



भारतीय प्रौद्योगिकी संस्थान पटना
INDIAN INSTITUTE OF TECHNOLOGY PATNA

बिहटा, पटना-801106, बिहार, भारत
Bihta, Patna – 801 106, Bihar, INDIA

E-PROCUREMENT MODE

Tender Reference No.: IITP/R&D/473/TDF-01/2020-21
E-tender for Supply of “(1) Battery Material and Cell
Fabrication Facility (2) Cylindrical Cell and Fabrication
Facility (3) Scanning Electrochemical Testing System
and (4) Electrical Property Testing Facility”

Documents to be submitted online only



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Date: 19/02//2021

Indian Institute of Technology Patna is in the process of purchasing following items(s) as per the details as given as under:

Name of the work	Supply of “(1) Battery Material and Cell Fabrication Facility (2) Cylindrical Cell and Fabrication Facility (3) Scanning Electrochemical Testing System and (4) Electrical Property Testing Facility ”
Warranty	Standard 01 year (Replacement) followed by free service and maintenance for additional 2 years.
Delivery Schedule	12 Weeks after order Confirmation.
Submission of Bids Online: Interested parties may view and download the tender document containing the detailed terms & conditions from the website; https://eprocure.gov.in/eprocure/app	

1. Detailed Tender Documents may be downloaded from Central Public Procurement Portal (<https://eprocure.gov.in/eprocure/app>) and from our website (<https://www.iitp.ac.in/>).
2. All details /document pertaining to the tender such as tender document, pre-bid report, corrigendum and any further updates will be available only on our website & also at CPP Portal.
3. **No manual bid will be accepted. All quotations (both technical & financial) should be submitted in the e-procurement portal only.**
4. IIT Patna shall not be responsible for non-receipt of bid due to internet issues or any other reasons.

CRITICAL DATES

Publishing Date	25.02.2021 (05:00PM)
Document Download / Sale Start Date	25.02.2021 (05:00PM)
Bid Submission Start Date	25.02.2021 (05:00PM)
Last Date & Time of Submission of Bids (Technical & Financial Bid)	17.03.2021 (04:00PM)
Opening Date & Time of Technical Bids Online	18.03.2021 (04:00PM)
Address of Communication	The Registrar (for R& D Unit), Indian Institute of Technology Patna Kanpa Road, Bihta, Patna, Bihar-801106 Phone: 0612-302-8683
For taking technical assistance regarding bid submission, if any	CPP Portal Website: https://eprocure.gov.in Help Desk Number 0120-4200462, 4001002, 4001005 and 4001005.

REGISTRAR, IIT PATNA

Tender Specification for “(1) Battery Material and Cell Fabrication Facility (2) Cylindrical Cell and Fabrication Facility (3) Scanning Electrochemical Testing System and (4) Electrical Property Testing Facility”

Sr. No	Item	Technical Parameter	Power Requirement	Quantity
(I)	Battery Material Processing (Slurry Mixture, Filter and Transport) Unit	Total Design Volume: 7L-8L Effective Volume: 5L Design Temperature (°C): -10~200 Main Material: 304 Stainless steel Dimension (min inner diameter by inner height): Φ240×160mm Vacuum Degree: -0.098Mpa Safety inter-lock system Thermocouple: Pt100 (high precision temperature measurement) Lifting height: 210mm Slurry de-ironing filtering and conveying action Other machine & design parameters (Structure, Rotation, Revolution, Lifting mode, Filter element, Magneticbar, Pressure gage) should match to deliver the above stated essential requirements.	AC220V/50 Hz.	01
1 (II)	Battery Electrode Material Coating Unit	Coating Speed: 1m/min continuously adjustable Electrode width: ≤ 300 mm Coated precision: ≤ ±0.003mm Retractable tension: Adjustable Coating method: single side, continuous. Furnace temperature: room temperature ~ 150 °C adjustable Air compression 0.5-0.7MPa Current collector: copper foil, aluminum foil, etc. Roll to roll collection facility	AC220V/50 Hz.	01
1 (III)	Battery Cell Fabrication (Stacking) Unit	Electrode Specifications: L: ≥40-150mm W: ≥40-150mm H(Thickness): ≥4mm Correction accuracy: 0.05mm Separator width: ≤200mm Maximum separator rolls: φ250mm. Swing stroke ≤400mm	AC220V/50 Hz.	01
1 (IV) (A)	Battery Cell Sealing Unit Top Side Sealing	Side sealing ≤300mm, Top sealing: 300mm (Need air bag) Sealing head length: ≥200mm Sealing head width: standard 5mm Sealing side thickness: 0.15-0.3mm Sealing time: standard 0-99s adjustable Temperature: standard ≤ 250°C (adjustable PID control of temperature)	AC 220V, 50Hz	01
1 (IV) (B)	Battery Cell Sealing Unit Pre Sealing	Head temperature: Room temperature ~ 250 °C, temperature adjustable Sealing pressure adjustable in the limit ≤5kg/cm ² adjustable Sealing time: 0 ~ 99 seconds adjustable Edge Width: 5mm Maximum Edge Dimensions: ≥300mm	AC 220V, 50Hz	01

