Ref. No.: 14-VII/MJ(2463)15PB/T-01

IMPORTANT INSTRUCTIONS FOR THOSE VENDORS WHO ARE APPLYING IN RESPECT OF LIMITED + WEB TENDER ENQUIRY AFTER DOWNLOADING FROM NPL WEBSITE.

Interested manufacturers/ their authorized vendors having capability of proper supply/installation of required items as per enquiry can also submit their offer directly on the basis of website tender in the manner prescribed in such tender enquiry uploaded on NPL website **www.nplindia.org**.

In such cases, the tenderer has to <u>attach invariably a copy of the enquiry downloaded from the</u> <u>NPL website</u> duly stating in covering letter that the enquiry is downloaded by them and also attached VENDOR DECLARATION FORM as per annexure 'X'; failing which the offer not be considered.

VENDOR'S DECLARATION FORM

[The interested vendor shall fill in this form and should submit along with tender document without fail. This should be done on the letter head of the firm]

- 1. Vendor's Legal Name :
- 2. Vendor's actual or intended Country of Registration :
- 3. Vendor's Legal Address in Country of Registration :
- 4. Vendor's Authorization Representative Information

Name	:
Designation	:
Address	:

Telephone/Fax numbers:

Email Address :

5. Please provide following details in reference of firm, as applicable

TIN NO.	:
PAN NO.	:
TAN NO.	:



CSIR-NATIONAL PHYSICAL LABORATORY (Council of Scientific & Industrial Research) Dr. K. S. Krishnan Marg, Near Pusa Campus, New Delhi-110 012.

From : Director **CSIR-National Physical Laboratory**

Tender No.: 14-VII/MJ(2463)15PB/T-01 Date: 16.4.2015
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То

Airmail/Email

Dear Sirs.

We are interested to purchase the following items from the reputed Indian/Foreign Manufacturers or their Sole Authorized Dealers/Distributors/Agents. Kindly send us the Quotations/Performa invoice in closed/sealed covers with wax/cello tape/ company seal indicating minimum delivery period. The sealed envelope containing your quotation super scribed with our reference no., Due Date of Tender and addressed to Director, NPL should reach this office latest by 07.05.2015 up to 5.00 PM (IST). The quotations will be opened on 08.05.2015 at 2:30 P.M (IST). onwards in the presence of supplier's representative who wish to present themselves at that time.

Sr. Name of item	Qty.	EMD	SB/
No		Amount	TB)
1 Items required for setting up Air Plasma based THz generation and ZnTe based detection Spectrometer system (Detailed item-wise list as per Annexure-I)	As per Annexure -I	<u>Rs.</u> 50,000/-	TB*

Please see reverse of the page for terms & conditions

Yours faithfully,

SB: Single Bid *TB: Two Bid

Section Officer (S&P)

Encl : detailed Specification with terms & conditions



CSIR - NATIONAL PHYSICAL LABORATORY

(Council of Scientific & Industrial Research) Dr. K.S. Krishnan Marg, Pusa, New Delhi-110012.

Tele-fax: 91-11-45608645 Fax: 91-11-45609310 Email: cosp@nplindia.org spo@nplindia.org Website: http://www.nplindia.org

Tender Ref No. 14-VII/MJ(2463)15PB/T- 01

DATED: 16.04.2015

TERMS & CONDITIONS INCLUDING INSTRUCTION TO BIDDERS AND CONDITIONS OF CONTRACT

1. <u>GENERAL:</u> <u>Quotations in closed cover under two bid system</u> are invited on behalf of the Director, CSIR-National Physical Laboratory (NPL), New Delhi from the reputed Indian and foreign manufacturer. <u>The</u> <u>offer/ quotation must be strictly as per required specifications and the tender terms & conditions.</u> <u>ELIGIBILITY CRITERIA:</u> The Bidders should comply fully with the Technical Specifications in the tender documents.

2. PREPARATION AND SUBMISSION OF OFFERS:

- **a.** Quotation should be submitted directly by the original manufacturer/supplier or its sole authorized distributor/dealer/Indian Agent. In case of bid by authorized dealer/distributor/Indian Agent, the manufacturer authorization should be attached with the technical bid as per **Annexure-'F'**.
 - a. One Indian Agent can participate in a tender on behalf of one manufacturer. No offer will be entertained if the same Indian Agent is representing another manufacturer.
- **b.** In case a bidder is 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 and post-warranty and post-warranty period.
- **c.** The bidder shall bear all costs associated with the preparation and submission of its bid irrespective of the conduct or outcome of the bidding process.
- **d.** The bidder should not indulge in any corrupt, fraudulent, collusive, coercive practices during the entire process of procurement and execution of contract/order.
- e. Before the deadline for submission of the bid, NPL reserves the right to modify the bidding document and to extend or not to extend the date of submission. Such amendment/modification will be notified to bidders receiving the bidding document in writing or by cable/fax/ email and will also be hosted on NPL website.
- f. Conditional tenders will be summarily rejected.
- **g.** A bidder may withdraw, substitute, or modify its bid after it has been submitted by sending a written notice signed by the authorized signatory before the date of submission of the bid. Any re-submission or modification in the bid should be submitted before the date & time of submission of bid as originally conveyed in the invitation of bid.
- **h.** 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.
- i. In case of (g) above, first envelope marked "WITHDRAWAL" shall not be opened, but returned to the Bidder subject to submission of valid authorization to request the withdrawal. In case of substituted and modified bid, only the substituted bids and modified bids will be opened subject to production of authorization from the bidders.
- **j.** The quotation should be addressed to the Director, National Physical Laboratory, Dr. K. S. Krishnan Road, New Delhi-12 and sent to the Controller of Stores & Purchase.
- **k.** Each offer/quotation should be kept in separate envelope against each item of the tender notice.
- **1.** For items covered under Two-Bid -Tender System, quotation/offer should be submitted in two separate envelopes containing Techno-Commercial bid and Price bid and these put in one envelope.

- m. <u>The outer cover containing the offer/quote should be super-scribed with the respective Tender No.</u>, <u>Due date and Date of opening of tender</u>.
- **The offers must contain** the following documents :-
 - (A) Techno-commercial offers must contain:
 - (i) Manufacturer authorization (as per clause 2(a)) as per Annexure 'F'.
 - (ii) Certificate by bidder not doing business in India as per clause 2(b).
 - (iii) Technical literature/ leaflets and complete specifications of quoted model(s) along with commercial terms and conditions.
 - (iv) Compliance statement/questionnaire of tender terms and conditions as per Annexure-'A'
 - (v) Compliance statement of specifications as per Annexure- 'B'
 - (vi) Bid Security/EMD (as per clause -4) as per Annexure- 'C'
 - (vii) In case of exemption from submission of Bid security, proof of registration with DGS&D/NSIC as per clause (4(a)).
 - (viii) Copies of previous supply orders (as per clause 9(c) and clause 24) as per Annexure 'G'.
 - (ix) Details of supplies of similar equipments as per clause 9(d).

(B) Price Bid offers must contain:

- (i.) Bid price as per clause 5 in format enclosed as **Annexure- 'D'** or **Annexure- 'E'** as applicable.
- (ii.) Certificate of price reasonability as per clause 9(b).

