Indian Institute of Technology Delhi is in the process of purchasing following item(s) as per details as given as under.

**Details of the item**
- MR compatible 64 Channel EEG system

**Earnest Money Deposit to be submitted**
- NIL. However, bidders are required to submit ‘Bid Security Undertaking’ in lieu of EMD (Annexure-IX)

**Warranty**
- 3 Years/3 साल

**Performance security**
- 3% of item value

**Delivery Schedule**
- 04 to 06 weeks Pl. refer Terms & Conditions No.12

**Mandatory Minimum Local Content**
1) 50% for Class I Supplier  
2) 20% for Class II Supplier

**Margin of Purchase Preference for Local Content**
- 20% (Pl. refer to the DPIIT Order mentioned at T&C No.45)

Tender Documents may be downloaded from Central Public Procurement Portal [http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app). Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website [http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app). The portal enrolment is free of cost. Bidders are advised to go through instructions provided at ‘Instructions for online Bid Submission’.

Tenderers 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 Delhi tenders. Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website [http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app) as per the schedule given in the next page.

No manual bids will be accepted. All quotation (both Technical and Financial should be submitted in the E-procurement portal).
कोई मौजूदा बोली स्वीकार नहीं की जाएगी। सभी कोटेशन (तकनीकी और वित्तीय दोनों को ई-प्रोक्स्योरमेंट पोर्टल में जमा करना चाहिए)
**SCHEDULE**

<table>
<thead>
<tr>
<th><strong>Name of Organization</strong></th>
<th><strong>Indian Institute of Technology Delhi</strong></th>
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<tbody>
<tr>
<td><strong>Tender Type</strong></td>
<td><strong>Open</strong></td>
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<td>(Open/Limited/EOI/Auction/Single/Global)</td>
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<tr>
<td><strong>Tender Type</strong></td>
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<td>(Services/Goods/works)</td>
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<td><strong>Product Category</strong></td>
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<td>(Civil Works/Electrical Works/Fleet Management/ Computer Systems)</td>
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<tr>
<td><strong>Document Download/Sale End Date</strong></td>
<td><strong>24/11/2021 (15:00 Hrs)</strong></td>
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<tr>
<td><strong>Date for Pre-Bid Conference</strong></td>
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<tr>
<td><strong>Venue of Pre-Bid Conference</strong></td>
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<td><strong>24/11/2021 (15:00 Hrs)</strong></td>
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<tr>
<td><strong>Date and Time of Opening of Technical Bids</strong></td>
<td><strong>25/11/2021 (15:00 Hrs)</strong></td>
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<td><em>(To be paid through RTGS/NEFT. IIT Delhi Bank details are as under:)</em></td>
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<td><strong>Name of the Bank A/C</strong> : IITD Revenue Account</td>
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<td><strong>SBI A/C No.</strong> : 10773572622</td>
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<td><strong>Name of the Bank</strong> : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016</td>
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<td><strong>IFSC Code</strong> : SBIN0001077</td>
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<td><strong>Swift No.</strong> : SBININBB547</td>
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<td><em>(This is mandatory that UTR Number is provided in the online quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II)</em></td>
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<tr>
<td><strong>No. of Covers (1/2/3/4)</strong></td>
<td><strong>02</strong></td>
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<td><strong>Bid Validity days (180/120/90/60/30)</strong></td>
<td><strong>90 days (From last date of opening of tender)</strong></td>
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<tr>
<td><strong>Address for Communication</strong></td>
<td><strong>Prof. Rahul Garg,</strong></td>
</tr>
<tr>
<td></td>
<td><strong>NRCVEE, IIT Delhi, New Delhi-110016</strong></td>
</tr>
<tr>
<td><strong>Contact No.</strong></td>
<td><strong>011-2659-6585</strong></td>
</tr>
<tr>
<td><strong>Email Address</strong></td>
<td><strong><a href="mailto:rahulgarg@cse.iitd.ac.in">rahulgarg@cse.iitd.ac.in</a></strong></td>
</tr>
</tbody>
</table>

**Chairman Purchase Committee**  
(Buyer Member)
Instructions for Online Bid Submission/ ऑनलाइन बोली (बिड) के लिए निर्देश:
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 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:
http://eprocure.gov.in/eprocure/app

REGISTRATION

1) 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”. Enrolment on the CPP Portal 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 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.), 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 DSCs 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 / eToken.

बोलीदाता फिर अपने यूजर आईडी / पासवर्ड और डीएससी / ईटीकेन के पासवर्ड को दर्ज करके सुरक्षित लॉग-इन के माध्यम से साइट पर लॉग ऑन करता है।

SEARCHING FOR TENDER DOCUMENTS/ निविदा दस्तावेजों के लिए खोजना

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 / बोली (बिड) की तैयारी

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 formats. Bid documents may be scanned with 100 dpi with black and white option.
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” 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.

SUBMISSION OF BIDS/ बोली (विद) का जमा करना

1) Bidder should log into the site well in advance for bid submission so that he/she 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 “on-line” to pay the tender fee as applicable and enter details of the instrument. Whenever, Tender fees is sought, bidders need to pay the tender fee separately online through RTGS (Refer to Schedule, Page No.2).

4) A standard BoQ format has been provided with the tender document to be filled by all 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 white colored (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.

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” 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.

बोलीदाता, अनुमान में, निविदा दस्तावेज / अनुसूची में बताए अनुसार प्रस्तुत करने के लिए बोली दस्तावेज तैयार करना चाहिए और आम तौर पर, वे पीडीएफ / एसएसएलएस / एसआरआर / ट्विटर फॉर्मेट चरणों में हो सकते हैं। बोली दस्तावेजों को 100 डीपीआई के साथ काले और सफेद विकल्प सैलेन्स का जा सकता है।

बोलीदाता के एक ही सेट को अपलोड करने के लिए आवश्यक समय और प्रयास से बचने के लिए जो प्रत्येक बोली के भाषा के रूप में जमा करने के लिए आवश्यक हैं, ऐसे मानक दस्तावेज अपलोड करने का प्रावधान (जैसे पैन कार्ड चौकी, वार्षिक रिपोर्ट, लेखा परीक्षण प्रमाण पत्र आदि) ) बोलीदाताओं को प्रदान किया गया है। ऐसे दस्तावेजों को अपलोड करने के लिए बोलीकर्ता उनके लिए उपलब्ध "मेरा स्पेस" क्षेत्र का उपयोग कर सकते हैं। बोली जमा करते समय ये दस्तावेज सूची "मेरा स्पेस" क्षेत्र से जमा किए जा सकते हैं, और उन्हें बार-बार अपलोड करने की जरूरत नहीं हैं इससे बोली जमा प्रक्रिया के लिए आवश्यक समय में कमी आएगी।

1) Bidder should log into the site well in advance for bid submission so that he/she 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.