1 (IV) (C)	Battery Cell Sealing Unit Final Sealing	Cavity made of aluminum alloy, corrosion-resistant, solid structure Vacuum up to-90Kpa ~ 0 adjustable Head temperature: room temperature ~ 250 °C, temperature adjustable Temperature control accuracy: ± 1.5 °C Heat sealing pressure: 0 ~ 7Kg / cm ² adjustable Sealing time: 0 ~ 99 seconds adjustable Desirable Edge width: ≥5mm (freedom to quote customized range including the desirable limits) The maximum edge size: ≥300mm	AC 220V, 50Hz	01
2 (I)	Cylindrical Winding Machine (Preferably Suitable For 18650, 26650 & 32650)	The dia. of winding needle: φ4(standard), Separator width:>20 mm. Electrode Width:>20 mm. Electrode length:>200 mm. Winding Dia.: φ>15mm. Separator Dia.: φ76mm(3inch) Max. Dia.: φ250mm	AC 220V, 50Hz	01
2 (II)	Cell Tab (Bottom) Welding Tool (Preferably Suitable For 18650, 26650 & 32650)	Welding Current (variable & adjustable with precision): Closed to 100A (at least) Welding Power: 0-99% (adjustable) Welding Thickness: 0.02 - 0.25mm Air Pressure Range: 0.1 - 0.8 MPa Operation Temperature: -20 - 40°C Achieve mono-pulse, di-pulse, Multiple-pulse welding pressure: Adjustable Pressure applied on the welding needle Suitable for Nickel, Aluminium and SS foil Tab Welding	AC 220V, 50Hz	01
2 (III)	Cylindrical Cell Crimping Tool (Preferably Suitable For 18650, 26650 & 32650)	Sealing Pressure: Manual valve control, maximum pressure 1MPa, Working pressure 0.7MPa, Accuracy ±0.5% Sealing Stroke: ≥25mm	AC 220V, 50Hz	01
2 (IV)	Ultrasonic Welding Tool (Preferably Suitable For 18650, 26650 & 32650)	Air Supply: ≥0.5MPa Ultrasonic Frequency: 20KHz Control Way: Inbuilt PLC Control action Max. Operating Stroke of the Up Pole:15mm Welding Time: ≥0.05 Sec Metal Foil Welding thickness: ≥80µm Suitable for Aluminium and Copper foil Tab Welding	AC 220V, 50Hz	01
3 (I)	Battery Testing Tool Single Cell 5V 6A 8 Channel	No of Channel: 8 Charge modes: CC、CV、CCCV、CP Cut-off condition: Voltage, Current, Time, Capacity, -ΔV Discharge modes: CC、CP、CR、CV Cut-off condition: Voltage, Current, Time, Capacity, -ΔV Pulse Charge: CC、CP Discharge: CC、CP Min pulse width: 500ms Pulse Counts: up to 32 Chg. and Discharge Switch: Supported Cut-off condition: Voltage, Time Max cycles: 65535 Max steps: 254 Cycle nest: 3 Resolution AD : 16bit ; DA : 16bit	AC 220V, 50Hz	01

