No. **PH-INS-079-23-24**   Date: 11 August 2023

Request for Quotation

To,

Subject: Supply & Installation of NI my DAQ Kit with Software.

Sirs

Indian Institute of technology (Indian School of Mines), Dhanbad is interested for the purchase of the materials/ equipment listed below:

Sl.No.	Detailed Specifications	Quantity
1	**Supply & Installation of NI my DAQ Kit with Software (Student Version) (Specification in Annexure –II)**	10 No

INSTRUCTIONS:

1) Please attach relevant technical literature of the item.
2) Please fill the attached form 01 regarding class of supplier.
3) Please mention warranty/ guarantee period in your offer. Equipment/ material supplied must have minimum warranty/ guarantee of **12 months**.
4) Please attached authorization certificate from OEM.
5) Please mention after sales service information in your offer.
6) *Please attach a certificate that the quoted price is not more than that of any other Govt. organization/ institution in India. This has to be mentioned in the offer letter clearly*.
7) The rates should be quoted for each item separately as per price schedule attached as annexure I (A) & (B). The comparison between the indigenous and the foreign offers shall be made on FOR destination basis and CIF/CIP basis respectively. However, the CIF/CIP prices quoted by any foreign bidder shall be loaded further as under:
   -Towards customs duty, IGST and other statutory levis, custom clearance, inland transportation, currency fluctuation etc. – 30% of the CIF/CIP value. -Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price. Price bids of only technically qualified tenderers shall be opened in their presence on a pre-notified date and time.
8) The items/ materials shall be required to be delivered at App Phy Department of IIT (ISM) Dhanbad at the risk and cost of the tenderer.
9) Your tender must be **valid for minimum 120 days** from the date of opening of tender.
10) The stores are required to be delivered within 30 days, late delivery may not be accepted.
11) Full details of stores offered should be given in the tender along with supporting & relevant literatures/ Technical Literature.
12) The items offered should be of good quality confirming to BIS standards, wherever applicable.
13) *Advance payment is not admissible.* Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items.
14) In the event of the supplier failed to supply the materials or install the same as contractual condition, IIT (ISM) Dhanbad shall have the right to deploy suitable agency/ third party to get the job completed at the risk and cost of the supplier.
15) Tender may please be submitted *in sealed cover/e-mail only superscribed with Enquiry No. PH-INS-079-23-24 latest by 01.09.2023.*

16) The offer must be submitted in the office of Deputy Registrar (Purchase & Stores), IIT (ISM), Dhanbad– 826004 (Jharkhand, India) only. Please send your offer by Regd.Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) Dhanbad working hours only (i.e. Monday to Friday). At any circumstances

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STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@iitism.ac.in || Website : www.iitism.ac.in

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by hand delivery is not acceptable. Late or delayed tenders shall be summarily rejected. Bids sent through Email/Fax or submitted in unsealed cover(s) will not be accepted and such bids will be treated as non-responsive bids.

17) **Performance Bank Guarantee:** A bank guarantee issued by a Nationalized Bank in India towards PBG for an amount equal to 10% of total value of purchase order and valid till the period beyond two months of completion of warranty period should be submitted in favour of **Registrar, IIT (ISM) Dhanbad.**

18) Any other information that you may like to obtain, you are free to contact IIT (ISM) Dhanbad before submission of tender.

19) IIT (ISM) Dhanbad reserves the right to accept and/or to reject any/all tenders without assigning any reason.

20) **Payment**: will be made within 30-45 days after satisfactory supply, inspection, installation/commissioning/ satisfactory services & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate

21) **Please attach purchase order copies of the same equipment which you have supplied to any other Govt., public sector and autonomous institutions**.

22) **a) In a tender, either the Indian agent on behalf of the principle/ OEM and the Principle/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
b) If an agent submit bid on behalf of the principle/ OEM, the same agent shall not submit a bid on behalf of another principle/ OEM in the same tender for the same item/product.**

Deputy Registrar

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Annexure –I (A)

1. PRICE SCHEDULE FOR GOODS BEING OFFERED WITHIN INDIA

Name of the Bidder_____

NIT Reference No. _____

File Reference No. _____

Sl. No.	Full Description of items with (HSN Code/SAC Code)	Quantity	Unit Price (in INR)	Total Amount (in INR)
1.				
2.				
3.				
Ex-Works Price-				
Packing & Forwarding				
Transportation				
GST/IGST (as applicable ……. %)				
Insurance up to Destination/handover (in case of fabrication)				
Installation & Commissioning charge				
Training charges, if any				
FOR (IIT ISM) Dhanbad				
Additional Warranty Charges, if any				
Annual Maintenance Charge, if any				

   *(On the basis of the technical specifications submitted)

Total Bid Price_____   in words_____

Note:

(a) The Price schedule of optional items shall be indicated in a separate sheet in the same Performa.