3. <u>DUE & OPENING DATES</u>: The Offer/Quotations must **reach** at NPL on or before <u>MAY 07,2015</u> up to 5.00 pm. (IST) The tenders will be **opened** at <u>2.30 am. (IST) Onwards on May 8,</u>

2015 in the presence of bidders, who wish to present themselves at the time of opening of tender. In case opening date happens to be a holiday, the tender will be opened on next working day at the same time & location. The price bids of two bid tender system shall be opened after technical evaluation of technical bids. The date of opening of price bids shall be informed to the bidders found suitable in technical evaluation. No request for extension in the date of submission & opening of tender will be entertained. However NPL, may at its discretion, extend the deadline for submission of bids under intimation to bidders.

4. EARNEST MONEY DEPOSIT (EMD):

- a. <u>EMD for an amount of Rs. 50,000/=</u> in the form of Bank guarantee (As per format enclosed as ANNEXURE- 'C') or Term Deposit Receipt/FDR or Bank Draft of a scheduled bank pledged in the name of Director, NPL, New Delhi valid for 180 days from the date of opening of the tender for the required amount as mentioned in the tender notice separate for each item must be submitted along with the quotation (with the techno-commercial quotation in case of two-bid system and photocopy of the same enclosed with the price bid. The firm registered with DGS&D/NSIC as manufacturer for the supply of the same category of item for which the party is submitting quotation will be exempted from submission of EMD. Intended parties will have to give proof of registration along with their quotation. EMD of the unsuccessful bidders shall be refunded without any interest at the earliest after finalization of the purchase of concerned item. The party must therefore, submit a pre-receipted Bill in triplicate along with the quotation (in case of EMD sent in form of Bank Draft) to enable us to refund their EMD.
- **b.** The bid security /EMD may be forfeited if a bidder withdraws or amends or impairs or derogates its bid during the period of bid validity.

5. PRICES

Bid prices should be filled in the appropriate format enclosed as Annexure 'D' and 'E'. ALL THE BIDDERS SHOULD QUOTE PRICES FOR EACH AND EVERY ITEM SEPERATELY ALONG WITH THE CONSOLIDATED PRICES APPLICABLE FOR BOTH INDIGENOUS AND IMPORTED ITEMS.

1. For goods manufactured in India:

- (i) The price of 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 service 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.

2. 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 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.
- **3.** We are exempted from payment of Excise Duty under notification number 10/97 dated 01.03.1997and Customs Duty under notification No.51/96 dated 23.07.1996. Hence Excise Duty and Customs Duty, if any, should be shown separately. No other charges than those mentioned clearly in the quotation will be paid.
- 4. Sales Tax: We are not authorized to issue any Sales Tax Form 'C' & 'D'. However, being R&D Organization concessional Sales Tax Forms can be issued, if it is applicable in your states from where the material is being supplied.

6. <u>VALIDITY OF OFFER :</u>

The prices must be valid at least for a period of **90 days for indigenous supplies** & <u>180 days for imports</u> from the date of opening of the Tender. No changes in prices will be acceptable in any condition after opening of tender till the validity of the offer or execution of the order whichever is later.

- 7. <u>EVALUATION OF BIDS</u>: Before submission of bid, the bidder is expected to examine all the instructions, forms, terms and specifications in the bidding document and should ensure that the following conditions are fulfilled:
 - a) Bidder Information form as per Annexure-'H'.
 - **b**) The price schedule should be enclosed and must be signed.
 - c) The bid validity should not be shorter than required.
 - d) The manufacturer's authorization should be enclosed in case the bidder is authorized dealer/ distributor.
 - e) The bidders should agree to provide the Performance Security.
 - f) The quoted goods should be as per required specifications.
 - g) In case the bid is substantially responsive, the purchase may request that bidder may submit the necessary information, documentations, within a reasonable period of time, to rectify, non-material, non-conformities or omission in the bid related to documentation requirements. Failure of the bidders to comply with the request may result in the rejection of its bids. But in case of the material deviation/reservation or omission which limits or is inconsistent with the bidding documents and the Purchaser's Rights or Bidders obligation under the contract or which if rectified, would unfairly affect the other bidders, the bid will be rejected.
 - **h**) The Purchaser shall correct arithmetical errors on the following basis:
 - (i) 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.
 - (ii) 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
 - (iii) If there is a discrepancy between words & 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 (i) and (ii) above.
 - i) Selling exchange rate/equivalent to Indian currency will be as on the date of bid opening in the case of single bidding and the rate on the date of opening of the priced bids in the case of two-part bidding.
 - j) The bids shall be evaluated on the basis of final landing cost as per Annexure 'D' in case of import and Annexure 'E' in case of indigenous items.
 - k) 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 bidders shall be loaded further as under :
 - (a) Towards customs duty and other statutory levies-as per applicable rates.
 - (b) Towards custom clearance, inland transportation etc. 2% of the CIF/CIP value.
 - Where the price quoted on FOB/FCA and CIF/CIP basis are the same, the Contract would be made on CIF/CIP basis only.

- m) 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 tender document 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.
- 8. The Vague terms like "packing, forwarding, transportation..... etc. extra" without mentioning the specific amount/percentage of these charges will not be accepted. Such offers shall be treated as incomplete and rejected.

9. <u>REASONABILITY OF PRICES :</u>

- a) Please quote best minimum prices applicable for a premiere Research Institution, <u>leaving no scope for any</u> <u>further negotiations on prices.</u>
- **b)** The quoting party should give a certificate to the effect that the quoted prices are the minimum and they have <u>not quoted</u> the same item on lesser rates than those being offered to NPL to any other customer nor they will do so till the validity of offer or execution of the purchase order, which ever is later.
- c) Copies of at least last three supply orders of the last 3 years received from other customers along with details of such supply orders preferably in India for the same item/model may be submitted with the offer giving reasons of price difference of their supply order & those quoted to us, if any. (As per Annexure 'G').
- d) The party must give details of identical or similar equipment, if any, supplied to any CSIR lab during last three years along with the final price paid and Performance certificate from them.
- **10.** <u>ANNUAL MAINTENANCE CHARGES:</u> The party <u>must</u> mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention.

11. <u>SPECIFICATIONS</u>:

- A. Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that <u>merely copying our specifications</u> in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer and the specifications mentioned in the quotation must be reflected/supported by the printed technical leaflet/literature. Therefore the model quoted invariably be highlighted in the leaflet/literature enclosed with the quotation. Non-compliance of the above shall be treated as incomplete/ambiguous and the offer can be ignored without giving an opportunity for clarification/negotiation etc. to the quoting party
- **B.** The technical bid shall be evaluated for acceptability by the technical committee and may call the tenderers for discussion. If necessary, the committee may modify the technical specification to suit the NPL requirement. In such case the opportunity shall be given to the participating bidders for submitting the revised bid as per modified specifications, if any.

12. <u>COMPLIANCE STATEMENTS:</u>

- a. Bidders must furnish a Compliance Statement of each and every required Specification of our tender in the format at ANNEXURE 'B'. The deviations, if any, from the tendered specifications should be clearly brought out in the statement. Technical literature/leaflet showing the compliance of the specification may also be attached with the quotation.
- b. Similarly, the Compliance Statement/questionnaire for Terms & Conditions of the tender may be furnished, as per the enclosed format at Annexure -'A', along with quotation (with techno- commercial bid in case of two bid tender system).
- **c.** The firms are advised to submit both the compliance statements essentially along with their quotation failing which their offer may not be considered.