		<p>Input impedance: $\geq 1M\Omega$ Voltage: CV output range: 25mV~5V Min discharge voltage: 1.0V for universal holder, 1.5V for 2m cable Accuracy: $\pm 0.05\%$ of FS Stability: $\pm 0.05\%$ of FS Output range/channel Range1: 0.5mA-100mA; Range2: 100mA-6A Accuracy $\pm 0.05\%$ of FS CV cut-off current Range1: 0.2mA; Range2: 12mA Stability $\pm 0.05\%$ of FS Output Power/channel 30 W Stability $\pm 0.1\%$ of FS Current response time: Max rising time: 1ms Working step time: $\leq (365*24)$ h/step Data record Data record conditions: Min data record interval: 100ms Min voltage change : 10mV Min current change : Range1: 0.2mA; Range2: 12mA Frequency: 10Hz Protection Safety protection: Power-off data protection Off-line operation mode User-defined protection conditions, such as upper and lower limited current/voltage, delay time, temperature, etc. Channels feature: Independent pairs of closed loops for constant Channels control mode: Independent control Data acquisition method: Kelvin connection Database: MySQL Communication port: Ethernet port Communication: TCP/IP Data export: EXCEL, TXT, CSV, PDF, Plot/Graph Operating system: Windows 10 64 bit with high GHz Processor Disk drive: 500GB RAM: 16GB</p>		
3 (II)	Battery Testing Tool Single Cell 5V 100A 8 Channel	<p>Number of Channels: 8 Charge Modes of Operation: CCC, CVC, CC & CVC, CPC End Conditions: Voltage, Current, Test Time, Capacity Discharge Modes of Operation: CCD, CPD, CRD End Conditions: Voltage, Current, Test Time, Capacity Pulse mode Charge: CCC, CPC Discharge: CCD, CPD Minimum pulse width: 500ms Aux Channel: Aux Input: Temperature, Voltage Temperature: - 200°C~260°C Temperature Accuracy: $\pm 1^\circ\text{C}$ Temperature Resolution: 0.1°C Voltage Range: -5V~5V Voltage Accuracy: $\pm 0.1\%$ of FS Automated Switch: Automated switch from charge to discharge</p>	AC 220V, 50Hz	01

		<p>for each pulse</p> <p>End Condition: Voltage, Test Time</p> <p>Voltage Range:</p> <p>Constant voltage range control:</p> <p>Charge: 25 mV ~ 5 V</p> <p>Discharge Min Voltage: 2.5 V</p> <p>Accuracy: $\pm 0.1\%$ of FS</p> <p>Stability: $\pm 0.1\%$ of FS</p> <p>Current Range:</p> <p>Range: 0.5 A – 100A</p> <p>Accuracy: $\pm 0.1\%$ of FS</p> <p>CV cut off current: 0.2 A</p> <p>Stability: $\pm 0.1\%$ of FS</p> <p>Power:</p> <p>Output Power Per Channel: 500 W</p> <p>Stability: $\pm 0.2\%$ of FS</p> <p>Time:</p> <p>Rise Time: 20ms (10% FS ~ 90% FS)</p> <p>Step Time: $\leq (365 \times 24)$ hour/step</p> <p>Time Format: 00:00:00 (H:M: S)</p> <p>Data Acquisition:</p> <p>Intervals:</p> <p>Time interval Δt: 100ms~60000s</p> <p>Voltage interval ΔU: 10mV~5V</p> <p>Min. Current interval: 200 mA</p> <p>Frequency: 10 Hz</p> <p>Cycles:</p> <p>Cycles: 65535</p> <p>Steps: 254</p> <p>Nested Function: Max three levels of loops</p> <p>Protective Function:</p> <p>Software:</p> <p>Power-off data protection</p> <p>Off-line Operating</p> <p>User-defined safety (upper and lower) tolerance of current, voltage and delay time</p> <p>Channel Features: Independent pairs of closed loops for constant current source and constant voltage source</p> <p>Channels: Independent control</p> <p>Data Acquisition Method: Kelvin connection</p> <p>Data Management: MYSQL Database</p> <p>Export Formats: EXCEL, TXT, Graph</p> <p>Communication Means: TCP/IP Protocol</p> <p>Communication Interface: Ethernet</p> <p>OS: Windows 10 64 bit with high GHz Processor</p> <p>Hardware space requirement: 500 GB</p> <p>RAM:16GB</p>		
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4	Cell and Pack Electrical Protection and Balance Performance Testing Unit inbuilt data acquisition system	Number of test strings: 1-24 string The reference voltage: Ternary lithium battery (3.8V), lithium iron phosphate (3.0V) Overcharge protection voltage: 0.5-5V \pm 5mV Over discharge protection voltage: 0.5-5V \pm 5mV Overcharge recovery voltage (self-recovery): 0.5-5V \pm 5mV Over discharge recovery voltage: (self-recovery) 0.5-5V \pm 5mV Overcharge protection current: 0-50A \pm 0.1A Over discharge protection current: 0-120A \pm 0.1A Balance cut in voltage: 0.5-5V \pm 5mV Balance real-time current: 0-1000mA \pm 1mA Overcurrent protection delay: 0-15S \pm 1mA Overcharge protection delay: 0-20S \pm 1mA Over-discharge protection delay: 0-20S \pm 1mA Single cell self-consumption: 0-500uA \pm 1uA Loop resistance: 0-500m Ω \pm 1m Ω Short circuit protection (6 strings or more): 0-9999us \pm 1uS	AC 220V, 50Hz	01
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INSTRUCTIONS TO THE TENDERERS

