



भारतीय प्रौद्योगिकीसंस्थानमद्रासचेन्ने 600 036
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Booma Sowrirajan
Assistant Registrar (Stores & Purchase)

Dated : 25.03.2021

Tender No. IITM/SPS/DAQ /012/2020-21

Due Date: 15.04.2021
Before 2.00 p.m.

Dear Sirs,

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**, namely technical and financial bids for the supply of

“16-Channel DAQ with Digital Bridge Signal Conditioner – 4 Nos”

Conforming to the specifications enclosed in **Central Public Procurement Portal (eprocurement mode)** and also in **Government e-Market (GeM) portal**.

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.

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

	LAST DATE for receipt of Tender	:	15.04.2021 before 02.00 p.m
	Date & Time of opening of Tender	:	16.04.2021 @ 03.00 p.m
1	Pre-bid Meeting	:	Due to Pandemic COVID-19 restrictions, the Pre-bid Meeting will be conducted via Google Meet on 31.03.2021 @ 03:00 pm. Please see the below link to join the meeting meet.google.com/dsp-ugzr-gji Bidders are requested to join Google Meet before 2.45pm on 31.03.2021 and register your participation. Before joining this meeting, bidders should send email with details of person who will attend this meeting and their company details along with your queries to adstores@iitm.ac.in on or before 30.03.2021
A	Submission of Tender in CPP Portal and also in Government e-Market (GeM) Portal	:	(i) As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal URL: https://etenders.gov.in/eprocure/app The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: https://etenders.gov.in/eprocure/app . All tender documents including pre-qualification bid, Technical Bid & 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. No manual bid submission will be entertained. (ii) The same tender will also be floated in Government e-Market (GeM)

B	Instructions for online bid submission	:	<p>REGISTRATION</p> <ol style="list-style-type: none"> i. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal URL:https://etenders.gov.in/eprocure/app by clicking on “Online Bidder Enrollment”. Enrolment on the CPP Portal is free of charge. ii. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts. iii. 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. iv. 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.) v. https://etenders.gov.in/eprocure/app?component=%24DirectLink&page=DSCInfo&service=direct&session=T with their profile. vi. 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. vii. 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 / eToken.
GUIDELINES, TERMS AND CONDITIONS OF TENDER			
C	Searching for tender documents	:	<ol style="list-style-type: none"> i. 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. ii. 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 “My Tender” 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. iii. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.
D	Preparation of bids	:	<ol style="list-style-type: none"> i. Bidder should take into account any corrigendum published on the tender document before submitting their bids. ii. 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. iii. 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. iv. 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 “My Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Documents” 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.
E	Submission of bids	:	<ol style="list-style-type: none"> i. 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. ii. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document. iii. Bidder has to select the bid security declaration. Otherwise, the tender will be summarily rejected. iv. A standard BOQ format has been provided with the tender document to be filled by all

			<p>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.</p> <p>v. 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.</p> <p>vi. 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.</p> <p>vii. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.</p> <p>viii. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.</p> <p>ix. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.</p>
F	Assistance to bidders	:	<p>i. 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.</p> <p>ii. 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]</p>
G	General Instructions to the Bidders	:	<p>i. The tenders will be received online through portal https://etenders.gov.in/eprocure/app. In the Technical Bids, the bidders are required to upload all the documents in pdf format.</p> <p>ii. 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 https://etenders.gov.in/eprocure/app</p> <p>iii. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://etenders.gov.in/eprocure/app under the "Information about DSC".</p>
H	Bid Security Declaration and Performance Guarantee	:	<p>As per OM No.F.9/4/2020 – PPD dt: 12.11.2020, the bidder may submit a bid security declaration in the proforma given in Annexure - E</p> <p>The successful bidder shall submit a Performance Guarantee of 3% of the bid amount by way of DD/ Bank Guarantee obtained from any commercial bank.</p>
I	Marking on Technical Bid	:	<p>i. The bidder eligibility criteria, technical specification for the supply of items for this tender is given in Annexure A.</p> <p>ii. The Bidders shall go through the specification and submit the technical bid.</p> <p>iii. 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.</p> <p>iv. 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.</p> <p>v. 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.</p>
J	Marking on Price Bid	:	<p>Financial bid (BoQ) should be submitted in the prescribed format as per Annexure-C in xls format through e-tender only. No manual or other form of submission of Financial Bid will be entertained.</p>
2	Preparation of Tender:		
	<p>a) The rate quoted shall be inclusive of all taxes and no extra payment will be made other than statutory revisions as per the terms and conditions stipulated in this tender document.</p> <p>b) The offer/bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately.</p>		
3	Signing of Tender:		
	<p>The Tender is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the schedule to the Tender are not fully filled in or not duly signed/authenticated. Specific attention is drawn to the delivery dates and terms and conditions enclosed herewith. Each page of the bids required to be signed and bears the official seal of the Bidders.</p> <p>If the application is made by a firm in partnership, it shall be signed (with seal) by all the partners of the firm above their full typewritten names and current addresses or alternatively by a partner holding power of attorney for the firm in which case a certified</p>		