बोलीदाता को बोली प्रस्तुति के लिए अच्छी तरह से साइट पर लॉग इन करने के लिए आवश्यक हैं, ऐसे मानक दस्तावेज अपलोड करने का प्रवर्तन (जैसे पैन कार्ड चौकी, वार्षिक रिपोर्ट, लेखा परीक्षण प्रमाण पत्र आदि) ) बोलीदाताओं को प्रदान किया गया है। ऐसे दस्तावेजों को अपलोड करने के लिए बोलीकर्ता उनके लिए उपलब्ध "मेरा स्पेस" क्षेत्र का उपयोग कर सकते हैं। बोली जमा करते समय ये दस्तावेज सूची "मेरा स्पेस" क्षेत्र से जमा किए जा सकते हैं, और उन्हें बार-बार अपलोड करने की जरूरत नहीं हैं इससे बोली जमा प्रक्रिया के लिए आवश्यक समय में कमी आएगी।

बोलीदाता को निविदा दस्तावेज में दर्शाए अनुसार एक-एक करके आवश्यक बोली दस्तावेजों को डिजिटल हस्तक्षेत्र और अपलोड करना होगा।

3) Bidder has to select the payment option as “on-line” to pay the tender fee as applicable and enter details of the instrument. Whenever, Tender fees is sought, bidders need to pay the tender fee separately online through RTGS (Refer to Schedule, Page No.2).

बोलीदाता को निविदा शुल्क / ईमेडी को भुगतान के लिए “ऑन लाइन” के रूप में भुगतान विकल्प चुनना होगा और उपरकरण का विवरण दर जमा करना होगा। जब भी, ईमेडी / निविदा शुल्क की मांग की जाती है, बोलीदाताओं को टेंडर शुल्क और ईमेडी अलग-अलग आरटीजीएस के माध्यम से ऑन लाइन पर भुगतान करने की आवश्यकता होती है (अनुसूची, पेज नं.2 देखें)।

एक मानक BoQ प्रारूप को सभी बोलीदाताओं द्वारा भरने के लिए निविदा दस्तावेज प्रदान किया गया है। बोलीदाताओं को इस बार का ध्यान रखना चाहिए कि उन्हें आवश्यक प्रारूप में अपनी वित्तीय बोली जमा करनी चाहिए और कोई अन्य प्रारूप स्वीकार नहीं है। बोलीकर्ताओं की BoQ फाइल को डाउनलोड करने, इसे खोलने और अपने संबंधित वित्तीय उद्देश्य और अन्य विवरण (जैसे बोलीदाता का नाम) के साथ फोरिड रंगाइन (असुरक्षित) कोषिकाओं की पूरी करना आवश्यक है। कोई भी अन्य कार नहीं बदलता जाना चाहिए। एक बार विवरण पूरा हो जाने पर, बोलीदाता को इसे सहेजना होगा और इसे ऑनलाइन जमा करना होगा, बिना फाइल नाम बदलना। यदि BoQ फाइल को बोलीदाता द्वारा संशोधित किया गया है, तो बोली को खारिज कर दिया जाएगा।
5) 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.

6) 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.

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

8) 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.

9) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

ASSISTANCE TO BIDDERS / बोलीदाताओं को सहायता

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. The contact number for the helpdesk is 1800 233 7315.

General Instructions to the Bidders / बोलीदाताओं के लिए सामान्य निर्देश

1) The tenders will be received online through portal http://eprocure.gov.in/eprocure/app. In the Technical Bids, the bidders are required to upload all the documents in .pdf format.
2) 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://eprocure.gov.in/eprocure/app. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link “Information about DSC”.

3) Tenderer are advised to follow the instructions provided in the ‘Instructions to the Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.

निविदाकर्ता को सलाह दी जाती है कि वे निविदाकार को निर्देश दिए गए हों ताकि ई-प्रोक्योरमेंट के लिए सेंट्रल पब्लिक प्रोकोर्मेंट पोर्टल के जरिए https://eprocure.gov.in/eprocure/app पर ऑनलाइन निविदाएं जमा कर सकें।
NOTICE INVITING QUOTATIONS

Subject: Purchase of MR compatible 64 Channel EEG system
Invitation for Tender Offers

Indian Institute of Technology Delhi invites online Bids (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for supply, installation & integration of > with (warranty period as stated at page #1 of this tender) on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document, which is available on CPP Portal http://eprocure.gov.in/eprocure/app

TECHNICAL SPECIFICATION:

1. Must be suitable for children as well as adults, and both healthy control and patients with neuropsychiatric disorders.
2. The amplifier should be 64 channel and battery operated, and should be placed with batteries inside the MR Bore for recording.
3. The MR EEG System should be compatible for simultaneous EEG/fMRI acquisition, suitable for use in EEG/ERP studies and would have established successful usage for research purposes.
4. System should be upgradable to do recordings from bipolar or peripheral signals like GSR, EOG, ECG, EMG, GSR etc.
5. System should be expandable to 128 channels and the setup should be freely configurable to be used as a 32, 64, 96 or 128 channel system.
6. Facility for MR Clock and volume pulse synchronisation, along with 16 Bit TTL Triggers for stimulus and responses etc.
7. The amplifiers should be connected (via fibre optics) to a central input unit outside the scanner for Triggers & Auxiliary channels and phase synchronisation etc.
   a. The amplifier should be able to acquire AC and DC EEG signals (switchable)
   b. Input Impedance: Switchable 10 MOhm/10 GOhm (for DC)
   c. Common-mode rejection (CMR): ≥ 110 dB
   d. High-cutoff frequency (low-pass) 1000 Hz/250 Hz (switchable for the resolutions 0.1 μV/0.5 μV per bit)
   e. Lower cutoff frequency (high pass) 0 Hz in DC mode or 0.016 Hz/10s in AC mode
   f. Resolution: 0.1 μV/0.5 μV/10.0 μV per bit (switchable)
   g. Sampling Rate 5 khz per channel
   h. Input noise: ≤ 1 μVpp
8. Should be offered with an extension box to sync recordings with MR scanner clock.
9. System should be research grade CE Certified.
10. Should be offered with MR Compatible 64 channels EEG Electrode with a Recording Cap: Should be of highest safety and comfort of the test subject with good data quality both from the EEG and MRI point of view.

11. The cap should be braided to eliminate the movement artifacts.

12. All electrodes should have serial current-limiting safety resistors, acting like an additional RF-filter.

13. Electrodes should be C-shaped for safety.

14. Cable length from electrodes on cap to the amplifier should be minimized to decrease the chances of forming loops inside the MR room for safety and also to minimize artifacts (preferably less than 2m).

15. Electrode cables should be routed on the outside of the cap and secured to it so that loops are not formed and cable movement is avoided.

16. The drop-down electrodes (e.g. ECG, EOG, EMG) should additionally be sheathed in plastic to avoid direct contact with the skin of the test subject.

17. Should be supplied with gel and accessories for the subject preparation.

18. Recorder Software:
   Windows based recording software, wizard based workspaces for various research requirements and protocols. Menu structure to guide the user with all crucial steps for setting up the hardware/software filter configuration, selecting the hardware filters on a channel by channel basis.

19. The acquired data should be displayed in multiple ways.

20. The channel montages (original, bipolar and average) should be able to be switched on the fly, to adjust the channel view to the specific experiment's needs.

21. Acquisition parameters as well as the impedance check should be automatically stored and accessed from within the analysis software at any time.

22. Facility to perform complete evoked potential analysis in real-time directly and the segmented/averaged data can be stored together with the raw data.

23. Incoming data should be able to be sent out to the network via the TCP/IP protocol using the Remote Data Access module to various clients including MATLAB, C++, Python for real-time data analyses.

24. OLE automation to control the recording using external software.

25. Online Channel blocking

26. Online DC correction

27. Online EEG – MR-scanner synchronization

28. Should Display
   a. Topographic impedance display
   b. Online segmentation, artifact rejection and averaging
   c. Display filters
   d. Channel grouping
   e. Events

29. Should be offered with Software for real-time data analysis with following features:

30. Online MRI artifact correction

31. Gradient & Cardioballistic artifact correction

32. Frequency & FFT analysis

33. Data filtering

34. Mapping of surface potentials

35. Easy integration of custom online analysis
36. Online filtering
37. Online averaging, artifact rejection and baseline correction
38. Template Drift Compensation algorithm for template jitter.
39. System should be supplied with High end offline Post processing software from the same manufacturer of the amplifier for data analysis and research ensuring the continuity of seamless data acquisition and subsequent analysis with following capabilities. Reader for all industry formats.
40. With History Tree
41. ERS/ERD: Methods for calculating event-related synchronization and desynchronization.
42. Filtering: Low cutoff, high cutoff, band rejection and notch filtering with a new graphical display of the filter functions.
43. FFT and Inverse FFT
44. Wavelets: Discrete wavelet transforms for the analysis of neurophysiological signals in the time-frequency domain.
45. Faster ICA algorithms, probabilistic ICA, semi-automatic views for component selection (with topographical maps, component activity, preview of corrected data and overlay of the original data).
46. ICA ocular correction: ICA correction with eye component selection methods based on objective criteria.
47. LORETA: Source localization, further processing of source data.
48. MRI artifact correction: Innovative algorithms for the correction of gradient and pulse artifacts in neurophysiological data recorded during MRI.
49. Real-time MATLAB® interaction: Interface for applying MATLAB®/EEGLab functions to transforms and templates. Problem-free forward /backward transfer of all dataset components and properties with automated node/template generation.
50. Data Formats - More than 25 data formats from leading manufacturers should be read automatically and without user intervention. Should also offer an abundance of configuration options for describing raw data and importing it.
51. EEG Views - Various views for acquired data, such as butterfly view, time-frequency grid view, paired channel view and 3D view with different types and head shapes that can be freely rotated using fast DirectX methods.
52. Should offer additional Features, such as -
   a. Edit markers: Interactive editing mode with undo and redo of marker editing operations. Rule-based automatic editing to process large numbers of markers easily. User-defined range markers.
   b. Flexible overlays: Overlays of EEG data with different lengths or sampling rates.
   c. Montage editor: Graphical interface with drag-and drop function for creating montages.
   d. Topographic interpolation: Additional channels could be added by topographic interpolation.
   e. User properties: Properties can be defined for datasets, channels and markers (string, float, integer, Boolean and data arrays).

A complete set of tender documents* may be Download by prospective bidder free of cost from the website http://eprocure.gov.in/eprocure/app. Bidder has to make payment of requisite fees (i.e. Tender fees, if any online through RTGS/NEFT only.
<table>
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<tr>
<th>Sl. No.</th>
<th>Specification</th>
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<tr>
<td>1.</td>
<td>Due date: The tender has to be submitted on-line before the due date. The offers received after the due date and time will not be considered. No manual bids will be considered.</td>
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<tr>
<td>2.</td>
<td>Preparation of Bids: The offer/bid should be submitted in two bid systems i.e. Technical bid and Financial bid. The Technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid in the given format i.e BoQ XXXX. The Technical bid and the financial bid should be submitted Online. Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and anything asked as ‘Optional’ in the specs is not to be included for overall comparison.</td>
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<td>3.</td>
<td>EMD (if applicable): The tenderer should submit an EMD amount through RTGS/NEFT. The Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. The EMD will be refunded without any interest to the unsuccessful bidders after the award of contract. Refer to Schedule (at page 1 of this document) for its actual place of submission.</td>
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<td>4.</td>
<td>Refund of EMD: The EMD will be returned to unsuccessful Tenderer only after the Tenders are finalized. In case of successful Tenderer, it will be retained till the successful and complete installation of the equipment.</td>
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<td>5.</td>
<td>Opening of the tender: The online bid will be opened by a committee duly constituted for this purpose. Online bids (complete in all respect) received along with EMD (if any) will be opened as mentioned at “Annexure: Schedule” in presence of bidders representative if available. Only one representative will be allowed to participate in the tender opening. Bid received without EMD (if present) will be rejected straight way. The technical bid will be opened online first and it will be examined by a technical committee (as per specification and requirement). The financial offer/bid will be opened only for the offer/bid which technically meets all requirements as per the specification, and will be opened in the presence of the vendor’s representatives subsequently for further evaluation. The bidders if interested may participate on the tender opening Date and Time. The bidder should produce authorization letter from their company to participate in the tender opening.</td>
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<td>6.</td>
<td>Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all offers without assigning any reason.</td>
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<td>7.</td>
<td>Pre-qualification criteria: (i) Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) on the same and specific to the tender should be enclosed. (ii) An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well. (Ref. Annexure-II) (iii) OEM should be internationally reputed Branded Company. (iv) Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between bidder specification and supporting documents etc. may lead to rejection of the bid. (v) In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. (vi) If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.</td>
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<td>8.</td>
<td>Performance Security: The supplier shall require to submit the performance security in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated at page #1 of the tender document within 21 days from the date of receipt of the purchase order and should be kept valid for a period of 60 days beyond the date of completion of warranty period.</td>
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9. **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.