The tender shall be submitted in accordance with these instructions and any tender not conforming to the instructions as under is liable to be rejected. These instructions shall form the part of the tender and the contract.

1. For Online Bid Submission as per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL:<http://eprocure.gov.in/eprocure/app>). The bidders are required to submit copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates.
2. More information useful for submitting the online bids on the CPP Portal is available/ obtained at [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)
3. For Registration, Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <http://eprocure.gov.in/eprocure/app>) by clicking on the link **“Click here to Enroll”**. Enrollment on the CPP Portal is free of charge.
4. Foreign Bidders have to refer “DSC details for foreign Bidders” for Digital Signature Certificate requirements which comes under Download Tab at <http://eprocure.gov.in/eprocure/app?page=Standard Bidding Documents &service=page> and the remaining part is same as above and below.
5. While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any tenderer stipulate any condition of his own, such conditional tender is liable to be rejected.
6. IIT Patna reserves the right to reject any tender/bid wholly or partly without assigning any reason.
7. The technical committee constituted by the IIT Patna shall have the right to verify the particulars furnished by the bidder independently.
8. Tenderer shall take into account all costs including installation, commissioning, cartage etc. for giving delivery of material at site i.e. IIT Patna before quoting the rates. In this regard no claim for any extra payment for any reason shall be entertained.
9. The item should be delivered at IIT Patna, Kanpa Road, Bihta, Patna-801106, Bihar, INDIA and the supplier shall be responsible for any damage during the transit of goods.
10. All the tender documents & price bid to be uploaded as per this tender are to be digitally signed by the bidder.
11. Interested bonafide and reputed manufacturers/India agents (on behalf of their foreign principals) may submit Online bids for each of the above equipment along with all requisite documents and scanned copy of Tender Fee / EMD submission reference.
12. The Bidder(s) may note that ONLINE BIDS will ONLY be accepted. All the requisite supporting documents mentioned in the bid document should and must be uploaded On-line <http://eprocure.gov.in/eprocure/app>. The Bids sent through FAX, E-mail, by hand and/or by post shall not be accepted/ processed, in any case.
13. The bidders may submit duly filled and completed bidding document ONLINE as per instruction contained in the bidding documents. Incomplete bid shall be rejected. The conditions of tender shall be governed by the details contained in complete bid document.
14. In case, holiday is declared by the Government on the day of opening the bids, the bids will be opened on the next working day at the same time. IIT Patna reserves the right to accept or reject any or all the tenders.
15. The detailed instruction for Online submissions of bid(s) through e-Procurement module of Central Public Procurement of NIC, the bidder(s) may visit the following link:- <http://eprocure.gov.in/eprocure/app?&service=page> .

INSTRUCTIONS FOR ONLINE BID SUBMISSION

(Department User may attach this Document as an Annexure in their Tender Document which provides complete Instructions for on line Bid submission for Bidders)

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://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) 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.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) 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 DSC’s to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID/ password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) 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.
- 2) 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 Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e- mail in case there is any corrigendum issued to the tender document.
- 3) 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.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.

2) 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.

3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

4) 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, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" 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.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

SUBMISSION OF BIDS

1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

3) Bidder has to select the payment option as "offline" to pay the tender fee/ EMD as applicable and enter details of the instrument.

4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.

5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. **If the BoQ file is found to be modified by the bidder, the bid will be rejected.**

6) 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.

7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any

bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

9) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), 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.

10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

1) 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.

2) 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.