	<p>copy of the power of attorney shall accompany the application. A certified copy of the partnership deed along with current addresses of all the partners of the firm shall also accompany the application.</p> <p>If a limited company or a corporation makes the application, it shall be signed by a duly authorized person holding power of attorney for signing the application, in which case a certified copy of the power of attorney shall accompany the application. Such limited company or corporation may be required to furnish satisfactory evidence of its existence. The applicant shall also furnish a copy of the Memorandum of Articles of association duly attested by a Notary Public.</p>
4	<p>Tenderer shall submit along with this tender:</p> <p>(i) Proof of having ISO or other equivalent certification given by appropriate authorities. (ii) Name and full address of the Banker and their swift code and PAN No. and GSTIN number. (iii) GST registration proof showing registration number, area of registration etc. (iv) All your future correspondences including Invoices should bear the GST No. and Area Code.</p>
5	<p>Period for which the offer will remain open:</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>
6	<p>Prices:</p> <p>i. The prices quoted must be Nett considering all scope of work, terms & conditions and as per the technical specification mentioned in Annexure A. The prices quoted by the bidders should be inclusive of GST and other statutory levies. ii. All conditional tenders will be summarily rejected. iii. Quote should be in INR only.</p>
7	<p>Concessional GST:</p> <p>Certificate for availing concessional GST @ 5% on IGST and @ 2.5% for CGST and SGST as per Notification No.45/2017 Central Tax (Rate) Dated 14th November 2017 & Notification No.47/2017 Integrated Tax (Rate) Dated 14th November 2017, for procurement of Equipments and Consumables for research purpose will be provided.</p>
8	<p>No advance payment will be made:</p> <p>The payment will be made only after satisfactory installation of item and as per terms and conditions.</p>
9	<p>Terms and Conditions: 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>
10	<p>Delivery: 4-6 weeks from date of Purchase order.</p>
11	<p>Right of Acceptance: IIT Madras reserves the right to reject the whole or any part of the Tender without assigning any reason or to accept them in part or full.</p>
12	<p>Communication of Acceptance: Letter of Intimation and acceptance will be communicated by post/email to the successful bidder to the address indicated in the bid.</p>
13	<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>
14	<p>Jurisdiction: All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of Tender is issued.</p>
15	<p>Force Majeure: 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> <ul style="list-style-type: none"> 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.
16	<p>Public Procurement – Preference to Make in India:</p> <p>This tender will be evaluated based on Public Procurement (Preference to Make in India) DIPP, MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein. Accordingly, preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself. Necessary self-certification about the classification of the supplier/bidder as per the above order should be submitted by the bidder in Annexure-D1/D2. Non-submission of self-certification will lead to rejection of bid out rightly and the bidder will be treated as non-local supplier.</p>
17	<p>Bidder Eligibility Criteria – I - Certificate</p> <p>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 & Registration of Bidder with Competent Authority" as per Order of DoE F.No.6/18/2019-PPD dated 23.07.2020 as mentioned.</p> <p>Bidder Eligibility Criteria – II (Public Procurement – Preference to Make in India)</p> <p>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 16th</p>

	<p>September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I and Class-II local suppliers should be submitted in the prescribed proforma format as per Annexure-D1 & Annexure –D2.</p> <p>Bidder Eligibility Criteria - III</p> <ol style="list-style-type: none"> 1.0. The Bidder's firm should be registered in India. (Necessary document proof should be submitted). 2.0. The bidder must have supplied atleast 3 nos of similar equipment to other Government organisations/ Public Sector Undertakings / Reputed Organizations. (Necessary purchase order copies should be attached). 3.0. The bidder must be capable of supplying all the required original equipment manufacturer's software and the accessories for the equipment's as per the requirement of IIT Madras, whenever it is required upon payment in the next 3 years. 4.0. First preference will be given to original equipment manufacturer's distributors, valid proof of distributorship shall be enclosed. 5.0. Annual turnover should be atleast three crores in any one of the past three financial years i.e.2017-18, 2018-19, 2019-20. (Financial statements / certificates issued by Chartered Accountant should be submitted as proof).
18	<p>Number of Bids and their Submission : The bidders should submit the bids in two bid system as detailed below:-</p> <p>Bid I Technical Bid The technical bid should consist of bidder eligibility criteria and technical specification compliance sheet as per Annexure-B.</p> <p>Bid II Price Bid 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 & installation / and calibration should be done by the supplier for required equipments and inclusive of all cost and statutory levies at IIT Madras.</p>
19	<p>Evaluation of Bids Bid evaluation will take place in two stages.</p> <p>Stage I: Technical Bid evaluation</p> <ol style="list-style-type: none"> 1. Based on the Order of DoE F.No.6/18/2019-PPD dated 23.07.2020 (Bidder from/ Not from Country sharing Land border with India & Registration of Bidder with Competent Authority), bidders will be evaluated and those bidders who have complied with this criteria alone be evaluated for the bidder eligibility criteria-II, bidder eligibility criteria-III and technical Specification evaluation. 2. This tender document will also be floated in Government e-Market (GeM) portal and the bids received will be considered for technical evaluation. 3. All bidders who have fully complied with bidder eligibility criteria I, II,III, technical evaluation & demonstration, in both CPPP and GeM only be considered for opening of price bid. <p>Stage II: Price Bid Evaluation</p> <p>The price bid evaluation will be based on price quoted by the bidder and will be taken up for arrival of lowest bid (L1) value considering the bids both from CPPP and Government e-Market (GeM) Portal.</p>
20	<p>Selection of successful bidder and Award of Order 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>
21	<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>
22	<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>
23	<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>

**Assistant Registrar
(Stores & Purchase Section)**

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 16 Channel DAQ with Digital Bridge Signal Conditioner

Tender No. IITM/SPS/DAQ /012/2020-21

Bidder Eligibility Criteria – I - Certificate

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 & Registration of Bidder with Competent Authority” as per Order of DoE F.No.6/18/2019-PPD dated 23.07.2020 as mentioned.

Bidder Eligibility Criteria – II (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 16th September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender as per **Annexure-D1 & Annexure –D2**.

Bidder Eligibility Criteria – III

- 1.0. The Bidder’s firm should be registered in India. (Necessary document proof should be submitted).
- 2.0. The bidder must have supplied atleast 3 nos of similar equipment to other Government organisations/ Public Sector Undertakings / Reputed Organizations. (Necessary purchase order copies should be attached).
- 3.0. The bidder must be capable of supplying all the required original equipment manufacturer’s software and the accessories for the equipment’s as per the requirement of IIT Madras, whenever it is required upon payment in the next 3 years.
- 4.0. First preference will be given to original equipment manufacturer’s distributors, valid proof of distributorship shall be enclosed.
- 5.0. Annual turnover should be atleast three crores in any one of the past three financial years i.e.2017-18, 2018-19, 2019-20. (Financial statements / certificates issued by Chartered Accountant should be submitted as proof).

The department of Ocean Engineering request for purchase of 16 Channel DAQ with digital bridge signal conditioner -4 nos and must be installed at IIT Madras.

