



**INDIAN INSTITUTE OF TECHNOLOGY MADRAS**  
**Chennai 600 036**



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The Manager (Project Purchase)

Date: 09.02.2023

Open Tender Reference No: CE/LIGY/13/IOE23/MAPSYSTHERBAN

GEM NAR ID: GEM/GARPTS/09022023/Z1BRBQLKQVSR

Due Date/Time: 22.02.2023 @ 3:00 PM

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, Tenders are invited in two bid system from Class-I local suppliers and Class II local suppliers, for the supply of **“Mapping System with RGB, MSS and Thermal Band Sensors”** Conforming to the specifications given in **Annexure -A**.

Tender Documents may be downloaded from Central Public Procurement Portal <https://etenders.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <https://etenders.gov.in/eprocure/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at **“Help for contractors”**. [Special Instructions to the Contractors/Bidders for the e-submission of the bids online through this eProcurement Portal”]

Bidders can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type ‘IIT’. Thereafter, click on “GO” button to view all IIT Madras tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <https://etenders.gov.in/eprocure/app> as per the schedule attached.

<b>1)</b>	<b>Pre-bid Meeting Details</b>	:	NA
<b>2)</b>	<b>ICSR Vendor Registration</b>	:	<p><b><u>Vendor registration code.</u></b> Vendor registration with IC&amp;SR (IITM) is mandatory for bidders to participate in tenders.</p> <p><b>** <u>For Vendor Registration &amp; Guidelines, Please follow the website :</u></b>  <a href="https://icandsr.iitm.ac.in/vendorportal">https://icandsr.iitm.ac.in/vendorportal</a>;            Helpdesk: <a href="mailto:vendorhelpdesk@icsrpis.iitm.ac.in">vendorhelpdesk@icsrpis.iitm.ac.in</a></p>

**No manual bids will be accepted.** All tender documents including Technical and Financial bids should be submitted in the E-procurement portal.

<b>Last date for receipt of tender</b>	:	<b>22.02.2023 @ 3:00 PM</b>
<b>Date &amp; time of opening of tender</b>	:	<b>23.02.2023 @ 3:00 PM</b>

### 3. Instructions to the Bidder:

<u>A)</u>	<b>Searching for tender documents</b>	:	<ul style="list-style-type: none"> <li>• There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.</li> <li>• Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective “<b>My Tender</b>” folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.</li> <li>• The bidder should make a note of the <b>unique Tender ID</b> assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.</li> </ul>
<u>B)</u>	<b>Assistance to bidders</b>	:	<ul style="list-style-type: none"> <li>• Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.</li> <li>• Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is [0120-4200462, 0120-4001002, 0120-4001005]</li> </ul>
<u>C)</u>	<b>Enrollment Process to Bidders</b>	:	<p><b><u>REGISTRATION</u></b></p> <ul style="list-style-type: none"> <li>• Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal <u>URL:https://etenders.gov.in/eprocure/app</u> by clicking on “Online Bidder Enrollment”. Enrollment on the CPP Portal is free of charge.</li> <li>• As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.</li> <li>• Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.</li> <li>• Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.)</li> <li>• Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.</li> <li>• Bidder then may log in to the site through the secured log-in by entering their user ID / password and the password of the DSC /</li> </ul>

			<p>eToken.</p> <ul style="list-style-type: none"> <li>• Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through <a href="https://etenders.gov.in/eprocure/app">https://etenders.gov.in/eprocure/app</a></li> <li>• Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site <a href="https://etenders.gov.in/eprocure/app">https://etenders.gov.in/eprocure/app</a> under the “Information about DSC”.</li> </ul>
<b><u>D)</u></b>	<b>Preparation of bids</b>	:	<ul style="list-style-type: none"> <li>• Bidder should take into account any corrigendum published on the tender document before submitting their bids.</li> <li>• Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.</li> <li>• Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender document / schedule and generally shall be in PDF / XLS formats as the case may be. Bid documents may be scanned with 100 dpi with black and white option.</li> <li>• To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GSTIN Details, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “<b>My Documents</b>” area available to them to upload such documents. These documents may be directly submitted from the “<b>My Documents</b>” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.</li> </ul>
<b><u>E)</u></b>	<b>Submission of bids</b>	:	<ul style="list-style-type: none"> <li>• Bidder should log into the site well in advance for bid submission so that he/she can upload the bid in time i.e. on or before the bid submission date and time. Bidder will be responsible for any delay due to other issues.</li> <li>• The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.</li> <li>• Bidder has to select the bid security declaration. Otherwise, the tender will be summarily rejected.</li> <li>• A standard BOQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the detail with their respective financial quotes and other details (such as name of the bidder). If the BOQ file is found to be modified by the bidder, the bid will be rejected.</li> </ul>