GENERAL TERMS AND CONDITIONS

01. **Rates:** Rates quoted for indigenous items must be on F.O.R basis for IIT Patna, on DOOR DELIVERY Basis, with break up as per details given in BoQ.
02. **Validity:** The validity period of the offer should be clearly specified. It should be at least for 120 days from the last date of submission of quotations.
03. **Warranty/Guarantee:** The material is quoted with a minimum onsite Warranty/Guarantee period of Standard 01 year (Replacement) followed by free service and maintenance for additional 2 years. after the date of delivery, installation and acceptance at final destination.
04. **Bid Security Declaration:** Scanned copy of signed Bid Security Declaration should be submitted in the prescribed format.
05. **Delivery:** Unless otherwise stated delivery of goods shall be at IIT Patna and will have to be effected maximally within **12 (Twelve) weeks** from the date of order confirmation. All aspects of safe delivery shall be the exclusive responsibility of the vendor.
06. **PAN, GST Certificates & TDS:** Scanned copy of PAN along with PAN of partners/owners (if applicable) and GST Registration Certificate in Form REG-06 must be uploaded with technical bid. Appropriate GST deduction at source will be applicable.
07. **Dealership Certificate:** Dealership certificate (in case of authorised dealers) and standard Technical literature on the offered products must be uploaded with technical bid.
08. **Performance Guarantee:** 03 % in the form of Bank Guarantee/ Fixed Deposit of the total order value needs to be submitted for such period as to cover two months beyond the warranty period for any order for equipments of more than Rs.1 Lakh. In case of non-submission of BG/FD, an equivalent amount will be retained while payment till the above mentioned duration.
09. **Late and delayed quotation:** Late and delayed quotations will not be considered. In case any unscheduled holiday occurs on prescribed closing/opening date, the next working day shall then automatically be the prescribed date of closing/opening of the quotation with no change in timing.
10. **Ground for Rejection of Quotation:**
 - (i) The quotations are liable to be rejected if the foregoing conditions are not complied with. The quotation should be complete in all respects if a firm quotes NIL charges / consideration, the bid shall be treated as unresponsive and will not be considered. The quotations shall be rejected if the information, on the outer cover of the bid, is not provided in the format given in the table in Page 1.
 - (ii) Either OEM or its sole representative is allowed to bid. In case both have bid, the bid OEM will be valid.
 - (iii) If at any time of tender, cartelization is found, the bidding firms would be liable for legal action as per Ant-Competitive Practices (CCI).
11. **Payment:** Payment will be made within 30 days from the date of submission of Invoice after successful delivery and acceptance of goods at IIT Patna (successful installation in case of machinery, equipments or the likes) generally through RTGS / FUND TRANSFER. Following information must be clearly written in the uploaded bank details for RTGS / FUND TRANSFER: -
 - (a) Name of the Firm with complete postal address
 - (b) Name of the Bank with Branch where the Account exist
 - (c) IFSC CODE
 - (d) ACCOUNT No
 - (e) PAN
 - (f) GSTIN
12. **GST Concession/ Exemption:** IIT Patna being an academic institute is entitled for availing Custom Duty Exemptions in terms of Notification No. 45/2017-Central Tax (Rate) Dated 14.11.2017, Notification No. 47/2017-Integrated Tax (Rate) Dated 14.11.2017 and as amended from time to time. **Please state clearly that this certificate is required.**
13. **Liquidated Damage:** If a firm accepts an order and fails to execute the order in part or in full, as per the terms and conditions stipulated in the Purchase Order, it will be open to the institute to recover the liquidated damages from the firm at the rate of 0.5% per week of the order value subject to a maximum of 10% of the order value. It will also be open to the institute alternatively, to arrange procurement of the required stores from any other source at the risk and expense of the defaulter firm/vendor, which accepted the order but failed to execute the order according to the stipulated agreed upon. Defaulter vendor(s)/ firm(s) are also liable for blacklisting.
14. **Termination for default:** Default is said to have occurred

- (a) If the supplier fails to deliver any or all of the goods/ items/ services within the time period(s) specified in the purchase order or any extension thereof granted by IIT Patna.
- (b) If the supplier fails to perform any other obligation(s) under the contract
- (c) If the vendor, in either of the above circumstances, does not take remedial steps within a period of 30 days after receipt of the default notice from IIT Patna (or takes longer period in spite of what IIT Patna may authorize in writing), IIT may terminate the contract / purchase order in whole or in part. In addition to above, IIT Patna may at its discretion also take the following actions: IIT Patna may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate IIT Patna for any extra expenditure involved towards goods and services to complete the scope of procurement.
15. **Applicable Law:**
- (a) The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing, as may be applicable upon IIT Patna.
- (b) All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Patna, India only.
- (c) Any dispute arising out of this purchase shall be referred to the Registrar IIT Patna, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, (to be appointed by the Director of the Institute). The decision of such Arbitrator shall be final and binding on both the parties.
16. The acceptance of the quotation will rest solely with the **Director**, IITP, who in the interest of the Institute is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all of the quotations received without assigning any reason(s).
17. **Important:** The **Director** may accept or reject any or all the bids in part or in full without assigning any reason and doesn't bind himself to accept the lowest bid. The institute at its discretion may change the quantity / upgrade the criteria / drop any item, at any time before placing the Purchase Order.
18. **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, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- (i) 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.
- (ii) If a Force Majeure situation arises, the Supplier shall promptly notify IIT Patna 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.
19. The in general Printed conditions of supply of the firm, if any, will not be binding on the Institute.

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

To,
 The Registrar,
 (for Research & Development Unit)
 Indian Institute of Technology Patna
 Kanpa Road, Bihta, Patna, Bihar-801106
 Phone: 06115-233-683

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No.: _____

Name of Tender / Work:-

Dear Sir/Madam,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned "Tender / Work" from the website(s) namely:

as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / We have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department / organizations too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirely.
5. I / We do hereby declare that our Firm has not been blacklisted / debarred by any Govt. Department / Public Sector Undertaking.
6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department / organization shall without giving notice or reason thereof or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including forfeiture of the full said EMD absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Bid Securing Declaration Form
(To be given on Company Letter Head)

Date: _____

Tender No. _____

To,
The Registrar,
(for Stores & Purchase Section)
Indian Institute of Technology Patna
Kanpa Road, Bihta, Patna, Bihar-801106
Phone: 06115-233-683

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of five years from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because of

a) withdrawal/modification/amendment, impairment or derogation from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the receipt of your notification of the name of the successful Bidder.

Signed: (put signature of person whose name and capacity are shown)
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing the Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

LIST OF DOCUMENTS TO BE UPLOADED WITH TECHNICAL BID

1. Scanned copy of bank details for NEFT/ RTGS on letter head.
2. Scanned copy of self-declaration of original manufacturer or authorized dealership certificate from OEM.
3. Scanned copy of certificate of GST and PAN.
4. Scanned copy of tender acceptance letter. (Annexure-V)
5. Scanned copy of signed Bid Security Declaration. (Annexure-VI)
6. Scanned copy of detailed technical specification & brochure (if any).

(Please note that no indication of the rates/ amount be made in any of the documents submitted with the technical bid)

INSTRUCTION RELATED PRICE BID**PRICE BID – Schedule of price bid in the form of BOQ format:****A. Schedule of price bid in the form of BOQ format:**

1. The below mentioned Financial Proposal / Commercial bid format is provided as BOQ along with this tender documents at <https://eprocure.gov.in/eprocure/app>
2. **Bidders are advised to download this BOQ.xls** as it is and quote their offer / rates in the permitted column and upload the same in the commercial bid.
3. Bidder shall not tamper / modify the downloaded price bid template in any manner. In case if the same is found to be tampered/ modified in any manner, tender will be completely rejected and EMD shall be forfeited.
4. Any element of cost, taxes, duties levies etc. not specifically indicated in the BOQ, shall not be paid by the purchaser. **If GST amount is not quoted in the BOQ (Financial Bid), the total cost will be treated as inclusive of GST. No further communication will be entertained later or else the EMD will be forfeited.**
5. The tender shall remain valid for acceptance for **120 days**, from the date of tender opening.

B. Break-up of price in PDF format

1. The break-up of price for each item should be given in PDF format (signed scanned copy) with details of components with individual prices for (i) “(1) Battery Material and Cell Fabrication Facility (2) Cylindrical Cell and Fabrication Facility (3) Scanning Electrochemical Testing System and (4) Electrical Property Testing Facility (ii) Post warranty period year wise AMC charges (comprehensive & Non-comprehensive) and (iii) Optional accessories, if any in separate sheets/tables. The point (ii) & (iii) will not be considered for price bid comparison.

Signature of the Tenderer

Name of the Firm:

Contact No.:

Email:

Seal: