
 Government eProcurement System		eProcurement System Government of India	
		Tender Details	
		Date : 22-Feb-2023 05:10 PM	
		 Print	
Basic Details			
Organisation Chain	Indian Institute of Information Technology Allahabad		
Tender Reference Number	IIIT-A/SP/1169/ 1887 / 2023		
Tender ID	2023_IIITA_742067_1		
Tender Type	Open Tender	Form of contract	Works
Tender Category	Works	No. of Covers	2
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No
Payment Mode	Offline	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No
Payment Instruments		Cover Details, No. Of Covers - 2	
Offline	S.No	Instrument Type	
	1	Bankers Cheque	
	2	Bank Guarantee	
	3	Demand Draft	
	4	R-T-G-S	
	5	FDR	
	6	NEFT	
Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	DULY SIGNED AND SEALED COPY OF PRE-QUALIFICATION CRITERIA 5.1 TO 5.10
		.pdf	OTHER IMPORTANT DOCUMENTS AS PER TENDER DOCUMENTS
2	Finance	.xls	PRICE SCHEDULE
Tender Fee Details, [Total Fee in ₹ * - 0.00]			
Tender Fee in ₹	0.00		
Fee Payable To	Nil	Fee Payable At	Nil
Tender Fee Exemption Allowed	No		
EMD Fee Details			
EMD Amount in ₹	1,00,000	EMD through BG/ST or EMD Exemption Allowed	Yes
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	IIIT ALLAHABAD	EMD Payable At	PRAYAGARAJ
Click to view modification history			
Work /Item(s)			
Title	Establishment of radar and satellite communication Lab		
Work Description	Establishment of radar and satellite communication Lab		
Pre Qualification Details	AS PER TENDER DOCUMENTS		

Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	Yes				
Tender Value in ₹	0.00	Product Category	Miscellaneous Works	Sub category	ESTABLISHMENT OF LAB
Contract Type	Tender	Bid Validity(Days)	90	Period Of Work(Days)	84
Location	PRAYAGRAJ	Pincode	211015	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	IIIT ALLAHABAD
Should Allow NDA Tender	No	Allow Preferential Bidder	No		

Critical Dates

Publish Date	22-Feb-2023 06:00 PM	Bid Opening Date	15-Mar-2023 04:00 PM
Document Download / Sale Start Date	22-Feb-2023 06:00 PM	Document Download / Sale End Date	14-Mar-2023 12:00 PM
Clarification Start Date	22-Feb-2023 06:00 PM	Clarification End Date	03-Mar-2023 10:00 AM
Bid Submission Start Date	22-Feb-2023 06:00 PM	Bid Submission End Date	14-Mar-2023 12:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)
	1	Tendernotice_1.pdf	TENDER DOCUMENTS	1352.36

Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	BOQ	BOQ_780243.xls	PRICE SCHEDULE	355.00
	2	Tender Documents	TENDERDOC.pdf	TENDER DOCUMENTS	1337.95

Auto Extension Corrigendum Properties for Tender


Iteration	No. of bids required for bid opening a tender	Tender gets extended to No. of days
1.	2	10
2.	2	7
3.	2	5

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	sanjaykumar@iiita.ac.in	SANJAY KUMAR	SANJAY KUMAR
2.	jayant@iiita.ac.in	Jayant Biswas	JAYANT BISWAS
3.	rkjena@iiita.ac.in	Rajendra Kumar Jena	RAJENDRA KUMAR JENA

Tender Properties

Auto Tendering Process allowed	No	Show Technical bid status	Yes
Show Finance bid status	Yes	Show Bids Details	Yes
BoQ Comparative Chart model	Normal	BoQ Compative chart decimal places	2
BoQ Comparative Chart	L	Form Based BoQ	No

Rank Type		
		
Tender Inviting Authority		
Name	AR PURCHASE	
Address	AR PURCHASE IIIT ALLAHABAD	
Tender Creator Details		
Created By	Jayant Biswas	
Designation	Assistant Registrar	
Created Date	22-Feb-2023 04:57 PM	



Date: Feb 22, 2023

NOTICE INVITING TENDER (E-PROCUREMENT MODE)

1. E-bids are invited through **Central Public Procurement Portal (CPPP)** under two-bid system for the "**Establishment of radar and satellite communication Lab**" at Indian Institute of Information Technology, Allahabad (IIITA). The detailed specifications, terms and conditions are given in Annexure I through IX. The complete Bid document may be downloaded from CPPP and IIITA website. Physical bids will not be accepted.

TENDER SCHEDULE

Date of issue/publishing	:	<u>22/02/2023</u>
Document download/sale start date	:	<u>22/02/2023</u>
Document download/sale end date	:	<u>14/03/2023 (till 12.00 Noon)</u>
Last date and time for online bid submission	:	<u>14/03/2023 (till 12.00 Noon)</u>
Last date and time for receipt of queries	:	<u>03/03/2023 (till 10.00 am)</u>
Date of issuing corrigendum, if any	:	<u>06/03/2023</u>
Date and time of Technical Bid opening	:	<u>15/03/2023(04.00 PM)</u>
Date and time of Price Bid opening	:	Will be informed later
Bid Security (Earnest Money)	:	<ul style="list-style-type: none">• Bid Security fee is Rs. 1,00,000/- (Rupees One Lakh only) (see Bid Security details given below).• Any bid without Bid Security will not be considered unless it qualifies for exemption (see Details of Bid Security given below).• Proof of remittance with transaction number/ Exemption certificate should be attached with the Annexure – II of the tender documents.
Performance Security	:	3% of Purchase Order amount/ contract value
Warranty	:	See Technical Specifications
Number of covers	:	2
Bid validity period	:	90 days from the date of opening of Technical Bid
Address for communication	:	Store and Purchase Section IIIT Allahabad, Deoghat Jhalwa, Prayagraj – 211015
Contact number	:	Tel: 0532-2922061
Email address	:	Bidder may submit their Queries/Clarification, if any, latest by <u>03/03/2023 (till 10.00 am)</u> through Cpp portal. Queries/Clarification sent to any other Email ID will not be entertained.

Note: If any of the above days happens to be an IIITA's holiday, the next working day shall be implied.



2. Details of Bid Security:

a. Bid Security may be provided through direct transfer (RTGS/NEFT), Account Payee Demand Draft, Fixed Deposit Receipt, Banker's cheque or Bank Guarantee from any of the Commercial Banks. If Bid Security has been submitted by any other mode than NEFT/ RTGS, then hard copy of the Bid Security has to be sent by Registered Post. It should reach IIITA Campus before the bid submission deadline to the name of Jt. Registrar (Store & Purchase), Indian Institute of Information Technology Allahabad, Deoghat, Jhalwa, Prayagraj, Pincode-211015. In envelope super scripted the tender Id or tender reference Number and with company full address.

b. The details for payment are as follows:

Account Name : **IIIT A EMD and Security Deposit Account**
Bank Name : **Punjab National Bank**
Address : **Pipalgaon Branch, Allahabad, Prayagraj**
Account number : **8636000100031943**
IFSC Code : **PUNB0863600**
Validity : The Bid Security is to remain valid for a period of 45 days beyond the final bid validity period.

c. **Exemption for Bid Security:** Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprise (MSMEs) or are registered with the Central Purchase Organization or Concerned Ministry or Department or Startups as recognized by Department of Industrial Policy and Promotion are exempted from BID SECURITY. Such bidder needs to submit relevant certificate issued by competent authority along with technical bid of tender.

The Bidders will be defined his exemption certificate which is relevant to our Tender category for EMD exemption, If the bidder will not provide the relevant category of certificate then exemption will not be applicable.

3. Complete Bidding document is available in Government of India's E-tender website. The bids should be submitted through the same website (<https://eprocure.gov.in/eprocure/app>). All amendments, time extension, clarifications etc. will be uploaded in the CPPP website and www.iiita.ac.in and it will not be published in newspapers.
4. Bidders should regularly visit the above websites to keep themselves updated.
5. Bidder may note that Bid shall be submitted on the basis of "ZERO DEVIATION" and shall be in full compliance to the requirements of Bidding Document, failing which bid shall be considered as non-responsive and may be liable for rejection.
6. The Director of IIIT-Allahabad reserves the right to reject any or all the bids, or cancel the tender, without assigning any reason and the decision of the Director; IIIT-Allahabad shall be final and binding.

Purchase Section



Contents

1	INSTRUCTIONS FOR ONLINE BID SUBMISSION	4
1.1	REGISTRATION.....	4
1.2	SEARCHING FOR QUOTATION /TENDER DOCUMENTS	4
1.3	PREPARATION OF BIDS.....	4
1.4	SUBMISSION OF BIDS	5
1.6	GENERAL INSTRUCTIONS TO THE BIDDER.....	6
1.7	COST OF BIDDING DOCUMENTS	6
2	INVITATION FOR TENDER FOR Establishment of radar and satellite communication Lab	7
3	TECHNICAL SPECIFICATIONS	7
3.1	Specification for Establishment of radar and satellite communication Lab \$.....	7
	Experiments (Approx).....	7
4	GENERAL CONDITIONS OF CONTRACT	10
5	PREQUALIFICATION CRITERIA FOR BIDDER.....	13
6	SPECIAL CONDITIONS OF CONTRACT	13
7	AWARD OF CONTRACT	19
8	SCOPE OF WORK.....	19
9	ANNEXURES.....	20
9.1	ANNEXURE – I: LETTER OF BID.....	20
9.2	ANNEXURE – II: CHECKLIST FOR BID SUBMISSION.....	21
9.3	ANNEXURE – III: TECHNICAL COMPLIANCE SHEET.....	24
	9.3.1 Technical Compliance for Establishment of radar and satellite communication Lab.....	24
	Experiments (Approx).....	24
9.4	ANNEXURE – IV: UNDERTAKING	27
9.5	ANNEXURE – V: DECLARATION.....	28
9.6	ANNEXURE – VI: BIDDER DETAILS.....	29
9.7	ANNEXURE – VII: MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER & DETAILS OF BID SECURITY TRANSACTION.....	30
	*Attach a photocopy of proof regarding submission of bid security amount/ MSE Registration Certificate	31
9.8	ANNEXURE – VIII: ORIGINAL EQUIPMENT MANUFACTURER (OEM)	31
9.9	ANNEXURE – IX: PERFORMANCE BANK GUARANTEE (PBG).....	32



1 INSTRUCTIONS 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 soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidder 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>.

1.1 REGISTRATION

- 1.1.1 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.
- 1.1.2 As part of the enrolment process, the bidder will be required to choose a unique username and assign a password for their accounts.
- 1.1.3 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.
- 1.1.4 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 / Capricon etc.), with their profile.
- 1.1.5 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.
- 1.1.6 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.

1.2 SEARCHING FOR QUOTATION /TENDER DOCUMENTS

- 1.2.1 There are various search options built in the CPP Portal, to facilitate bidder to search active Tender by several parameters. These parameters could include tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tender, wherein the bidder 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.
- 1.2.2 Once the bidder has selected the tender they are interested in, they may download the required documents schedules. These tender can be moved to the respective 'My Tender' folder. This would enable the CPP Portal to intimate the bidder through SMS / e-mail in case there is any corrigendum issued to the Tender document.
- 1.2.3 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.

1.3 PREPARATION OF BIDS

- 1.3.1 Bidder should take into account any corrigendum published on the Tender document before submitting their bids.
- 1.3.2 Please go through the Tender/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.

- 1.3.3 Bidder, in advance, should get ready the bid documents to be submitted as indicated in the Quotation 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.
- 1.3.4 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 bidder. Bidder 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.

1.4 **SUBMISSION OF BIDS**

- 1.4.1 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.
- 1.4.2 The bidder has to digitally sign and upload the required bid documents one by one as indicated in the Tender document.
- 1.4.3 A standard BoQ format has been provided with the Tender document to be filled by all the bidder. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidder 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.

OR

In some cases, Financial Bids can be submitted in RAR format as well (in lieu of BOQ).

- 1.4.4 The server time (which is displayed on the bidder' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidder, opening of bids etc. The bidder should follow this time during bid submission.
- 1.4.5 All the documents being submitted by the bidder 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 128bit encryption technology. Data storage encryption of sensitive fields is done.
- 1.4.6 The uploaded Tender documents become readable only after the Tender opening by the authorized bid openers.
- 1.4.7 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.
- 1.4.8 Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.



1.5 ASSISTANCE TO BIDDER

- 1.5.1 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.
- 1.5.2 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.

1.6 GENERAL INSTRUCTIONS TO THE BIDDER

- 1.6.1 The Tender will be received online through portal <http://eprocure.gov.in/eprocure/app>. In the Technical Bids, the bidder is required to upload all the documents in .pdf format.
- 1.6.2 Possession of a Valid Class- 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".

1.7 COST OF BIDDING DOCUMENTS

- 1.7.1 The vendor (bidder) shall bear all costs associated with the preparation and submission of its bid and IIITA will in no case be held responsible or liable for the costs, regardless of the conduct or outcome of the bidding process.



2 INVITATION FOR TENDER FOR Establishment of radar and satellite communication Lab

Indian Institute of Information Technology, Allahabad invites online Bids (Technical bid and Commercial/Financial bid) from eligible and experienced Original Equipment Manufacturer (OEM) or Authorized Dealer/Reseller/Distributor/System Integrator/Company/Firm of the OEM of the offered product for “**Establishment of radar and satellite communication Lab**” with onsite 3 Years comprehensive warranty at IIITA campus as per Terms & Conditions specified in the tender document, which is available on CPP Portal <https://eprocure.gov.in/eprocure/app> as well on IIITA website <https://www.iiita.ac.in>.

3 TECHNICAL SPECIFICATIONS

The following are the technical specifications of the **Establishment of radar and satellite communication Lab** to be supplied as per the tender. The Annexure III should be used to specify compliance with these requirements. In case there is no deviation of the corresponding item, ‘NO’ should be written in the complied and a brief description should be given otherwise.

3.1 Specification for Establishment of radar and satellite communication Lab \$

S.No.	Item & Technical Specification	Quantity
1.	<p>Doppler Radar Training System</p> <p>Features:</p> <ul style="list-style-type: none"> Complete hardware and software setup to demonstrate Radar concepts Signals study on Software / Oscilloscope with the help of test points given on trainer Object detection provided on trainer Real time fan RPM measurements and vibrations measurements with the help of tuning forks Tripod stand provided for height and level matching LED Indication for Doppler Echo Signal On board alarm for detected signals <p>Technical Specification:</p> <ul style="list-style-type: none"> Transmitter Frequency : 10 GHz, Output Power : 10 to 15 mW, +10dB typical Operating Voltage : 12V, Antenna : Horn Power Supply : 230 V \pm10%, 50 Hz, Alarm : Onboard detected signal indication, <p>Support Software:</p> <ul style="list-style-type: none"> Oscilloscope : Real time/Storage mode with FFT analysis Display : Peak to Peak Voltage, Time domain window : Display the Doppler Frequency in Time domain Frequency domain window: Display the Doppler Frequency in Frequency domain, <p>Control Panel window :</p> <ul style="list-style-type: none"> User interface for: Measurement of RPM Utilities : Start / Stop of Display, Setting of Time base and Amplitude range on display window Printing of Doppler Frequency signal, Cursors for Time & Voltage measurements, Save, Load <p>Experiments (Approx)</p> <p>1) To investigate the fundamental concepts of Doppler radar.</p>	15



	<p>2) To setup radar and tune it for best performance. 3) To measure speed of a fan. 4) To study the alarm system by using the Radar 5) To find out the Time period and frequency of a moving Pendulum for different lengths. 6) To actuate the opening of a door, Traffic signal, Intrusion alarm etc. with the help of a radar. 7) To measure the variable speeds of moving objects using Velocity simulator. 8) To study the reflective, absorptive and transmissive properties of materials using radar and velocity simulator.</p>	
2.	<p>Satellite Communication Training System</p> <p>The trainer should have the following features to conduct the experiments: Simultaneous communication of three different signals at each up-linking frequency. 2414 - 2468 MHz PLL microwave operation. Crystal Control Frequencies. Communicate Audio, Video, Digital data, PC data, Tone, Voice, function generator waveforms etc. Communication of external broad band digital and analog data and base band signals. Choice of different transmitting and receiving frequencies. Built-in microphone and speaker for Voice and Audio link. Detachable Dish Antenna at each station Communication Kits.</p> <p>Technical Specifications:</p> <p>Uplink Transmitter Transmit three signals simultaneously at each up-linking frequency 2414-2468 MHz up-Linking frequencies selectable by Frequency selection switch and LED indication. 4 MHz clock frequency. Wide band RF amplifier. No manual matching required. PIC 16F84-8-bit RISC processor based PLL. 16 MHz bandwidth. Microcontroller based Frequency selector switch with LED indication. FM Modulation of audio and video. 5/5.5 MHz audio and 8 MHz video Modulation. Detachable Dish Antenna. Radiated power output 25mW (approx) with power control. Transmit Audio, Video, Digital/Analog data, PC data, tone, Voice. Function generator waveforms etc. Separate terminals provided for different inputs. Terminal provided for PC Interface. SMPS based Power supply: 220 V \pm 10%, 50 Hz/ 60 Hz on request.</p> <p>Satellite Transponder Transponder with selectable frequency conversion. Choice of downlink frequencies 2414-2468 MHz, Microcontroller based Switch for selecting uplink frequency. Link Fail operation. Detachable dish Antennas. Radiated power 25 mW (Approx) with variable gain control. SMPS Based Power Supply: 220 V \pm 10%, 50 Hz/ 60 Hz on request.</p> <p>Downlink receiver: Receives and demodulate three signals simultaneously. Intermediate Frequency 479.6 MHz (approx.) 2414-2468 MHz fix frequency tuning. -60dBm sensitivity at tuner input. Built in speaker for audio and video output. Terminal provided for PC Interface.</p>	15



	<p>Experiments (Approx)</p> <ol style="list-style-type: none"> 1) To set up an active & passive satellite communication link and study their difference. 2) To study baseband analog signal parameters. 3) To study the signal parameters in an analog FM/FDM TV Satellite link. To study the functionality of a satellite MODEM. 4) To study the C/N ratio 5) To study the S/N ratio. 6) To study the effect of fading and study the fading margin of a received signal. 7) To measure the Propagation Delay of signal and to measure path loss. 8) To study the digital baseband signal parameters in a satcom link. 9) To send tele-command and receive the telemetry Data and study the operation of a codec. 10) To setup a RS-232 satellite communication link using com ports of PC. 																															
3.	<p>Advance Radar Kit</p> <p>The radar is configured in various way for different experiments and research activity.</p> <ul style="list-style-type: none"> • Measurements Target Range Vs Angle Using PPI Chart • Multiple Target & Echo Observation Using PPI Chart • Target Motion Inbound or Outbound Using Spectrogram Chart • Echo Magnitude Representation Over Time Using A Scope Chart • Doppler Shift / Velocity of Target Using B Scope Chart • Distance of Lateral Axis Vs Longitudinal Axis Using 2D Chart <p>Specifications</p> <table border="1" data-bbox="304 1041 1286 1711"> <thead> <tr> <th>Frequency</th> <th>K-BAND or EQUIVALENT or ABOVE</th> </tr> </thead> <tbody> <tr> <td>Antenna Type</td> <td>MIMO (Preferable Size 4)</td> </tr> <tr> <td>Antenna array</td> <td>TX (4 X 4 matrix) Rx (4 X4 matrix) with matching and BALUN</td> </tr> <tr> <td>Power</td> <td>+13dBm</td> </tr> <tr> <td>Modulation</td> <td>FM</td> </tr> <tr> <td>Battery back up</td> <td>1 hour</td> </tr> <tr> <td>Interface</td> <td>USB 2.0</td> </tr> <tr> <td>Chirp variation</td> <td>1.5Ghz @ center</td> </tr> <tr> <td>Range of ambiguity</td> <td>10 cm or better</td> </tr> <tr> <td>Range</td> <td>30 to 40 feet</td> </tr> <tr> <td>Multiple Target Velocity</td> <td>60m/s</td> </tr> <tr> <td>Velocity accuracy</td> <td>2m/s</td> </tr> <tr> <td>RADAR Display</td> <td>A Scope, B scope, X-Y plot Spectrogram</td> </tr> <tr> <td>PPI Screen</td> <td>24-inch LCD</td> </tr> <tr> <td>Doppler shift, Raw echo, Range, Angle Vs Target and Multiple Target Vs Range</td> <td>Should be possible</td> </tr> </tbody> </table>	Frequency	K-BAND or EQUIVALENT or ABOVE	Antenna Type	MIMO (Preferable Size 4)	Antenna array	TX (4 X 4 matrix) Rx (4 X4 matrix) with matching and BALUN	Power	+13dBm	Modulation	FM	Battery back up	1 hour	Interface	USB 2.0	Chirp variation	1.5Ghz @ center	Range of ambiguity	10 cm or better	Range	30 to 40 feet	Multiple Target Velocity	60m/s	Velocity accuracy	2m/s	RADAR Display	A Scope, B scope, X-Y plot Spectrogram	PPI Screen	24-inch LCD	Doppler shift, Raw echo, Range, Angle Vs Target and Multiple Target Vs Range	Should be possible	01
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\$Documentary support must be attached.



4 GENERAL CONDITIONS OF CONTRACT

- 4.1 Bidder must fill the Letter of Undertaking (Annexure-IV) and Declaration Performa (Annexure-V) complete in all respect.
- 4.2 Bidder must quote their rates exclusive of all taxes and duties. Taxes applicable may be quoted separately giving full details.
- 4.3 "The Contract" means the agreement entered into between the Owner and the Bidder, as recorded in the contract form signed by the parties, including all the attachments and appendices there to and all documents incorporated by reference therein.
- 4.4 "The Contract Value" means the amount payable to the Bidder under the contract for the full and proper performance of its contractual obligations.
- 4.5 "The Work" means all labour, materials, tools and plant, equipment including government taxes and transport, that may be required in preparation of and for and in the full and entire execution and completion of "the Work".
- 4.6 "Services" means services ancillary to the execution of the work such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Bidder covered under the contract.
- 4.7 For the Bidding/ Tender Document Purposes, Indian institute of information Technology, Allahabad shall be referred to as 'Institute' and the Bidder/ Successful Bidder shall be referred to as 'Contractor and / or Bidder or Tenderer / Supplier/ Vendor'.
- 4.8 While all efforts have been made to avoid errors in the drafting of the tender documents, the Bidder is advised to check the same carefully. No claim on account of any errors detected in the tender documents shall be entertained.
- 4.9 All Bidders are hereby explicitly informed that conditional offers or offers with deviations from the conditions of Contract, the bids not meeting the minimum eligibility criteria, Technical Bids not accompanied with Bid Security receipt of RTGS/NEFT of requisite amount or the proof of exemption from Bid Security and an Undertaking In lieu of Bid Security, or any other requirements stipulated in the tender documents are liable to be rejected.
- 4.10 The Bid Security shall be returned through electronic transfer if submitted online to the bidder(s) bank account as provided by the bidder(s) or it will be returned by post whose offer is not accepted by the Institute within 15 days after finalization and award of the contract without any interest. If the return of Bid Security is delayed for any reason, no interest/penalty shall be payable to the bidder.
- 4.11 The Parties to the Contract/Agreement shall be the successful bidder (to whom the Services or Supply has been awarded) and the Institute, IIIT-Allahabad.
- 4.12 For all purposes of the contract including arbitration there under, the address of the bidder mentioned in the bid shall be final unless the bidder notifies any change of address by a separate letter sent by registered post with acknowledgement due to IIIT-Allahabad. The bidder shall be solely responsible for the consequences of any omission or error to notify any change of address in the aforesaid manner.
- 4.13 Each page in the bid document must be numbered properly and duly signed & sealed by the bidder. Submit the tender document as per Instruction for Online Bid Submission.
- 4.14 **MAKE IN INDIA** : Bidder quoting lowest total price among the technically successful bidders will qualify for the award of contract, Subject to the following Order of Government of India in respect of Preference to Make in India:

Preference to Make in India Pursuant to Government of India, Ministry of Commerce and Industry, Department of Industrial Policy and Promotion Order No. P-45021/2/2017-B.E.-II



Dated 15th June, 2017 with subject Public Procurement (Preference to Make in India), Order 2017 –

- (a) (i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a local supplier, the contract will be awarded to L1.
(ii) If L1 is not from a local supplier, the lowest bidder among the local suppliers will be invited to match the L1 Price subject to local supplier's quoted price falling within margin of purchase preference, and the contract shall be awarded to such local supplier subject to matching the L1 price.
(iii) In case such lowest eligible local supplier fails to match the L1 price, the local supplier with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the local suppliers within the margin of purchase preference matches the L1 price, then the contract will be awarded to the L1 bidder. (Para 3c of the above order dated 15th June 2017)
- (b) The minimum local content shall ordinarily be 50%. (Para 5 of the above order dated 15th June 2017)
- (c) The margin of Purchase Preference shall be 20%. (Para 6 of the above order dated 15th June 2017)
- (d) In case of procurement for a value in excess of Rs. 10 Crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant and practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content. (Para 9b of the above order dated 15th June 2017)
- (e) False declarations will be a breach of code of integrity under Rule 175(1)(i)(h) of the General Financial Rules 2017 for which the bidder or its successors can be debarred for upto two years as per Rule 151 (iii) of the General Financial Rules 2017 along with such further actions as may be permissible under law. (Para 9f of the above order dated 15th June 2017)
- (f) No provision whatsoever in this document shall prevent the purchaser from implementing the Government of India, Ministry of Commerce and Industry, Department of Industrial Policy and Promotion Order No. P45021/2/2017-B.E.-II Dated 15th June, 2017 with subject Public Procurement (Preference to Make in India), Order 2017

4.15 The date fixed for opening of bids, if subsequently declared as holiday by the Government, the revised date of schedule will be notified. However, in absence of such notification, the bids will be opened on next working date, the time remaining unaltered.

4.16 In preparing the financial bids, bidders are expected to take into account the requirements and conditions laid down in this Tender document. The financial bids should be uploaded online as per the specified ".xls" format i.e. Price Bid in Excel sheet attached as '.xls' with the tender and based on the scope of work, service conditions and other terms of the Tender document. It should include all costs associated with the Terms of Reference/Scope of Work of the assignment.

4.17 Quoted rate should be valid as asked in "Tender Schedule".



- 4.18** All figures etc. must be in English Language only.
- 4.19** The lowest rate will not be the basis of claim to get the order.
- 4.20** Director, Indian Institute of Information Technology, Allahabad, Prayagraj reserves the right to reject or accept any tender.
- 4.21** Director, Indian Institute of Information Technology, Allahabad, Prayagraj will be the sole arbitrator of all the disputes and his decision will be binding on both the parties.
- 4.22** Director, Indian Institute of Information Technology, Allahabad, Prayagraj reserves the right to alter/modify any or all conditions of this tender notice.
- 4.23 Consignee:** Dr. Seema Shah, Jt. Registrar (Stores & Purchase), IIITA (Ph: 0532-2922081, 2922143). Except under specific instructions, delivery to Stores & Purchase Section (if applicable) is restricted between 9:30 A.M to 5.30 P.M. on all working days except Saturday & Sunday.
- 4.24 Any conditional tender will not be accepted.**
- 4.25 Tenderer should take into account any corrigendum published on the tender document before submitting their bids. All such corrigendum will be placed on Central Public Procurement Portal as well as IIIT-A website www.iiita.ac.in. Intending tenderers are advised to visit www.iiita.ac.in and <https://eprocure.gov.in> for regular update, if any, till the closing date of tender for any corrigendum/addendum/amendment. IIITA will not be responsible for ignorance of corrigendum.**
- 4.26** Rate should be quoted in BOQ in Cover 2(price offer or schedule of rate).
- 4.27 ANTI COMPETITIVE AGREEMENTS/ABUSE OF DOMINANT POSITION:** The Competition Act, 2002 as amended by the Competition (Amendment) Act, 2007 (the Act), prohibits anti-competitive practices and aims at fostering competition and at protecting Indian markets against anti- competitive practices by enterprises. The Act prohibits anti- competitive agreements, abuse of dominant position by enterprises, and regulates combinations (consisting of acquisition, acquiring of control and M&A) wherever such agreements, abuse or combination causes, or is likely to cause, appreciable adverse effect on competition in markets in India. IIITA reserves the right to approach the Competition Commission established under the Act of Parliament and file information relating to anti-competitive agreements and abuse of dominant position. If such a situation arises, then Vendors are bound by the decision of the Competitive Commission and also subject to penalty and other provisions of the Competition Act.
- 4.28** The tenderer who submits false, forged or fabricated documents or conceals facts with intention to win over the tender or procure purchase order; Bid Security of such tenderer firm shall be forfeited and firm shall be liable for blacklisting for a period of not Less than 2 years. The firm shall also be liable for Legal action depending on the facts & circumstances of the case.
- 4.29 If the supplier fails to execute the purchase order and informs IIITA about its inability to execute the order and non-compliance of the purchase order, firm shall be liable for blacklisting for a period of not less than 2 years.**
- 4.30** Indian Institute of Information Technology reserves the right to amend or withdraw any of the terms and conditions contained in the Tender Document or to reject any or all tenders without giving any notice or assigning any reason or to cancel the tender. The decision of Director – IIIT-Allahabad shall be final and binding on all.
- 4.31** All disputes are subject to Jurisdiction of Allahabad Courts.



5 PREQUALIFICATION CRITERIA FOR BIDDER

- 5.1 The Bidder should be Original Equipment Manufacturer (OEM) or Authorized Dealer/Reseller/Distributor/System Integrator/ Company/Firm of the OEM of the offered product. If not OEM then Bidder has to submit an Authorization letter from manufacturer or OEM for tender specific.
- 5.2 In case of bidder being an authorized business partner, an authorization letter from manufacturer or OEM must be submitted. In case bidder is sourcing items from other manufacturers, an authorization letter for supply and servicing the same assuring full guarantee and warranty obligations shall be obtained and attached from the principal supplier/ manufacturer.
- 5.3 Bidder should have experience of having successfully completed similar project during the last 3 financial years before the ending of the due date of the tender. should be either of the following:
 - 5.3.1 One similar order having worth not less than 32 Lakh.
OR
 - 5.3.2 Two similar orders each costing not less than 24 Lakh .
OR
 - 5.3.3 Three similar orders each costing not less than 16 Lakh.
(Attested copies of all the above Project Completion certificates should be submitted along with the proposal).
- 5.4 Bidder should have a registered office in India. Furnish address and registration details.
- 5.5 *Any IIT/IIIT/NIT/ Government Department/PSU/PSU Banks/Autonomous Bodies/Statutory Bodies in India should not have blacklisted the Bidder at any stage. Self-declaration to that effect should be submitted along with the technical bid.*
- 5.6 *The Bidder is required to provide the Technical Compliance with detailed model number and specification of his offered product on his company letter head.*
- 5.7 The Bidder is required to quote for the complete BOQ. Partial quote is liable to be rejected.
- 5.8 The firm must possess valid GST Registration number. (Provide the certificate)
- 5.9 The bidder should have minimum Rs. 20 Lakh Average annual turnovers for the Last 3 financial years ending 31st march 2022 (2019-20, 2020-21 & 2021-22). Audited and certified copies of balance sheet, letter mentioning turnover and profit and loss statement of these three years duly certified by chartered accountant should be submitted.
- 5.10 Bidder/OEM must provide Escalation matrix of Telephone numbers for Service support.

Note: Bidder must provide necessary supporting documents (duly signed and sealed) as proof in respect of the eligibility criteria mentioned above. Kindly quote the entire item in the List of BOQ. Partial quoting not allowed and its financial bid will not consider.

6 SPECIAL CONDITIONS OF CONTRACT

- 6.1 These instructions are over and above the instructions contained in the enclosed set of tender documents and **override** instructions in case of conflict.



- 6.2 Detailed specifications, catalogue/literature of all the items quoted should be attached with the technical bid.
- 6.3 Demonstration:**
- I. After the Bid End date/ Time received bids will be evaluated. Technically qualified bidders will be informed through email to demonstrate the items offered within the next 7 days from the date of email sent to them for this purpose, to assess its usability and accessibility.
 - II. Based on the demonstration report by the standing technical committee, received bids will finally be technically accepted/rejected. Accordingly, financial bid of the techno-commercially compliant offers will be opened for further ranking and placement of contract. Arrangements for the demonstration shall be borne by the bidder.
- 6.4 **ONE BID PER BIDDER:** - Each Bidder shall submit only one Bid, either individually or as a partner in a joint venture. A Bidder who submits or participates in more than one Bid (other than as a sub –contractor) shall cause all Bids with the Bidder's participation to be disqualified. In a 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. If an agent submits bid on behalf of Principal / OEM, the same agent shall not submit a bid on behalf of another Principal / OEM in the same item / product. In case a bidder not doing business within India, he shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India equipped and able to carry out the supply, maintenance, repair obligations etc. during the warranty and post warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc. during the warranty and post warranty period.
- 6.5 **Pre bid Qualification:** It is proposed kindly incorporate – Any pre-bid clarifications if required, then same may be obtained online through the tender site, or through the contact details given in the tender document.
- 6.6 **Order of Acceptance:** - It is proposed kindly incorporate that the successful bidder should submit Order Acceptance within 7 days from the date of order.
- 6.7 **Rate Quoted:** The currency of all quoted rates shall be Indian Rupees. All the payment shall be made in Indian Rupees only. The rates are to be quoted by the bidders in Indian Rupees only and payment shall be made to successful bidders in Indian Rupees only. Any statutory applicable taxes such as applicable Tax, etc. should be mentioned separately in the Financial Bid. However, quote should be inclusive of all other levies, statutory taxes and charges such as Octroi, Packaging & Forwarding charges etc. and should be delivered at the premises. All prices shall be fixed and shall not be subject to escalation of any description. The rates must be quoted strictly as per the 'Financial Bid Format' provided.
- 6.8 **Extension in delivery:** Delivery of completion of systems/ components/ Items is delayed for reasons of force majeure such as acts of God, Acts of Public enemy, acts of Government, fires, floods, epidemics, quarantine restrictions, illegal strikes and freight embargoes, the Contractor shall within 3 days from the date of such occurrence, give notice to IIIT Allahabad, Prayagraj in writing of his claim for extension of delivery period. IIIT Allahabad, Prayagraj on receipt of such notice may agree to extend the supply/contract delivery date as may be reasonable but without prejudice to other terms and conditions of the contract. Unless the extended delivery period is agreed by IIIT Allahabad, Prayagraj in writing, Tenderer cannot claim the extension of delivery time as a matter of right. IIIT Allahabad,



- Prayagraj shall have the right to cancel/ extend the order validity/ levy Liquidated Damage (LD) as appropriate.
- 6.9 **Liquidated Damages:** -If the supplier shall fail to deliver the systems/ components/ Items within the time specified in the Contract, IIIT Allahabad, Prayagraj shall recover from the Contractor as liquidated damages a sum of **0.5%** of the contract price of the undelivered systems /components/Items for each week of delay (or) part thereof. The total liquidated damages shall not exceed **10%** of the contract price of the unit or units so delayed. Systems/ components/Items will be deemed to have been delivered only when all essential components parts are also delivered. If any essential components are not delivered in time, the entire system / components/ Items will be considered as delayed until such time the missing parts are delivered.
- 6.10 The time of delivery including testing and handing over in satisfactory condition is the essence of the contract and the shipment should be affected as per the schedule. In the event of part supply, IIIT Allahabad, Prayagraj shall withhold the entire payment until the whole of the supply as per the order is delivered. In case the delivery schedule is not stipulated as essential criteria, Contractor may indicate the period of delivery required for them.
- 6.11 **Insurance of goods:** - The requisite goods supplied under the contract shall be fully insured against loss or damage to manufacture or acquisition, transportation, storage and delivery.
- 6.12 **Warranty:** All the required quantity of Electronics item will be covered with warranty mentioned in the technical specification from the date of satisfactory delivered in IIIT-Allahabad, Prayagraj report.
- 6.13 **No Advance Payment:** IIIT Allahabad, Prayagraj does not make any advance payment. Payments for services made should be released only after the services have been rendered or supplies made.
- 6.14 **Experience of Firms/ Contractors:** The firm should have minimum 03 years of experience of selling IT/ Electronics products & services, system integration and service provider in the field of Electronics items.
- 6.15 **DETERMINATION OF THE SUCCESSFUL BIDDER:** -The Bidder meeting the minimum eligibility criteria with the lowest bid price in the respective category of OEM, subject to arithmetical correction, shall be deemed as the successful Bidder. In the event of more than one bidder with the lowest price bids (say equal), the bidder with the highest 'cumulative annual turnover of the last 3 financial year would be deemed as 'Successful Bidder' on the basis of the documents already submitted by the bidder.
- 6.16 **Performance Security: L1 bidder will have to submit an irrevocable performance security in the form of a demand Draft/ Bank guarantee (Annexure IX) of 3% of total contract value from any commercial or Nationalize Bank within 15 days from the notification of the award of contract, and it should remain valid for a period of 60 days beyond the date of completion of all contractual obligation of the supplier, including warranty obligation. Bid Security will be released after receiving of Performance security in the form Performance Bank Guarantee/Demand Draft.**
- 6.17 **Delivery Schedule:** The Delivery period shall commence from the date of issue of purchase order and completion period for Establishment of control system Lab for UG compulsory course shall be strictly 12 weeks.
- 6.18 **Payment:**



- 6.18.1 It is suggested that 90% payment after successful supply, installation, commissioning and balance 10% will release after 15 days of receiving final invoice and submission of successfully working and satisfactory report by the end user. (Bidder must confirm the acceptance on payment terms).
- 6.18.2 Applicable TDS will be recovered (deducted) from the payment(s).
- 6.18.3 At the time of submitting the bill and/or request for part payment vendor has to provide an undertaking that, **"It is certified that there has been no decrease in the price of price variation indices and, in the event of any decrease of such indices during the currency of this contract, we shall promptly notify this to the purchaser and offer the requisite reduction in the contract rate"**.
- 6.19 **Transit Permit (E-way bill):** The bidder should generate E-way bill in its own accountability. Transit road permit in the prescribe proforma shall be made available as per rule by the Institute on the request of the supplier, if required.
- 6.20 **Forfeiture of bid security:** Bid security of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or depreciates from the tender in any respect within the period of validity of its tender. Further, if the successful tenderer fails to furnish the required performance security within the specified period, its bid security will be forfeited.
- 6.21 **Timely Servicing /rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, seller has to complete the required service / rectification within 3 days' time limit. If the seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of unit price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the buyer directly else the buyer shall have a right to recover all such penalty amount from the performance security (PBG). Cumulative penalty cannot exceed more than 10% of the total contract value after which the buyer have the right to get the services / rectification done from alternate sources at the risk and cost of the seller besides forfeiture of PBG. Seller is liable to re-imburse the cost of such service/ rectification to the buyer.**
- 6.22 **Option Clause:** The purchaser reserves the right to increase or decrease the quantity to be ordered up to 25% at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are found to accept the orders accordingly.
- 6.23 **Penalty:**
- 6.23.1 Applicable penalty will / may be recovered from the payment(s).
- 6.23.2 The Penalty of minimum of Rs. 1000/- per week from the day of complains subject to maximum of 3% of total contract value may be levied for delay in resolution beyond resolution time permission downtime during warranty.
- 6.23.3 The above-mentioned penalty may / will be deducted (recovered) from the balance 3% amount of submitted performance security. However, the penalty may / will be waived off for non-performance due to reasons mentioned in the Force Majeure or because of IIITA.
- 6.23.4 In such case(s) the vendor should notify and produce / bring the relevant communication and proof to IIITA promptly of any failure to perform or delay in performing due to any of the above reasons for the penalty to be waived off.



- 6.23.5 If the supplier/vendor fails to provide satisfactory services during warranty period or 20% or more supplied quantity faces sustained issues, then concerned Vendor/Bidder shall be liable for blacklisting for a period of not less than 2 years and performance security will be forfeited.
- 6.23.6 If the supplier/vendor fails to supply the products in delivery period the 1% per week penalty of total order value, will be imposed.
- 6.24 **Price Basis and applicable Tax claim:** Vendor should clearly mention the Rate of applicable GST separately, if firm will not mention the Taxes clearly on their Price Quotation, IIIT – Allahabad, Prayagraj will assume that the quoted price is inclusive of all and no extra amount in later stage shall be paid by IIIT, Allahabad, Prayagraj on account of Taxes. In case of tax exemption or lower TDS, vendor has to submit letter from Government Authority for tax exemption or lower TDS (to be submitted along with each of the invoice(s)).
- 6.25 Any variation in statutory levies and taxes within the contractual delivery period shall be borne by the IIITA. Beyond the delivery period, the upward variation of levies and taxes shall be borne by the vendor.
- 6.26 If it is found that items are fake or of sub-standard quality and not conforming to the required specifications, the firm will have to replace the fake/ sub-standard items with genuine ones immediately but they will also be liable to be blacklisted.
- 6.27 If the supplied material by the bidder is not found acceptable, IIIT Allahabad has the complete right to reject the same without giving any compensation.
- 6.28 **Force Majeure:** The vendor (bidder) will not be held responsible for breach of executing any obligation or delay in executing any obligations during below given circumstances / conditions.
- 6.28.1 War, Riots, Strike, Fire, Flood, Earthquake, Storm, Epidemic breakout, Power failure, Theft etc.
- 6.28.2 Any Governmental priorities (Necessary proof for validation viz. Govt. Gazette notifications, Leading Newspaper reports, etc. should be made available).
- 6.29 Rate quoted by the firm should not be higher than the MRP/ prevailing market rate.
- 6.30 **Dispute Resolution:** In the event of any dispute arising out of or in connection with this Order, the parties shall use their best endeavor to resolve the same amicably AND if the dispute could not be settled amicably, the matter shall be settled in the court under Prayagraj (Allahabad) jurisdiction only. The final payment will be released only after the vendor (bidder) complies with above-mentioned clause.
- 6.31 **Right to alter Tender:**
- 6.31.1 IIITA reserves the right to alter the Tender terms and conditions at any time before submission of the bids.
- 6.31.2 IIITA reserves the right to modify, amend, alter and/or cancel the entire RFP at any stage without assigning any reason whatsoever. IIITA's decision in this regard will be final and binding on all vendors (bidders).
- 6.32 Conditional quotations are liable to be rejected. In the event of acceptance, Director's decision will be final. The rates should be quoted as per our required specifications.
- 6.33 The rates should be quoted in Indian rupees.
- 6.34 The right to accept or reject any tender/ quotation, partially or wholly, including lowest quotation without assigning any reason whatsoever thereof or incurring any liability thereby is reserved with the Director, IIIT Allahabad, Prayagraj. The Director, also reserves the right to split the tender and place the orders for supply of item(s), mentioned in the enquiry letter



- on one or more tenderer. The decision of the Director, with regard to enforcement of these terms and conditions herein contained, as a result of breach of these conditions by successful Tenderer/s, shall be final and the Director, shall not be liable for any damage/liability put forth by the Tenderers at any stage of the transaction arising out of the enforcement of any or all herein contained terms and conditions.
- 6.35 The quantity shown in this tender is only approximate requirement and is subject to alteration at the time of placing the supply order and during the pendency of the quotation it will be binding on the part of the successful Tenderers to honour and comply with such orders placed by this Institute.
- 6.36 All the documents submitted must be legible and self-attested and stamped. Otherwise it is likely to be rejected.
- 6.37 The Bid Security shall be returned to the bidder(s) whose offer is not accepted by the Institute within 15 days after finalization and award of the contract without any interest. Unsuccessful bidders may collect the Bid Security (within next 10 days after finalization & award of the contract) from Purchase Section, IIIT-A between 3PM and 5PM on any working day after providing a copy of authorization letter and any Photo Identity Card. After these 10 days Bid Security will be sent by registered post to the postal address provided by the firm/bidder as mentioned in the tender document. Representative may also collect the EMD on behalf of the bidder, after providing an authorization letter from the bidder along with a copy of his photo identity card. If the return of Bid Security is delayed for any reason, no interest/penalty shall be payable to the bidder.
- 6.38 Tenderers responding to this enquiry shall be deemed to be agreeable to the terms and conditions herein contained. These terms and conditions shall be binding on the part of the successful tenderer. Tender must be quoted in prescribe format on the company/firm letter head.
- 6.39 Tenderer should take into account any corrigendum published on the Tender document before submitting their bids. All such corrigendum will be placed on CPP Portal (<https://eprocure.gov.in/eprocure/app>) and IIIT-A website (www.iiita.ac.in). Intending tenderers are advised to visit <https://eprocure.gov.in/eprocure/app> and www.iiita.ac.in for regular update, if any, till the closing date of tender for any corrigendum/ addendum/ amendment. **IIITA will not be responsible for ignorance of corrigendum.**
- 6.40 If any defect is found in transit it will be the sole responsibility of the supplier to get it corrected and installed as desired by the user.
- 6.41 Quotation should be addressed to Jt. Registrar (Store & Purchase), Indian Institute of Information Technology, Deoghat, Jhalwa, Prayagraj-211015 (U.P.) India.

(Store & Purchase Section)

I/We duly certified that the information provided in the proforma is true. I/We agree to the contents of terms & condition of the quotation/tender.

Seal and Signature of the Proprietor/Authorized Representative



7 AWARD OF CONTRACT

- 7.1 Two-part bid system shall be adopted, i.e., **Cover 1(Techno-Commercial Offer or technical bid) and Cover 2 (Price Offer or schedule of rate).**
- 7.2 In the first stage, the Techno-Commercial Offers shall be opened at the stipulated time as mentioned in tender notice. The Price Offers of only those parties who qualify in the first stage shall be opened.
- 7.3 IIIT-Allahabad, Prayagraj shall award the contract to the eligible Bidder whose bid has been determined as the lowest evaluated Financial Bid. If more than one Bidder happens to quote the same lowest price, IIITA reserves the right to award the contract to more than one Bidder or any Bidder with the lowest price bids (say equal), the bidder with the highest 'cumulative annual turnover of the last 3 financial year would be deemed as 'Successful Bidder' with respect to the submission of proof of documents as submitted by the bidder.
- 7.4 The lowest rate will not be the only basis of claim to get the order.
- 7.5 **The price bid comparison will be done based on the rates quoted against technical specification.**

8 SCOPE OF WORK

The scope of work for this tender includes the **"Establishment of radar and satellite communication Lab"** as per the specification at the office of Indian Institute of Information Technology, Allahabad.

- 8.1 Vendor/OEM/Channel Partner should assign a single point of contact for attending to all software/hardware problems during warranty period. Service Engineer/Technical Expert will visit customer's premise and arrange all spare parts within a maximum of 72 hours. IIIT Allahabad shall not be required to log any complaint on IVR or open any ticket, etc. for support through toll free numbers.
- 8.2 Vendor (bidder) will provide their support service contact numbers, escalation matrix (designation, contact numbers & emails).



9 ANNEXURES

9.1 ANNEXURE – I: **LETTER OF BID**

(To be submitted along with Technical Bid)

Dated:/...../ 2023

To,
Jt. Registrar (Store & Purchase)
Indian Institute of Information Technology
Deoghat, Jhalwa
Prayagraj - 211015

Sub: Submission of Bids against Tender Ref. No.: IIIT-A/SP/1169 /1887 / 2023.

We, the undersigned, declare that:

1. I/We have examined and accepted all the terms and conditions of the tender reference number _____ and ready to offer the required services accordingly required in tender document.
2. I/We offer to execute in conformity with the Bidding Documents for "**Establishment of radar and satellite communication Lab**" at IIIT-Allahabad.
3. Our bid shall be valid for a period of 90 days from the date fixed for the bid submission deadline in accordance with the Bidding Documents and shall remain binding upon us and maybe accepted at any time before the expiry of the period.
4. If our bid is accepted, we commit to submit a Performance Security within 15 days from the date of issuance of the work/supply order.
5. I/We also declare that the Government of India / any other Government body/ any other organization has not declared us ineligible or blacklisted us on charges of engaging in corrupt, fraudulent, collusive or coercive practices or any failure/lapses of serious nature.
6. I/We also accept all the terms and conditions of this bidding document and undertake to abide by them, including the condition that you are not bound to accept highest ranked bid/ lowest bid or any other bid that you may receive.

Yours sincerely,

Authorized Signatory

(Authorized person shall attach a copy of Authorization for signing on behalf of bidding company)

Full Name and Designation

(To be printed on Bidder's letterhead)



9.2 ANNEXURE – II: CHECKLIST FOR BID SUBMISSION

SL. NO.	COMPLIANCE STATEMENT/QUERY	BIDDER'S CONFIRMATION, WITH CLARIFICATION/DETAILS (Mention YES/NO in each cell)	Page No. (To be filled by the vendor) As per bidding documents.
1	2	3	
1.	Confirm that you have submitted your bid for "Establishment of radar and satellite communication Lab".	CONFIRMED / NOT QUOTED [Strike out whichever is not applicable] All the documents should be signed and sealed properly. Page number should be mentioned in his whole bidding documents.	
2.	Confirm that you have attached the documentary evidence as desired in Pre-Qualification Criteria refer to point no. 5.1	CONFIRMED (YES/NO)	
3.	Confirm that a copy of authorization letter of guarantee and warranty obligation as mention in special condition contract shall be obtained and attached from the principal supplier /manufacturer. Referred to point no. 5.2	CONFIRMED (YES/NO)	
4.	Confirm that the copy of project completion certificate of last three financial years ending before the due date of tender. Refer to point no. 5.3	CONFIRMED (YES/NO)	
5.	Confirm that you have attached the documentary evidence as desired in Pre-Qualification Criteria refer to point no. 5.4	CONFIRMED (YES/NO)	
6.	Confirm that the bidder must not have been blacklisted by any IIT/IIIT/NIT/ Government Department/PSU/PSU Banks/Autonomous Bodies/Statutory Bodies in India at the time of submission of bid. [Attach an undertaking to this effect] Refer to point no. 5.5	CONFIRMED (YES/NO)	
7.	Confirm that you have attached the documentary evidence as desired in Pre-Qualification Criteria refer to point no. 5.6	CONFIRMED (YES/NO)	
8.	Confirm that the BOQ, duly filled in, indicating the percentage of applicable Taxes & Duties with prices submitted. Refer to point no. 5.7	CONFIRMED (YES/NO)	
9.	Confirm that the company must have its GST Registration certificate/PAN detail. Refer to point no. 5.8	CONFIRMED (YES/NO)	
10.	The bidder should have minimum Rs. 20 Lakh Average annual turnover for the Last 3 financial years (2019-20,2020-21 & 2021-22). Audited and certified copies of balance sheet, letter mentioning turnover and profit and loss statement of these three years duly certified by chartered accountant should be submitted. Refer to point no. 5.9.	CONFIRMED (YES/NO)	



SL. NO.	COMPLIANCE STATEMENT/QUERY	BIDDER'S CONFIRMATION, WITH CLARIFICATION/DETAILS (Mention YES/NO in each cell)	Page No. (To be filled by the vendor) As per bidding documents.
11.	Confirm that the bidder must provide the escalation matrix of telephone numbers for services support. Refer to point no. 5.10	CONFIRMED (YES/NO)	
12.	Confirm that quoted price of the prescribed Supply, Installation, material is on FOR / designated IIIT, ALLAHABAD office/store, including transportation charges, taxes etc. all complete as defined in complete RFQ.	CONFIRMED (YES/NO)	
13.	Confirm there is no deviation/ clarification/ cutting/ overwriting in Price Schedule.	CONFIRMED (YES/NO)	
14.	Confirm the delivery period of Delivery schedule is accepted as per Tender Documents provision.	CONFIRMED (YES/NO)	
15.	Copy of PAN, Income Tax Return certificate submitted.	CONFIRMED (YES/NO)	
16.	HSN CODE (If Applicable)	CONFIRMED (YES/NO)	
17.	Confirm that the duly filled and scanned copy of all ANNEXURES FROM I TO IX submitted.	CONFIRMED (YES/NO)	
18.	Confirm that the quoted price is firm and fixed for entire contract period till completion of work unless there is separate provision in the RFQ document.	CONFIRMED (YES/NO)	
19.	Confirm that Bidder's Bid is based on total compliance to the provisions of Tender document and subsequent amendment and corrigendum, if any, without any deviations and the quoted price is based on all the terms and conditions and specifications of Tender document.	CONFIRMED (YES/NO)	
20.	Confirm that the Price Reduction Schedule (PRS) as per Tender provision is acceptable and certify that there has been no decrease in the price of price variation indices and, in the event of any decrease of such indices during the currency of this contract, we shall promptly notify this to the purchaser and offer the requisite reduction in the contract rate.	CONFIRMED (YES/NO)	
21.	Contract Awarded Agency shall deposit 3% of total contract value from Nationalized Bank within 15 days from the notification of the award of contract, and it should remain valid for a period of 60 days beyond the date of completion of all contractual obligation of the supplier, including warranty obligation.	CONFIRMED (YES/NO)	
22.	Confirm that the bidder accept all the terms and condition, methodology, GCC, SCC and all	CONFIRMED (YES/NO)	



SL. NO.	COMPLIANCE STATEMENT/QUERY	BIDDER'S CONFIRMATION, WITH CLARIFICATION/DETAILS (Mention YES/NO in each cell)	Page No. (To be filled by the vendor) As per bidding documents.
	Annexure of entire tender documents.		
23.	Functional Guarantee: If the Product is found not genuine or authentic due to reasons entirely attributable to the bidder, the IIIT, ALLAHABAD may consider termination of the Contract and forfeiture of Performance Security in Compensation for the extra Costs and delays likely to result from this failure.	CONFIRMED (YES/NO)	
24.	Confirm that proof of remittance with transaction number/ exemption certificate is attached.	CONFIRMED (YES/NO)	
25.	Confirm that you are agreed with the demonstration condition.	CONFIRMED (YES/NO)	



9.3 **ANNEXURE – III: TECHNICAL COMPLIANCE SHEET**

9.3.1 Technical Compliance for Establishment of radar and satellite communication Lab

S.No.	Item & Technical Specification	Quantity	Yes/No
1.	<p>Doppler Radar Training System</p> <p>Features:</p> <ul style="list-style-type: none"> • Complete hardware and software setup to demonstrate Radar concepts • Signals study on Software / Oscilloscope with the help of test points given on trainer • Object detection provided on trainer • Real time fan RPM measurements and vibrations measurements with the help of tuning forks • Tripod stand provided for height and level matching • LED Indication for Doppler Echo Signal • On board alarm for detected signals <p>Technical Specification:</p> <ul style="list-style-type: none"> • Transmitter Frequency : 10 GHz, • Output Power : 10 to 15 mW, +10dB typical • Operating Voltage : 12V, Antenna : Horn • Power Supply : 230 V \pm10%, 50 Hz, • Alarm : Onboard detected signal indication, <p>Support Software:</p> <ul style="list-style-type: none"> • Oscilloscope : Real time/Storage mode with FFT analysis • Display : Peak to Peak Voltage, • Time domain window : Display the Doppler Frequency in Time domain • Frequency domain window: Display the Doppler Frequency in Frequency domain, <p>Control Panel window :</p> <ul style="list-style-type: none"> • User interface for: Measurement of RPM • Utilities : Start / Stop of Display, Setting of Time base and Amplitude range on display window • Printing of Doppler Frequency signal, Cursors for Time & Voltage measurements, Save, Load <p>Experiments (Approx)</p> <p>9) To investigate the fundamental concepts of Doppler radar. 10) To setup radar and tune it for best performance. 11) To measure speed of a fan. 12) To study the alarm system by using the Radar 13) To find out the Time period and frequency of a moving Pendulum for different lengths. 14) To actuate the opening of a door, Traffic signal, Intrusion alarm etc. with the help of a radar. 15) To measure the variable speeds of moving objects using Velocity simulator. 16) To study the reflective, absorptive and transmissive properties of materials using radar and velocity simulator.</p>	15	
2.	<p>Satellite Communication Training System</p> <p>The trainer should have the following features to conduct the experiments: Simultaneous communication of three different signals at each up-linking frequency. 2414 - 2468 MHz PLL microwave operation. Crystal Control Frequencies. Communicate Audio, Video, Digital data, PC data, Tone, Voice, function generator waveforms etc. Communication of external broad band digital and analog data and base band signals. Choice of different transmitting and receiving frequencies. Built-in microphone and speaker for Voice and Audio link. Detachable Dish Antenna at each station Communication Kits.</p>	15	



	<p>Technical Specifications:</p> <p>Uplink Transmitter Transmit three signals simultaneously at each up-linking frequency 2414-2468 MHz up-Linking frequencies selectable by Frequency selection switch and LED indication. 4 MHz clock frequency. Wide band RF amplifier. No manual matching required. PIC 16F84-8-bit RISC processor based PLL. 16 MHz bandwidth. Microcontroller based Frequency selector switch with LED indication. FM Modulation of audio and video. 5/5.5 MHz audio and 8 MHz video Modulation. Detachable Dish Antenna. Radiated power output 25mW (approx) with power control. Transmit Audio, Video, Digital/Analog data, PC data, tone, Voice. Function generator waveforms etc. Separate terminals provided for different inputs. Terminal provided for PC Interface. SMPS based Power supply: 220 V \pm 10%, 50 Hz/ 60 Hz on request.</p> <p>Satellite Transponder Transponder with selectable frequency conversion. Choice of downlink frequencies 2414-2468 MHz, Microcontroller based Switch for selecting uplink frequency. Link Fail operation. Detachable dish Antennas. Radiated power 25 mW (Approx) with variable gain control. SMPS Based Power Supply: 220 V \pm 10%, 50 Hz/ 60 Hz on request.</p> <p>Downlink receiver: Receives and demodulate three signals simultaneously. Intermediate Frequency 479.6 MHz (approx.) 2414-2468 MHz fix frequency tuning. -60dBm sensitivity at tuner input. Built in speaker for audio and video output. Terminal provided for PC Interface.</p> <p>Experiments (Approx) 11) To set up an active & passive satellite communication link and study their difference. 12) To study baseband analog signal parameters. 13) To study the signal parameters in an analog FM/FDM TV Satellite link. To study the functionality of a satellite MODEM. 14) To study the C/N ratio 15) To study the S/N ratio. 16) To study the effect of fading and study the fading margin of a received signal. 17) To measure the Propagation Delay of signal and to measure path loss. 18) To study the digital baseband signal parameters in a satcom link. 19) To send tele-command and receive the telemetry Data and study the operation of a codec. 20) To setup a RS-232 satellite communication link using com ports of PC.</p>		
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3.	<p>Advance Radar Kit</p> <p>The radar is configured in various way for different experiments and research activity.</p> <ul style="list-style-type: none">• Measurements Target Range Vs Angle Using PPI Chart• Multiple Target & Echo Observation Using PPI Chart• Target Motion Inbound or Outbound Using Spectrogram Chart• Echo Magnitude Representation Over Time Using A Scope Chart• Doppler Shift / Velocity of Target Using B Scope Chart• Distance of Lateral Axis Vs Longitudinal Axis Using 2D Chart <p>Specifications</p> <table border="1"><thead><tr><th>Frequency</th><th>K-BAND or EQUIVALENT or ABOVE</th></tr></thead><tbody><tr><td>Antenna Type</td><td>MIMO (Preferable Size 4)</td></tr><tr><td>Antenna array</td><td>TX (4 X 4 matrix) Rx (4 X4 matrix) with matching and BALUN</td></tr><tr><td>Power</td><td>+13dBm</td></tr><tr><td>Modulation</td><td>FM</td></tr><tr><td>Battery back up</td><td>1 hour</td></tr><tr><td>Interface</td><td>USB 2.0</td></tr><tr><td>Chirp variation</td><td>1.5Ghz @ center</td></tr><tr><td>Range of ambiguity</td><td>10 cm or better</td></tr><tr><td>Range</td><td>30 to 40 feet</td></tr><tr><td>Multiple Target Velocity</td><td>60m/s</td></tr><tr><td>Velocity accuracy</td><td>2m/s</td></tr><tr><td>RADAR Display</td><td>A Scope, B scope, X-Y plot Spectrogram</td></tr><tr><td>PPI Screen</td><td>24-inch LCD</td></tr><tr><td>Doppler shift, Raw echo, Range, Angle Vs Target and Multiple Target Vs Range</td><td>Should be possible</td></tr></tbody></table>	Frequency	K-BAND or EQUIVALENT or ABOVE	Antenna Type	MIMO (Preferable Size 4)	Antenna array	TX (4 X 4 matrix) Rx (4 X4 matrix) with matching and BALUN	Power	+13dBm	Modulation	FM	Battery back up	1 hour	Interface	USB 2.0	Chirp variation	1.5Ghz @ center	Range of ambiguity	10 cm or better	Range	30 to 40 feet	Multiple Target Velocity	60m/s	Velocity accuracy	2m/s	RADAR Display	A Scope, B scope, X-Y plot Spectrogram	PPI Screen	24-inch LCD	Doppler shift, Raw echo, Range, Angle Vs Target and Multiple Target Vs Range	Should be possible	01	
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Yours faithfully,

(Signature of Authorised Signatory)

Name:
Designation:
Company seal:
Place:
Date:



9.4 ANNEXURE – IV: UNDERTAKING

To,
Jt. Registrar (Store & Purchase)
Indian Institute of Information Technology
Deoghat, Jhalwa
Prayagraj - 211015

UNDERTAKING

I/We _____, of M/s. _____ having registered office at _____, do hereby undertake that my company, M/s. _____, will not withdraw or modify its bids submitted for Tender No. _____ dated _____ for the "**Establishment of radar and satellite communication Lab**" at IIIT-Allahabad during the period of validity of the bids.

I/We further undertake to have understood that if my company M/s. _____ withdraws or modifies its bids or if it fails to sign the contract or fails to submit a performance security within the stipulated deadline if the work is awarded to it, M/s. _____ will be suspended for a specified time period at least for two years from being eligible to submit bids for contracts with the Indian Institute of Information Technology, Allahabad.

I/We further certify that in the event of any decrease in the price/ price variation indices during the currency of this contract, we shall be promptly notify this to the purchaser and offer the requisite reduction in the contract rate.

Yours faithfully,

(Signature of Authorized Signatory)

Name:

Designation:

Company seal:

Place:

Date:



9.5 ANNEXURE – V: DECLARATION

DECLARATION

(Regarding ownership and/or employment of IIIT-A Employees)

(To be filled in by the Tenderer, signed and submitted along with tender papers.)

Ref. No.: IIIT-A/SP/1169 / 1887 / 2023

Date: / /

I/We hereby declare that I/we or Partners or Directors of our concern do not have any such person under my/or employment who has retired/ resigned/ removed/ dismissed from IIIT-A during the last two years.

I/We hereby declare that I/We or partners or Directors of our concern have the following under my/our employment who has/have retired/resigned/removed/dismissed from IIIT-A during the last two years.

I/We hereby declare that I/We or partners of directors are not related to any employees of IIIT-A

Sl no	Name of person	Date of leaving IIIT-A	Reason for leaving IIIT-A

OR

I/We hereby declare that the following persons employed in IIIT-A and any other IIIT-A Project/Station are related to me/us for partners or directors of our concern as per details indicated.

Sl no	Name of person	Designation and Name of project or Office of IIIT-A	Relationship

Note: The near relative shall include wife, husband, parents and grandparents, children and grandchildren, brothers, sisters, uncles, aunts and cousins and their corresponding in-laws.

(Signature of Tenderer)

(Name)

Witness Signature

Name:

Place:

Date:

Note:

1. Please tick whatever is applicable and delete/cut whatever is not applicable
2. Please attach extra sheet if necessary.



9.6 ANNEXURE – VI: BIDDER DETAILS

SI	Name of the Company/ Bidder	To be filled by bidder (Documentary proof must be attached as applicable)
1	Registered office Name	
	Full address of the Registered office	
	Details of contact person(s)	
	Name	
	Designation	
	Telephone number(s)	
2	Name of Bidder	
	Full Address of Office in Allahabad	
	Name of Contact person(s)	
	Designation	
	Telephone number(s)	
	Email	
3	Technical Expert/Engineer who will be involved in this work in Allahabad, if any	
	Name	
	Designation	
	Telephone number(s)	
4	List the major clients with whom your organization has been associated and submit documentary proof	a.
		b.
		c.
		d.

(Signature of Tenderer)

(Name)

(Seal)

Place:

Date:



**9.7 ANNEXURE – VII: MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS
TRANSFER & DETAILS OF BID SECURITY TRANSACTION**

Ref. No.: IIIT-A/SP/1169 / 1887 / 2023

Date: / /

To,
Registrar (Acting)
Indian Institute of Information Technology Allahabad
Deoghat, Jhalwa
Prayagraj - 211015

Sub: Authorization for release of payment/dues from Indian Institute of Information Technology, Allahabad through Electronic Fund Transfer/ RTGS Transfer.

- Name of the Party/Firm/Company/Institute: _____
- Address of the Party: _____
City: _____
Email ID: _____ Mob: _____
Permanent Account Number: _____
- Particulars of Bank:
Bank Name: _____ Branch Place: _____
Branch Name: _____ Branch City: _____
PIN Code: _____ Branch Code: _____
IFSC Code (11 Digit Alpha-Numeric Code): _____
Account Type: Savings/ Current/ Cash Credit: _____
Account Number: _____

DECLARATION

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information, I shall not hold Indian Institute of Information Technology responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place: _____

Date: _____

Signature & Seal of the Authorized Signatory of the Party

Details of BID SECURITY are as follows (if submitted, attach a photocopy)*:

Bid security amount (in Rs.)	Bank Name	Issue Date	Valid till date	If transferred online (mention NEFT/RTGS)	Online Transaction No. QR DD/ FDR/ BG No.	Online Transaction date QR DD/ FDR/ BG Date	If MSE's(mention Yes)#



***Attach a photocopy of proof regarding submission of bid security amount/ MSE Registration Certificate**

**9.8 ANNEXURE – VIII: ORIGINAL EQUIPMENT MANUFACTURER (OEM)
MANUFACTURER’S AUTHORIZATION FORM (MAF)**

To,

The Director,
Indian Institute of Information Technology Allahabad
Deoghat, Jhalwa
Prayagraj - 211015

Dear Sir,

Reg: IIIT's Ref No. _____ Dated: _____

I/We manufacturers of original equipment at (address of factory) do hereby authorize M/s. (Name and address of Agent) to offer their quotation and conclude the contract with you against the above invitation for the Bid, as **one of our Authorized Dealers/only Dealer authorized to Bid. No company or firm or individual other than M/s. _____ is authorized to bid, and conclude the contract in regard to this business. (Mention either Red or Blue Part)**

I/We have carefully read and understood all the terms and conditions of the tender and undertake to abide by them.

I/We hereby extend our full guarantee and comprehensive warranty as per terms and conditions of the NIT for our products offered against this invitation for Bid by the above firm.

Dated at _____ this _____ day of _____ 2019.

Authorised Signatory,

(Name)
(Designation)
(Name & Address of the company)

Note: This 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. It should be included by the Bidder in its techno-commercial unpriced bid.



9.9 ANNEXURE – IX: PERFORMANCE BANK GUARANTEE

To,

Registrar (Acting)
Indian Institute of Information Technology-Allahabad
Deoghat, Jhalwa
Prayagraj - 211015
(Uttar Pradesh)

WHEREAS.....

(Name and address of the Contractor/Vendor) (Hereinafter called "the supplier") has undertaken, in pursuance of contract no.

Dated to perform the work) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS I/we have agreed to give the supplier such a bank guarantee:

NOW THEREFORE I/we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

I/We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

I/We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until theday of....., 20 _ _
.....

(Signature of the authorized officer of the Bank).....

Name and designation of the office.....

Seal, name & address of the Bank and address of the Branch (Bank's common seal)

Signature Not Verified

Digitally signed by JAYANT BISWAS
Date: 2023.02.22 16:56:17 PST
Location: eProcure-EPROC