- **13.** <u>PERIOD & MODE OF DELIVERY:</u> indicated specifically in the quotation. indicated in the quotation. The delivery period is the essence of supply; hence it must be Mode of delivery, tentative size and weight of consignment may also be
- 14. <u>PERFORMANCE SECURITY:</u> All the successful bidders will have to submit the Performance Bank Guarantee or establish a Standby Letter of Credit (SLOC) or a Bankers cheque / or FDR pledged in favour of DIRECTOR, NPL for required amount as per payment terms mentioned at clause 15 below except where supplier opts for release of amount equivalent to PBG after expiry of warranty period. The PBG format shall be provided to the successful bidder later on along with the purchase order.

15. PAYMENT CONDITION:

A. FOR INDIGENEOUS SUPPLIES:

Payment on Bill Basis after supply: For local supplies the payment will be made only after satisfactory installation, commissioning and performance of the equipment at NPL, New Delhi and after certification by our technical expert/scientist. However, supplier will be required either to submit performance bank guarantee (PBG) for **10%** amount of the total value of equipment, after installation of the material, valid up to 60 days after the expiry of warranty period or the equivalent amount shall be released after expiry of the satisfactory warranty period.

B. FOR IMPORTS:

The payment against imports shall be made through irrevocable L/C. L/C will be opened for 100% FOB value. 90% of L/C amount shall be released on presentation of complete and clear shipping documents and remaining 10% shall be released after satisfactory installation/demonstration/commissioning, subject to submission of 10% PBG to cover the warranty period. The PBG should remain valid up to 60 days after the expiry of warranty period. In case of non-submission of PBG after installations/demonstration/ commissioning, remaining payment i.e. 10% will be released only after the completion of warranty period.

- 16. <u>COMMENCEMENT OF WARRANTY PERIOD</u>: The warranty period of an item shall commence after receipt of the items in good working condition and from the date of its satisfactory installation/commissioning/demonstration at the project site in NPL, New Delhi. The warranty period and validity of Performance Guarantee shall be extended for the period of delay in satisfactory installation and delay in warranty services.
- 17. <u>NO ADVANCE PAYMENT</u>: No advance payment will be made to any supplier.
- **18.** <u>INSTALLATION:</u> The equipment should be installed/commissioned and demonstrated, by the supplier at NPL immediately but in any case within TWO MONTHS after receipt of the item in NPL and the same will be put under operation to the satisfaction of our technical expert/Scientist who will test the performance of the equipment. No separate charges for installation etc. will be paid to the party beyond the quoted prices.
- 19. <u>GUARANTEE/WARANTEE:</u> The equipment/instrument must be guaranteed/warranted for a period of at <u>least</u> one year, if not specifically mentioned otherwise in the specifications sheet, from the date of its satisfactory installation/commissioning against all manufacturing defects. If the equipment is found defective during this period the whole equipment or part thereof will have to be replaced/repaired by the supplier free of cost at the NPL or at site of the supplier for which 'to and fro' expenses will be borne by the supplier. However, if the items are guaranteed for a period of more than one year, it may be specifically mentioned in the quotation.
- **20.** <u>SPARE PARTS:</u> Availability of spare parts of the equipment/instrument must be guaranteed for a period of at least seven years from the date of supply.
- 21. <u>AFTER SALES SERVICES</u>: It should be clearly mentioned in the quotation whether the after sales services during and after the completion of warranty shall be provided directly by the supplier or their authorized agent/representative. Terms of the after sales services, if any, may be mentioned in the offer. However, in both the cases the original supplier shall be responsible for poor performance/services.

22. <u>INSPECTION</u>:

- a) The inspection of the system will be done by our technical expert /Scientist in the presence of firm's representative.
- **b**) In case of receipt of the material in short supply or damaged condition the supplier will have to arrange the supplies/ replacement of goods free of cost pending the settlement of the insurance case wherever applicable on FOR at the NPL. Or CIF basis till satisfactory installation of the system.
- c) The supplier should arrange for physical Inspection of the items directly or through their authorized representative within seven days of arrival of the consignment failing which they will be responsible for the losses. After the shipment is effected, the supplier/its representative/Indian agents must remain in touch with the lab/instt. to ascertain the date of arrival of consignment.

23. <u>AUTHORIZATION OF INDIAN AGENTS & INDIAN REPRESENTATIVE</u>:

- **a.** In case there is involvement of an /Indian agent/representative in any form as mentioned at (b) below, an authority letter / copy of agreement from the principal manufacturer must be submitted with the quotation.
- **b.** Where quoting party/Indian representative claims to be the subsidiary or branch office or an authorized representative of the principal foreign manufacturer/supplier in India, then a copy of approval from RBI/Ministry for operating business in India as Subsidiary/Branch/Liaison office or Joint-Venture may be submitted with offer.
- **c.** The details of all supplies involving the foreign exchange shall be furnished to the Enforcement Directorate, New Delhi as per rule. It may be noted that only the quoting parties & their principals shall be responsible for violation of Foreign Exchange Management Act (FEMA) for not declaring the actual bilateral mutual interests, if any.
- **d.** Indian agency commission shall be paid only to the Indian Agents in Indian Rupee out of the quoted FOB/Exworks prices, after receipt of goods in good working condition & satisfactory installation/demonstration/commissioning of the items.

24. <u>USERS LIST</u> :

- **a.** The list of users specifically for the same model/make of the quoted item (not the list of general users) along with the complete name, address & contact numbers of the user organizations/persons may be submitted with the quotation along with the performance certificates from all/some of them.
- **b.** If you have supplied identical or similar equipment to other CSIR Labs./Instts., the details of such supplies for the preceding three years shall be given together with the prices finally paid.

25. <u>PENALTY CLAUSE FOR LATE DELIVERY & LATE INSTALLATION</u>:

- Subject to operation of Force Majeure, time for delivery and acceptance is the essence of this contract. The supplier shall arrange to ship the ordered materials within the delivery period mentioned in the order unless extended with/without penalty.
- In case of delay in supply and/or late installation of the equipment/instrument on part of the supplier, a penalty @ 0.5% per week of Order/FOB value will be charged for delayed period subject to a maximum of 10% of order/FOB value.
- If the delay in the shipment of the ordered materials attributable to the supplier exceeds agreed time period from the date of original agreed upon date of shipment and extended with/without penalty, the NPL, New Delhi shall have the right to cancel the contract/purchase order and recover the liquidated damages from other dues of the party or by legal means. It will also affect the other/future business dealings with such suppliers.
- **26.** <u>**TRAINING**</u>: Wherever needed, Our Scientist/Technical persons should be trained by the supplier at the project site free of cost. In case the person is to be trained at supplier's site abroad or in India it should be mentioned in the quotation clearly. The supplier should bear all the expenses for such training including 'to & fro' fares and lodging & boarding charges.
- 27. <u>NON-SUBMISSION OF TENDER</u>: In case you are unable to submit your quotation against our tender enquiry we would appreciate and expect a note of regret from your side giving in brief, reasons for not quoting.
- **28.** <u>**DELETION OF NAME</u>** : Names of bidders, backing-out/defaulting after opening of tenders will be recommended for deletion from the list of suppliers in addition to forfeiture of EMD submitted by them, if any.</u>