IV. TECHNICAL SPECIFICATION FOR 16 CHANNEL DAQ WITH DIGITAL BRIDGE SIGNAL CONDITIONER – 4 Nos

Sl. No.	Specifications	Descriptions
1.	No of modules	Input module containing 16 electrically isolated & individually configurable channels. Facility to upgrade to 64+ channels via cascading.
2.	Signal conditioning	Strain Gauge in 3–wire regulated and 4–wire Quarter bridges; in 5 wire Half bridges; in 4 & 6 wire Full bridges, PT100, Resistance, Potentiometric transducers, Voltage (10 V differential, 0...30 V unipolar)
3.	Quarter bridge Completion	Internal Completion resistors of 120 & 350 ohm with ± 5 ppm/ $^{\circ}$ C temperature co-efficient. Software selectable. No external completion resistors or manually hardwiring of completion resistors is acceptable.
4.	A/D Converter	Each channel should have separate 24-bit A/D Converter for synchronous & parallel measurements. No Multiplexing / sample & hold.
5.	Sampling rate per channel	≥ 20 KHz/channel. Individually adjustable / channel
6.	Bridge Excitation Voltage	0.5, 1, 2.5, 5V. Both DC &Carrier Frequency excitation required.
7.	Carrier frequency (sine)	1200Hz
8.	Accuracy class	0.05
9.	Measurement frequency range	0 ... 3 kHz for DC &400Hz for Carrier
10.	Bridge Measurement range	± 20 mv
11.	Transducer input	300 ... 1000 Ω
12.	Channel Isolation	All inputs to be electrically isolated
13.	Auto & Shunt Calibration	Inbuilt shunt with ± 5 ppm/ $^{\circ}$ C temperature co-efficient required giving 1mv/V on every channel. Software selectable. No external shunt resistors or manually hardwiring of shunt resistors is acceptable. Auto calibration for all channels in parallel is also required
14.	Bessel & Butterworth Filters	0.01 HZ to 3.2 KHz individually adjustable per channel
15.	Transducer impedance	300 ... 1000 Ω
16.	Quantity	4 Nos.
17.	Warranty	1 Year (Minimum) including technical support is must
18.	Delivery	4-6 Weeks
19.	Installation & Callibration	Should be done by supplier for required equipments.
20.	Demo	Demo has to be arranged in IIT Madras by the technically qualified bidder before opening the price bid.

TECHNICAL BID PROFORMA
Tender No. IITM/SPS/DAQ /011/2020-21
16 Channel DAQ with Digital Bridge Signal Conditioner

1.0 Bidder Eligibility Criteria:

I	Bidder Eligibility Criteria-I - Certificate	Class I / Class II	Local Content value	Reference, Page No.
1	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 & Registration of Bidder with Competent Authority" as per Order of DoE F.No.6/18/2019-PPD dated 23.07.2020 as mentioned.			
II	Bidder Eligibility Criteria-II (Public Procurement – Preference to Make in India)	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1	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 th September 2020 and other subsequent orders issued therein, shall be eligible to bid in procurements as per Annexure-D1 & Annexure – D2.			
II	Bidder Eligibility Criteria-III	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1	The Bidder's firm should be registered in India. (Necessary document proof should be submitted).			
2	The bidder must have supplied atleast 3 nos of similar equipment to other Government organisations/ Public Sector Undertakings / Reputed Organizations. (Necessary purchase order copies should be attached).			
3	The bidder must be capable of supplying all the required original equipment manufacturer's software and the accessories for the equipment's as per the requirement of IIT Madras, whenever it is required upon payment in the next 3 years.			
4	First preference will be given to original equipment manufacturer's distributors, valid proof of distributorship shall be enclosed.			
5	Annual turnover should be atleast three crores in any one of the past three financial years i.e.2017-18, 2018-19, 2019-20. (Financial statements / certificates issued by Chartered Accountant should be submitted as proof).			

2.0 Technical Compliance for 16 Channel DAQ with Digital Bridge Signal Conditioner – 4 Nos

S. No	Specification	Descriptions	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1.	No of modules	Input module containing 16 electrically isolated & individually configurable channels. Facility to upgrade to 64+ channels via cascading.			
2.	Signal conditioning	Strain Gauge in 3-wire regulated and 4-wire Quarter bridges; in 5 wire Half bridges; in 4 & 6 wire Full bridges, PT100, Resistance, Potentiometric transducers, Voltage (10 V differential, 0...30 V unipolar)			
3.	Quarter bridge Completion	Internal Completion resistors of 120 & 350 ohm with ± 5 ppm/ $^{\circ}$ C temperature coefficient. Software selectable. No external completion resistors or manually hardwiring of completion resistors is acceptable.			
4.	A/D Converter	Each channel should have separate 24-bit A/D Converter for synchronous & parallel			