		<ul style="list-style-type: none"> <li>• The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.</li> <li>• The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues.</li> <li>• The uploaded tender documents become readable only after the tender opening by the authorized bid openers.</li> <li>• Upon the successful and timely submission of bids, the portal will give a successful bid submission message &amp; a bid summary will be displayed with the bid no. and the date &amp; time of submission of the bid with all other relevant details.</li> <li>• Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.</li> <li>• More information useful for submitting online bids on the CPP Portal may be obtained at: <a href="https://etenders.gov.in/eprocure/app">https://etenders.gov.in/eprocure/app</a>.</li> <li>• All tender documents including pre-qualification bid, Technical Bid &amp; Financial Bid should be submitted separately in online CPP portal as per the specified format only. Right is reserved to ignore any tender which fails to comply with the above instructions. <b>No manual bid submission will be entertained.</b></li> </ul>
<b><u>F)</u></b>	<b>Marking on Technical Bid</b>	<ul style="list-style-type: none"> <li>• The bidder eligibility criteria, technical specification and supply of item for this tender is given in Annexure A.</li> <li>• The Bidders shall go through the specification and submit the technical bid.</li> <li>• The Technical bid should be submitted in the proforma as per Annexure-B in pdf format only through online (e-tender). No manual submission of bid will be entertained.</li> <li>• The technical bid should have a page-wise heading as "Technical Bid" and page no. in all pages with seal and signature of authorized signatory. The total no. of pages should be mentioned at the last page of the documents.</li> <li>• The technical bid should consist of bidder eligibility criteria details and all technical details along with catalogue/ pamphlet which will give a detailed description of product with technical data sheet so that technical compliance can be verified.</li> </ul>
<b><u>G)</u></b>	<b>Marking on Price Bid</b>	<ul style="list-style-type: none"> <li>• Financial bid (BoQ) should be submitted in the prescribed proforma format as per Annexure-C in xls format through e-tender only. No manual or other form of submission of Financial Bid will not be entertained</li> </ul>

<b>4)</b>	<p><b>Preparation of Tender:</b> The bidders should submit the bids in two bid system as detailed below.</p> <p><b>Bid I _Technical Bid</b></p> <p>The technical bid should consist of bidder eligibility criteria and technical specification compliance sheet as per Annexure-B.</p>
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	<p><b>Bid II _Price Bid</b></p> <p>The price bid should be submitted in excel format (BoQ) as per the proforma (Annexure C) uploaded in the e-Tender web site. The Quoted price should be for supply and installation of the item and inclusive of all cost and statutory levies at IIT Madras.</p>
5)	<p><b>Price:</b></p> <p>a) The price should be quoted only in INR net per unit (after breakup) and must include all packing, transit insurance and delivery charges to the ent of <b>Department of Civil Engineering</b>.</p> <p>b) The rate quoted shall be all inclusive of all taxes and no extra payment will be made other than statutory revisions as per the terms and conditions stipulated in this contract document.</p> <p>c) The percentage of tax &amp; duties should be clearly indicated separately. IIT Madras is eligible for custom duty (5.5%). Relevant certificates will be issued wherever necessary.</p> <p>d) The offer/bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately.</p>
6)	<p><b>Tenderer shall submit along with this tender:</b></p> <p>(i) Proof of having ISO or other equivalent certification given by appropriate authorities.</p> <p>(ii) Name and full address of the Banker and their swift code and PAN No. and GSTIN number.</p> <p>(iii) GST registration proof showing registration number, area of registration etc.</p> <p>(iv) All of your future correspondences including Invoices should bear the GST No. and Area Code.</p>
7)	<p><b>Terms of Delivery:</b></p> <p>Supplier will be fully responsible for the safe carriage, Installation/Commissioning of goods up to the <b>Department of Civil Engineering</b>., IIT Madras or named place as per PO, Insurance coverage will be in the scope of the supplier.</p> <p>The tenderer should indicate clearly the time required for delivery of the item (subject to the approval of the Executive Committee-IIT-Madras). In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.</p> <p>In the event of delay or non-supply of materials/execution of Contract beyond the date of delivery/completion of job. The penalty will be levied @1% per week of delay subject to a max of 10% of the value of purchase order and if the delay is more than accepted time frame by IIT M, the PO would be partially or fully cancelled and liquidated damages will be enforced accordingly.</p>
8)	<p><b>Period for which the offer will remain open:</b></p> <p>The Tender shall remain open for acceptance/validity till: 120 days from the date of opening of the tender. However, the day up to which the offer is to remain open being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain open for acceptance till the next working day.</p>
9)	<p><b>EMD:</b></p> <p>The EMD of <b>Rs.78,000/-</b> to be transferred to the account details mentioned in Annexure D and proof should be enclosed in the Technical Bid. Any offer not accompanied with the EMD shall be rejected summarily as non-responsive.</p> <p>The EMD of the unsuccessful bidders shall be returned within 30 days of the end of the bid validity period. The same shall be forfeited, if the tenderers withdraw their offer after the opening during the bid validity period. The Institute shall not be liable for payment of any interest on EMD.</p> <p>EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by Department of Industrial Policy &amp; Promotion (DIPP). (MSE/MSME/DIPP PROOF should be enclosed in the cover containing</p>

	technical bid).
<b>10)</b>	<p><b>Performance Security: -</b></p> <p>The successful bidder should submit Performance Security for an amount of 3% of the value of the contract/supply. The Performance Security may be furnished in the form of an Account Payee DD, FD Receipt in the name of “The Registrar, IIT Madras” from any scheduled commercial bank or Bank Guarantee from any scheduled commercial bank in India. The performance security should be furnished within 14 days from the date of the purchase order.</p> <p>Performance Security in the form of Bank Guarantee: - In case the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed directly to IIT Madras from the Bank.</p> <p>The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including the warranty obligations.</p>
<b>11)</b>	For the same tender, either the OEM or the authorized dealer/service provider can only quote. But both of them cannot quote separately for the same tender.
<b>12)</b>	The offers/bids should be sent only for a item/Equipments of latest version that is available in the market and supplied to a number of customers. A list of customers in India with details must accompany the quotations. Quotations for a prototype machine will not be accepted
<b>13)</b>	Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid.
<b>14)</b>	Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal/OEM.
<b>15)</b>	<p><b>Risk Purchase Clause</b></p> <p>In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.</p>
<b>16)</b>	<p><b>Payment:</b></p> <p>(i) No Advance payment will be made. However, 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved.</p> <p>(ii) Advance Payment: No advance payment is generally admissible. In case a specific percentage of advance payment is required, the Vendor has to submit a Bank Guarantee from a scheduled commercial bank in India equivalent to the amount of advance payment.</p>
<b>17)</b>	<p><b>On-site Installation:</b></p> <p>The equipment/item or Machinery has to be installed or commissioned by the successful bidder within the number of days (as prescribed by PI) from the date of receipt of the item at the site of IIT Madras.</p>
<b>18)</b>	<p><b>Warranty/Guarantee:</b></p> <p>The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately (For more details please refer our Technical Specifications).</p> <p><b>** Note: PO which involves installation, warranty/guarantee shall be applicable from date of installation.</b></p>
<b>19)</b>	<b>Acceptance and Rejection:</b>

	<p>Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non-compliance will likely to lead to rejection of offers.</p> <p>I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.</p>
20)	<p><b>Debarment from Bidding:</b></p> <p>In case of breach of Terms &amp; Conditions, Bidder may be suspended from being eligible for bidding in any contract with the IIT Madras up to 2 Years [as per Rule 151(iii) of GFR] from the date of Tender.</p>
21)	<p><b>Disputes and Jurisdiction:</b></p> <p><b>Settlement of Disputes:</b> Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate on arbitrator. The Dean IC&amp;SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceeding shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&amp;SR IIT Madras, Chennai.</p> <p>a. <b>The Applicable Law:</b> The Purchase Order shall be construed, interpreted and governed by the Laws of India. Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.</p> <p>b. Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.</p>
22)	<p><b>Force Majeure:</b> The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.</p> <p>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.</p> <p>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.</p>
23)	<p><b>Eligibility Criteria:</b></p> <p>➤ <b>As per the Government of India Order, only "Class - I Local Suppliers" and "Class - II Local Suppliers" <u>can participate in this tender.</u></b></p> <p>➤ <b><u>Bidder should confirm their acceptance that they comply with the provisions with report to "Guidelines for eligibility of a bidder from a country which shares a land border with India as detailed at Annexure-F. The bidder should submit Certificate for "Bidder from/ Not from Country sharing Land border with India &amp; Registration of Bidder with Competent Authority" as per Order of DoE F.No.6/18/2019-PPD dated 23.07.2020 as mentioned.</u></b></p>
24)	<p><b>Preference to "class I Local Suppliers":</b> preference will be given to "class 1 local suppliers" (subject to class -I local supplier's quoted price falling within the margin of purchase preference ) as per public procurement (preference to make in India) order 2017 .O.M No P- 45021/2/2017 – pp(BE - 11) dt 04/06/2020 subject to the conditions that the "class 1 Local Supplier" should agree to supply goods / provide service at L1 rate and furnish a certificate with the technical bid document that the goods/service provided by them consists local content equal to or more than 50%.( certificate from Chartered Accountant in case value of contract exceeds Rs</p>

	<p>10 crore).</p> <ul style="list-style-type: none"> <li>➤ <b>‘Class - I local supplier’</b> means a supplier or service provider whose goods, services or works offered for procurement consists of local content equal to or more than 50% as defined under the above said order. <b>Declaration to be provided as per Annexure-E per item/service/work.</b></li> <li>➤ <b>‘Class - II local supplier’</b> means a supplier or service provider whose goods, services or works offered for procurement consists of local content equal to 20% but less than 50% as defined under the above said order. <b>Declaration to be provided as per Annexure-E per item/service/work.</b></li> <li>➤ <b>‘Margin of purchase preference’:</b> - The margin of purchase preference shall be 20%. The Definition of the margin of purchase preference is defined in the Govt. of India Order No: <b>P-45021/12/2017-PP (BE-II) Dt.4th June, 2020) Order 2017. As per the Government of India Order – “Margin of Purchase Preference” means the maximum extent to which the price quoted by a “Class-I local supplier” may be above the L1 for the purpose of purchase preference.</b></li> </ul> <p><b>**Note: Local content percentage to be calculated in accordance with the definition provided at clause 2 of revised public procurement preference to Make in India Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 &amp; P- 45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021</b></p>
25)	<p><b>Evaluation of Bids</b>  Bid evaluation will take place in two stages.  <b>Stage I Technical Bid evaluation</b>  All bidders who have fully complied with bidder eligibility criteria I,II and technical evaluation (Annexure A) will only be considered for opening of price bid.  <b>Stage II: Price Bid Evaluation</b>  The price bid evaluation will be based on price quoted by the bidder. The rate quoted for <b>“Mapping System with RGB, MSS and Thermal Band Sensors”</b> unit will alone be taken up for arrival of Lowest Bid (L1) value.</p>
26)	<p><b>Selection of successful bidder and Award of Order</b>  The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of DIPP, MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020.</p>
27)	<p>All information including selection and rejection of technical or financial bids of the prospective bidders will be communicated through e-Tender portal. In terms of Rule 173(iv) of General Financial Rule 2017, the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids.</p>
28)	<p>The tenderer shall certify that the tender document submitted by him / her are of the same replica of the tender document as published by IIT Madras and no corrections, additions and alterations made to the same. If any deviation found in the same at any stage and date, the bid / contract will be rejected / terminated and actions will be initiated as per the terms and conditions of the contract.</p>
29)	<p>Due to Covid-19 pandemic pre-bid meeting will be conducted through online. Clarification to the queries and doubts raised by the bidders will be issued as a corrigendum/addendum in the e-tenders portal.</p>
30)	<p>Due to Covid-19 pandemic the bidders will not be entertained to participate in opening of Bids. Since the tender is e-tender, the opening of the bids may be checked using the respective logins of the bidders.</p>



## **ACKNOWLEDGEMENT**

It is hereby acknowledged that I/We have gone through all the points listed under “Specification, Guidelines, Terms and Conditions” of tender document. I/We totally understand the terms and conditions and agree to abide by the same.

**SIGNATURE OF TENDERER ALONG WITH SEAL OF  
THE COMPANY WITH DATE**

**Bidder Eligibility Criteria and Technical Specification for “Mapping System with RGB, MSS and Thermal Band Sensors”**

Tender No. CE/LIGY/13/IOE23/MAPSYSTHERBAN

**Bidder Eligibility Criteria – I (Public Procurement – Preference to Make in India)**

Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE-II) dated 16<sup>th</sup> September 2020 and other subsequent orders issued therein.

**Bidder Eligibility Criteria – II**

1. The bidder/OEM should have supplied at least 3 similar items to IITs, NITs, IISERs, CSIR Labs or other Govt. R&D organizations in the last 5 years, PO copies or installation certificates along with contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.
2. The bidder should provide local service engineer to attend service related issues
3. Company should be registered in India for last 3 years. Proof of company registration should be enclosed.
4. The bidder should have 1.5 Cr turnover in any one of the last 3 Financial Year.

**III. Technical Specification For “Mapping System with RGB, MSS and Thermal Band Sensors”**

Technical specifications required for one unit of Mapping System with RGB, MSS and Thermal Band Sensors: -

S.NO	DESCRIPTION	SPECIFICATIONS
1	Type of System	Topographic mapping system with mounting with RGB, MSS and Thermal Band Sensors
2	QUANTITY of Mapping systems	1 or 2 depending on integrated sensors or swappable sensors If integrated sensors – 2 Platforms If swappable sensors – 1 Platform
3	Net Weight (with propellers and RTK module)	Less than 1000 Gram
4	Max Takeoff Weight	Less than 1200 Gram
5	Dimensions (Folded)	Max Folded (without propellers): 250×100×150 mm (Length×Width×Height)
6	Dimensions (Unfolded)	Max Unfolded (without propellers): 350×300×150 mm (Length×Width×Height)
7	Diagonal Length	Max 400 mm
8	Max Ascent Speed	Min 5 m/s
9	Max Descent Speed	Min 5 m/s (Normal Mode)
10	Max Flight Speed (at sea level, no wind)	10 or 15 m/s (Normal Mode)
11	Flight Directions	Flying forward: flying sideways: flying backwards: should be there
12	Max Wind Speed Resistance	minimum 10 m/s

13	Max Flight Time (without wind)	At least 20 minutes
14	Max Hover Time (without wind)	At least 20 minutes
15	Minimum Flight Distance (KM)	3
16	Max Tilt Angle	30° (Normal Mode)
17	GNSS	GPS + Galileo + BeiDou + GLONASS (Should be RTK enabled)
18	Hovering Accuracy Range (Vertical)	Vertical: ±0.2m (Vision Positioning enabled); ±0.8 m (GNSS Positioning enabled); ±0.2 m (D-RTK enabled)
19	Hovering Accuracy Range (Horizontal)	Better than: Horizontal: ±0.3 m (Vision Positioning enabled); ±0.5 m (HD Positioning enabled); ±0.1 m (RTK enabled)
20	Operating Temperature	(-5° to 35° C)
21	<b>SENSORS</b>	
22	<b>RGB SENSOR</b>	
23	Image Sensor	4/3 CMOS
24	Effective Pixels	Minimum 20 or more MP
25	ISO Range	100-6400
26	Shutter speed	Electronic shutter: Minimum 8-1/6000 s Mechanical shutter: 8-1/1000 s
27	Min Image Size	5000×3000
28	Photo Shooting Mode	Single shot & Timelapse: 20 or more MP
29	Image Format	JPEG/DNG (RAW)
30	Video Resolution	Min H.250: Min 4 K
31	Max Video Bitrate	Min 4K: 130Mbps
32	Supported File System	exFAT
33	Video Format (If available)	MP4 (MPEG-4 AVC/H.264)
34	<b>MULTISPECTRAL SENSORS</b>	
35	Image Sensor	1/2.8-inch CMOS, effective pixels: 5 MP
36	Aperture	Aperture: Minimum f/2.0
37	Multispectral Sensor Range (Indicative)	Green (G): 560 ± 16 nm;
38		Red (R): 650 ± 16 nm;
39		Red Edge (RE): 730 ± 16 nm;
40		Near infrared (NIR): 860 ± 26 nm;
41	Shutter Speed	Electronic Shutter: 1/30~1/12800 s
42	Minimum Image Size	2500×1800
43	Image Format	TIFF/Geotiff/Jpeg/BMP/GIF
44	Video Format	MP4 (MPEG-4 AVC/H.264)
45	Photo Shooting Mode	Single shot: 5 MP
46	Video Resolution	H.264. FHD: 1920 x 1080@30fps, Video content: NDVI/GNDVI/NDRE
47	<b>GIMBAL</b>	
48	Stabilization System	3-axis mechanical gimbal (tilt, roll, pan)
49	PAN	Pan: -27° to 27°
50	Controllable Range	Tilt: -90° to 35°
51		Pan: Uncontrollable

52	Max Control Speed (tilt)	Minimum 100°/s
53	Angular Vibration Range	±0.005°
54	<b>VIDEO TRANSMISSION</b>	
55	Live View Quality Remote Controller:	1080p/30fps
56	Operating Bands	2.400-2.4835 GHz 5.725-5.850 GHz
57	Video Transmission System	Image Transmission Industry Edition
58	Max Transmission Distance	Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC)
59	(Obstructed)	Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC)
60		Weak Interference (remote fields, open farmland, etc.): 9-15 km (FCC), 6-8 km (CE/SRRC/MIC)
61	Max Download Speed	15 MB/s (with DJI RC Pro Industry Edition)
62	Antennas	4 antennas, 2 transmitting and 4 receiving
63	<b>BATTERY</b>	
64	Capacity	5000 mAh
65	Standard Voltage & Max Charging Voltage	15.4 V
66	Battery Type	LiPo 4S
67	Chemical System	Lithium Cobalt
68	Weight	Max 350 Gram
69	Charging Temperature	5° to 40° C (41° to 104° F)
70	BATTERY CHARGER	240 AC
71	CHARGING HUB	Minimum 4 Batteries on Charging Rotation
72	Charging Temperature	5° to 40° C (41° to 104° F)
73	<b>RTK MODULE (Optional)</b>	
74	Interface	USB-C
75	Power	Approximately 1.2 watts
76	RTK Position Accuracy	Fixed RTK: Minimum Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm
77	<b>GENERAL</b>	
78	Launching (Take-off)	VTOL
79	Landing	Automatic landing accuracy
80	Preparation time to launch	<15 minutes
82	Data Link	Secure Link, Communication data link complying with International standard and certification.
83	Transportation Case	Hard Carry Case. All up weight including full system should not exceed 15 kg and should be portable by single person.
84	<b>GROUND CONTROL STATION</b>	
85	Type	Ruggedized Notebook/Tab based controller with Flight planning & control software
86	Screen Size	6 inch or more
87	Power Backup	Minimum 1 HR.
88		The whole system workflow of preparation & planning, integration of payloads and their connectivity with GCS, Survey flight operations must be seamlessly integrated

	System Workflow	with each other and should not require more than one software in GCS
89	Planning & control software features during flight planning	specifying the parameters for data collection (altitude of the survey or required spatial resolution of picture, camera model, side and forward overlap);
90	(These are bare essential features and should not be restricted to these only)	creating a flight task project according to the built up arbitrary polygon or vector; automatic change of a desired track and turning points of the route with any change in the borders of the surveying polygon or axial line route; selection of aerial routes location parallel to the long or short side of the surveying polygon or in arbitrary direction;
91	<b>POST PROCESSING SOFTWARE</b>	
92	Features	Professional Photogrammetry Software
93		Fully automated and intuitive workflow for generation of high-resolution geo-referenced, survey-grade accurate true ortho-mosaics, DSMs/DTMs; Dense point cloud generation and classification, Polygonal model reconstruction and texturing, 2D measurements, 2D vectorization output, Volume measurements, and 4D reconstruction for dynamic scenes. Processing results in widely supported formats. Compatible with Windows/Mac OS X/ Linux.
94	License	No Opensource Software
95		1 No. Permanent License
96	<b>SPARE PARTS &amp; CONSUMABLES</b>	
97	Batteries	Minimum 4 + Charger
98	Spare Parts	Propellers & attachments
99	<b>TERMS &amp; CONDITIONS</b>	
100	Warranty :	
118	System	At least for 3 years of warranty to be included
119	Battery	6 months (Min 200 charge cycles)
120	Consumable (Propeller)	6 months
121	Technical Support	At least for 3 years of technical support to be included
122	Training	Yes – 02 days at customer site
123	AMC	At least for 3 years of comprehensive AMC to be included
	<b>Terms and Conditions:</b>	
107	Necessary training and installation to be provided.	
	<b>General Terms and Conditions:</b>	
1	The company should be registered with Registrar of companies in Tamil Nadu	
2	Recognized by nodal agencies such as State Remote Sensing Applications Centre and previous working/supply experience with the Tender inviting organization.	
3	Should have experience in the photogrammetry high-resolution mapping for minimum 8 years.	

4	Should have completed minimum 25 photogrammetry mapping projects using similar sensors with the government (central/state) similar to high resolution mapping.
5	Supporting firm should have staff with minimum qualification of PhD/ Master's Degree from reputed academic institution in geospatial or UAV mapping.
6	Should have experience in providing quality training (capacity building) in both drone/UAV and related software operation.
7	Demonstrated Mapping experience with RGB, TIR and MSS sensors
8	Should have SOP approved by DGCA or Airport Authority of India.

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified)

**TECHNICAL BID PROFORMA**  
Tender No. CE/LIGY/13/IOE23/MAPSYSTHERBAN

**Item Name: “Mapping System with RGB, MSS and Thermal Band Sensors” Bidder Eligibility Criteria:**

I	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
I	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 <sup>th</sup> September 2020 and other subsequent orders issued therein.			
<b>2.0</b>	<b>Bidder Eligibility Criteria-II</b>	<b>Compliance (Yes/No)</b>	<b>Reference Page No.</b>	<b>Remarks, If any</b>
1	The bidder/OEM should have supplied at least 3 similar items to IITs, NITs, IISERs, CSIR Labs or other Govt. R&D organizations in the last 5 years, PO copies or installation certificates along with contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.			
2	The bidder should provide local service engineer to attend service related issues			
3	Company should be registered in India for last 3 years. Proof of company registration should be enclosed			
4	The bidder should have 1.5 Cr turnover in any one of the last 3 Financial Year.			

**3.0 Technical Compliance:**

Technical specifications required for one unit of Mapping System with RGB, MSS and Thermal Band Sensors: -

S.NO	DESCRIPTION	SPECIFICATIONS	Complied / Not Complied	Reference Page No.
1	<b>Type of System</b>	Topographic mapping system with <b>mounting with RGB, MSS and Thermal Band Sensors</b>		
2	QUANTITY of Mapping systems	1 or 2 depending on integrated sensors or swappable sensors If integrated sensors – 2 Platforms If swappable sensors – 1 Platform		
3	Net Weight (with propellers and RTK	Less than 1000 Gram		

	module)			
4	Max Takeoff Weight	Less than 1200 Gram		
5	Dimensions (Folded)	Max Folded (without propellers): 250×100×150 mm (Length×Width×Height)		
6	Dimensions (Unfolded)	Max Unfolded (without propellers): 350×300×150 mm (Length×Width×Height)		
7	Diagonal Length	Max 400 mm		
8	Max Ascent Speed	Min 5 m/s		
9	Max Descent Speed	Min 5 m/s (Normal Mode)		
10	Max Flight Speed (at sea level, no wind)	10 or 15 m/s (Normal Mode)		
11	Flight Directions	Flying forward: flying sideways: flying backwards: should be there		
12	Max Wind Speed Resistance	minimum 10 m/s		
13	Max Flight Time (without wind)	At least 20 minutes		
14	Max Hover Time (without wind)	At least 20 minutes		
15	Minimum Flight Distance (KM)	3		
16	Max Tilt Angle	30° (Normal Mode)		
17	GNSS	GPS + Galileo + BeiDou + GLONASS (Should be RTK enabled)		
18	Hovering Accuracy Range (Vertical)	Vertical: ±0.2m (Vision Positioning enabled); ±0.8 m (GNSS Positioning enabled); ±0.2 m (D-RTK enabled)		
19	Hovering Accuracy Range (Horizontal)	Better than: Horizontal: ±0.3 m (Vision Positioning enabled); ±0.5 m (HD Positioning enabled); ±0.1 m (RTK enabled)		
20	Operating Temperature	(-5° to 35° C)		
21	<b>SENSORS</b>			
22	<b>RGB SENSOR</b>			
23	Image Sensor	4/3 CMOS		
24	Effective Pixels	Minimum 20 or more MP		
25	ISO Range	100-6400		
26	Shutter speed	Electronic shutter: Minimum 8-1/6000 s Mechanical shutter: 8-1/1000 s		
27	Min Image Size	5000×3000		
28	Photo Shooting Mode	Single shot & Timelapse: 20 or more MP		
29	Image Format	JPEG/DNG (RAW)		
30	Video Resolution	Min H.250: Min 4 K		



31	Max Video Bitrate	Min 4K: 130Mbps		
32	Supported File System	exFAT		
33	Video Format (If available)	MP4 (MPEG-4 AVC/H.264)		
34	<b>MULTISPECTRAL SENSORS</b>			
35	Image Sensor	1/2.8-inch CMOS, effective pixels: 5 MP		
36	Aperture	Aperture: Minimum f/2.0		
37	Multispectral Sensor Range (Indicative)	Green (G): 560 ± 16 nm;		
38		Red (R): 650 ± 16 nm;		
39		Red Edge (RE): 730 ± 16 nm;		
40		Near infrared (NIR): 860 ± 26 nm;		
41	Shutter Speed	Electronic Shutter: 1/30~1/12800 s		
42	Minimum Image Size	2500×1800		
43	Image Format	TIFF/Geotiff/Jpeg/BMP/GIF		
44	Video Format	MP4 (MPEG-4 AVC/H.264)		
45	Photo Shooting Mode	Single shot: 5 MP		
46	Video Resolution	H.264. FHD: 1920 x 1080@30fps, Video content: NDVI/GNDVI/NDRE		
47	<b>GIMBAL</b>			
48	Stabilization System	3-axis mechanical gimbal (tilt, roll, pan)		
49	PAN	Pan: -27° to 27°		
50	Controllable Range	Tilt: -90° to 35°		
51		Pan: Uncontrollable		
52	Max Control Speed (tilt)	Minimum 100°/s		
53	Angular Vibration Range	±0.005°		
54	<b>VIDEO TRANSMISSION</b>			
55	Live View Quality Remote Controller:	1080p/30fps		
56	Operating Bands	2.400-2.4835 GHz 5.725-5.850 GHz		
57	Video Transmission System	Image Transmission Industry Edition		
58	Max Transmission Distance	Strong Interference (urban landscapes, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC)		
59	(Obstructed)	Medium Interference (suburban landscapes, city parks, etc.): 3-9 km (FCC), 3-6 km (CE/SRRC/MIC)		
60		Weak Interference (remote fields, open farmland, etc.): 9-15 km (FCC), 6-8 km (CE/SRRC/MIC)		
61	Max Download Speed	15 MB/s (with DJI RC Pro)		

		Industry Edition)		
62	Antennas	4 antennas, 2 transmitting and 4 receiving		
63	<b>BATTERY</b>			
64	Capacity	5000 mAh		
65	Standard Voltage & Max Charging Voltage	15.4 V		
66	Battery Type	LiPo 4S		
67	Chemical System	Lithium Cobalt		
68	Weight	Max 350 Gram		
69	Charging Temperature	5° to 40° C (41° to 104° F)		
70	BATTERY CHARGER	240 AC		
71	CHARGING HUB	Minimum 4 Batteries on Charging Rotation		
72	Charging Temperature	5° to 40° C (41° to 104° F)		
73	<b>RTK MODULE (Optional)</b>			
74	Interface	USB-C		
75	Power	Approximately 1.2 watts		
76	RTK Position Accuracy	Fixed RTK: Minimum Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm		
77	<b>GENERAL</b>			
78	Launching (Take-off)	VTOL		
79	Landing	Automatic landing accuracy		
80	Preparation time to launch	<15 minutes		
82	Data Link	Secure Link, Communication data link complying with International standard and certification.		
83	Transportation Case	Hard Carry Case. All up weight including full system should not exceed 15 kg and should be portable by single person.		
84	<b>GROUND CONTROL STATION</b>			
85	Type	Ruggedized Notebook/Tab based controller with Flight planning & control software		
86	Screen Size	6 inch or more		
87	Power Backup	Minimum 1 HR.		
88	System Workflow	The whole system workflow of preparation & planning, integration of payloads and their connectivity with GCS, Survey flight operations must be seamlessly integrated with each other and should not require more than one software in GCS		

89	Planning & control software features during flight planning	specifying the parameters for data collection (altitude of the survey or required spatial resolution of picture, camera model, side and forward overlap);		
90	(These are bare essential features and should not be restricted to these only)	creating a flight task project according to the built up arbitrary polygon or vector; automatic change of a desired track and turning points of the route with any change in the borders of the surveying polygon or axial line route; selection of aerial routes location parallel to the long or short side of the surveying polygon or in arbitrary direction;		
91	<b>POST PROCESSING SOFTWARE</b>			
92	Features	Professional Photogrammetry Software		
93		Fully automated and intuitive workflow for generation of high-resolution geo-referenced, survey-grade accurate true ortho-mosaics, DSMs/DTMs; Dense point cloud generation and classification, Polygonal model reconstruction and texturing, 2D measurements, 2D vectorization output, Volume measurements, and 4D reconstruction for dynamic scenes. Processing results in widely supported formats. Compatible with Windows/Mac OS X/ Linux.		
94	License	No Opensource Software		
95		1 No. Permanent License		
96	<b>SPARE PARTS &amp; CONSUMABLES</b>			
97	Batteries	Minimum 4 + Charger		
98	Spare Parts	Propellers & attachments		
99	<b>TERMS &amp; CONDITIONS</b>			
100	Warranty :			
101	System	At least for 3 year of warranty to be included		

102	Battery	6 months (Min 200 charge cycles)		
103	Consumable (Propeller)	6 months		
104	Technical Support	At least for 3 year of technical support to be included		
105	Training	Yes – 02 days at customer site		
106	AMC	At least for 3 year of comprehensive AMC to be included		
<b>Terms and Conditions:</b>				
107	Necessary training and installation to be provided.			
<b>General Terms and Conditions:</b>				
1	The company should be registered with Registrar of companies in Tamil Nadu			
2	Recognized by nodal agencies such as State Remote Sensing Applications Centre and previous working/supply experience with the Tender inviting organization.			
3	Should have experience in the photogrammetry high-resolution mapping system supply for minimum 8 years.			
4	Should have completed minimum 25 photogrammetry mapping projects using similar sensors with the government (central/state) similar to high resolution mapping;			
5	Supporting firm should have staff with minimum qualification of PhD/ Master's Degree from reputed academic institution in geospatial/geoinformatic mapping.			
6	Should have experience in providing quality training (capacity building) in both drone/UAV and related software operation.			
7	Demonstrated Mapping experience with RGB, TIR and MSS sensors			
8	Should have SOP approved by DGCA or Airport Authority of India.			

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the above points with document proof as required. Failing which bidders will be technically disqualified)

**SIGNATURE OF BIDDER ALONG WITH  
SEAL OF THE COMPANY WITH DATE**

**FINANCIAL BID (PROFORMA) - BILL OF QUANTITIES (BOQ)**

**Item Name: "Mapping System with RGB, MSS and Thermal Band Sensors"**  
**Tender No. CE/LIGY/13/IOE23/MAPSYSTHERBAN**

It. No	Description of work	Quantity	Units	Basic Rate in INR	GST in Percentage	Total Amount with taxes in INR
1	<b>"Mapping System with RGB, MSS and Thermal Band Sensors"</b>	1	Nos.			
	Grand Total					

Total Amount Rupees in words \_\_\_\_\_



CENTRE FOR INDUSTRIAL CONSULTANCY & SPONSORED RESEARCH (IC&SR)  
INDIAN INSTITUTE OF TECHNOLOGY MADRAS  
CHENNAI 600 036



**ELECTRONIC CLEARING SERVICE (Credit Clearing)/ REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS**

**A. Details of Account Holder**

Name of the Institution	Indian Institute of Technology - Madras
Complete Contact Address	Industrial Consultancy and Sponsored Research Indian Institute of Technology-Madras, IIT- Madras Campus Post Office, Sardar Patel Road, Guindy, CHENNAI - 600 036
Telephone No./ Fax No.	Tel - 044-2257 8356
E- mail ID of the FO/AO/REG/DIR	dricrs@iitm.ac.in

**B. Bank Account Details:**

Institution Account Name (As per Bank Record)	The Registrar, Indian Institute of Technology - Madras
Account No.	2722101003872
Account Print Name	IIT F A/C , The Registrar IIT Madras
IFSC CODE	CNRB0002722
Bank Name (in full)	Canara Bank
Branch Name	IIT-Madras Branch
Complete Branch Address	Canara Bank, IIT-Madras Branch, IIT- Madras Campus Post Office, Sardar Patel Road, Guindy, CHENNAI - 600 036
MICR No.	600015085
Account Type	Savings Account

Certified that the Institute's account is in an RTGS enabled branch.

I hereby declare that the particulars given above are correct and complete.

Date:

Signature of the Competent Authority  
of the Institution with seal.

**FORMAT FOR AFFIDAVIT OF SELF-CERTIFICATION UNDER PREFERENCE TO MAKE IN INDIA – PER ITEM**

**Tender Reference Number:**

**Name of the item / Service:**

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

I/We \_\_\_\_\_ S/o, D/o, W/o, \_\_\_\_\_

Resident of \_\_\_\_\_

Hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P- 45021/102/2019-BE-II-Part (1) (E-50310) Dt.4th March 2021 and any subsequent modifications/Amendments, if any and

That the local content for all inputs which constitute the said item/service/work has been verified by me and I am responsible for the correctness of the claims made therein.

<b>Tick (✓) and Fill the Appropriate Category</b>	
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to or more than 50% and come under “ <b>Class-I Local Supplier</b> ” category.
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to 20% but less than 50% and come under “ <b>Class-II Local Supplier</b> ” category.

- The details of the location (s) at which the local value addition is made and the proportionate value of local content in percentage

Address \_\_\_\_\_ Percentage of Local content: \_\_\_\_\_%

For and on behalf of ..... (Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors)

<Insert Name, Designation and Contact No.>

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]

**This letter should be on the letterhead of the quoting firm and should be signed by a competent authority. Non-submission of this will lead to Disqualification of bids.**

**Annexure – F**

(To be given on the letter head of the bidder)

No. \_\_\_\_\_

Dated: \_\_\_\_\_

**CERTIFICATE**

*(Bidders from India)*

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I am not from such a country.

**OR (*whichever is applicable*)**

*(Bidders from Country which shares a land border with India)*

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I from \_\_\_\_\_ (Name of Country) and has been registered with the Competent Authority. I also certify that I fulfil all the requirements in this regard and is eligible to be considered. *(Copy/ evidence of valid registration by the Competent Authority is to be attached)*

Place:

Date:

Signature of the Tenderer  
Name & Address of the  
Tenderer with Office Stamp