	Total price after discount		
5	Packing and Forwarding		
6	Freight and Insurance		
7	Grand Total, CIF, Delhi Airport		
8	Any indigenous supply of computers/printers being provided with the cost price in Indian rupee/included in the main unit should be mentioned separately		
9	Optional items (if any) - Price and discount offered		