(b) Cost spare parts may be indicated separately

Signature of Bidder
Name _____

Business

Address_____

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No. **PH-INS-079-23-24**   Date: 11 August 2023
                                                                                                   Annexure –I (B)

2. PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD

Name of the Bidder_____

NIT Reference No. _____

File Reference No. _____

Sl. No.	Description/Part No./Make Model	Quantity	Unit Price (in foreign currency)	Total Amount (in foreign currency)
1.				
2.				
3.				
Total Ex-Works Price-				
Packing & Forwarding and inland freight				
*FCA (at port)				
Terminal charges, loading on vassal				
**FOB (name of port)				
Air freight & insurance up to destination port				
*CIF				
Carrier charges & insurance up to final destination				
**CIP				
Concessional Custom Duty (Against DSIR Certificate)				
IGST rate (Against IIT (ISM) Certificate)				
Other Duties taxes/clearance charge, if any				
Transportation charges up to IIT ISM Dhanbad				
Chargeable weight/Gross weight of consignment				
Indian agency Commission (%)				
Installation & Commissioning charge				
Training charges, if any				
Additional Warranty Charges, if any				
Annual Maintenance Charge, if any				
Educational discounts, if any				

      *&** Mandatory requirement   Total Bid Price_____ in words_____

Note:
Total Bid price in foreign currency _____in words
(a) Indian agent name & address_____
(b) Installation, commissioning & training charges, if any_____
(C) Please note that Indian agents' commission shall be paid in Indian Rupees only.
(d) Banker's details such as- Name of account holder, Account Number, Name of Bank, Branch code, RTGS code, NEFT code, SWIFT code etc.
(f) Price schedule of optional items shall be indicated in a separate sheet in the same performa.
(g) Quoting Price for FOB/FCA and for CIF/CIP basis, otherwise bid will be rejected.
(h)Wherever the price quoted on FOB/FCA and CIF/CIP basis are the same, the contract would be made on CIF/CIP basis only.
(i) Country of Origin Dimension and Gross Weight must be provided.

Signature of Bidder
Name _____
Business Address_____

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Form-1
Declaration by bidder
(Please specify Class of Supplier and Local Content percentage)
In accordance and manner as specified in Order No. P45021/2/2017-PP (BE-II) dated: 04th June 2020 and 2th March 2021 issued by DIPP, Ministry of Commerce and Industries, GoI.

To,

The Director,

Indian Institute of Technology (Indian School of Mines)

Dhanbad -826004

Respected Sir,

In accordance with the order No. P-45021/2/2017-PP (BE-II) dated 04th June, 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4th March 2021 I hereby declare that

I am aware about all provision mentioned in Tender No. PH-INS-079-23-24 as well as order No. P-45021/2/2017-PP (BE-II) dated 04th June, 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4th March 2021 and abides by the same.

I declare that for this tender, I am a **Class-I local supplier / Class-II local supplier / Non-local supplier** (Strike out whichever is not applicable) and classification is based on local content of goods/services/work offered by bidder in this tender.

Local content (in percentage) in offered good/services/work is: **_____%**

Whereas **'Local Content'** means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

The services such as transportation, insurance, installation, commissioning, and training and after sales service support like ACM/CMC etc. are not included as Local content in case of imported products.

The local content for all inputs which constitute the said goods/services/works has been verified and bidder is responsible for the correctness of the claims made therein.