S. No	Specification	Descriptions	Compliance (Yes/No)	Reference Page No.	Remarks, If any
		measurements. No Multiplexing / sample & hold.			
5.	Sampling rate per channel	≥ 20 KHz/channel. Individually adjustable / channel			
6.	Bridge Excitation Voltage	0.5, 1, 2.5, 5V. Both DC & Carrier Frequency excitation required.			
7.	Carrier frequency (sine)	1200Hz			
8.	Accuracy class	0.05			
9.	Measurement frequency range	0 ... 3 kHz for DC & 400Hz for Carrier			
10.	Bridge Measurement range	±20 mv			
11.	Transducer input	300 ... 1000Ω			
12.	Channel Isolation	All inputs to be electrically isolated			
13.	Auto & Shunt Calibration	Inbuilt shunt with ±5 ppm/°C temperature co-efficient required giving 1mv/V on every channel. Software selectable. No external shunt resistors or manually hardwiring of shunt resistors is acceptable. Auto calibration for all channels in parallel is also required			
14.	Bessel & Butterworth Filters	0.01 HZ to 3.2 KHz individually adjustable per channel			
15.	Transducer impedance	300 ... 1000Ω			
16.	Quantity	4 Nos.			
17.	Warranty	1 Year (Minimum) including technical support is must			
18.	Delivery	4-6 Weeks			
19.	Installation & Calibration	Should be done by supplier for required equipments.			
20.	Demo	Demo has to be arranged in IIT Madras by the technically qualified bidder before opening the price bid.			

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

FINANCIAL BID (PROFORMA) - BILL OF QUANTITIES (BOQ)
16 Channel DAQ with Digital Bridge Signal Conditioner
Tender No. IITM/SPS/DAQ /012/2020-21

It. No	Description of work	Quantity	Units	Basic Rate in INR	GST in Percentage	Total Amount with taxes in INR
1	Supply & Installation and/ Calibration of 16 Channel DAQ with Digital Bridge Signal Conditioner at IIT Madras as per technical specification given in Annexure A (IV)	4	Nos.			
	Grand Total					

Total Amount Rupees in words _____

SELF-CERTIFICATION FORMAT FOR CLASS-I LOCAL SUPPLIER

Tender No. IITM/SPS/DAQ /012/2020-21

Date: _____

I / We _____ S/o, D/o, W/o, _____ Resident
of _____ hereby solemnly affirm and declare as under:

That I/we will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Order, 2017 (hereinafter PPP-MII order) of Government of India issued vide Notification No: P-45021/2/2017 -BE-II dated 15/06/2017, its revision dated 28/05/2018 and any subsequent modifications/Amendments, if any and

That the information furnished hereinafter is correct to the best of my knowledge and belief and I/we undertake to produce relevant records before the procuring entity/IIT Madras or any other Government authority for the purpose of assessing the local content of goods/services/works supplied by me for (Enter the name of the Equipment/Item for Project).

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

I/We[name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is equal to or more than 50% and come under 'Class-I Local Supplier' Category. As being 'Class-I Local Supplier', we are eligible for Purchase Preference under 'Make in India' Policy vide Gol 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)

That the value addition for the purpose of meeting the 'Minimum Local Content' has been made by me at (Enter the details of the location(s) at which value addition is made).

That in the event of the local content of the goods/services/works mentioned herein is found to be incorrect and not meeting the prescribed Minimum Local Content criteria, based on the assessment of procuring agency (ies)/IIT Madras/Government Authorities for the purpose of assessing the local content, action shall be taken against me in line with the PPP-MII order and provisions of the Integrity pact/ Bidding Documents.

I/We agree to maintain the following information in the Company's record for a period of 8 years and shall make this available for verification to any statutory authority.

- i. Name and details of the Local Supplier (Registered Office, Manufacturing unit location, nature of legal entity)
- ii. Date on which this certificate is issued
- iii. Goods/services/works for which the certificate is produced
- iv. Procuring entity to whom the certificate is furnished
- v. Percentage of local content claimed and whether it meets the Minimum Local Content prescribed
- vi. Name and contact details of the unit of the Local Supplier (s)
- vii. Sale Price of the product
- viii. Ex-Factory Price of the product
- ix. Freight, insurance and handling
- x. Total Bill of Material
- xi. List and total cost value of input used to manufacture the Goods/to provide services/in construction of works
- xii. List and total cost of input which are domestically sourced. Value addition certificates from suppliers, if the input is not in-house to be attached
- xiii. List and cost of inputs which are imported, directly or indirectly

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.>

ANNEXURE: D2

SELF-CERTIFICATION FORMAT FOR CLASS-II LOCAL SUPPLIER

Tender No. IITM/SPS/DAQ /012/2020-21

Date: _____

I / We _____ S/o, D/o, W/o, _____ Resident
of _____ hereby solemnly affirm and declare as under:

That I/we will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Order, 2017 (hereinafter PPP-MII order) of Government of India issued vide Notification No: P-45021/2/2017 -BE-II dated 15/06/2017, its revision dated 28/05/2018 and any subsequent modifications/Amendments, if any and

That the information furnished hereinafter is correct to the best of my knowledge and belief and I/we undertake to produce relevant records before the procuring entity/IIT Madras or any other Government authority for the purpose of assessing the local content of goods/services/works supplied by me for *(Enter the name of the Equipment/Item for Project)*.

That the local content for all inputs which constitute the said goods/services/works has been verified by me and I/we am/are responsible for the correctness of the claims made therein.

I/We *(name of manufacturer)* hereby confirm in respect of quoted item(s) that Local Content is more than 20% but less than 50% and come under 'Class-II Local Supplier' Category.

That the value addition for the purpose of meeting the 'Minimum Local Content' has been made by me at *(Enter the details of the location(s) at which value addition is made)*.

That in the event of the local content of the goods/services/works mentioned herein is found to be incorrect and not meeting the prescribed Minimum Local Content criteria, based on the assessment of procuring agency (ies)/IIT Madras/Government Authorities for the purpose of assessing the local content, action shall be taken against me in line with the PPP-MII order and provisions of the Integrity pact/ Bidding Documents.

I/We agree to maintain the following information in the Company's record for a period of 8 years and shall make this available for verification to any statutory authority.

- i. Name and details of the Local Supplier (Registered Office, Manufacturing unit location, nature of legal entity)
- ii. Date on which this certificate is issued
- iii. Goods/services/works for which the certificate is produced
- iv. Procuring entity to whom the certificate is furnished
- v. Percentage of local content claimed and whether it meets the Minimum Local Content prescribed
- vi. Name and contact details of the unit of the Local Supplier (s)
- vii. Sale Price of the product
- viii. Ex-Factory Price of the product
- ix. Freight, insurance and handling
- x. Total Bill of Material
- xi. List and total cost value of input used to manufacture the Goods/to provide services/in construction of works
- xii. List and total cost of input which are domestically sourced. Value addition certificates from suppliers, if the input is not in-house to be attached
- xiii. List and cost of inputs which are imported, directly or indirectly

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.>

(To be printed in the letter head of the bidder)

BID DECLARATION FORM

**To
The Registrar,
IIT Madras**

I, the authorized signatory of _____ participating in the subject Tender No. _____ dated _____ for "16 Channel DAQ with Digital Bridge Signal Conditioner".

That I have availed the benefit of waiver of EMD while submitting our offer against the subject Tender No. IITM/SPS/DAQ /012/2020-21.

That in the event we withdraw/ modify our bid during the period of validity OR we fail to execute formal contract agreement within the given timeline OR we fail to submit a performance security within the given timeline OR we commit any other breach of Tender Conditions/Contract which attracts penal action of forfeiture of EMD and we will be suspended from being eligible for bidding/award of all future contract (s) of Indian Institute of Technology Madras for a period of one year from the date of committing such breach. Further, we agree that your institute is at liberty to intimate this debarment to all departments/ organizations of government and governmental organizations.

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

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

No. _____

Dated: _____

CERTIFICATE

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)*

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 from _____ (Name of Country) and have been registered with the Competent Authority. I also certify that I fulfil all the requirements in this regard and 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

SCHEDULE OF TENDER

**Tender No. IITM/SPS/DAQ /012/2020-21
16 Channel DAQ with Digital Bridge Signal Conditioner**

Name of Organization	Indian Institute of Technology Madras
Tender Type (Open/Limited/EOI/Auction/Single)	OPEN
Tender Category (Services/Goods/Works)	Goods
Type/Form of Contract (Work/Supply/Auction/ Service/ Buy/ Empanelment/ Sell)	Supply
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	16 Channel DAQ with Digital Bridge Signal Conditioner
Source of Fund (Institute/Project)	IIT Madras
Is Multi Currency Allowed	No
Date of Issue/Publishing	25.03.2021
Document Download Start Date	26.03.2021
Document Download End Date	15.04.2021
Prebid Meeting via Google Meet	31.03.2021 @ 03.00 pm
Bid Submission Start Date	08.04.2021
Last Date and Time for Uploading of Bids	15.04.2021 before 02.00 pm
Date and Time of Tender Opening	16.04.2021 at 03.00 pm
Bid Security Declaration	Annexure E
No. of Covers (1/2/3/4)	2
Bid Validity days (180/120/90/60/30)	120 Days
Address for Communication	The Assistant Registrar Stores & Purchase Section IIT Madras Chennai – 600 036
Contact No.	For Queries : 044- 2257 8285/8287/8288
Email Address	adstores@iitm.ac.in