

August 19, 2021

To Whom It May Concern

Tender for “Supply, Installation Testing and Commissioning of a laptop charging station with smart locker for CeNSE”.

This is an RFQ (Request for Quote) for **Supply, Installation, Testing and Commissioning of a laptop charging station with smart locker in CeNSE**”, as part of a limited tender for the Centre for Nano Science and Engineering (CeNSE.) at Indian Institute of Science (IISc.) Bengaluru. CeNSE is a multidisciplinary research department at IISc that houses a 14,000 sq. ft. cleanroom and characterization facility used by 50 faculty members from various disciplines at IISc. Supporting the central facilities are the MEMS and IC Packaging lab, the Computational Nanoengineering (CoNe) laboratory, Systems Lab, and 14 other functionally distinct laboratories managed by various research groups. In keeping with the Centre’s collaborative and open atmosphere, access to these laboratories can also be provided after appropriate permissions. CeNSE also runs a nationwide program which has allowed 4200 participants from more than 700 universities and institutes all over India to use the facilities at CeNSE. Consequently, any utility/facility at CeNSE receives significant exposure to the scientific community at IISc and beyond.

<http://cense.iisc.ac.in/>

Procedure

1. All documentations in the tender should be in English.
2. Vendors will be required to submit their technical and commercial bids addressed to The Chairman, Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore - 560012, India, in **two separate sealed envelopes**. Any violation of this will lead to the cancellation of the proposal.
3. **The deadline for submission of proposals is the 03rd September 2021, 5:30 pm Indian Standard Time.** By the above deadline, bids should arrive at the Main office, GF15 Ground Floor, Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore 560012, Karnataka, India.
4. Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.
5. The quotations should be on FOR-IISc Bangalore basis in INR only.
6. The decision of the purchase committee will be final.
7. The technical proposal should contain a compliance table. The first column must list the technical requirements and scope of work in the order that they are given in the technical configuration below (Annexure 1, 2 and 3). The second column should describe your

compliance in a “Yes” or “No” response. If “yes” the third column should provide the make and type of system. If “No” the fourth column should provide the extent of the deviation (please provide quantitative responses). The fifth column should state the reasons for the deviation. The sixth column can be used for highlighting the advantages of the system in third column.

8. Please find the Annexure below.

Annexure 1	Technical specifications
Annexure 2	Bill of material
Annexure 3	Scope of work
Annexure 4	Prospered drawing layout

9. Any additional capabilities or technical details that you would like to bring to the attention of the purchase committee can be listed at the end of the technical table.
10. Vendors are encouraged to highlight the advantages of their Laptop Charging station with smart locker over comparable from the competitors.
11. Only vendors who are compliant with the technical requirements will be considered for commercial comparison. The bid is awarded to the lowest cost vendors (referred to as L1)
12. In the commercial bid, please provide the itemized cost of the system and required accessories.
13. As an option, please provide itemized cost for any *suggested* accessories/add-ons that may enhance the system's usability, capability, accuracy, or reliability. Vendors are encouraged to quote for as many add-ons as their part/material portfolio permits.
14. Please indicate the warranty provided with the Equipment. Warranty of 3 years or more is preferred.
15. The technical proposal must include references of 3 previous installations, preferable in India. Please provide the names and contact addresses of the referees so that the committee can contact them independently.
16. For further clarification please contact Mr. N S Manjunaatha/ Pradeep Katoch, GF-10, Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore 560012, India. (manjunathans@iisc.ac.in, pradeepkatoch@iisc.ac.in)

Thanking you,
Centre for Nano Science and Engineering,
Indian Institute of Science, Bangalore 560012, India.

Annexure-1

Technical Specification.

1	Application	Laptop charging station with smart locker
2	Type of Smart Locker	<ul style="list-style-type: none"> • Biometric access/ face recognition • System should allow laptop to charge when stored. It should therefore ensure that there is enough ventilation to prevent temperature rise
3	Smart Locker capacity	<ul style="list-style-type: none"> • The system will be used by 50 laptops and up to 500 users
4	Smart Locker type	<ul style="list-style-type: none"> • Biometric access / face recognition system • IP42 waterproof & dustproof • System should log usage against this biometric/ FR identity and provide output in a format that we can use for charging. • System should allow provide users with information on which lockers are empty and which ones are not. • One should be able to take a laptop out of any locker and return it to any other.
5	Software	<ul style="list-style-type: none"> • System should be capable of sending intimation if a laptop has been taken away for more than a certain period of time that we can fix. • Report of usage can be integrated with our ERP system(FOM) • Log of usage with a backup for 3 Months.
6	Electrical Panel	<ul style="list-style-type: none"> • System should allow laptop to charge when stored. It should therefore ensure that there is enough ventilation to prevent temperature rise.
7	Electrical Cabling	<ul style="list-style-type: none"> • All cabling from electrical room to the panel must be taken in a metal trunking with suitable supporting system and preferable bus type. • The locker bank must have proper arrangement to provide protection against overvoltage, overload and electric shock. • Each compartment has universal power socket with switch for laptop charging
8	Ventilation	<ul style="list-style-type: none"> • Proper blower for ventilation • Ventilation holes on each locker door and at the back panel

9	RFID	<ul style="list-style-type: none"> • Laptop tracking through RFID / 3M UHF tags for each laptop for each storage unit. • RFID/ UHF detectors to be installed inside locker banks • RFID network lock governed by centralized control system • User cannot take out the laptops from the premise. There should be detection facility if any user tries to take out from premise. • Each compartment provided with RFID network lock
10	Dimensions of the locker in inches	<ul style="list-style-type: none"> • Locker unit made of 0.8 mm CRCA sheet • Locker compartment size: 450W 550D 250H • Locker column height not to exceed 1800H • Powder coating thickness 60-80 micron in approved finish

Annexure-2

Bill of material.

Sl.No	Description	Quantity
1	Locker banks have Face detection screen/ bio-metric access	2
2	A lot of locks consist of various components including Touchscreen Terminal (TCP/IP) & Locker Cables <ul style="list-style-type: none">• Traffic light on each door for occupancy indication• Inbuilt LED light for illuminating compartment• Inbuilt charging port(230 V)• LCD Display for locker number identification and interface	50
3	Software for tracking the usage (On-premise/ Cloud) and integration with our ERP	
4	Laptop tracking through RFID/ 3M UHF tags for each laptop and long range. RFID/ UHF detectors to be installed near locker banks	

Annexure- 3

Scope of work

Sl.No.	Application: Laptop charging station with smart locker
1	Design, manufacturing, supply, installation and integration of face detection enabled IT asset management lockers. Total 50 Nos. of compartments
2	Integration of the report with ERP in BOQ will be in vendor/Contractor's scope.
3	Any type of software updation will be in vendor/Contractor's scope.
4	a) The installation technician should follow all site safety terms. b) The Installation should be carried out by trained technicians.
5	a) The Vendor must submit references from at least 3 previous installations of similar capacity. b) The names and contact addresses of the referees must be submitted with the proposal, so the purchase committee can contact them independently.
6	Any Work permit/shutdown required for work must be intimated prior 5-6 days before start of work.