Date:

Signature:

Name of Authorized Signatory:

Name of Bidder:

Seal of Bidder:

GSTIN : 20AAAAI0686D1ZA

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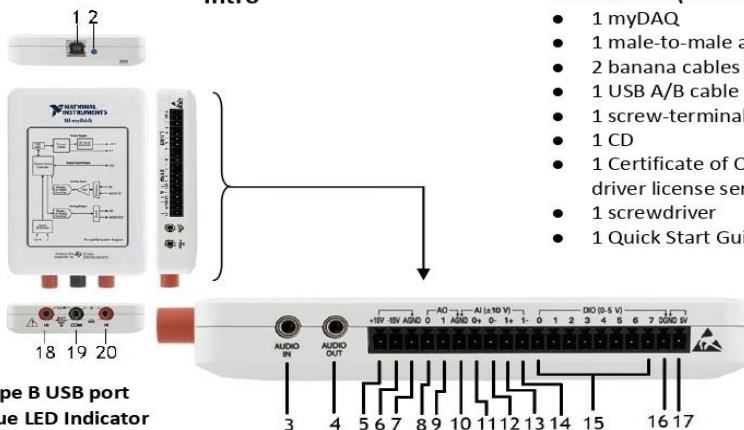No. **PH-INS-079-23-24**   Date: 11 August 2023

Annexure –II

myDAQ How-to Guide

Leland Au, UC Berkeley

Intro

Kit Materials (from the box):
- 1 myDAQ
- 1 male-to-male audio cable
- 2 banana cables with probes
- 1 USB A/B cable
- 1 screw-terminal connector
- 1 CD
- 1 Certificate of Ownership (this contains software and driver license serial numbers)
- 1 screwdriver
- 1 Quick Start Guide

USB:
1. **Type B USB port**
2. **Blue LED Indicator**

Audio:
3. **Audio In**
4. **Audio Out**

Power Supply:
5. **+15V:** +15V Power Supply
6. **-15V:** -15V Power Supply
7. **AGND:** Power Supply Ground

Analog Input:
8. **AO0:** Analog Output 0
9. **AO1:** Analog Output 1
10. **AGND:** Analog Input/Output Ground

Analog Output:
11. **AI0+:** Analog Input 0, Positive Terminal
12. **AI0-:** Analog Input 0, Negative Terminal
13. **AI1+:** Analog Input 1, Positive Terminal
14. **AI1-:** Analog Input 1, Negative Terminal

Digital Input/Output:
15. **DIO:** Digital Input/Output Pins 0-7
16. **DGND:** Digital Input/Output Ground
17. **5V:** 5V Digital Power Supply

Digital Multimeter:
18. **HI:** Positive Terminal for V,Ω,Diode **(60V Max)**
19. **COM:** Common Ground
20. **HI:** Positive Terminal for Current **(1A Max)**

Installation notes[i]:
1. Make sure to install LABVIEW, NI ELVISmx, and Multisim (the installation times are specified in the installer as well)
2. Information releasing and NI update installer: up to you
3. Full name and company: up to you
4. Serial numbers are on the Certificate of Ownership (see **"Materials"**)
5. Several dialogs requiring user interaction will appear during installation.
6. Installation time: about 45 minutes
7. Restart your computer after installation.

Leland Au

Basic Usage
(bolded numbers refer to the myDAQ diagram)

To enable the myDAQ:
1. Plug in one end of the USB cable to the computer, and the other end to the top of the myDAQ **(1)**
2. A blue LED indicator on top of the myDAQ will turn on **(2)**

Using the screw terminals (5-17):
- Attach the screw-terminal connector
- Insert/remove wires when the appropriate screw is loose.
- Turn the appropriate screw counterclockwise (with the screwdriver) to loosen.
- Turn the appropriate screw clockwise to tighten.

±15V Power Supply (non-adjustable):
1. Insert a wire into the +15V power supply **(5)** and/or -15V power supply **(7) (see "Using the terminals")**
2. Insert a wire into AGND **(5)**
3. Connect wires to the appropriate places in your circuit

NI ELVISmx (virtual instruments)[ii]

Launch: Start -> All Programs -> National Instruments -> NI ELVISmx for NI ELVIS & NI myDAQ -> NI ELVISmx Instrument Launcher

1. **DMM:** Digital Multimeter
2. **Scope:** Oscilloscope
3. **FGEN:** Function Generator
4. **Bode:** Bode Analyzer
5. **DSA:** Dynamic Signal Analyzer
6. **ARB:** Arbitrary Waveform Generator
7. **DigIn:** Digital Reader
8. **DigOut:** Digital Writer