- 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.

10. **Risk Purchase Clause:** In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause.

11. **Packing Instructions:** Each package will be marked on three sides with proper paint/indelible ink, the following:
   - Item Nomenclature
   - Order/Contract No.
   - Supplier’s Name and Address
   - Consignee details
   - Packing list reference number

12. **Delivery and Documents:**
Delivery of the goods should be made within a maximum of 4 to 6 weeks *(for goods ready for shipment)* & Maximum *(To be filled by Purchaser)* weeks *(For special/ to be fabricated goods)* from the date of the Purchase Order. Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by email the full details of the shipment including contract number, railway receipt number/ AAP etc. and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company:
   1. 4 Copies of the Supplier invoice showing contract number, goods' description, quantity
   2. unit price, total amount;
   3. Insurance Certificate if applicable;
   4. Manufacturer's/Supplier's warranty certificate;
   5. Inspection Certificate issued by the nominated inspection agency, if any
   6. Supplier’s factory inspection report; and
   7. Certificate of Origin (if possible by the beneficiary);
   8. Two copies of the packing list identifying the contents of each package.
   9. The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

13. **Delayed delivery:** If the delivery is not made within the due date for any reason, the Committee will have the right to impose penalty 1% per week and the maximum deduction is 10% of the contract value / price.

14. **Prices:** The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges.

Price quoted should be in Indian Rupees, free delivery at IIT Delhi Campus at site (DDP/FOR).
Further, depending on the nature of the goods, there may be cost elements towards installation and commissioning, operator’s training, and so on. Normally, it may be included in the equipment cost but if it is quoted separately, the same will be added in the item price for the determination of ranking of the bidders.

The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However, the percentage of taxes & duties shall be clearly indicated. **Necessary certificate will be issued on demand.**
The Buyer/PFC will have the right to award contracts to different Bidders for being lowest in particular items.

For ranking of offers, price of complete scope of supply as detailed in technical specifications, the procuring authority/Purchaser may decide as follows for comparison of price bid -

(i) All items of the bid which are mandatorily required to meet the tendered specifications of the item/system
(ii) If a bidder has put certain items/modules which are required to meet the tendered specifications in the ‘optional’ part of the bid, then such optional items shall also be included for the purpose of price comparison
(iii) On the other hand, if a bidder has inadvertently included any item/module in its main price bid which is not required as per tender specifications, then the price of such item/module shall be excluded from the price comparison provided that the price for the said item/module is clearly reflected separately in the bid
(iv) Anything asked as ‘optional’ in our specs is not to be included for overall comparison

**Non-conformities between Figures and words:**
Sometimes, non-conformities/errors are also observed in responsive tenders between the quoted prices in figures and in words. This situation normally does not arise in case of e-Procurement. This should be taken care of in the manner indicated below:

(i) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the total price will be corrected.
(ii) If there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected;
(iii) If there is a discrepancy between words and figures, the amount in words will prevail for calculation of price.

15. **Notices:** For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.

**Purchaser:** **Prof. Rahul Garg,**
National Resource Centre for Value Education in Engineering (NRCVEE)
Indian Institute of Technology
Hauz Khas, New Delhi - 110016.

**Supplier:** (To be filled in by the supplier)
(Supplier should submit its supplies information as per Annexure-II).
16. **Progress of Supply:** Wherever applicable, supplier shall regularly intimate progress of supply, in writing, to the Purchaser as under:
1. Quantity offered for inspection and date;
2. Quantity accepted/rejected by inspecting agency and date;
3. Quantity dispatched/delivered to consignees and date;
4. Quantity where incidental services have been satisfactorily completed with date;
5. Quantity where rectification/repair/replacement effected/completed on receipt of any communication from consignee/Purchaser with date;
6. Date of completion of entire Contract including incidental services, if any; and
7. Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details required may also be specified).

17. **Inspection and Tests:** Inspection and tests prior to shipment of Goods and at final acceptance are as follows:
- After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier’s plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications attached to the purchase order. Manufacturer’s test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser shall be present at the supplier’s premises during such inspection and testing if need is felt. The location where the inspection is required to be conducted should be clearly indicated. The supplier shall inform the purchaser about the site preparation, if any, needed for installation of the goods at the purchaser’s site at the time of submission of order acceptance.
- The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at purchaser’s site in the presence of supplier’s representatives. The acceptance will involve trouble free operation and ascertaining conformity with the ordered specifications and quality. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified.
- In the event of the ordered item failing to pass the acceptance test, a period not exceeding one weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser.
- Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier.

18. **Resolution of Disputes:** The dispute resolution mechanism to be applied pursuant shall be as follows:
- In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director, Indian Institute of Technology Delhi and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.

19. **Applicable Law:** The place of jurisdiction would be New Delhi (Delhi) INDIA.

20. **Right to Use Defective Goods:**
If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate
or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser’s operation.

21. **Supplier Integrity:**
The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

22. **Training:**
The Supplier is required to provide training to the designated Purchaser’s technical and end user personnel to enable them to effectively operate the total equipment.

