



राष्ट्रीय प्रौद्योगिकी संस्थान दुर्गापुर
NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR
MAHATMA GANDHI AVENUE, DURGAPUR-713209
West Bengal, INDIA, www.nitdgp.ac.in
(An Autonomous Institution of the Govt. of India under MoE)

An Autonomous Institution of the Govt. of India under Ministry of Education (Shiksha Mantralaya)

Notice No.: NITD/PAC/NIUSB&LABVIEW/2024-25/32

Date: 20/11/2024

Sub: - Notice Inviting Objections/Comments on Procurement of **NI USB 6255 DAQ Card & Lab View Full Development Systems** for Department of Electrical Engineering Department, NIT Durgapur.

1. A request has been received from Dr. Tushar Kanti Bera, Assistant Professor, Electrical Engineering Department, NIT Durgapur for procurement of **NI USB 6255 DAQ Card & Lab View Full Development Systems** Under Proprietary Article.
2. The specification of the Software, PAC Certificate from the department and certification from the supplier are attached herewith.
3. The above documents as mentioned in para 2 are being uploaded in the public domain to submit objections, comments, if any from the manufacturer/supplier regarding Proprietary nature of the software within 26th November 2024 giving the reference no. NITD/PAC/NIUSB&LABVIEW/2024-25/32, dated: 20/11/2024. The comments/objections should be received by the Joint Registrar Procurement, NIT Durgapur over email address: procurement@nitdgp.ac.in.
4. In case of No Objection Received within seven days, it will be presumed that any other vendor is having no comment or objection to offer and case will be decided on merit to finalize the purchase.

Sd/
Asit Kumar
Joint Registrar Procurement
NIT Durgapur

Encls: -

PAC Certificates by Indenter

PAC Certificate by Supplier

Technical Specification



Annexure-V

National Institute of Technology Durgapur 713209

(An institute of National importance under Ministry of Education, Govt of India)

PROPRIETARY ARTICLE CERTIFICATE

Valid for the Current Financial Year

File Number and Date Reference		TDP/BDTD/50/2021(G)/NITDGP/TKB/ PROPRIETARY/01, Dated 12.09.2024	
1	Description of the article	NI USB 6255 Multifunction I/O Device with screw terminal LabView Academic Volume License Subscription 5 Users with 2 years ssp	
2	Forecast of quantity/annual requirement	5 Users with 2 years	
3	Approximate estimated value for above quantity	₹ INR 15,00,000.00 ₹	
4	Maker's name and address	National Instruments Corporation, 11500 N. Mopac Expressway, Austin, Texas, 78759, USA.	
5	Name(s) of authorized dealers/stockists	DigiToad Technologies Private Limited	
6	I approve the above purchase on PAC basis and certify that: -Note- Tick to retain only one out of (b), (c-1) or (c-2) whichever is applicable and cross out others. Please do confine (a) by ticking it- without which PAC certificate will be invalid.		
6(a)	This is the only firm who is manufacturing/stocking this item. AND	<input checked="" type="checkbox"/>	
6(b)	A similar article is not manufactured sold by any other firm, which could be used in lieu OR	<input checked="" type="checkbox"/>	
6(c-1)	No other make/brand will be suitable for following tangible reasons (like OEM/warranty spares): OR	<input checked="" type="checkbox"/>	
6(c)	No other make/brand will be suitable for following intangible reasons (if PAC was also given in the last procurement cycle, please also bring out efforts made since then to locate more sources): OR	<input checked="" type="checkbox"/>	
7	Reference of concurrence of finance wing to the proposal:	TDP/BDTD/50/2021(G)	
History of purchases of this item for past three years may be given below			
Name of the supplier	M/S DigiToad Technologies		
Order/Tender References & Date	Quantity Ordered	Basic Rate on Order (Rs.)	Adverse Performance Reported if Any
8265/NANOSPNSERB01010XXRG004/2024-25 dated 09.02.2024	Data Acquisition System with cables and accessories Make: NI Model: cDAQ-9174	5,99,920.00	
DTPL/QOT/NI/2023-24/NITN/1001 dated 08.03.2024	NI LabView Academic Volume License Software Subscription 25 Users with 5 years	22,62,768.00	