GSTIN : 20AAAAI0686D1ZA

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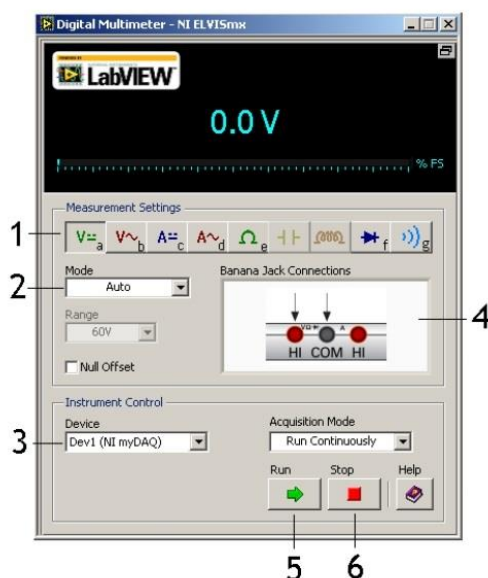
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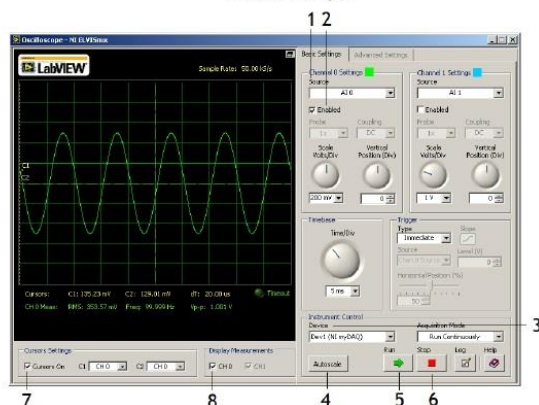No. **PH-INS-079-23-24**   Date: 11 August 2023

Digital Multimeter

Launch: NI ELVISmx Instrument launcher -> **DMM**

1. **Measurement settings**
   a. DC Voltage **(60V Max)**
   b. AC Voltage **(60V Max)**
   c. DC Current **(1A Max)**
   d. AC Current **(1A Max)**
   e. Resistance
   f. Diode
   g. Continuity
2. **Mode:** Auto (recommended) or Specify Range (and set the limit under "Range")
3. **Device:** Should include "(NI myDAQ)"
4. **Banana Jack Connections:** The arrows indicate where to connect the banana cables to on the myDAQ **(18-20)**
5. **Run:** Starts the multimeter
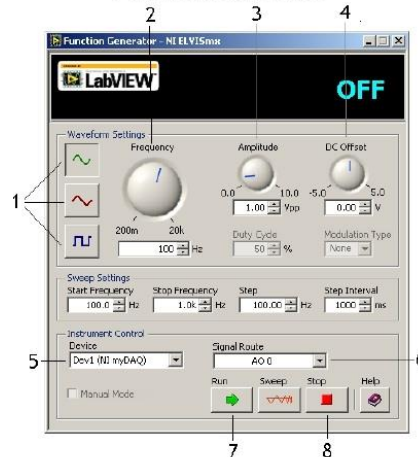6. **Stop:** Stops the multimeter

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Oscilloscope

Launch: NI ELVISmx Instrument Launcher -> **Scope**

1. **Source:** Input channel from the myDAQ (either AI0**(11)** or AI1**(13)**). Make sure the negative terminal of the corresponding channel goes to ground (**12** or **14**, respectively)
2. **Enable:** Make sure this is checked to view the channel
3. **Device:** Should include "(NI myDAQ)"
4. **Autoscale:** Press to fit data on the viewer
5. **Run:** Starts the oscilloscope
6. **Stop:** Stops the oscilloscope
7. **Cursors On:** Enable to read the current data point
8. **Display Measurements**: Enable for RMS voltage, frequency, and peak-to-peak voltage

---

Function Generator

Launch: NI ELVISmx Instrument launcher -> **FGEN**

1. **Waveform:** Sine, triangle, or square waveforms
2. **Frequency:** Waveform frequency (Hz)
3. **Amplitude:** Waveform peak-to-peak voltage (Vpp)
4. **DC Offset:** Constant offset to waveform
5. **Device:** Should include "(NI myDAQ)"
6. **Signal Route:** Output channel to myDAQ (AO0**(8)** or AO1**(9)**)
7. **Run:** Starts the function generator
8. **Stop:** Stops the function generator

---

[i] For Macs, refer to http://goo.gl/swG2P. Basically, you need Windows on the Mac.

[ii] The grayed-out instruments in the launcher and DMM require an NI ELVIS system. http://www.ni.com/nielvis/

Leland Au