



पूर्वोत्तर क्षेत्रीय जल और भूमि प्रबंधन संस्थान
NORTH EASTERN REGIONAL INSTITUTE OF WATER AND LAND MANAGEMENT
(जल संसाधन, नदी विकास और गंगा कायाकल्प विभाग, जल शक्ति मंत्रालय, भारत सरकार के अधीन एक संस्थान)
(An Institute under the Department of Water Resources, River Development and Ganga Rejuvenation,
Ministry of Jal Shakti, Govt. of India)

No. NRW/ST/248/VIDEO CONFERENCE/2021-22/

1911

Date: 13/10/2021

NOTICE INVITING e-TENDER

e-Tender are invited (Technical & Financial Bid) by the **Director, NERIWALM, Dolabari, Tezpur-784027(Assam)** from appropriate registered Firms/Contractors/Company/Individuals having extensive experience in repair/maintenance/ construction work of similar nature for the following works of NERIWALM.

Name of the works:

(1) "Supply, Installation, Testing and Commissioning of Video Conferencing System including Providing, Fitting, Fixing of Acoustic in Administrative Building of NERIWALM " at Dolabari, Tezpur, Assam(Pin-784027). The tender along with terms and conditions may be viewed and downloaded from the institute's website www.neriwalm.gov.in



Deputy Director
13/10/2021
Deputy Director (Admin)
NERIWALM



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(जल संसाधन, नदी विकास और गंगा कायाकल्प विभाग, जल शक्ति मंत्रालय, भारत सरकार के अधीन एक संस्थान)
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No. NRWM/ST/248/VIDEO CONFERENCE/2021-22/ 1902

Date: 13/10/2021

NOTICE INVITING e-TENDER

e-Tender (Technical and Financial) are invited by the **Director, NERIWALM, Dolabari, Tezpur-784027(Assam)** from Original Manufacturer(s)/their authorised representative(s)/Authorised Channel Partner(s)/Authorised Supplier(s)/Authorised Dealer(s)/Authorised Sales and Service Center(s)/Firm/Company or as defined by MEITY having extensive experience in similar nature of work as given below. The tenders will be opened in the conference hall of the institute in presence of the tenderer or their authorized representatives, if any.

Tenders will be opened on working days only

The tender along with terms and conditions may be viewed and downloaded from the institute's website www.neriwalm.gov.in

Sl no	Name of the work	Estimated value (Rs)	Earnest Money	Tender Fee	Completion period	Last date of submission of Tender(Technical & Financial)	Date of opening the tender
01	Supply, Installation, Testing and Commissioning of Video Conferencing System including Providing, Fitting, Fixing of Acoustic in Administrative Building of NERIWALM at Dolabari, Tezpur, Assam(Pin-784027).	13,20,300.00	2 % of the total quoted amount	Rs 1000.00	45(Forty five) from the date of signing the agreement	05/11/2021 (5.00PM)	08/11/2021 (11.00AM)
			EMD and Tender Fee is payable in the form of Demand Draft/ Banker's Cheque/ Pay Order in favour of "NERIWALM REVENUE ACCOUNT" from any scheduled bank of India payable at Tezpur, Assam				

Tenders will be opened on working days only

The price Offers of only the qualifying parties in the first stage shall be opened at the same day OR date to be notified/informed separately. Director, NERIWALM reserves the right to accept or reject any or all the tenders without assigning any reason thereof. The Section-2 of the tender documents may please be read thoroughly before filling the Tender.

Balaram
13/10/2021
Deputy Director (Admin)
NERIWALM

Copy to:

1. PS to Director for Director's kind information
2. Chief Vigilance Officer(CVO), NERIWALM
3. Assistant Director(Civil), NERIWALM for information and necessary action
4. Accounts Officer, NERIWALM for information and necessary action.
5. Assistant Engineer(Civil) NERIWALM for information and necessary action
6. Assistant Library & Information Officer, NERIWALM for information and he is requested to maintain the record of the advertisement published in the Assam tribune
7. Notice Board, NERIWALM for wide circulation
8. NERIWALM WEBSITE: www.neriwalm.gov.in & CPP Portal for publishing and tendering process .

Tender Notice No. NRWM/ST/ 248/VIDEO CONFERENCE/2021-22/.....1902..... Dtd:13/10/2021

TENDER(E-Tender) FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING VIDEO CONFERENCING SYSTEM

Name of the work/works:

: SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF VIDEO CONFERENCING SYSTEM INCLUDING PROVIDING, FITTING, FIXING OF ACOUSTIC IN ADMINISTRATIVE BUILDING OF NERIWALM , TEZPUR, ASSAM (Pin-784027).

Invited by



**NORTH EASTERN REGIONAL INSTITUTE OF WATER AND LAND MANAGEMENT
(NERIWALM)**

Department of Water Resources, River Development & Ganga Rejuvenation,
Ministry of Jal Shakti, Govt. of India
(Registered under the Societies Registration Act, 1860)
Dolabari, P.O Kaliabhomora
Tezpur-784027, Assam (India)
Website: www.neriwalm.gov.in
Phones: 03712-291069



NOTICE INVITING E-TENDER

Tender No.: Mentioned at First Page of the Tender documents

E-tenders are invited from Original Manufacturer/ their Authorised representative(s)/ Authorised Channel Partner(s)/Authorised supplier(s)/Authorised dealer(s)/ Authorised Sales and Service Center(s)/Firm/Company or as defined by MEITY for **“SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF VIDEO CONFERENCING SYSTEM INCLUDING PROVIDING, FITTING, FIXING OF ACOUSTIC IN ADMINISTRATIVE BUILDING OF NERIWALM, TEZPUR, ASSAM (Pin-784027)”**.

ONLINE submission of Bids is mandatory for this Tender. Detailed instructions are given in Section-2 of this Tender Document.

Important Dates: Please refer the Quotation Notice

Tender Fee (non -refundable) amounting to Rs. 1000.00 (Rupees One thousand) by Demand Draft in favour of **“NERIWALM REVENUE A/C”** payable at Tezpur.

Earnest Money amounting to 2% of the total quoted amount by Demand Draft in favour of **“NERIWALM REVENUE A/C”** payable at Tezpur from a Scheduled Bank shall be submitted along with the tender.

• **Tender fee and EMD is exempted for NSIC/MSME units. Subject to submission of valid NSIC / MSME certificate.**

1.1: Eligibility Criteria

1. Firms having experience in the relevant field, and having the requisite competence / capacity to do / handle such jobs effectively are eligible to participate in the tender process.
2. The bidder should be Original Equipment's Manufacturer or their Authorised representative(s)/ Authorised Channel Partner(s)/ Authorised Dealer(s)/Authorised Service Center(s)/Firm/Company (attested copies of the certificate shall be submitted with the Tender)
3. The bidder should have valid Registration Certificate/Trade Licence and Labour Licence issued by appropriate authority (attested copies to be submitted with the tender)
4. The Bidder should be registered for GST and PAN no (attested copies of to be submitted with the tender)
5. The Bidder should not have been barred / black listed by any PSU/Govt. Deptt. in doing business with them (Please submit undertaking as per **FORMAT** attached).
6. The bidder should have minimum 02(two) years of experience in the field or similar nature of works
5. Make and quality, warranty period of the equipments/ materials to be used for the work should be clearly mentioned (Please refer the Bid Submission Form where the details are to be mentioned) where ever possible. Samples should be got approved before using the same at work. If the party wishes they can inspect the site before submission of tender.
6. The rates should be legibly written both in figure and in words. Any correction should be properly authenticated with proper initials. GST weather exclusive or inclusive should be shown clearly



7. No request for change of rates will be entertained after opening of the tender.
8. The work should be completed within the stipulated time mentioned in the Tender/Work order. Extension may be considered only if a valid and tenable reason is given and accepted by the Competent Authority.
9. The Contractor should provide necessary risk to the labours from any type of accident that may arise at the work site or within the campus. Necessary Labour Rules will be applicable on the contractor.
10. Payment will be made as per actual quantity of the work/supply executed.
11. Any other clause not covered under GCC, SCC and above, the party will be liable to abide by the direction/instruction of the Director, NERIWALM in the interest of the work.
12. The Director, NERIWALM reserves the right to accept/reject any or all tenders without assigning reasons thereof and there is no binding on the Director to accept the lowest rate.

Note: Bidder must provide necessary supporting documents as proof in respect of the eligibility criteria mentioned above.

WARRANTY: The minimum warranty period should be 02(two) years from the date of supply of the item or as per company's guide lines.

SERVICE CENTER: The Item must have full-fledge service center located in Assam

DELIVERY: To be supplied ,installed, tested and commissioned within 45(forty five) days from the date issue of supply order at NERIWALM, Dolabari, Tezpur, Assam(Pin-784027)

PAYMENT : 100 % after satisfactory completion of the Supply, Installation, Testing and Commissioning

BID PRICE : Should be inclusive GST, Installation, Transportation, Excise, Levies, all other charges, etc.

CONDITIONAL BID: Conditional Tender may not be considered.

LATE RECEIPT OF TENDERS: Bids received after the deadline for submission of the same, as mentioned in the NIT or published time to time , shall be rejected.

2.1: INTRODUCTION (DEFINITIONS)

2.1.1 "Employer/Purchaser" means North Eastern Regional Institute of Water and Land Management (NERIWALM), Dolabari, Tezpur – 784027 (Assam).

2.1.2 "Bidder" means the individual or firm or corporate body who participates in the tender and submits its bid.

2.1.3 "Goods/Products" means all the hardware equipments, instruments, tools, machinery, works etc., and/or other materials like components/parts/spares including consumables which the contractor is required to supply to the Employer under the Work Order.



- 2.1.4 "Letter of Intent (LOI)" means the communication of the intention of the Employer to the Bidder to place the Work Order for the former's offered goods/services.
- 2.1.5 "Purchase/Work Order (PO)" means the order placed by the Employer on the Contractor duly signed by the Employer's authorized representative to purchase certain goods & services from the vendor/contractor.
- 2.1.6 "Contract Price" means considerations payable to the supplier/contractor as stipulated in the Purchase or Work Order for performance of specified contractual obligations.

2.2 BIDDER TO BEAR COST OF PURCHASE OF TENDER

The Bidder shall bear all costs associated with the preparation and submission of the bid. The Purchaser in any case will not be responsible or liable for these costs regardless or the conduct of the bidding process.

2.3: EXTENSION OF TIME

In order to give prospective bidders required time in which to take the amendments into action in preparing their bid, the Employer may at its discretion extend the deadline for submission of bid suitably.

2.5: BIDDERS ELIGIBILITY AND QUALIFICATIONS

Bidder shall furnish as a part of bid documents establishing the bidder's eligibility to execute the contract work. The bidder shall also submit documentary evidence in the form of literature, drawing, data on the good and service office

2.6: VALIDITY PERIOD OF BID

Bid shall remain valid for 90 days after the date of bid opening. The bid valid for a shorter period shall be rejected by the Employer as non-responsive.

In exceptional circumstances, the Employer may request the consent of the bidder for an extension to the period of bid validity. The bid security provided shall also be suitably extended. A bidder accepting the request and granting extension will not be permitted to modify his bid.

2.7: EVALUATION OF QUOTATION

2.7.1 The Employer shall evaluate the bids in respect to the substantive responsiveness of the bid or otherwise. The Employer shall carry out detailed evaluation of the substantially responsive bids. The Employer shall check the bid to determine whether they are complete, whether any computational errors have been made or required sureties have been furnished.

2.7.2 Arithmetical error shall be rectified on the following basis:

- If there is a discrepancy between the unit price and total price that is obtained multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected by the Employer
- In case of discrepancy between words and figures, the amount in words shall prevail.

2.7.3 A bid determined as substantially non-responsive shall be rejected by the Employer.

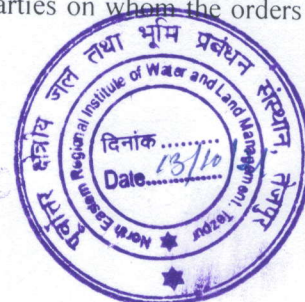
2.7.4 The Employer may waive any minor infirmity or non-conformity or irregularity in the bid which does not constitute a material deviation.

2.7.5 The Employer shall evaluate in detail and compare the bids which are substantially responsive.

2.7.6 The evaluation of the ranking shall be carried out on the landed price of goods offered inclusive of all taxes.

2.7.7 The distribution of tendered quantity amongst the technically and commercially complied bidders shall be based on merits of each case.

2.7.8 NERIWALM shall have the sole discretion in deciding the number of parties on whom the orders shall be finally placed.



2.8: SUBMISSION OF BID

Only the following shall be accepted in physical form (OFF-LINE):

- Tender Fee in the form of Demand Draft -
- EMD in the form of Demand Draft/Bank Cheque -
- NSIC / MSME registration certificate –
- Pass Phrase –(If any)

ONLINE SUBMISSION:

The following will comprise the **ONLINE** quotation.

1. The entire Tender paper duly signed by the bidder
2. **UNDERTAKING** and the **BID SUBMISSION FORM** duly signed by the bidder
3. Copy of particulars of EMD & Tender Fee (If any)
4. Financial Bid after quoting the rates and duly signed by the bidder
5. NSIC / MSME registration certificate (If any)

2.9: Bidding Methodology:

Single-stage One-Bid System. Technical Bid & Financial bid shall be opened same day

3.0: PRICE APPLICABILITY

Prices in the Work Order shall remain valid for the 06 (six) months from the date of signing of formal agreement.

3.1: STANDARDS

The Work executed under the contract shall conform to the standards mentioned in the Technical Specifications.

3.2: PATENT RIGHTS

The Contractor shall indemnify the Employer against all third party actions/claims of infringement of patent, trademark or industrial design rights arising from the use of goods or any part thereof.

3.3: PERFORMANCE SECURITY

3.3.1 Within 15 days from the date of receipt of **Letter of Intent (LOI)/W.O.**, the Contractor/Party shall furnish a Performance Security of the value of 10% (five percent) of the Contract Amount in the form of A/C Payee DD/FDR/Banker's Cheque or Bank Guarantee issued by a Schedule Bank from its branch situated anywhere in India in standard format. The proceeds of the Performance Security shall be payable to the Employer as compensation for any loss resulting from the Contractor's failure to complete its obligations under the contract.

3.3.3 The Performance Security in the Form of DD/BC/BG/FD shall be in favour of **The Director, NERIWALM**, Tezpur (Assam) with validity for 01(one) year plus 02 months in case of BG/FD.

3.3.4 The Performance Security will be discharged by the Employer after satisfactory completion of the 01(one) year of maintenance liability period from the date final handing over the work in all respect .

3.4: ARBITRATION

The procedure for arbitration will be as follows:

a) In case of dispute or difference arising between the Employer and the Contractor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996.

c) Arbitration proceedings shall be held in Tezpur/Guwahati, and the language of the Arbitration proceedings and that of all documents and communications between the parties shall be in English.

3.5: APPLICABLE LAWS

This contract shall be interpreted, construed and governed by the laws of the Republic of India and the parties hereby submit to the exclusive jurisdiction of the Court at Tezpur and Guwahati having jurisdiction in appeal there from. Any dispute in relation to the contract shall be submitted to the



appropriate Court of the Republic of India for determination. The parties to the contract shall continue to fulfill their respective obligations under the contract during the currency of the contract pending the final decision of the Court.

3.6 :BASIC TERMS & CONDITIONS :

1. The Bidder should not have been barred/ black listed by any PSU/Govt. Department in doing business with them. An undertaking in this respect is to be submitted to NERIWALM as per format stated below:
2. The contractor will have to sign the formal agreement on Non-Judicial Stamp paper of appropriate value **for the work** . The cost of the Non-Judicial Stamp paper will be the liability of the contractor.
3. (A) Submission of one set of signed copies up-to-date Contractor's Registration Certificate/Trade Licence, Labour License, PAN Card, GST and MSME/NSIC (if any) are to be submitted with the Technical Bid by online
(B) Submission of one set of above mentioned documents at the time of signing the agreement **for each work**.
4. The selected bidder should have to deposit **Performance Security** for an amount of 10(ten) Percent of the Contract Value/awarded value in the form of A/C Payee DD/FDR/BG for each work. The earnest money deposited with tender document will be released only after deposit of the Performance Security and signing & acceptance the formal agreement. The Performance Security will be released after satisfactory completion of the maintenance/defect liability period of 01(one) yeare
5. No request for change of rates will be entertained after opening the tender. The offered rates are inclusive of GST, carriage, loading & unloading, all charges, etc.
6. The work should be completed within the stipulated time. No extension will be considered except a valid and tenable reason is given and accepted by the Competent Authority.
7. The contractor should provide necessary risk to the labours from any type of accident that may arise at the work site or within the campus. Necessary Labour Rules will be applicable on the contractor.
8. Payment will be made as per actual measurement of the work executed.
9. The materials to be used by the contractor for the work should be got approved from the authority before using the same
10. Any item of work executed as extra item which is beyond the schedule order, the rate will be fixed as per **latest APWD SOR/CPWD SOR(for items of work)/Company's specification(For equipment related items)** with prior approval of Director.
11. Any other clause not covered under GCC, SCC and above, the contractor will be liable to abide by the directions/instruction of the Director, NERIWALM in the interest of the work.



12. **Tests:** For carrying out mandatory tests as prescribed in the Specifications, the contractor shall be solely responsible for :
- (a) Carrying out mandatory tests as per Specification during construction or defect liability period, and
 - (b) For correctness of the test results, whether performed in his own Laboratory or elsewhere.
- © Testing shall be the liability of the contractor at his own cost and risk .
13. **Defects Liability:**
- (a) The Defect Liability period is 01(one) year from the date of final handing over the work in all respect to NERIWALM. The Defect Liability period shall automatically extend for as long as the defects remain to be rectified.
 - (b) Any authorized official shall check the work and notify the contractor of any defects, poor workmanship, quality of materials or testing during construction or Defect Liability period. The contractor shall correct the notified defect/defects with immediate effect.
- ©The contractor shall do the routine maintenance of the work during the Defects Liability period
14. Make , company's warranty period, name& address of the local authorized service center etc May be clearly mentioned (Please refer the Bid Submission Form below)



4.0 : SUBMISSION OF UNDERTAKING

(UNDERTAKING -A)

To,

The Director,
NERIWALM,
Dolabari, Tezpur, Assam (Pin-784027)

Name of the work: -“ SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF VIDEO CONFERENCING SYSTEM INCLUDING PROVIDING, FITTING, FIXING OF ACOUSTIC IN ADMINISTRATIVE BUILDING OF NERIWALM , TEZPUR, ASSAM (Pin-784027).”

I do hereby declare that I/We have not been barred/black listed by any PSU/Government Department/Organization/institution in doing business with them. I/We have submitted the information/documents to the best of my/your knowledge.

Signature with date of Authorized Signatory.....

Name of the signatory(In block letters)

Name of the party/Firm/Company/Contractor:.....

Address

Date:..... Place :.....



5.0: (BID SUBMISSION FORM)

Tender Notice No: (As mentioned in the first page above)

To

The Director,
North Eastern Regional Institute of Water and Land Management (NERIWALM)
Dolabari, P.O.: Kaliabhomora
Tezpur – 784027 (Assam)

Dear Sir,

In response to your Tender Notice(mentioned below) dtd:13/10/2021.for the work/works of NERIWALM (mentioned below),We hereby submit our PARTICULARS/OFFER for necessary consideration:

A	Tender Notice No & Date	NRWM/ST/248/VIDEO CONFERENCE/2021-22/..... dtd-13/10/2021
B	Name of the Work :	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF VIDEO CONFERENCING SYSTEM INCLUDING PROVIDING,FITTING, FIXING OF ACOUSTIC IN ADMINISTRATIVE BUILDING OFNERIWALM, TEZPUR, ASSAM (Pin-784027).
1	Bidder's Name :	
2	Web site Address:	
3	E-Mail Address:	
4	Actual Address of the Bidder as per record:	
5	Postal Address:	
6	Contact No:	
7	Authorized Person's -Name	
	Designation :	
	Contact No:	
8	PAN No :	
9	GST Reg No:	
10	Particular of EMD (Copy to be submitted with Technical Bid also)	
	Amount(Rs)	
	DD/BC/PO No & Date:	
	Bank :	



11	Particular of Tender Fee (Copy to be submitted with Technical Bid also)			
	Amount(Rs)			
	DD/BC/PO No & Date:			
	Bank :			
12	Details of Bank Accounts for release of EMD/Performance Security/Bill etc.			
	Bank A/C No.			
	Name of the Bank			
	Name of the Branch			
	IFC Code.			
	Name of the Bank Account Holder(As per record in the Bank Account)			
13	Average Turn over of the bidder during last three years ending 31 st March,2021 (copy to be submitted)			
	Financial Year	Financial Turn over(As below):		
14	Experience in the relevant work(s) (copy to be submitted)			
	Duration of experience	Description	Deptt/Organization	Work valu(Rs)
15	Particulars of Registration Certificate/Trade Licence and Dealership Certificate , etc (Copy to be submitted) :			
	Category of Registration	Issuing Authority	Nature & type of product	Valid upto :