Recommended by: Name & Signature of Indenter

Signature of Approving Authority (HOD/HOC)

Jayati Dey
25.09.2024

Stamp & Date

Head of the Department of
Electrical Engineering
National Institute of Technology
DURGAPUR-713209

PROPRIETARY NATURE CERTIFICATE

- 1) Certified that articles mentioned in quotation no. DTPL/QOT/NI/2024-25/DAQ-LV/NITD/1036. Dated 20-09-2024 are proprietary items of M/s NI Systems (India) Pvt. Ltd
- 2) M/s DigiToad Technologies Private Limited is the sole manufacturer /distributors / established importers / dealer of these articles.
- 3) Certified that the rates quoted by M/s DigiToad Technologies Private Limited are the same and not higher these quoted with other Government, Public Sector or Private Organization.

Signature



Mukesh Kumar (Territory Manager)

(Name & Designation of the Company)

Official signing this certificate with date & seal)

09. Detailed Specifications of the Indented Goods: -

Sl. No.	Name of the Indented Goods	Quantity Required	Measurement Unit	Specifications/ Range/ Criteria/ Parameter/ Drawing/ Pictures etc.	Remarks (If any)
1	NI USB 6255 Multifunction I/O Device with screw terminal LabView Academic Volume License Subscription 5 Users with 2 years	1	No.	<p>USB6255</p> <p>80 AI (16-Bit, 1.25 MS/s), 2 AO (2.86 MS/s), 24 DIO USB Multifunction I/O Device</p> <ul style="list-style-type: none"> The USB6255 offers analog I/O, digital I/O, two 32-bit counters/timers, and analog and digital triggering. The device delivers low-cost, reliable DAQ capabilities in a wide range of applications from simple applications in laboratory automation, research, design, verification/test, and manufacturing test. You can add sensor and high-voltage measurement capability to your device with SCC or SCXI signal conditioning modules. The included NIDAQmx driver and configuration utility simplify configuration and measurements. <p>Analog Input</p> <ul style="list-style-type: none"> Number of channels- 40 differential or 80 single ended ADC resolution -16 bits DNL- No missing codes guaranteed INL- Refer to the AI Absolute Accuracy section Sample rate Single channel maximum-1.25 MS/s 	

- Multichannel maximum (aggregate)-750 kS/s
- Minimum -No minimum
- Timing resolution- 50 ns
- Timing accuracy- 50 ppm of sample rate
- Input coupling -DC
- Input range- ± 0.1 V, ± 0.2 V, ± 0.5 V, ± 1 V, ± 2 V, ± 5 V, ± 10 V
- Maximum working voltage for analog inputs (signal + common mode)- ± 11 V of AI GND
- CMRR (DC to 60 Hz)-100 dB

Input impedance

Device on

- AI+ to AI GND- >10 G Ω in parallel with 100 pF
- AI- to AI GND- >10 G Ω in parallel with 100 pF

Device off

- AI+ to AI GND- 820 Ω
- AI- to AI GND- 820 Ω
- Input bias current- ± 100 pA

Crosstalk (at 100 kHz)

- Adjacent channels- -75 dB
- Non-adjacent channels- -95 dB [1]
- Small signal bandwidth (-3 dB)- 1.7 MHz
- Input FIFO size- 4,095 samples
- Scan list memory-4,095 entries

Data transfers

- PCI/PXI- DMA (scatter-gather), interrupts, programmed I/O
- USB- USB Signal Stream, programmed I/O

Overvoltage protection for all analog input and sense channels

- Device on- ± 25 V for up to four AI pins
- Device off- ± 15 V for up to four AI pins
- Input current during overvoltage condition- ± 20 mA maximum/AI pin