- 29. <u>LATE/ DELAYED /UNSOLICITED QUOTATION</u>: Late or delayed/Unsolicited quotations/offers shall not be considered at all. These will be returned to the firms as it is. Post tender revisions/corrections shall also not be considered.
- **30.** <u>ACCEPTANCE OR REJECTION OF OFFER</u>: The Director, NPL, New Delhi reserves the right to accept or reject any quotation /tender in part or full without assigning any reason thereof. The successful bidder should submit Order acceptance within 15 days from the date of issue.
- **31.** <u>PAGE NUMBERING & SIGNATURES:</u> Your offer should be a page numbered and signed by an authorized signatory giving his/her name and designation below the signatures.
- 32. <u>INTERIM ENQUIRIES</u>: No interim inquiries will be attended.
- **33. FORCE MAJEURE:** The Supplier shall not be liable for forfeiture of its performance bank guarantee, 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. For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. 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.

34. <u>DISPUTE SETTLEMENT:</u> 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.

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. 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 reenactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director General, Council of Scientific & Industrial Research and if he is unable to unwilling to act, to the sole arbitration of some other person appointed by his 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 Purchase and a Foreign suppler, 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.

The venue of the arbitration shall be the place from where the purchase order or contract is issued.

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 purchase shall pay the Supplier any monies due the Supplier.

Encl:

- 1. Format for Compliance of Terms & Conditions.
- 2. Different Forms/ Formats enclosed as Annexure(s)
- 3. Set of Specifications

Annexure - 'A' FORMAT/QUESTIONNAIR FOR COMPLIANCE OF TERMS AND CONDITIONS

Tender No.: _____

Due Date _____

NOTE:

1. Quotation will not be considered without submission of this format.

- 2. If a particular question is not at all applicable please write NA in compliance part in Col. No. 4 below.
- **3.** Kindly see the relevant terms & conditions of the tender document as mentioned in Col. No. 3 in each question before replying to the questions mentioned in Col. 2 below).

SNo	Terms & condition of Tender document	Relevant Clause No. of the tender terms & conditions of the tender	Whether acceptable (say 'Yes' or 'No' (preferably use different colour ink for 'No')	Deviation from tender terms, if any, with reasons for noncompliance or alternative condition quoted for
1	2	3	4	5
	a.) Whether quotation is direct from Principal supplier/manufacturer or their own office in India (Please specify)	Clause 2(a)		
1	b) Whether quotation is being submitted by Indian Agent/authorized distributor/ dealer	Clause 2(a)		
	c) Whether the agent is registered with DGS&D/NSIC	Clause 4(a)		
2	a) Whether the Techno-commercial and price bids (for two bid tender system only) have been kept in separate envelopes duly marked with "Techno-commercial Bid" and "Price Bids" respectively.	Clause 2(l)		
	b) Whether the tender No., Due date & Opening dates have been written outside all the envelopes.	Clause 2 (m)		
3	Whether techno-commercial Bid contains EMD, technical literature/leaflets, detailed specifications & commercial terms & conditions etc. as applicable.	Clause 2(n)(A)		

	1	
4	a) Whether the required EMD is being submitted with the quotation	Clause 4
	 b) Please specify the form of EMD whether in the form of DD/bank guarantee or TDR/FDR (Please mention No., date & amount of EMD documents.) or Bid Security Format at Annexure - 'C' 	Clause 4
	c) Pre-receipted bill for refund of EMD is enclosed (for bank drafts only)	Clause 4
5	a) If the prices are on Ex-Works basis or FOB (names port of shipment) or FCA (named place of delivery abroad)	Clause 5 (A) & (B)
	b) Whether specific amounts or percentage of expenses like packing, forwarding, handling, freight, insurance, documentation etc. have been mentioned in quotation separately in clear terms.	Clause 5(B), (C) & (D)
6	a) Whether prevailing rates of sales tax, excise duty & other govt. levies (for indigenous supplies) have been given in quotation	Clause 5 (A), (C) & (D)
7	Have you mentioned the validity period of the quotation as per our requirements	Clause 6
8	a) Whether the Price reasonability Certificate is submitted with quotation	Clause 9 (b)
	b) Whether copies of last two supply orders of the same item from other customers have been attached with the quotation	Clause 9 (c)
	c) If there is any difference in prices of last two orders & those quoted to us. If yes, please give reasons for the same	Clause 9 (c)
	d) Whether supplied in CSIR Labs.	Clause 9 (d)
9	Whether rates/amount of AMC after the warranty period is over has been mentioned	Clause 10
10	Have you gone through the specification Clause & complied with the same	Clause 11
11	Whether the Make/Brand, Model number and name of manufacturer has been mentioned in the quotation and Printed technical literature/ leaflets of quoted items have been submitted	(A) & (B)

12	Whether compliance statement of specifications has been attached with the quotation.	Clause 12 (a) & annexure- 'B'	
13	a) Whether the delivery period for supply of the items has been mentioned	Clause 13	
	b) Whether mode of delivery & tentative size & weight of the consignment has also been indicated	Clause 13	
14	Do you agree to the submission of Performance Bank Guarantee/Standby L/C and have you mentioned in your quotation about this.	Clause 14	
15	a) Do you agree with the payment terms for indigenous supplies?	Clause 15A	N 1 1 1
	b) Do you agree with the payment terms for imports supplies?	Clause 15 B	No deviation permitted
16	Do you agree about the date of commencement of warranty period & its extension is necessary.	Clause 16	
17	a) Who will install/commission and demonstrate the equipment at NPL, FREE OF COST	Clause 18	
	b) Will you be able to do it within a month	Clause 18	
18	Have you mentioned the guarantee/warrantee period in your quotation and do you agree with guarantee clause?	Clause 19	
19	Spare parts	Clause 20	
20	After Sales service	Clause 21	
21	a) Do you agree that on receipt of material in damaged condition or short supply you will replace the same on CIF basis, free of cost pending the settlement of the insurance claim?	Clause 22 (b)	
	b) Do you agree with the clause of physical inspection?	Clause 22 (c)	
22	For Import Cases only: a) Whether the Indian agent is registered with DGS&D	Clause 23	
	b) Whether the valid DGS& D registration certificate has been enclosed with the offer	Clause 23 (b)	
	c) If the party is a subsidiary or corporate branch office of the foreign supplier, then whether copy of the approval from Reserve Bank of India is attached with the offer	Clause 23 (c)	

23	Whether list of specific user's for the same item & model as quoted along-with performance certificates from the users is submitted with offer	Clause 24
24	Whether you agree to the penalty clause for late delivery & installation?	Clause 25 (a to d)
25	Whether training to our scientist/technical person will be given free of cost . If yes, have you specified in quotation whether it will be in our lab? Or at supplier's site in India or abroad.	Clause 26
26	a) Whether all the pages have been page numbered?	Clause 31
	b) Whether quotation has been signed and designation & name of signatory mentioned.	Clause 31
27	Do you agree to settle the issue as per the terms of Clause -34 of tender documents?	Clause 34

Signatures of the authorized signatory_____

Name of the signatory _____

Designation _____

Name & Seal of the quoting party _____

Dated:_____



S. N.	Name of specifications/ part / Accessories of tender enquiry	Item	Compliance Whether "YES" Or "NO"	Deviation, if any, to be indicated in unambiguou s terms	Whether the compliance / deviation is clearly mentioned in technical leaflet/ literature
1	2	3	4	5	6

FORMAT OF COMPLIANCE STATEMENT OF SPECIFICATIONS

BID SECURITY FORM

Whereas	(Hereinafter called "the tenderer") has
submitted their offer datedfor the supply of	of (Hereinafter called
"the tender") against the purchaser's tender enquiry No.	

KNOW ALL MEN by these presents that WE	(Name of bank) of
(Name of country), having our registed	ered office at
	(Address of bank) (Hereinafter
called the "Bank"), are bound unto	(Name of purchaser)
(Hereinafter called "the purchaser") in the sum of	for which payment will and truly to be made
to the said Purchaser, the Bank binds itself, its successors, and assigns by th	nese presents. Sealed with the Common Seal
of the said Bank this day of 20	

THE CONDITIONS OF THESE OBLIGATIONS 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.
- 3. If the tenderer fails to furnish the Performance Security for the due Performance of the contract.
- **4.** 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 having to substantiate its demand, provided that in its demand the Purchase will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

The guarantee shall remain in force up to and including forty five (45) days after the period of the bid 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 & Address of the Bank and address of the branch

Annexure-'D'

PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD

Name of the Bidder _____

No._____

Tender

1	2	3	4	5	(5		7		8	9
Sl	Item		Unit Qty	Unit	Price		price	Char	ges for	Total	
No	Description	of origin			(5x6)			ance &	Price		
								ortation	(7+8)		
							to port/	place of nation			
					FOB (named port	FCA (named place	FOB (named port	FCA (named place	Ocean	Air	CIF
					of shipment)	of delivery)	of shipment)	of delivery)			

Total Bid price in foreign Currency _______ in words.

Signature of Bidder Name: Business Address:

Note:

(a)	Indian agents name & address
(b)	Installation, commissioning & training charges, if any
(c)	Cost of Spares
(d)	The Indian agent's commission shall not in Indian Dunges only based on the Exch

- (d) The Indian agent's commission shall paid in Indian Rupees only based on the Exchange Rate prevailing on the date of negotiation of documents.
- (e) The cost of optional items shall be indicated separately.

Annexure-'E

PRICE SCHEDULE FOR GOODS BEING OFFERED FROM INDIA

Name of the Bidder _____ No._____

Tender

1	2	3	4	5	6	7	8	9	10	11
S1.	Item Description		Unit	Qty	Ex-Works.	Total price	VAT &	Packing &	Charges of	Installatio
No.		Origin				Ex-Works. Ex-	other		inland	n,
						Warehouse, Ex-	taxes like	up to station	transportati	Commissi
					Ex-show	show room off	excise		on,	oning &
					room off the	the shelf price	duty	if any	insurance	training
					shelf price	(inclusive of all	payable, if		up to	charges, If
					(inclusive of	taxes already	contract is		Lab./Instt.	any.
					all taxes	paid) 5x6	awarded			
					already paid)					
L	L	1	L		1	1				

Total Bid price in foreign Currency _____ _____ in words.

> Signature of Bidder Name: **Business Address:**

Note:

(a) The cost of optional items shall be indicated separately.

(b) Cost of spares _____



MANUFACTURER'S AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that re binding on the Manufacturer]

Date: [Insert date (as Day, month and year) of Bid submission]

Tender No.: [Insert number from Invitation for Bids]

To: [Insert complete name and address of Purchaser]

WHEREAS

We [insert completer name of Manufacturer], who are official manufacturers of [Insert type of goods manufactured] having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following goods, manufactured by us [insert name and or brief description of the goods], and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee and warranty in accordance with **Clause 19** of the Terms and Conditions of Contract with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on	day of	[insert date of signing]
	***/ **	



PREVIOUS SUPPLY ORDERS FORMAT

Name of the Firm _____

Order placed by {Full address of Purchaser]	Order No. and Date	Description and quantity of ordered equipment	Value of order	Date of completion of delivery as per contract	Date of actual completion of delivery	Remarks indicating reasons for late delivery, if any and justification for price difference of their supply order & those quoted to us.	Has the equipment been installed satisfactoril y? (Attach a certificate from the Purchaser/ Consigner]	Contact Person along with Telephone no., Fax no. and e-mail address.

Signature and Seal of the Manufacturer/ bidder

Place:

Date:

Annexure-'H'

BIDDER INFORMATION FORM

[The Bidder shall fill in this form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted. This should be done on the letter head of the firm]

Date: [Insert date (as day, month and year) of Bid Submission] Tender No.: [Insert number from invitation of bids]

	Page 1 of _	pages
1.		Bidder's Legal Name [Insert Bidder's legal name]
2.	of each [arty in JV]	In case of JV, legal name of each party: [insert legal name
3.	[insert actual or intended country of registration]	Bidders actual or intended Country of Registration :
4.	registration]	Bidder's year of registration: [insert Bidder's year of
5.	bidder's legal address in country of registration]	Bidder's Legal Address in Country of Registration: [insert
6.	Name: [insert Authorization Representative's name] Address: [insert Authorization Representative's address	Bidder's Authorization Representative Information
	Telephone/Fax numbers: <i>[insert Authorization Represe</i>	-
	Email address: [insert Authorization Representative's e	
7.	box(es) of the attached original documents]	Attach are copies of original documents of : [check the

Articles of Incorporation or Registration of firm names in 1 above.