16(a)	Make & Warranty period (for Camera)			
	Make of the item:			
	Warranty period of the item			
	Name & Address of local Service center			
16(b)	Make & Warranty period (for TV)			
	Make of the item:			
	Warranty period of the item			
	Name & Address of local Service center			
16(c)	Make & Warranty period (for Software)			
	Make of the item:			
	Warranty period of the item			
	Name & Address of local Service center			
16(d)	Make & Warranty period (for Microphone)			
	Make of the item:			
	Warranty period of the item			
	Name & Address of local Service center			
16(e)	Make & Warranty period (For Chairs)			
	Make of the item:			
	Warranty period of the item			
	Name & Address of local Service center			
16(f)	Make & Warranty period (For Video Conferencing System)			
	Make of the item:			



	Warranty period of the item	
	Name & Address of local Service center	
17	Details of MSME/NSIC Registration(If any, not mandatory)	

DECLARATION

- 1) We have read and understood the terms & conditions of the above mentioned tender and comply with all Terms & Conditions of your Tender.
(In case of any deviation the Bidder must attach a separate sheet clearly mentioning the Clause No. of the Tender and Deviation thereto)
- 2) We certify that the information mentioned above are true and correct to best of our knowledge.
- 3) In case of receipt of order we confirm that payment shall be received through e-Banking / Electronics Transfer.
- 4) This offer contains _____ No. of pages including all Annexures and Enclosures.

(Signature of the bidder with seal).....

Name of the Signatory (In Block Letters) :.....

Name of the party:

Address

Seal:



6.0 : (B.O.Q & SPECIFICATIO FOR VIDER CONFERENCING SYSTEM)

Name of the work: SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF VIDEO CONFERENCING SYSTEM INCLUDING PROVIDING, FITTING, FIXING OF ACOUSTIC IN ADMINISTRATIVE BUILDING OF NERIWALM, TEZPUR, ASSAM (Pin-784027).

(A) For Code of Specification : May refer the following :

7.0 : Code of Specification (Annexure -I)

8.0 : Financial Bid (Annexure-II)

(B) For Financial Bid(Price Bid): Please refer the Annexure-II attached separately. (Annexure -II, is for quoting rates in all respect)

Signature of the bidder:

Name of the bidder:

The proposals shall be addressed to:

The Director, NERIWALM
Dolabari, P.O- Kaliabhomora,
Tezpur-784027, Assam

Website: www.neriwalm.gov.in

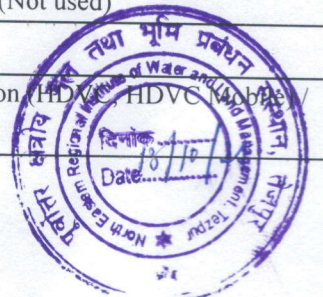


CODE OF SPECIFICATION

(Annexure-I)

Name of the work : Supply, Installation, Testing and Commissioning of Video Conferencing System including Providing, Fitting, Fixing of Acoustics in Administrative Building of NERIWALM