23. **Installation & Demonstration:**
The supplier is required to do the installation and demonstration of the equipment within one month of the arrival of materials at the IITD site of installation, otherwise the penalty clause will be the same as per the supply of materials.

In case of any mishap happening/damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience. IITD will not be liable to any type of losses in any form.

24. **Insurance:** For delivery of goods at the purchaser’s premises, the insurance shall be obtained by the supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on “All Risks” basis including War Risks and Strikes. The insurance shall be valid for a period of not less than 3 months after installation and commissioning.

25. **Incidental services:** The incidental services also include:
- Furnishing of 01 set of detailed operations & maintenance manual.
- Arranging the shifting/moving of the item to their location of final installation within IITD premises at the cost of Supplier through their Indian representatives.

26. **Warranty:**
(i) Warranty period shall be (as stated at page #2 of this tender) from date of installation of Goods at the IITD site of installation. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests. The warranty should be comprehensive on site.

(ii) The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall immediately within in 02 days arrange to repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is 02 days. If the supplier having been notified fails to remedy the defects within 02 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier’s risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract.

(iii) The warranty period should be clearly mentioned. The maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned. The comprehensive warranty will commence from the date of the satisfactory installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components.
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<td>(iv) After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC charges will not be included in computing the total cost of the equipment.</td>
<td></td>
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</table>
| 27. **Governing Language:**  
The contract shall be written in English language. English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the same language. |   |
| 28. **Applicable Law:**  
The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction. |   |
| 29. **Notices:**  
- Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by email and confirmed in writing to the other party’s address.  
- A notice shall be effective when delivered or on the notice’s effective date, whichever is later. |   |
| 30. **Taxes:**  
Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, GST etc, in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.  
For research purpose(s) ONLY, 5% GST will be applicable with concessional GST Certificate. |   |
| 31. **Duties:**  
IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or full) and necessary “Custom Duty Exemption Certificate” can be issued after providing following information and Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute, (no certificate will be issued to third party): The procured product should be used for teaching, scientific and research work only.  
a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)  
b) Forwarder details i.e. Name, Contact No., etc.  
IIT Delhi is partially exempted from paying GST and necessary GST Exemption Certificate will be provided for which following information are required.  
b) Quotation with details of Basic Price, Rate, Tax & Amount on which ED is applicable  
c) Supply Order Copy  
d) Proforma-Invoice Copy. |   |
| 32. **Payment:**  
100% payment shall be made by the Purchaser against delivery, inspection, successful installation, commissioning and acceptance of the equipment at IITD in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee as specified in Clause 8 of tender terms and conditions. |   |
| 33. **User list:** Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided. (Ref. Annexure-III) |   |
| 34. **Manuals and Drawings:**  
(i) Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications.  
(ii) The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract. |   |
Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.

### 35. Application Specialist
The Tenderer should mention in the Techno-Commercial bid the availability and names of Application Specialist and Service Engineers in the nearest regional office. (Ref. to Annexure-III)

### 36. Site Preparation
The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The supplier shall visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.

### 37. Spare Parts
The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
- In the event of termination of production of the spare parts:
  - Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and
  - Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be supplied as promptly as possible but in any case within six months of placement of order.

### 38. Defective Equipment
If any of the equipment supplied by the Tenderer is found to be substandard, refurbished, unmerchantable or not in accordance with the description/specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the Tenderer with 18% interest if such payments for such equipment have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, shall be replaced within 45 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, IIT Delhi may consider "Banning" the supplier.

### 39. Termination for Default
The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

- If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser; or
- If the Supplier fails to perform any other obligation(s) under the Contract.

For the purpose of this Clause:

- **Corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- **Fraudulent practice** means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes...
collusive practice among Bidders (prior to or after bid submission) designed to establish
bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits
of free and open competition;’”

- In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure,
upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those
undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar
Goods or Services. However, the Supplier shall continue the performance of the Contract to the
extent not terminated.

| 40. | **Downtime:** During the warranty period not more than 5% downtime will be permissible. For every
day exceeding permissible downtime, penalty of 1/365 of the 5% item value will be imposed.
Downtime will be counted from the date and time of the filing of complaint with in the business hours. |
| 41. | **Training of Personnel:** The supplier shall be required to undertake to provide the technical training
to the personnel involved in the use of the equipment at the Institute premises, immediately after
completing the installation of the equipment for a minimum period of one week at the supplier’s cost. |
| 42. | **Disputes and Jurisdiction:** Any legal disputes arising out of any breach of contract pertaining to this
tender shall be settled in the court of competent jurisdiction located within New Delhi. |
| 43. | **Compliancy certificate:** This certificate must be provided indicating conformity to the technical
specifications. (Annexure-I) |
| 44. | **As per Ministry of Finance, Deptt. of Expenditure, Public Procurement Division Order (Public
Procurement No.1) issued from file No.6/18/2019-PPD dated 23rd July, 2020** regarding
Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs) 2017, it is directed that any
bidder from a country which shares a land border with India will be eligible to bid in any procurement
whether of goods, services (including consultancy services and non-consultancy services) or works
(including turnkey projects) only if the bidder is registered with the Competent Authority i.e. the
Deptt. for Promotion of Industry and Internal Trade (DPIIT). The said order will not apply to bidders
from those countries (even sharing a land border with India) to which the Government of India has
extended lines of credit or in which the Government of India is engaged in development projects
(updated lists of the countries are given in the Ministry of External Affairs)

“Bidder” (including the term ‘tenderer’, ‘consultant’ or ‘service provider’ in certain contexts) means
any person or firm or company, including any member of a consortium or joint venture (that is an
association of several persons, or firms or companies), every artificial juridical person not falling in
any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled
by such person, participated in a procurement process.

“Bidders from a country which shares a land border with India” for the purpose of this Order means:
i. An entity incorporated, established or registered in such a country; or
ii. A subsidiary of an entity incorporated, established or registered in such a country; or
iii. An entity substantially controlled through entities incorporated, established or registered in such a
country; or
iv. An entity whose beneficial owner is situated in such a country; or
v. An Indian (or other) agent of such an entity; or
vi. A natural person who is the citizen of such a country; or
vii. A consortium or joint venture where any member of the consortium or joint venture falls under
any of the above

The beneficial owner for the purpose of above will be as under: -
1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person
(s), who, whether acting alone or together, or through one or more juridical person, has a
controlling ownership interest or who exercise control through other means.
Explanation-
a. “Controlling ownership interest” means ownership of or entitlement to more than twenty-five per cent of share or capital or profit of the company;
b. “Control” shall include the right to appoint majority of the directors or to control the management of policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

2. In case of a partnership firm, the beneficial owner is the natural person (s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person (s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

An agent is a person employed to do any act for another, or to represent another in dealings with the third person.

For Works contracts, including Turnkey contracts, the successful bidder shall not be allowed to subcontract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

A certificate shall be submitted by bidders in the tender documents regarding their compliance with the said order. If the certificate submitted by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law. Annexure VI (For Goods/ Services contracts)/ Annexure VII (For Works contracts, including Turnkey contracts)

It is mandatory for bidders to quote items having local content minimum 20%. Refer revised Public Procurement (Preference to Make in India), Order 2017, No. P-45021/2/2017-PP (B.E-II) dated 16.09.2020 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India. (Submit duly filled Annexure VIII for the same). The Annexure VIII once submitted in the Technical Bid will be final. Submission of Revised Annexure VIII will NOT be accepted.

As per O.M. of DPIIT, Ministry of Commerce and Industry, Govt. of India No.P-45021/102/2019-BE-II- Part (1) (E-50310) Dated 04.03.2021, Bidders offering Imported products will fall under the category of Non_Local Suppliers. They cannot claim themselves as Class-I or Class –II Local Suppliers by claiming the services such as Transportation, Insurance, Installation, Commissioning, Training and After Sale Service Support like AMC/ CMC etc. as Local Value Addition.
## COMPLIANCE SHEET

### TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>S.No</th>
<th>TECHNICAL SPECIFICATION</th>
<th>Compliance (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>The system should have installation in multiple research institutions/universities in India &amp; abroad for MR EEG, whose work must have resulted in numerous quality research publications.</td>
<td></td>
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<tr>
<td>2.</td>
<td>Must be suitable for children as well as adults, and both healthy control and patients with neuropsychiatric disorders.</td>
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<td>3.</td>
<td>The amplifier should be 64 channel and battery operated, and should be placed with batteries inside the MR Bore for recording.</td>
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<tr>
<td>4.</td>
<td>The MR EEG System should be compatible for simultaneous EEG/fMRI acquisition, suitable for use in EEG/ERP studies.</td>
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<tr>
<td>5.</td>
<td>System should be upgradable to do recordings from bipolar or peripheral signals like GSR, EOG, ECG, EMG, GSR etc.</td>
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<td>6.</td>
<td>System should be expandable to 128 channels and the setup should be freely configurable to be used as a 32, 64, 96 or 128 channel system.</td>
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<tr>
<td>7.</td>
<td>Facility for MR Clock and volume pulse synchronisation, along with 16 Bit TTL Triggers for stimulus and responses etc.</td>
<td></td>
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<tr>
<td>8.</td>
<td>The amplifiers should be connected (via fibre optics) to a central input unit outside the scanner for Triggers &amp; Auxiliary channels and phase synchronisation etc.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. The amplifier should be able to acquire AC and DC EEG signals (switchable)</td>
<td></td>
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<tr>
<td></td>
<td>b. Input Impedance: Switchable 10 MOhm/10 GOhm (for DC)</td>
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<td></td>
<td>c. Common-mode rejection (CMR): ≥ 110 dB</td>
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<td></td>
<td>d. High-cutoff frequency (low-pass) 1000 Hz/250 Hz (switchable for the resolutions 0.1 μV/0.5 μV per bit)</td>
<td></td>
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<tr>
<td></td>
<td>e. Lower cutoff frequency (high pass) 0 Hz in DC mode or 0.016 Hz/10s in AC mode</td>
<td></td>
</tr>
<tr>
<td></td>
<td>f. Resolution: 0.1 μV/0.5 μV/10.0 μV per bit (switchable)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>g. Sampling Rate 5 khz per channel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>h. Input noise: ≤ 1 μVpp</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Should be offered with an extension box to sync recordings with MR scanner clock.</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>System should be research grade CE Certified.</td>
<td></td>
</tr>
</tbody>
</table>
11. Should be offered with MR Compatible 64 channels EEG Electrode with a Recording Cap: Should be of highest safety and comfort of the test subject with good data quality both from the EEG and MRI point of view.

12. The cap should be braided to eliminate the movement artifacts.

13. All electrodes should have serial current-limiting safety resistors, acting like an additional RF-filter.

14. Electrodes should be C-shaped for safety.

15. Cable length from electrodes on cap to the amplifier should be minimised to decrease the chances of forming loops inside the MR room for safety and also to minimise artifacts (preferably less than 2m)

16. Electrode cables should be routed on the outside of the cap and secured to it so that loops are not formed and cable movement is avoided.

17. The drop-down electrodes (e.g. ECG, EOG, EMG) should additionally be sheathed in plastic to avoid direct contact with the skin of the test subject.

18. Should be supplied with gel and accessories for the subject preparation.

19. Recorder Software:

20. Windows based recording software, wizard based workspaces for various research requirements and protocols. Menu structure to guide the user with all crucial steps for setting up the hardware/software filter configuration, selecting the hardware filters on a channel by channel basis.

21. The acquired data should be displayed in multiple ways.

22. The channel montages (original, bipolar and average) should be able to be switched on the fly, to adjust the channel view to the specific experiment's needs.

23. Acquisition parameters as well as the impedance check should be automatically stored and accessed from within the analysis software at any time.

24. Facility to perform complete evoked potential analysis in real-time directly and the segmented/averaged data can be stored together with the raw data.

25. Incoming data should be able to be sent out to the network via the TCP/IP protocol using the Remote Data Access module to various clients including MATLAB, C++, Python for real-time data analyses.

26. OLE automation to control the recording using external software.

27. Online Channel blocking
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>28.</strong></td>
<td>Online DC correction</td>
</tr>
<tr>
<td><strong>29.</strong></td>
<td>Online EEG – MR-scanner synchronization</td>
</tr>
<tr>
<td><strong>30.</strong></td>
<td>Should Display</td>
</tr>
<tr>
<td></td>
<td>a. Topographic impedance display</td>
</tr>
<tr>
<td></td>
<td>b. Online segmentation, artifact rejection and averaging</td>
</tr>
<tr>
<td></td>
<td>c. Display filters</td>
</tr>
<tr>
<td></td>
<td>d. Channel grouping</td>
</tr>
<tr>
<td></td>
<td>e. Events</td>
</tr>
<tr>
<td><strong>31.</strong></td>
<td>Should be offered with Software for real-time data analysis with following features:</td>
</tr>
<tr>
<td><strong>32.</strong></td>
<td>Online MRI artifact correction</td>
</tr>
<tr>
<td><strong>33.</strong></td>
<td>Gradient &amp; Cardioballistic artifact correction</td>
</tr>
<tr>
<td><strong>34.</strong></td>
<td>Frequency &amp; FFT analysis</td>
</tr>
<tr>
<td><strong>35.</strong></td>
<td>Data filtering</td>
</tr>
<tr>
<td><strong>36.</strong></td>
<td>Mapping of surface potentials</td>
</tr>
<tr>
<td><strong>37.</strong></td>
<td>Easy integration of custom online analysis</td>
</tr>
<tr>
<td><strong>38.</strong></td>
<td>Online filtering</td>
</tr>
<tr>
<td><strong>39.</strong></td>
<td>Online averaging, artifact rejection and baseline correction</td>
</tr>
<tr>
<td><strong>40.</strong></td>
<td>Template Drift Compensation algorithm for template jitter.</td>
</tr>
<tr>
<td><strong>41.</strong></td>
<td>System should be supplied with High end offline Post processing software from the same manufacturer of the amplifier for data analysis and research ensuring the continuity of seamless data acquisition and subsequent analysis with following capabilities. Reader for all industry formats.</td>
</tr>
<tr>
<td><strong>42.</strong></td>
<td>With History Tree</td>
</tr>
<tr>
<td><strong>43.</strong></td>
<td>ERS/ERD: Methods for calculating event-related synchronization and desynchronization.</td>
</tr>
<tr>
<td><strong>44.</strong></td>
<td>Filtering: Low cutoff, high cutoff, band rejection and notch filtering with a new graphical display of the filter functions.</td>
</tr>
<tr>
<td><strong>45.</strong></td>
<td>FFT and Inverse FFT</td>
</tr>
<tr>
<td><strong>46.</strong></td>
<td>Wavelets: Discrete wavelet transforms for the analysis of neurophysiological signals in the time-frequency domain.</td>
</tr>
<tr>
<td><strong>47.</strong></td>
<td>Faster ICA algorithms, probabilistic ICA, semi-automatic views for component selection (with topographical maps, component activity, preview of corrected data and overlay of the original data).</td>
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<tr>
<td></td>
<td>Description</td>
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<tr>
<td>48.</td>
<td>ICA ocular correction: ICA correction with eye component selection methods based on objective criteria.</td>
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<tr>
<td>49.</td>
<td>LORETA: Source localization, further processing of source data.</td>
</tr>
<tr>
<td>50.</td>
<td>MRI artifact correction: Innovative algorithms for the correction of gradient and pulse artifacts in neurophysiological data recorded during MRI.</td>
</tr>
<tr>
<td>51.</td>
<td>Real-time MATLAB® interaction: Interface for applying MATLAB®/EEGLab functions to transforms and templates. Problem-free forward/backward transfer of all dataset components and properties with automated node/template generation.</td>
</tr>
<tr>
<td>52.</td>
<td>Data Formats - More than 25 data formats from leading manufacturers should be read automatically and without user intervention. Should also offer an abundance of configuration options for describing raw data and importing it.</td>
</tr>
<tr>
<td>53.</td>
<td>EEG Views - Various views for acquired data, such as butterfly view, time-frequency grid view, paired channel view and 3D view with different types and head shapes that can be freely rotated using fast DirectX methods.</td>
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</tbody>
</table>
| 54. | Should offer additional Features, such as -  
  a. Edit markers: Interactive editing mode with undo and redo of marker editing operations. Rule-based automatic editing to process large numbers of markers easily. User-defined range markers.  
  b. Flexible overlays: Overlays of EEG data with different lengths or sampling rates.  
  c. Montage editor: Graphical interface with drag-and drop function for creating montages.  
  d. Topographic interpolation: Additional channels could be added by topographic interpolation.  
  e. User properties: Properties can be defined for datasets, channels and markers (string, float, integer, Boolean and data arrays). |

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.
We, ___________________________ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

The prices quoted in the financial bids are subsidized due to academic discount given to IIT Delhi.

<table>
<thead>
<tr>
<th>We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.</th>
<th>NAME &amp; ADDRESS OF THE Vendor/ Manufacturer / Agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Phone</td>
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<td>2. Fax</td>
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<td>3. E-mail</td>
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<tr>
<td>4. Contact Person Name</td>
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<td>5. Mobile Number</td>
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<td>6. GST Number</td>
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<td>7. PAN Number</td>
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<tr>
<td>(In case of on-line payment of Tender Fees)</td>
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<tr>
<td>8. UTR No. (For Tender Fee)</td>
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<tr>
<td>9. Kindly provide bank details of the bidder in the following format: a) Name of the Bank</td>
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<tr>
<td>b) Account Number</td>
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</table>

(Signature of the Tenderer)

Name: ___________________________

Seal of the Company
### List of Government Organizations for whom the Bidder has undertaken such work during last three years (must be supported with work orders)

<table>
<thead>
<tr>
<th>Name of the organization</th>
<th>Name of Contact Person</th>
<th>Contact No.</th>
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<tbody>
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</table>

### Name of application specialist / Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.

<table>
<thead>
<tr>
<th>Name of the organization</th>
<th>Name of Contact Person</th>
<th>Contact No.</th>
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</table>

**Signature of Bidder**

Name: ________________________

Designation: __________________

Organization Name: __________________

Contact No.: ____________________
# PREVIOUS SUPPLY ORDER DETAILS

**Annexure - IV**

Name of the Firm_____________________________________

<table>
<thead>
<tr>
<th>Order placed by (Full address of Purchaser)</th>
<th>Order No. and Date</th>
<th>Description and quantity of order equipment</th>
<th>Value of order</th>
<th>Date of Completion of delivery as per contract</th>
<th>Has the equipment been installed satisfactorily (Attach a Certificate from the Purchaser/Consignee)</th>
<th>Contact person along with Telephone No., Fax No. and email address</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

Signature and Seal of the Manufacturer/ Bidder

______________________________

Place: ____________________________

Date: ____________________________
TO
The Director,
Indian Institute of Technology Delhi,
New Delhi 110016

Dear Sir,

We manufacturers of original equipment at (………………………….. address of factory……………………………) do hereby authorize M/s (Name and address of Agent) to submit a bid, negotiate and receive the order format against your tender enquiry.

M/s. …………………………… is authorized to bid and conclude the contract in regard to this business.

We hereby extend our full guarantee and warranty as per clause …………………………… of the terms and conditions NIQ for the goods and services offered by the above firm.

Yours Faithfully,

(Name)

(Name & Seal of Manufactures)

Note:

1. Items of indigenous nature or quoted in INR, more than 1 authorized representative may participate in the same tender and submit their bids on behalf of their OEM/Principal/Manufacturer if the OEM permits more than one authorized bidder in such case as per their policy.

2. In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer

3. The letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. The same should be included by the bidder in its techno-commercial unpriced bid.
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 this bidder is 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 this bidder is from ____________(Name of Country) and has been registered with the Competent Authority. I also certify that this bidder fulfills all the requirements in this regard and is eligible to be considered.

(Copy/ evidence of valid registration by the Competent Authority is to be attached)

Signature of Bidder/ Agent

Name: __________________________

Designation: ______________________

Organization Name: __________________________

Contact No. : ____________________________
CERTIFICATE

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries and hereby certify that this bidder is not from such a country and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

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 on sub-contracting to contractors from such countries and hereby certify that this bidder is from ___________(Name of Country) and has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I also certify that this bidder fulfills all the requirements in this regard and is eligible to be considered.

(Copy/ evidence of valid registration by the Competent Authority is to be attached)

Signature of Bidder/ Agent

Name: ___________________________

Designation: _______________________

Organization Name: ___________________________

Contact No. : ____________________________
(ANNEXURE-VIII)

DECLARATION OF LOCAL CONTENT
(To be given on Company Letter Head – For tender value below Rs.10 Crores)
(To be given by Statutory Auditor/ Cost Auditor/ Cost Accountant/ CA for tender value above Rs.10 Crores)

To,
The Director,
Indian Institute of Technology Delhi
New Delhi-110016

Subject: - Declaration of Local Content

Tender Reference No: _______________________

Name of Tender/ Work: _______________________________________________________


2. We hereby declare that items offered has ________% local content

3. Details of the Location at which the Local Value Addition is made ______________________

4. Details of Local Content

“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 the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

Bidders offering Imported products will fall under the category of Non_Local Suppliers. They cannot claim themselves as Class-I or Class –II Local Suppliers by claiming the services such as Transportation, Insurance, Installation, Commissioning, Training and After Sale Service Support like AMC/ CMC etc. as Local Value Addition.

“False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.”

Yours faithfully,

(Signature of the bidder, with Official Seal)

Note: It is mandatory for bidders to quote items having local content minimum 20%. Refer revised Public Procurement (Preference to Make in India), Order 2017, No. P-45021/2/2017-PP (B.E-II) dated 16.09.2020 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India. (Submit duly filled Annexure VIII for the same). The Annexure VIII once submitted in the Technical Bid will be final. Submission of Revised Annexure VIII will NOT be accepted.
To,

The Registrar,
I.I.T. Delhi, Hauz Khas,
Delhi – 110016.

We, M/s ____________________________ (Name of the Firm), with ref. to Tender No. ______________ dated __________ hereby undertake that:

1. We accept all terms and conditions of the tender document.
2. We accept that, we will not modify our bid during the bid validity period and will honour the contract after the award of contract.
3. In the event of any modification to our bid by us or failure on our part to honour the contract after final award, our firm may be debarred from participation in any tender/contract notified by IIT Delhi for a period of one year.

Yours faithfully,

(signature)
Name:
Date:
Office Seal:
**BID SUBMISSION**

**Online Bid Submission:**

The Online bids (complete in all respect) must be uploaded online in **two** Envelops as explained below:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Document</th>
<th>Content</th>
<th>File Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Compliance Sheet (Annexure – I)</td>
<td>PDF</td>
<td>.PDF</td>
</tr>
<tr>
<td>2.</td>
<td>Organization Declaration (Annexure II)</td>
<td>PDF</td>
<td>.PDF</td>
</tr>
<tr>
<td>3.</td>
<td>List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III)</td>
<td>PDF</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Technical supporting documents in support of all claims made at Annexure-I</td>
<td>PDF</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Previous Supply Order (Annexure – IV)</td>
<td>PDF</td>
<td>.PDF</td>
</tr>
<tr>
<td>6.</td>
<td>Original Equipment Manufacturing Manufacturing Authorization Form (MAF) (Annexure – V)</td>
<td>PDF</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Certificate - Bidder Not from/ from Country sharing Land border with India &amp; Registration of Bidder with Competent Authority (Annexure-VI)</td>
<td>PDF</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Certificate – Bidder Not from/ from Country sharing Land border with India, Registration of Bidder with Competent Authority &amp; not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority (Annexure-VII)</td>
<td>PDF</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Declaration of Local Content (Annexure-VIII)</td>
<td>PDF</td>
<td>.PDF</td>
</tr>
<tr>
<td>10.</td>
<td>Bid Security Undertaking in lieu of EMD (Annexure-IX)</td>
<td>PDF</td>
<td>.PDF</td>
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</table>

**Envelope – 2**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Document</th>
<th>Content</th>
<th>File Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Financial Bid</td>
<td>Price bid should be submitted in given BOQ_XXXX.xls format. (Note: -Comparison of prices will be done ONLY on the bids submitted for the Main Equipment and anything asked as ‘Optional’ in the specs is not to be included for overall comparison.) Bids for optional items are to be submitted in ‘sheet2_Quote for optional items’</td>
<td>.XLS</td>
</tr>
</tbody>
</table>