S. No.	Details & description of Items	Qty
	Items required for setting up Air Plasma based THz generation and ZnTe based	
1.0	detection Spectrometer system Optical table	
1.0	General Specifications for the optical table system The Optical table must be a vibration isolation system. It is required for mounting terahertz spectroscopy experiments. It will be placed on the ground floor of the building. Indenting Optical table must be of equal height of existing table (1000 mm) The Work surface must be Damped in order to eliminate skin resonance. The Table design /	1 (a a set)
	technology should allow to Selectively eliminate torsional and bending table modes The maximum weight of instruments on the table will be 1500 kg and will be unevenly distributed. Isolators should be able to support this weight in addition to the table top.	
1.0a	Table Tops Specifications: Table top dimensions for optical table :Length=1500 ± 10 mm, Breadth = 1200 ± 10 mm, Thickness=300 ± 5mm Height=1000 mm Working surface material : Stainless steel Surface flatness : ± 0.1 mm over 600 mm ² or better Mounting holes : M6 holes on 25 mm center grid Border around table without holes :12.5 mm or less	01
	Hole/Core Sealing: Individually sealed, Non-corrosive high impact polymer material Table core: Steel honeycomb Core Design: Trussed honeycomb, vertically bonded closed cell construction, 0.010 in. (0.25 mm) Steel sheet materials, 0.030 in. (0.76 mm) Triple core interface	
	Top plate thickness: 4 mm or higher Top surface finish should be such as to minimize surface reflections Resonant Frequency: approx 200Hz	
1.0 Б	Legs and IsolatorsBuilt in leveling indicators provide visual feedback ensuring table properly floating at correct level,self-centering pendulum design, laminar flow damping system and precision auto-leveling valves to deliver unmatched vibration isolation performance.Specifications: Working Surface height from floor : 1000 ± 30 mm Vibration Isolation (for the building vibrations and other lab equipments)> > Vertical Isolation at 5Hz> > Vertical Isolation at 10Hz: > 90 % > Horizontal Isolation at 10Hz: > Vertical Isolation Res: > Vertical Isolation Res: > 100 ± 20 float > 100 ± 20 float	4
	Leveling repeatability: better than ± 0.25 mm Height adjustment range: 33 mm Active air suspension for vibration isolation for the table top. Self leveling capability when loaded unevenly.	
1.0c	Air compressor with automatic pressure control Specifications: Heavy duty, noise less air compressor (a) Noise≤ 30dBA (b) Pressure ≥ 80Psi Has water separator and air filter/regulator Operates with 230 V +/- 10% single phase 50 Hz supply	1
1.1	Optical Breadboard with Microlock The breadboard design allows elimination of torsional and bending table modes, work surface is damped to eliminate skin resonance. Honeycomb cells design for lighter, stiffer table has better dynamic rigidity and non corrosive sealed holes. Triple core interface to increase point-loading capacity and minimize static deflection. Breadboard	1

*	has Microlock components to precisely level a breadboard, and can be used to mount breadboards on an optical table or directly onto any vertical or horizontal structure. Specifications: Dimension: 600 mm(W) x 900 mm(L) x 50 mm(T) Surface Flatness: ±0.1 mm over 600 mm ² , Broadband Damping: Integrated Damping including constrained layer core, damped working surface and composite edge finish, Mounting Holes: M6-1.0, Mounting Hole Pattern: 25 mm grid, Mounting Hole Type: Cut threads with countersink, Borders around Mounting Holes: 12.5 mm borders, Working Surface: 400 Series ferromagnetic stainless steel, Top and Bottom Skins: 4.8 mm thick with integrated damping layer, Core Design: Trussed honeycomb, vertically bonded closed cell construction, 0.25 mm Steel sheet materials, 0.76 mm triple core interface, Hole/Core Sealing : Easy clean conical cup 19 mm deep non-corrosive high impact polymer material.	1
1.2	Compatible Optical motorized delay stage with retro renector	1
1.2a	Stepper motor controlled translation stage Specifications: Travel range: 150 mm , Resolution: 0.1µm Minimum Incremental motion: 0.3 µm Pitch: 120 or +/- 60 µrad , Yaw: 90 or +/- 45 µrad Drive mechanism: Precision ground backlash-compensated lead screw with decoupling nut , Maximum speed: 20 mm/sec , MTBF: 20,000 hrs with 5 kg load and 30% duty cycle h, Bearings: Linear ball bearings, Switches: Optical Origin: At the centre of travel with repeatability 5µm Stepper Motor: Two phase stepper motor , Base Material: Stainless Steel Cable Length : > 3 metres, Thread Type: M4 and M6	
.2b	Controller Controller for above stage with Backlash and hysteresis correction. Specifications: Computer interface: RS-232-C and/or USB compatible Number of axis: 1, Drive type: Stepper Motor control:48 VDC, 1.1A/ph peak, 100kHz PWM switching freq 2 color LED ESP Stage Detection, Motion: Point to Point, Software: windows and lab view interfacing command and drivers	1
1.2c	Power supply	1
1.2d	220-240 VAC, 50 Hz Interface cable(USB and RS232)	2
1.2e	Two sets of USB and RS232 interface cablesBroadband hollow retro reflectors01 no.Aperture diameter 1",reflectivity > 90%,wavelength over 650-900 nm1. Material : Pyrex or BK 72. Wave front distortion : $\leq \lambda/3$ at 633nm over the full aperture3. Surface quality: 80 - 50, scratch -dig4. Beam deviation: 10 arc sec or less5. Housing material: Black anodized Aluminium6. Mounting: M6 hole7. Damage threshold: 100W /cm² CW	01
1.3	Optical Chopper Optical chopper with chopping frequency phase-locked to internal frequency synthesizer. Includes six wheels, a wheel cover, and a USB 2.0 Specifications: Chopping Frequency: 4 Hz to 10.65 kHz, Harmonic Chopping: 2 to 15, Sub-Harmonic Chopping: 1/2 to 1/15, Phase Jitter: 0.4° rms	1

Atox χ.

2	Lock-In- Amplifiers (compatible for optical chopper reference signal and terahertz signals from balanced detector) DSP dual Lock-In Amplifier (with rack mount) simultaneously displays the magnitude and phase of a signal. Uses digital signal processing (DSP) to replace the demodulators, output filters, and amplifiers found in conventional lock-ins. Operating range of 1 mHz to 102 kHz and 100 dB of drift-free dynamic reserve. input impedance 10 M Ω , and minimum full-scale input voltage sensitivity is 2 nV., 0.01 phase resolution, Time constant from 10 μ s to 30ks Auto-gain, -Phase,-reverse, and-offset, reference source compatible for GPIB and interface cards	
3.	Oscilloscope 250 MHz Mixed Signal Oscilloscope 4 Analog and 16 Digital Channels in-build within one instrument chassis. 9 inch Color Display, Analog Characteristics, Analog Channel Bandwidth 250MHz Record Length =4M Points, Analog Channel Sample Rate=2.5 GS/s on each channel Vertical Sensitivity =1 mV/div to 5 V/div,Horizontal System Time base Range=1ns to 50s., Acquisition Modes= Sample,Peakdetect,Averaging,Envelope,Hi-Res,Roll, Integrated Digital Voltmeter= Min 3-digit Digital voltmeter should be available Connectivity= USB,LAN,VGA, Standard Accessories =250MHz 10X passive per channel,16 channel logic probe, Manual and calibration certificate.	01
4.	PC/Laptop (with proprietary software for air plasma based terahertz time and frequency domain data analysis that must support optical delay line and optical chopper), data acquisition card, Interface converter <u>Storage:</u> Hybrid Hard Drive Capacity: 500GB or greater Optical Drive Type: CD/DVD-Writer	01
4.1	Software: Operating System Windows 7 professional or latest with original license and office 2010 or higher Processor: Processor Type Core i5 or greater Processor Speed 1.90 GHz or greater Core i5 or greater Processor Core Dual-core (2 Core) Cache 3 MB or greater Memory: Memory Card Supported Secure Digital (SD) Card (internal or external) Memory 8 GB or higher Number of Total USB Slots 4	
	 Optical wireless mouse on USB port Wirelesskeyboard 14" color LCD monitor. (19"in case of desktop PC) Operating conditions: 210-240V AC, 50Hz, Single phase Temperature range: 0-60 deg C Antivirus software User's manual for all the hardware. All hardware should be compatible with Windows 7 or latest OS. Software drivers CD/DVD (Windows 7 professional/ WinXP/Win Vista Professional) for all the hardware. 	
4.2	USB Multifunction Data Acquisition card System : 8 analog inputs Single ended or 4 differencial channels, 50 kS/s; 16-bit resolution 2 Channels Analog Outputs, 16 bits, +/- 10 V, 5kS/s one 32-bit counter, Compatible with LabVIEW, Time base: 80MHz, USB full Speed 12Mb/s	
	Attent.	

4.3	Specifications for Interface converter (GPIB Controller) for High-Speed USB with software
	 Completely IEEE 488.2 compatible Transfer rates up to 1.8 MB/s (standard) and 7.9 MB/s (HS488) Controls up to 14 GPIB instruments on GPIB Hi-Speed USB compliance; compatibility with USB 2.0 full-speed ports > 2m USB cable
	Note: The quotation must be supplemented with complete technical data sheets and literature else the quotation is likely to be rejected. The driver software for window 7 should be provided on CD/DVD media.

Optional Items

	Optics and mounting accessories for building Air Plasma based THz generation and ZnTe based detection Spectrometer system	1
5.1	Beam Splitter (50:50)	1
.1.a	Beam Splitter (50:50) Assembly including Low GVD Ultrafast Laser Beam splitter, P Polarized, 25.4 mm, 680-1080 nm: Details & Description: (Low GVD 50/50 Beam splitter for Ultra short Pulses designed to manage femtosecond pulses to minimize pulse dispersion and wavefront distortion of reflected and transmitted light. Beam splitter is for P-Polarized light and coated to provide a 50/50 split at 45° angle of incidence from 680-1060nm. A thin UV grade fused silica substrate, with λ/10 wave front distortion, is required to reduce pulse dispersion from the substrate material. Specifications: Material: UV Grade Fused Silica, Diameter: 1 in. (25.4 mm) Antireflection Coating: 680-1080 nm, Angle of Incidence: 45° Clear Aperture: > central 80% of diameter, Wedge: ≤1 arc min Thickness: 0.17 in. (4.2 mm)	
5.1.b	Clear Edge Mirror Mount, 1.0 in, (2) with Locking ActuatorsDetails & Description:Stainless Steel Kinematic Optical Mounts. 25.4 mm diameter optics are front loaded and heldsecurely in place against precision mounting pads using the nylon-tipped set screw. Polished andlapped carbide pads for smooth, repeatable motion. Two-actuator configuration with lockingAdjustment Screws with knob tip and tilt adjustability over a range of $\pm 7^{\circ}$ with 3.0 arc secondsensitivity. Convenient M4 counter bored clearance holes provide quick, precise, secure andstable mounting.Specifications:Optic Diameter: 1 in. (25.4 mm),Mechanism: KinematicDrive Type: Knob,Adjustments: θ_X, θ_Y (X-Y motion)Sensitivity Categories: 3 to 6 arc sec,Mounting Type : M4 Screws,Material: Stainless Steel	2
5.2	Folding Mirror Assemblies and mirrors	8
5.2.a	Low GVD Ultrafast Mirror, 45° AOI, 25.4 mm, 650-930 nm Details & Description: Low GVD Ultrafast Laser Mirrors, 25.4 mm in diameter, 6.1 mm thick and broadband optimized for 650 - 930 nm. Ultrafast mirror ideal for use with ultra short pulse lasers as a high reflectance	8

5.2.b	Clear Edge Mirror Mount, 1 inch, (2) with Locking ActuatorsDetails & Description:Stainless Steel Kinematic Optical Mounts. 25.4 mm diameter optics are front loaded and heldsecurely in place against precision mounting pads using the nylon-tipped set screw, or can beepoxied in place. Polished and lapped carbide pads for smooth, repeatable motion. Two-actuatorlocking Adjustment Screws with knob tip and tilt adjustability over a range of $\pm 7^{\circ}$ with 3.0 arcsecond sensitivity. Convenient M4 counter bored clearance holes provide quick, precise, secureand stable mounting.Specifications:Optic Diameter: 1 in. (25.4 mm),Mechanism: KinematicDrive Type: Knob,Adjustments: $\theta x, \theta y$ Special Features: Clear Edge,Sensitivity: 3.0 arc secMounting Type: M4 Screws,Material: Stainless Steel	8
5.3	Lenses (50 mm, 100 mm, 125 mm, 150 mm and 200 mm) Compatible Lenses with respective mounts for focusing of THz beam: N-BK7 Precision Plano-Convex Lens with 650 to 1000 nm anti-reflection coating, Features & Specifications: 25.4 mm diameter effective focal lengths of 50 mm, 100 mm, 125 mm, 150 mm and 200 mm. $\leq \lambda/4$ surface irregularity, 40-20 scratch-dig, Tight surface quality tolerances minimize scatter and unwanted diffraction effects.	01 (each) Total 5
5.4 5.4.a	100μm Thick type I BBO Crystal with compatible stage for terahertz generationHigh-Performance Low-Profile Ball Bearing Linear Stage, 25.4 mm, M6Details & Description:High-performance, low-profile, precision, ball bearing linear stage with 25 mm travel range. 156N centered load capacity and M6 mounting holes. Hardened balls rolling between opposing pairsof hardened and polished stainless steel rods for stability, repeatability, and exceptionally smoothmotion. Actuators bear upon hardened carbide insert. Springs provide preload against the actuatortip to eliminate backlash. Stainless steel actuator mounting system for choice of manual ormotorized actuators to be attached in either a left- or right-hand configuration. A non-influencinglock for positive stable positioning and guarding against inadvertent adjustmentsSpecifications:Travel Requirements: 1.0 in. (25.4 mm),Axes of Travel: XLoad Capacity: 35 lb (156 N),	1
5.4.b 5.4.c	Material: Aluminum Precision Tip/Tilt Rotation Mount, 1 in. Diameter Details & Description: Precision Rotation Mount provides tip/tilt positioning for 25.4 mm diameter mounted BBO crystal. Adjustment screws on the tip/tilt mechanism feature new knobs, including an integral hex hole, to allow smooth adjustment with increased sensitivity. Independent locks for each axis help maintain stable optical alignment. Integrated rotation stage has a full ball bearing race providing continuous 360° rotation with graduations marked in 2° increments Specifications: Type: Polarizer Mount, Optic Diameter: 1 in. (25.4 mm) BBO Crystal, Specifications: BBO crystal, 100µm thick mounted in open ring holder. 6x6 mm	
0.4.0	aperture, $\theta = 29.2$, $\varphi = 90$, coated for 400-800 nm	
5.5	Gold coated Parabolic Mirror with compatible stages	2
5.5.a	Clear Edge Mirror Mount, 3.0 in., 2 Locking Knob Adjustment (X-Y stage) Details & Description: Clear edge Mirror Mount with thick front and rear plates and optimized, stiff springs for long-term stability and greater protection against vibrations. Hard carbide pads enabling smooth, repeatable motion. Optical mount for 76.2 mm diameter optics includes two locking actuators with knob providing ±3° of tip/tilt adjustment. Convenient clearance mounting holes on each of two sides are compatible with M4 screws providing precise and secure mounting.	

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	Specifications: Optic Diameter: 3.0 in. (76.2 mm), Mechanism: Kinematic Drive Type: Knob, Adjustments: θx, θy Angular Range Categories: ±4° to ±7°, Sensitivity Categories: Less than 3 arc sec Mounting Type: M4 Screws, Material: Anodized Aluminum	
5.5.b	Off-Axis Parabolic Mirror, 1.5 in., 2.0 in., Bare Gold Details & Description: Off-Axis Parabolic Mirror, 38.1 mm diameter, with an effective focal length of 50.8 mm, and coated with bare gold. Off-axis parabolic mirrors are circular segments from one side of a full paraboloid. The focal point is displaced from the mechanical axis, giving full access to the reflector focus area. There will be no shadowing when placing either a detector or source at the focus. The mirrors are achromatic. Bare gold coating for infrared applications Specifications: Mirror Shape: Parabolic, Wavelength Range Goating Type: Bare Gold, Material: Aluminum Surface Quality: 60-40: scratch-dig, Clear Aperture: ≥90% of central diameter Reflectivity: ≥90%, Effective Focal Length: 2.0 in. Focus Base Distance: 0.800 in., Height:≥ 1.6 in. Total Parabolic mirror with 5mm Diameter hole at center.	
5.6	If pellicle beam splitter is provided than 2 parabolic mirror 's required THz Filter	1
	Mounted, polished silicon wafer	1
5.7 5.7.a	500μm ZnTe Crystal for E O Sampling with compatible stage 360° Continuous Rotation Stage, 1 inch Aperture, Coarse & Fine assembly on Linear stage Details & Description: Rotation Stage features full ball bearing races, provides exceptionally smooth and continuous	1
	angular positioning for 25.4 mm diameter optics. Rotating platform has six M4 threaded holes for added mounting flexibility. Crystal can be coarsely aligned using the round edge of the rotating platform while fine adjustment is achieved with the knob. Angular position is indicated on a 360° scale graduated in 2° increments. The adjustment knob can be securely locked by tightening the screw in the end of the knob. Specifications: Stage Type: Optic Rotator, Load Capacity: 10 lb (45 N), Travel, Coarse: 360 ° Bearings: Ball, Resolution: 4 arc min, Material: Aluminum Graduations: 2 °	
5.7.b	ZnTe Crystal, 10 x 1 mm, <110>-cut	-
5.8	(λ /4) Quarter Wave plate	1
5.8.a	360° Continuous Rotation Stage, 1 inch Aperture, Coarse & FineDetails & Description:Rotation Stage features full ball bearing races, provides exceptionally smooth and continuous angular positioning for 25.4 mm diameter optics. Rotating platform has six M4 threaded holes for added mounting flexibility. $\lambda/4$ can be coarsely aligned using the knurled edge of the rotating platform while fine adjustment is achieved with the knob. Angular position is indicated on a 360° scale graduated in less than 5° increments. The adjustment knob can be securely locked by tightening the screw in the end of the knob.Specifications: Stage Type: Optic Rotator, Sensitivity: 4 arc min, Material: Aluminum,Load Capacity: 10 lb (45 N) Graduations: less than 5° Coarse: 360° Coarse: 360°	
5.8.b	Achromatic Zero-Order Quartz-MgF2 Wave Plate, 1 in,λ/4, 700-1000nm Details & Description: Achromatic Quartz-MgF2 Zero-Order Wave Plate consists of two different birefringent crystals: crystalline quartz and magnesium fluoride (MgF2). Enclosed in 25.4 mm housing, 12 mm aperture	

	zero-order wave plate has $\lambda/4$ retardation over a 700 to 1000 nm wavelength range. Highly efficient broadband antireflection coating, in an air-spaced design. Construction ensures excellent transmitted wave front quality, while minimizing beam deviation and surface reflection losses. The assembly is mounted in a black anodized aluminum housing for protection and ease of mounting, with the retarder fast axis marked for alignment reference Specifications:	
	Diameter: 1 in. (25.4 mm), Material: Crystal Quartz and MgF2 Retardation: λ/4, Retardation Accuracy: From ±λ/50 to ±λ/100 Transmitted Beam Deviation: ≤1 arc min, Wave front Distortion: ≤λ/8 at 632.8 nm over the clear aperture, Surface Quality: 40-20 scratch-dig Thickness: 0.37 in. (9.4 mm), Damage Threshold: 5 J/cm2 Reflectivity per Surface: Broadband, Type: Zero-Order Wave plates	
5.9	Wollaston Polarizer Assembly: Wollaston Prism (uncoated) mounted in 25.4 mm anodized aluminum housing.	1
5.10	Balance Detector for E-O Sampling Auto-Balanced Photo receiver, 400-1070 nm, 125 kHz, 8-32 / M4 Details & Description: Auto-Balanced Photo receiver with 50 dB common mode rejection. 400 to 1070 nm wavelength range, 125 kHz bandwidth (-3 dB). 3 μ second rise time. Includes lab power supply and low noise BNC cable Specifications: Wavelength Range: 400-1070 nm, Bandwidth (-3 dB): 125 KHz Common Mode Rejection: 50 dB, Rise Time: 3 μ s Conversion Gain, Maximum: 5.2 x 105 V/W, Responsively (Peak): 0.5 A/W Maximum Trans impedance Gain 1x106 V/A, NEP: 3 pW/\Hz Output Impedance: 100 Ω , Thread Type: 8-32 Saturation Power CW: 1 mW, Maximum Optical Power: 4 mW Maximum RF Power: +12 dBm bei 50 Ω , Detector Type: PIN Detector Diameter: 2.5 mm, Optical Input: FC and Free Space Power Requirements: ±15 V, <300 mA	1
5.11	ND filterRound continuouslyVariable ND filterSubstrate MaterialUV graded Fused SilicaDiameter ToleranceOuter Diameter: $\pm 0.00/-0.25 \text{ mm}$ Inner Diameter: $\pm 0.25/- 0.00 \text{ mm}$ Thickness Tolerance $\pm 0.25 \text{ mm}$, Coating Radial Angle (E) $\pm 1^{\circ}$ Spectral Range $240 - 1200 \text{ nm}$, Front ND CoatingIrregularity $<\lambda$ (per cm ²), Surface QualityWedge $<3 \text{ arcmin}$, Optical Density ToleranceLinearity of Density $\pm 5\%$ Tris (pin hole)TypeTypeIris DiaphragmsMinimum Aperture2.5 mmOptical Axis Height0.79 in. (20 mm)Thread TypeM4	1
5.13	Other optional Items 1. Pellicle beam splitter for Terahertz passing and focusing on ZnTe crystal to overlap Pump and probe beam if 2 parabolic mirrors. 2. Periscope Beam steerers	

- All items must carry a warranty of at-least one year
 Please mention AMC for all equipments
 CSIR-NPL reserves the rights to place consolidated/split orders.
- 4. Quality assurance

The manufacturer should have ISO 9001-2008 certification for manufacturing and quality assurance (copies to be supplied at the time of delivery)

5. Other

- For different models, quote separately. .
- Quote separately for all the essential spare parts required for trouble free operation .
- Acceptance criteria 6.
- Quotations will be accepted only from original manufacturers or their authorized representatives.
- Only those quotation(s) will be considered which are accompanied with detailed drawing and printed .
- technical details. Test reports of the above indenting items should be supplied.
- Installations of all the indenting items have to be done at NPL site by the supplier(s). .

Arit