SI No	CODEC SPECIFICATIONS			
A	Communication Method		SIP, H.323	
	Video Compression Method		H.261 (mainstream only), H.263, H263+, H.263++ (reception only), H.264 High Profile, H.264 Baseline Profile	
	Audio Compression Method		G.711 μ -law, A-law (3.4 kHz@64 kbps) G.722 (7.0 kHz@64 kbps) G.722.1 (7.0 kHz@32 kbps) G.722.1 Annex C (14.0 kHz@48 kbps/24 kbps) MPEG-4 AAC-LD Mono (7.0 kHz@32 kbps, 14.0 kHz@64 kbps, 22.0 kHz@96 kbps) MPEG-4 AAC-LD Stereo (14.0 kHz@64 kbps, 22.0 kHz@96 kbps)	
	No. of Channels		G.711/G.722/G.722.1/G.722.1 Annex C: 1 MPEG-4 AAC-LD Mono: 1/ MPEG-4 AAC-LD Stereo: 2	
	Remote Camera Control		H.224, H.281 (Zoom/Pan/Tilt/Preset)	
	Dual Stream	Method	H.239 (H.323), BFCP (SIP)	
		Multi-Monitor	2 displays*1	
		No. of Applicable Resolution Frames	Main: Max. 1080 p 30 frames/second, Sub: Max. 1080 p 30 frames/second	
	Encryption		SRTP (AES 128 bit), H.235 (AES 128 bit)	
	Other		H.460	
	Communication Bandwidth		256 kbps to 18 Mbps	
	Video	Compatible Resolutions*2	176 x 144 p, 352 x 240 p, 352 x 288 p, 512 x 288 p, 640 x 480 p, 704 x 480 p, 704 x 576 p, 768 x 432 p, 800 x 600 p, 1024 x 768 p, 1280 x 720 p, 1280 x 768 p, 1280 x 800 p, 1920 x 1080 p	
		No. of Frames	Max. 60 frames/second (When using H.264 1080 p)	
		Screen Display	Full-screen, Picture in Picture, Picture with Picture, Side by Side	
	Audio		Echo canceller, Auto gain control, Stationary noise reduction, Lip synch, Equalizer, Mic mute	
	I/O Terminals	Video Input	Camera*3	HDMI main x 1, HDMI sub x 1 Input resolution: 1280 x 720 p, 1920 x 1080 i, 1920 x 1080 p
			PC	RGB x 1 (Mini D-sub 15 pin), HDMI x 1*3 Input compatible resolution: VGA, SVGA, XGA, HD, WXGA, SXGA, FWXGA, WXGA+, WXGA++, UXGA, WSXGA+, Full-HD
		Video Output		HDMI x 2*1 Supported output resolutions: 1920 x 1080 i, 1920 x 1080 p
		Audio Input		Boundary Omnidirectional Microphone (Digital Interface Type) x 1 (KX-VCA001X) Max. 4, Boundary Omnidirectional Microphone (Analogue Interface Type) x 1 (KX-VCA002X) Max. 1, HDMI, Stereo mini-plug*4 x 1 (ϕ 0.35 cm), RCA (Stereo) x 1
		Audio Output		HDMI*5, Stereo mini-plug*4 x 1 (ϕ 0.35 cm), RCA x 1 (Stereo)
		Network		RJ45 x 1 1000BASE-T/100BASE-TX/10BASE-T Full Duplex
External Control		RS-232C x 1 (Also used for maintenance)		
Others		USB 2.0 x 1, Camera Control Terminal x 1 (Not used)		
No. of Simultaneous Connection Sites		4 (Default)		
Unauthorized Incoming Call Security		Identification Number / Terminal Verification (HDVC) Whitelist		



Content Sharing		PC (RGB/HDMI), Sub video camera (HDMI sub)
USB Host Mode (USB Memory)		Updating Software Import: Contact List / Profile*7 / Configuration Data / Encryption Data / Startup screen / Multicast Tree List Export: Contact List / Profile*7 / Configuration Data / Encryption Data / Multicast Tree List Recording (Audio and Video)
USB Device Mode (PC Peripheral)*8		USB Audio Class 1.0 / USB Video Class 1.0
Network Protocol		TCP/IPv4, TCP/IPv6, UDP/IPv4, UDP/IPv6, DHCP, DNS, HTTP, HTTPS, TELNET, NTP
Network Functions		Packet resending (ARQ), Forward Error Correction (FEC), Adaptive Rate Control (ARC), Reorder, Packet Shaping, Arbitrary Port Setting, NAT Compatibility, Encryption, IP Precedence/DiffServ Support
External Control		Control via web browser/HTTP CGI, TELNET, RS-232C
Connection Modes		IP mode, NAT Traversal Service, IP/NAT Traversal Service
PTZ CAMERA SPECIFICATIONS		
Effective Pixels	1920 x 1080p	
Pan / Tilt	Pan: ±130°, Tilt: +90°-25	
Zoom (optical/digital)	12x / 10x	
Angle of view (optical zoom)	Horizontal angle of view 72.5 ° (Wide end) - 6.3° (Tele end)	
Presets	F1.8 (Wide end) - F2.8 (Tele end)	
Connection Cable	12 positions HDMI	
BOUNDARY MICROPHONE SPECIFICATIONS		
Maximum Pickup Range	Approx. 4 m(radius), 360°	
Pickup Method	Stereo / Monaural*	
Microphone Unit	Unidirectional ECM microphone parts x 4	
Number of Connections	Maximum 4 microphones	
Maximum Input Sound Pressure	110 dBspl	

Authorised Signature:

Name of the authorised signatory(In block Letters) :

Name of the Bidder:

Address:

Cont No:



FINANCIAL BID(PRICE BID SCHEDULE) IS AVAILABLE SEPARATELY FOR QUOTING RATES

Format of Financial Bid (Price Bid schedule)

Annexure-II

Name of the work : Supply, Installation, Testing and Commissioning of Video Conferencing System including Providing, Fitting, Fixing of Acoustic Treatment in Administrative Building of NERIWALM

Bill of Quantities, Abstract

Total Items-12(twelve)

SI No	Description of the Items	Unit	Qty	Rate (Excluding GST but including of all charges, etc)	GST (In %)	Total Rate (including GST)	Amount(Rs)
1	Supply an installation of Anutone Subtex Nubby, square edge, Glass fibre core fully encapsulated ceiling tile of size 595 x595 x15 mm having volume density 120 kgs/Cum, weight 1.8 kg/Sqm which is suspended by using 0.3 mm thick, Anutone skelet Tiles T15 metal grid system of 600 x600 mm wide module includes Anutone Skelet WA15W30 wall angle with unequal flanges of 15/19 mm, length 3000 mm, fixed along the perimeter of walls with the help of nylon sleeves and suitable fastners at 300 mm centers. Then suspended Anutone Skelet MT15W36 main "T" with flange width 15 mm, height 32 mm and length 3600 mm, from the soffit of slab with the help of soffit cleat and wire rod with levelling spring clip at 1200 mm centers. Anutone Skelet CT15W12 cross "T" with flange width 15 mm , height 26 mm and length 1200 mm is interlocked into the pre-cut slots in the main T15 at 600 mm centers in the perpendicular direction to the main T15. Finally, Anutone Skelet CT15W06 Cross "T" with flange width 15 mm , height 26 mm and length 600 mm are interlocked into the pre-cut slots in the CT15W12 Cross "T" in direction parallel placed into grid size 600 x 600 mm, Ensure arrow marks behind the tiles are oriented in one direction to achieve uniform shade. (Make: Anutone)	Sqm	30.10				
2	Supply, fitting, fixing of SOUND SLATS 128 x2430 x16 mm of Anutone Acoustic Ltd with all Fixtures and Fittings	Sqm	21.70				
3	Supply, fitting, fixing of 2 feet x 2 feet LED Ceiling panel of Syska/Philips Light with 1.5 Sqmm electrical wiring of make RR Kabel/Havells as required on configuration of 3:3 on 2 nos switches on colours	Each	6.00				
4	Supply, fitting, fixing of 3mm floor carpet as per approved shade by Institute	Sqm	30.10				
5	Supply, fitting, fixing of Zebra blinds of windows and ventilators of approved shade by Institute	Sqm	8.70				
6	Supply, Installation, Testing, Commissioning of Codec cum Software 1+3 Codec, of approved Make (Like: Panasonic) or equivalent (Code of Specification is attached)	Each	1.00				
7	Supply, Installation, Testing, Commissioning of PTZ Camera of Make(Like : Panasonic) or equivalent (Code of Specification is attached)	Each	1.00				



Sl No	Description of the Items	Unit	Qty	Rate (Excluding GST but including of all charges, etc)	GST (In %)	Total Rate (including GST)	Amount(Rs)
8	Supply,Installation, Testing, Commissioning of Unidirectional boundary microphone of approved make(Like : Panasonic) or equivalent (Code of Specification is attached)	Each	1.00				
9	Supply,Installation, Testing, Commissioning of License for USB Device mode	Each	1.00				
10	Supply,Installation, Testing, Commissioning of 65 Inch LED T.V panel with HDMI Cable as required for the connection in complete of approved make (Like: Panasonic/Sony /Samsung) or equivalent make	Each	1.00				
11	Supply & Installation of 6 seaters round conference table constructed with 19 mm thick water proof of ISI mark plyboard including 1 mm thick lamination as directed including labour, materials, painting, all other charges, etc as directed by Institute	Each	1.00				
12	Supply & Installation revolving executive chair suitable for video conference table with hydraulic gas lift and high quality wheels of approved brand (Like : Godrej) or equivalent	Each	6.00				
Total :							
Say, (Rs):							

(Rupeesonly)

Authorised Signature:

Name of the authorised signatory(In block Letters) :

Name of the Bidder:

Address:

Cont No:

