



NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI - 620 015, TAMIL NADU

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Office of the Dean (Research and Consultancy)

Notice inviting tender for Establishment of Community Radio Station at NITT premises on turnkey basis	
BID SYNOPSIS	
Tender Reference Number and Date	NITT/001/PLAN/2014-15/D(R&C)/ CRS dated 5 <sup>th</sup> August 2015
Brief Description of the tendered item	Setting up of Community Radio Station at NITT premises
Type of Tender	Two Bid System
Cost of Tender Document including 5% VAT ( <b>Non- refundable</b> )	Rupees in figures 18,000/- (Rupees in words eighteen thousand only) payable through Demand Draft drawn in favour of The Director, NIT, Tiruchirappalli, Tamil nadu Payable at Tiruchirappalli
Our web site address for downloading the Tender document	The tender document can be downloaded from our website <a href="http://www.nitt.edu">www.nitt.edu</a>
Earnest Money Deposit ( <b>Refundable</b> )	Rupees in figures Rs.150/- (Rupees in words: one hundred and fifty only) payable through Demand Draft drawn in favour of The Director, Tiruchirappalli, Tamil nadu Payable at Tiruchirappalli
Date of Pre bid meeting	Wednesday 19 <sup>th</sup> August 2015 at 11.30 A.M
Last Date and Time for receipt of tender	Monday 31 <sup>st</sup> August 2015 upto 3.00 p.m.,
Mode of submission of Tender	By Speed Post/ Register Post/ Courier/ Hand delivery at the postal dispatch section of NITT.
Due Date, time of tender opening	Monday 31 <sup>st</sup> August 2015 at 3.30 p.m
Date and time of opening of Price bids	After evaluation of technical bids, the date, time and place of opening of the Price bid will be intimated to technically qualified bidders.
Address for submission of Tender	The Director, National Institute of Technology, Tiruchirappalli-15, Tamil Nadu, India <b>Kind attention: Dr. B.Venkataramani, Dean (R &amp; C), NIT, Tiruchy</b>
Procedure for submission of Bid	Envelope 1 : EMD and Cost of Tender document Envelope 2 : Technical Bid Envelope 3: Price bid Envelope 4: Larger size Outer Envelope (Wrapper)
Contact person for demonstration and presentation: (Note: The bidders are required to give demonstration and presentation )	Name of Tender Inviting Faculty : Dr. M. Bhaskar, Associate Professor, ECE Department National Institute of Technology, Tiruchirappalli-15 Mail ID: <a href="mailto:bhaskar@nitt.edu">bhaskar@nitt.edu</a>

## **Notice inviting Tender**

Sir, National Institute of Technology, Tiruchirappalli, Tamil Nadu (herein after referred to as NITT) is an Educational Institution of National Importance. NITT hereby invites sealed tenders from firms/ Companies etc., possessing valid trade license issued by Competent Government Authorities to set up Community Radio Station at the premises of our Institution.

### **Chapter 1: Scope of work**

Selected firm shall have to provide the following services for setting up of community radio station (a) Preparation of Approach paper / brief report based on the area of the project site (b) preparing and submitting detailed design for making it suitable for the Project (c) Acoustics Treatment of proposed studio area (d) Procurement of equipment (e) installation of various equipment including transmission tower (f) Testing, integrating and Commissioning (g) Providing maintenance support.

### **Chapter 2: Pre-qualification criteria**

1. The interested firm/ organisation should be registered in India and should be in existence for minimum three years.
2. Should possess Valid Trade License issued by Competent Authority / Government
3. Preference will be given to organisation which has association of establishment and proof of providing consultancy to at least 3 Community Radio Stations in India.
4. The applicant organisation should not have been blacklisted by any Central or State Government, Ministry/ Departments, Public Sector Undertaking etc., An affidavit on Non judicial stamp paper has to be submitted by the firm to this effect.
5. The applicant organisation should have a well-qualified and experienced team to undertake the work. Past experience of key professionals in handling similar assignment would be preferred and given weightage.
6. The bidder will be required to submit an approach paper in not more than 1500 words which will be considered for evaluation.

### **CHAPTER 3: PRE BID MEETING**

It is proposed to conduct a pre bid meeting on Wednesday 19<sup>th</sup> August 2015 at 11.30 A.M (Venue: A 13 Hall, Administrative Building, NIT, Tiruchirappalli-15). The purpose of the meeting will be to clarify the requirements and to answer the questions of the prospective bidders on technical bid and commercial stipulations of this tender.

View above, prospective bidders are advised to submit their doubts/ questions/ clarifications, if any, through Mail (Mail ID: bhaskar@nitt.edu) before the date of Pre bid meeting. Further, on the date of the meeting, the questions should be given in writing.

Any modification of the bidding documents which may become necessary as a result of the Pre bid meeting shall be made knowingly to all the bidders by the Purchase Committee through a notification of amendment in the website of the NITT. No extension of time will be given for submission of tender on any account.

## Chapter 4: Technical Specifications for the Community Radio Station

(To be completed by respective vendor, signed and stamped)

### 1 50 W FM(CRS) TRANSMITTER

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
1	Power Output 50 Watts continuously for 24 hours and not more than 60 Watts conforming to ITU norms for operation between 87-108 MHz				
2	Technical manuals for installation, testing, commissioning, operation & maintenance, including theory of operation and fault diagnosis, must be supplied				
3	On-site warranty for one year operation or 1.5 years supply, whichever is earlier.				
4	All measurement & test certificates, wherever applicable should be supplied along with the transmitter.				
i	Audio Input	XLR connector, balanced or unbalanced, true differential nominal input impedance of 10 kΩ, +4 dBm @ 75kHz Deviation.			
ii	Total Harmonic Distortion (THD)	< 0.01%, 30Hz- 15 kHz			
iii	OUTPUT IMPEDANCE	50 Ohms, unbalanced			
iv	FREQUENCY	87.0-108 MHz			
v	FREQUENCY STABILITY	Crystal controlled, ± 200 Hz, complying with ITU specifications. (Fine adjustment available)			
vi	AUDIO RESPONSE	± 0.5 dB 20 Hz to 15 kHz			
vii	SNR	(i). Weighted > 70 dB (ii).Unweighted> 75 dB			
viii	AM SYNCHRONOUS	> 60 dB			
ix	AM ASYNCHRONOUS	> 65 dB			
x	HARMONIC SEPARATION	Should comply ITU norms for Harmonic Separation			
xi	VSWR	Up to 1.5			
xii	ANALOG METERING DISPLAY	PA DC Voltage and current, RF forward power at PA and reflected power at PA.			

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
xiii	LED INDICATION	(i). Integrated fault.			
		(ii). VSWR fault.			
xiv	MONITORING	1. Built in on board FM demodulator.			
		2. Standard audio line output on XLR for monitoring.			
		3. LED bar graph display to indicate the frequency deviation of the transmitter.			
xv	ELECTRICALS	AC Input : 230 V ± 5%			
		Frequency : 50 Hz ± 3 Hz			
xvi	ENVIRONMENTAL	Ambient Temperature range: -5°C to + 45°C			
xvii	CABINET	Standard 2U height cabinet with 19" rack mounting fixture			

### 2 TRANSMISSION TOWER, any one of the following:

2.A) Self supported Transmission tower up to 30 meter

**2A SELF SUPPORTED TRANSMISSION TOWER UP TO 30 METER**

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
i	HEIGHT	Maximum 30 Meter & Minimum 15 meter (From Ground)			
ii	WIND LOAD	47 kg/Sq.cm			
iii	WIND VELOCITY	170 km/hour			
iv	LOAD BEARING CAPACITY	25 kg in addition to cable, cable tray & ladder			
v	DESIGN APPROVED BY	A recognised Engineering College/ Institute			
vi	<b>CONSTRUCTION DETAILS/STANDARDS</b>				
	Steel Section	(i). Galvanised Tower- IS:2629			
		(ii). Fasteners - IS: 1367			
		(iii). Washers- IS:1573			
	Steel Section of Tower	(i). IS:8500			
		(ii).IS:226			
		(iii).IS:2062			
		(iv).IS:7215			
	Thickness	4 mm minimum			
vii	LIGHTENING PROTECTION	As per IS:2309 / 1969			
		Braided Copper Wire			
viii	FOUNDATION	RCC (1:2:4)			
ix	ANTENNA HOISTING ARRANGEMENT	G.I Type Pipe, 8 m long			
x	RF COAXIAL CABLE ROUTING	Through G.I Type pipe or angle iron covered with G.I sheet			
xi	PAINTING	As per latest Civil Aviation Regulations equal alternate bands of international orange and white colours with top and bottom painted in orange			
xii	EARTHING	As per IS:2309/1969			
		Braided Copper wire of 30 mm <sup>2</sup> .			

**LOW LOSS RF CABLE WITH N CONNECTOR ON BOTH ENDS**

**3**

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
i	CABLE DIAMETER	1/2" or			
		5/8"			
ii	ATTENUATION	Below 2.3 db /100 meter (0.688 db/100 feet)			
iii	CABLE TYPE	Foam Dielectric			
<b>iv</b>	<b>STRUCTURE</b>				
	INNER CONDUCTOR MATERIAL	Copper Wire/ Copper Clad / Aluminium Wire			
	DIAMETER INNER CONDUCTOR	4.6 to 4.8 mm (1/2") ;			
		6.3 mm (5/8")			
	DIAMETER DIELECTRIC	11.3 to 12.1 mm			
		13.7 mm			
	Outer Conductor material	Corrugated Copper			
	DIAMETER COPPER OUTER CONDUCTOR	13.8mm			
		19.0 mm			
	DIAMETER OVER JACKET NOMINAL	16 to 16.2 mm 21.4 mm			
	DIELECTRIC	Foam			
<b>v</b>	<b>MECHANICAL SPECIFICATION</b>				
	CABLE WEIGHT	0.22 to 0.23 Kg/m (1/2");			
		0.70 Kg/meter (5/8")			
	MINIMUM BENDING RADIUS, SINGLE BEND	70 to 125 mm			
		80 mm			
	MINIMUM BENDING RADIUS, REPEATED BEND	125 mm			
		250 mm			
	TENSILE STRENGTH,N	1100 N			
		2400 N			
<b>vi</b>	<b>ELECTRICAL SPECIFICATION</b>				
	IMPEDANCE	50 ± 1.0 Ohm			
		50 +/- 1.0 Ohm			
	PEAK POWER RATING	30 kW			
		30 kW			
<b>vii</b>	<b>TEMPERATURE RANGE</b>				
	OPERATION TEMPERATURE RANGE	from -25°C to + 65°C			
		from -25°C to + 65°C			

**4 OFF AIR MONITORING SETUP/LOGGER**

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
i	RECORDING TIME	90 Days minimum for 24 hours			
ii	ANALOG LINE INPUTS	Balanced (XLR breakout cable supplied)			
		+24dBu clipping level (+8 / +4 / 0dBu nominal level)			
		20k input impedance			
		48kHz sampling			
		24-bit converters			
		80kbps / 128kbps / 256kbps / lossless compression (selectable per channel)			

#### 4 OFF AIR MONITORING SETUP/LOGGER

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
iii	ES-3LINE INPUTS	transformer -coupled (XLR breakout cable supplied)			
		32kHz – 96kHz 24-bit sampling			
		80kbps / 128kbps / 256kbps / lossless compression (selectable per channel)			
iv	ANALOG LINE OUTPUT	Balanced (XLR breakout cable supplied)			
		40 ohm output impedance (minimum load 600 ohms)			
		+24dBu peak level (+8/+4/0dBu nominal level)			
v	AES-3LINE OUTPUT	Transformer-coupled (XLR breakout cable supplied)			
		48kHz 24-bit sampling			
		External AES-11 sync input			
vi	SKIMMING	16 optically-isolated user-assignable inputs			
		Daily event list display linked to audio log			
		Sequential playing and archiving of multiple events			
vii	FM CAPTURE	87.5 – 108.5MHz tuning range (50kHz steps,)			
		BNC antenna connection			
		48kHz sampling			
		64kbps compression			
		Maximum 24 stations			
		Optional RDS Program Information and Radio Text logging			
viii	STORAGE	Up to 3 x 2TB SATA hard discs			
		RAID-5 (striping) or RAID-1 (mirroring)			
		DVD R/W drive (+/- formats supported)			
ix	PROCESSOR	64-bit Pentium dual-core or quad-core			
x	RAM	2GB RAM			
xi	OPERATING SYSTEM	Windows based 64-bit edition or equivalent			

#### 5 MONITOR, 50W

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
i	NEAR FIELD DISTANCE	1 to 1.5 Mtr. Distance			
ii	BI-AMPLIFIED AND MATCHED ACTIVE CROSSOVER NETWORK				
iii	CONNECTORS	Balanced XLR connectors			
iv	VOLUME CONTROL FACILITY				
v	FREQUENCY LEVEL CONTROL				
vi	PROTECTION FOR OPEN CIRCUIT, SHORT CIRCUIT CURRENT AND THERMAL OVERLOADS				
vii	POWER SUPPLY	230 V± 5% AC 50±2 Hz, Single Phase power supply			

viii	FREQUENCY RESPONSE	Within $\pm 3$ dB between 50 Hz & 18 kHz with respect to 1 kHz.			
ix	AMPLIFIED POWER	50 W			

## 5 MONITOR, 50W

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
x	LF TRIM	$\pm 2$ dB			
xi	HF TRIM	$\pm 2$ dB			
xii	INPUT IMPEDANCE	10 k ohms (balanced)			
xiii	NOMINAL INPUT LEVEL	0 dBu			
xiv	INPUT LEVEL RANGE	-10 dBu to +10 dBu			
xv	MAXIMUM SPL CONTINUOUS	> 104 dB			

## 6 EIGHT (8) CHANNEL ON-AIR BROADCAST CONSOLE 1+1

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
i	FREQUENCY RESPONSE	Eight Mic./Line Input to any output, 20Hz - 20kHz , <1 dB			
ii	THD+N	Mic. sens. -30dBu, +10dBu at all outputs @1kHz , <0.006%			
iii	NOISE	Measured RMS, 20Hz to 20 kHz Bandwidth			
		Mic. E.I.N. @ unity gain,150 Ohm source impedance -128 dBu			
		Mix Output, 8 inputs routed to mix <-86 dBu			
		Group & Centre Outputs <-86 dBu			
		Aux Outputs <-86 dBu			
iv	CROSTALK (@1 KHz, TYPICAL)	Input Channel Mute <-97 dB			
		Input Fader cut-off <-95 dB			
		Pan isolation <-77 dB			
		Adjacent channel crosstalk <-99 dB			
		Group to Mix <-89 dB			
v	CMRR	90 dB			
vi	INPUT & OUTPUT MAX LEVELS	Mono & Stereo Mic. Inputs + 15 dBu			
		Mono & Stereo Line Inputs + 30 dBu			
		Stereo Returns & Insert Returns + 20 dBu			
		Any output + 20 dBu			
		Nominal Operating Level 0dBu			
		Headphone Power , 2 x 250mW into 200 Ohms			
vii	INPUTS & OUTPUT IMPEDANCES	Mic. Inputs, 2 K ohms			
		Line Inputs and Stereo Returns, 10 K ohms			
		Input channels Insert Return, 5 K ohms with EQ in, otherwise 3k			
		Ohms			
		Mix, Group, Aux, Matrix & Direct outputs,150 Ohms			
		Insert sends, 75 Ohms			
		Recommended Headphone Impedance ,50-600 Ohms			

viii	EQ (MONO INPUTS)	High pass filter (Mono input) 100Hz, 18 dB/octave			
		HF, 13 kHz, +/-15 dB, 2nd order shelving			
		LF, 80 Hz, +/-15 dB, 2nd order shelving			

## 6 EIGHT (8) CHANNEL ON-AIR BROADCAST CONSOLE 1+1

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
Ix	METERING	Input channels, Single LEDs, Signal Present & Peak outputs ,			
		2 tri-color 12-segment LED bargraphs			
X	OUTPUT	1+1 stereo, additional output for head phone and line monitoring			
Xi	POWER	AC mains supply (internal PSU), 90V-240V AC, 50 Hz universal			
		input			
		Power consumption, Less than 100W			
Xii	OPERATING CONDITION	Temperature range, -10°C to +30°C			
		Relative humidity ,0% to 80%			

## 7 DYNAMIC CARDIOID/CONDENSER MICROPHONES

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
I	PATTERN	CARDIOID/SUPER CARDIOID PATTERN			
ii	BODY	RUGGED METAL BODY AND SHOCK MOUNT CAPSULE			
lii	COIL type	HUM COMPENSATION COIL			
iv	RESPONSE	AXIS AND PROXIMITY RESPONSE			
V	FREQUENCY RANGE	50 Hz to 15 KHz			
Vi	FREQUENCY RESPONSE	The microphone shall have $\pm 3$ dB frequency response over a range of 150 Hz to 1.2 KHz.			
Vii	MAXIMUM PEAK WITH REFERENCE TO 1KHz	Maximum +10 db			
Viii	BASS ROLL OFF @ 50Hz WITH REFERENCE TO 1 kHz	8 to 10 dB			
Ix	POLAR PATTERN	Cardioid/Super Cardioid			
X	FRONT TO BACK RATIO	At least 10 dB from 250 Hz to 4 kHz			
Xi	OUTPUT IMPEDANCE	Less than or equal to 600 ohms for connecting to Audio input of Load impedance greater or equal to 2000 ohm			
Xii	CONNECTORS	3 pinXLR			
Xiii	Weight	Max 350 gram			
Xiv	On-off switch				
Xv	ENVIRONMENT	5° C to 40°C and humid conditions of 85% RH at 40° C.			

## 8 PORTABLE SOLID STATE FIELD RECORDER

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
I	<b>RECORDING/PLAY MODE</b>				
	Recording media	2 GB (or higher) semi-conductor memory			



ii	Recording Format	PCM Linear Digital (.WAV)			
	Supported Sampling Rate	At least 32/44.1/48 KHz, selectable			
	Supported Bit Resolution	16 bits			
	Power	(a) Internal Battery AA or AAA			
		(b) Internal Chargeable battery along with charger			
		(c) (a) and (b) both			

## 8 PORTABLE SOLID STATE FIELD RECORDER

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
iii	Input	(a) With a built-in /externally attached Stereo microphone			
		(b) Provision for connecting external microphone			
		(c) Provision for line input			
iv	Output	Connectivity through USB 2.0 to Audio Workstation for Data Transfer			
v	Monitoring:	Provision for headphone monitoring			
vi	Measurements	a). Frequency Response at Nominal input and output levels w.r.t. 1 KHz and from 50 Hz to 15 kHz : within $\pm 3$ dB			
		b).THD + Noise at -60 dBu input level and 0 dBu output level (50 Hz.to 15 kHz.) : $\approx 0.3$ %			
vii	Weight	Total weight of recorder including batteries should be less than 500 grams (excluding carrying case of equipment)			
viii	Dimension	The recorder should have compact body and its overall dimensions should be such that it can easily be held in palm or pocket by the recording personnel.			
ix	Climatic Conditions	The unit should be designed to work satisfactorily and meet all the specifications in climatic conditions as existing in India.			

## 9 HEADPHONES

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
i	<b>ELECTRICAL SPECIFICATIONS</b>				
	Frequency Range	20- 22000 Hz			
	Electrical impedance	Less than 75 ohms/Channel			
	Sensitivity at 1Khz	100 dB SPL at 1mW input			
	Max Power handling capacity	100 mW			
	Total harmonic distortion	0.5% at max. permissible input level			
ii	<b>MECHANICAL REQUIREMENTS</b>				
	Headphone Diaphragm material	: Hard polyvinyl chloride or similar			
	Ear-pads Material	Leatherette and velvet			
	Sound coupling to ear/Transducer	Circum- aural/super aural			
	Average pressure on ears	Max 4/6 N			
	Cord Length (may be detachable)	At least 5 Meter			
	Phone Plug	Gold plated stereo mini jack (3.5 mm) with gold plated screw-on adaptor (3.5 mm to 6.35 mm)			

	Head-strap	adjustable			
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**10 PERSONAL COMPUTERS**

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
I	Processor	Intel Core i3 Processor, 2.93 GHz, 2 MB Cache, 800 MHz,			
ii	RAM	2 GB DDR2-RAM,			

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
10	PERSONAL COMPUTERS				
iii	HDD	500 GB SATA Hard Disk Drive, Double layer DVD Drive,			
iv	Peripheral Devices	Minimum 18.5" TFT screen, Multimedia Keyboard, USB 2-button Optical Mouse, 2 Nos. Speakers,			
v	I/O Ports	6 USB 2.0 port (2 front, 4 Rear), 10/100 LAN, PCI slots,			
vi	Operating System	Genuine & licensed operating system (to be specified by applicant).			

**11 SOUND CARD**

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
i	Sample rates (kHz):	44.1/ 48/88.2/ 96/ 176.4/192			
ii	<b>MAIN INPUTS</b>				
	Maximum input	: +14.0dBu (+4 dBu setting), +6 dBV (Consumer Setting), 0dBV (-10 DBV setting)			
	Dynamic range	99 dB @ (A-weighted)			
	THD + N:	: Less than 0.0024%, (at 0 dBFS)			
	Frequency response	20Hz to 20kHz ± 0.3dB			
	Impedance	10k Ohms minimum			
iii	<b>MAIN OUTPUTS</b>				
	Maximum output:	: +14.0dBu (+4 dBu setting), +6 dBV (Consumer Setting), 0dBV (-10 DBV setting)			
	Dynamic range	103dB (A-weighted)			
	THD + N:	Less than 0.0015%, (at 0 dBFS)			
	Frequency response:	20Hz to 20kHz, ± 0.3dB			
	Impedance (unbalanced):	150 Ohms			

**12 UPS & BATTERY**

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
i	<b>OUTPUT</b>				
	Capacity	3 KVA single phase/3 phase			
	Output Voltage	230 (default) 220,240 VAC (User Selectable Single Phase)			
	Output Voltage Regulation Typical	+/- 1% Static, 5% Dynamic			
	Output Connections	(6) ICE C13			
	Efficiency at full load, Nominal Line	91%			
	Output FREQUENCY (Sync to Mains)	50 Hz, +/- 3 Hz			

Bypass	Automatic / Manual			
Overload Capacity	105% + infinite			
	125% + 1 Min			
	150% + 30 Seconds			
Output Voltage Distortion	< 3 % for Linear Load, < 5% for Non-Linear Loads			
Crest Factor	03:01			
Heat Dissipation (Watts) Nominal line	192			

## 12 UPS & BATTERY

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
<b>ii INPUT</b>					
	Nominal Input Voltage	220,230 (default), 240 VAC single phase			
	Input Frequency	45-65 Hz Auto-Selecting			
	3 Input Connection	IEC-C20			
	Input Voltage Range	160-280 VAC (at full load), 100-280 VAC			
	Input Power Factor	>0.95			
<b>iii BATTERIES</b>					
	Battery Type	Maintenance Free, Sealed, 5 Year Typical life time,			
	Recharge Time to 90 % Capacity	< 3 Hours			
	Back up Time	30 Mins			
	Battery Rack	To be Provided			
<b>iv</b>	Temperature	from -5 Deg C to + 45 Deg C			

## 13 PHONE-IN-UNIT

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
i	Dimension	19" Rack mountable base unit			
ii	Telephone Lines :	2 or more PSTN or GSM interface			
iii	PSTN Line Interface	Standard			
<b>iv LINE INPUT ("Telephone Transmit To Caller")</b>					
	Analogue :	Balanced on XLR connectors			
	Level :	0 dBu (Nominal) & 10 dBu maximum			
	Impedance :	≥ 5 k Ohm			
<b>v LINE OUTPUT ("Telephone Receive From caller")</b>					
	Analogue :	Balanced on XLR connectors			
	Level :	0 dBu (Nominal) & 10 dBu maximum			
	Impedance :	≤ 200 ohms			
vi	Isolation between send & Receive	> 50 dB			
vii	Digital Signal Processing :	With in-build DSP (20 bit or better)			
<b>viii AUDIO PERFORMANCE (On both Receive &amp; Transmit Ckt )</b>					
	Frequency response	250 Hz – 3500 Hz, ± 1 dB			
	THD + N :	<0.2%			
	Signal to Noise Ratio :	> 55 dB			
ix	Power Supply :	230 V± 5% AC 50±2 Hz , Single Phase supply			

## 14 BROADCAST AUDIO PROCESSOR

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
<b>i ANALOG AUDIO INPUT</b>					
	Configuration:	Left and Right/ Stereo			

Nominal Input Level:	Software adjustable from -4.0 to +12.0dBu			
Maximum Input Level:	+24 dBu (impedance > 10k )			
A/D Conversion	Minimum 24 Bit			
Connectors:	Balanced XLR Female, EMI Suppressed.			

**ii ANALOG AUDIO OUTPUT**

Configuration:	Left and Right/ Stereo. Flat or pre-emphasized (at 50µs or 75 µs) software selectable.			
Output Level(100% peak modulation)	Adjustable from -6.0 to +20 dBu software adjustable.			
Signal to Noise:	80 Dbunweighted (20Hz to 15 kHz )			

**14 BROADCAST AUDIO PROCESSOR**

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
<b>ii ANALOG AUDIO OUTPUT</b>					
	Distortion (20Hz to 15 kHz)	= 0.02% THD.			
	Cross Talk:	cross talk -70.0 dB (20 z to 15 kHz)			
	D/A Conversion:	Minimum 24 Bit			
	Connectors	Balanced XLR Male, EMI Suppressed.			
<b>iii REMOTE COMPUTER INTERFACE</b>					
		TCP/IP Protocol			
		Connectors: RS-232 Port or RJ-45, EMI Suppressed			
<b>iv POWER</b>					
	Voltage	230 Volts AC ± 5%, 50Hz ±2%			
	Connector:	IEC, EMI Suppressed, detachable 3-wire power chord.			
	Safety Standards:	UL, CE.			
<b>v ENVIRONMENTAL</b>					
	Operating Temperature:	0 to 50			
	Relative Humidity:	Up to 95% Non Condensing			
<b>vi</b>	Working Altitude:	Up to 3000 Mts. Above mean sea level.			
<b>vii PHYSICAL</b>					
	Dimensions:	To fit in Standard 19" Rack. Width, Height & Depth to be specified by vendor.			
	Weight:	To be specified by the vendor			

**15 DUMMY LOAD**

SI No	DESCRIPTION OF EQUIPMENT	SPECIFICATIONS AS PER GUIDELINES	COMPLIED		DEVIATION OR ADDITIONAL INFO
			YES	NO	
18	Dummy Load	Dummy Load of 50 Watts, matching transmitter specifications.			

## CHAPTER 5: TENDERING PROCESS

1. The tender document and terms and conditions can be downloaded from our website [www.nitt.edu](http://www.nitt.edu).
2. Through two separate Demand Drafts, the bidder is required to furnish Earnest Money Deposit (EMD) Rupees (18,000 Rupees in figure) and (eighteen thousand rupees only) and Cost of Tender Document (Rs.150 Rupees in figure) and (One hundred and fifty rupees only).
3. **Without EMD and Cost of Tender Document, the technical bid will not be opened and the tender will be rejected summarily.**
4. **The sealed tender should be submitted on or before Monday 31<sup>st</sup> August 2015 upto 3.00 P.M through post or hand delivery and addressed to the Director, National Institute of Technology, Thuvakkudi, Tiruchirappalli-15, Tamil Nadu, India.**
5. At the first stage, the envelope containing EMD amount and Cost of Tender document will be opened and at the second stage the envelope containing Technical Bid will be opened **on Monday 31<sup>st</sup> August 2015 at 3.30 P.M** in the presence of the bidders or their authorized representatives, who choose to be present at the time of opening.
6. At the time opening of Tender opening, the name of those who have submitted their offers along with the details of their remittance of EMD and Cost of Tender Document will only be read out and no other information/ details whatsoever will be shared at this stage.
7. If in any case, unscheduled holiday occurs on prescribed closing/ opening date, the next working day shall be the prescribed date of closing/ opening.
8. At the third stage, price bid of the technically acceptable offers will be opened for further evaluation and ranking for award of the contract/ purchase order.
9. The bidders are advised to go through the tender documents and understand the terms and conditions specified therein before submitting the tender. **10. The Tender document consisting of Technical Bid (along with all annexures to the technical bid) and Price Bid should be submitted in the Prescribed Format only.****11.** The bidders are not allowed to make addition or alteration in the tender document. **12.** Each and every page of the submitted bid shall carry the page numbers. **13.** All pages of the tender document shall be signed by the person or persons duly authorized to sign, on behalf of the bidder. **14.** No paper / page shall be detached from the tender document. No addition or alternation should be made in the tender document. Conditional tender, late and delayed tender will not be accepted/ considered. **15.** Printed condition at the back of the letter or bid from the tenderer will be ignored. If it is desired to apply any particular condition to tender, the must be clearly brought out in the body of the bid/ tender itself. **16.** The NITT shall not be responsible for any postal delay in receipt of the offer. Tender should be properly sealed. **17.** The NITT will not be responsible for pre mature opening of the tenders. **18.** The offers submitted by telex/telegram/fax/E-mail etc. shall not be accepted and will be summarily rejected. **19.** The Vendor should stamp and sign on each page of the technical and price bid. **20.** Offers should be clearly written or typed without any cutting or over writing. All cutting / over writing must be initialed and stamped. **21.** Bidders must confirm the acceptance of all the terms and conditions of the tender. **22.** Making misleading or false representation in the bid document will lead to disqualification of the bidder resulting in forfeiture of EMD amount. **23.** The tender should be submitted through Registered Post or Speed Post or through Hand delivery. **24.** Any non-acceptance or deviations from the terms and conditions must be CLEARLY mentioned. However, bidder must note that any conditional offer or any deviation from the terms and conditions of this tender may render the bids liable for rejection. **25. Earnest Money Deposit (EMD):** The Tenders/ Bids must be accompanied by Earnest Money Deposit. Tenders without EMD will not be entertained. The bidders who are registered with National Small Industries Corporation (NSIC) are exempted from EMD and tender. However, for claiming this exemption, the bidders MUST furnish an attested copy of the exemption certificate indicating Date of registration, date till registration is valid, whether registered for items for which tender has been submitted. The EMD shall be in the form of Demand Draft Drawn, in favour of the Director, National Institute of Technology, Tiruchirappalli payable at Tiruchirappalli. The EMD of all the unsuccessful bidders will be returned to them at the earliest after issue of purchase order. The EMD of successful bidder shall be returned on receipt of Performance Bank Guarantee. No interest will be payable by the NITT on the EMD amount.

## CHAPTER 6: SPECIAL INSTRUCTIONS TO THE BIDDERS

**Procedure for sealing and marking of bids:**The Tender / Bid Cover shall contain the following:

- a) **FIRST** envelope should contain the Earnest Money Deposit and Cost of Tender Document. The envelope should be sealed and super scribed as "EMD COVER"
- b) **SECOND** envelope should contain the Technical Bid along with enclosures desired in the Tender document. This envelope should be sealed and super scribed as "TECHNICAL BID" Cover.
- c) **THIRD** envelope should contain the Price Bid. This envelope should be sealed and super scribed as "PRICE BID" Cover.
- d) All the above mentioned THREE SEPARATE ENVELOPES are to be sealed and kept in one single Larger size outer envelope (**FOURTH** envelope) which should also be sealed and super scribed.
- e) **Each of the FOUR ENVELOPES** shall be super scribed with following details:

Tender reference Number .....for supply of .....
Due date of tender .....and time .....
Name of the Tender Inviting Department NITT .....
Name and Complete address of the Bidder .....

- f) If all the THREE inner envelopes and the ONE outer envelope (i.e., larger envelope) are not sealed and marked as instructed, NITT will assume no responsibility for the misplacement or premature opening of any of the envelope. An envelope opened prematurely will be rejected.
- g) There shall NOT be any price indication in the technical bid. If for any reason, it is found that the technical bid reveals the price bid related details in any manner whatsoever, or, the price bid is enclosed in the envelope super scribed, "Technical Bid", the bid document will be summarily rejected in the first instance itself. Any offer containing both the Technical bid and Price bids in the same envelop will also be out rightly rejected.

## CHAPTER 7: TERMS AND CONDITIONS FOR PURCHASE

**Eligibility:** The Bidder must be an Original Equipment Manufacturer (OEM) or his Authorized Dealer/ Authorized Distributor/ Authorized Stockiest/ Channel Partner having a Direct Purchase and Support agreement with the OEM. In case, if the Bidder is a Dealer/ Distributor, A valid **LETTER OF AUTHORIZATION** from the Original Equipment Manufacturer for Dealership, Distributorship or for channel partnership must be attached in original, with technical bid, without which the offer will not be considered.

In respect of High Value procurements the following criteria may be applied at the discretion of the NITT: The bidder should have executed (i) three similar works, each of value not less than 40% of the estimated cost put to tender or (ii) Two similar works, each of value not less than 50% of the estimated cost, or (iii) one similar work of value not less than 80% of the estimated cost, during the last 7 years ending on the last day of the month previous to the one in which the tenders are invited.

## Technical

**Specifications** are basic essence of the product. It must be ensured that the offers are strictly as per our specifications. At the same time it must also be kept in mind that merely copying our specifications in their quotations shall not make the bidder eligible for consideration. The specifications mentioned in the quotation have to be supported with the printed catalogue/leaflet / standard technical literature/ broacher for each of the item offered. Model quoted / tendered specifications should invariably be highlighted in the leaflet/literature for our easy reference.

**Rates:** Rates for Indigenous items must be on **DOOR DELIVERY** Basis, which should be **inclusive** of all taxes, duties and levies. The break up may be given as given below: Basic Price (+) Central Excise Duty (+) VAT/ CST, if any (+) Freight and Transit Insurance Charge, if any (+) Installation and Commissioning Charge, if any (+) Any other charges, if any Grand Total on Door Delivery Basis at NIT, Tiruchirappalli (i.e., F.O.R Destination basis)

- The price quoted shall be firm and fixed. The rate should be quoted both in figures and words.
- Where the equipment is composed of several items/ sub units / components, the rate should be clearly indicated for each of the item/ sub unit/ component.
- Prices of each of the additional, optional accessories should be indicated SEPARATELY. The spare parts/ wear & tear, consumables, if any required for trouble free operation of equipment shall be quoted separately giving full nomenclature, rate, quantity and shelf life of each item.
- All applicable taxes, duties etc., should be clearly and separately mentioned in the Price bid.
- Charges for additional warranty beyond the free warranty period, should be quoted separately.

**DGS&D rate contract:** If any of the items proposed to be procured under this tender is already under DGS&D (Director General of Supplies and Disposal) Rate Contract, the bidder may give us the advantage of rate contract rate, as ours is a premier educational and research institution sponsored by the Government.

**Validity of the Offer:** For Indigenous Purchase the offer should be valid for 90 days and for Foreign Purchase it should be valid for 120 days.

Name and contact details of the premier educational institutes/ government organizations where the quoted item/ equipment has been supplied/ installed during the last three years should be attached with the Proforma for Technical Bid.

**EXEMPTION FROM EXCISE DUTY AND CUSTOMS DUTY:** The NITT is exempted from paying Central Excise Duty and eligible for Concessional Rate of Customs Duty. Wherever required/ applicable, we shall provide exemption certificate issued by Government of India to enable the vendor to clear the goods without payment of Excise Duty or Clearance of Imports at Concessional Rate of Customs Duty. Present rate of Customs Duty is 5 Basic Customs Duty, 2% Educational Cess on Basic Customs Duty, 1% Higher Education Cess on Education Cess. In addition, wherever applicable Special Additional Duty (SAD) will also be paid at the rate of 4%.

**Sales Tax:** For Sales Tax Concession, NITT is not authorized to issue C or D Form Sales Tax Certificate. The Bidder may Claim Sales tax at the legally Leviable rate. In respect of items

purchased for research and development purposes, TN VAT or Central Sales Tax may be charged at concessional rates as applicable to educational and research institutions run without profit motive, for which necessary End User Certificate, will be issued at the time of retirement of document. Further, the supplier may furnish the following certificate on the bill: "Certified that the goods on which Sales Tax has been charged have not been exempted under the Central Sales Tax (CST) or the State Sales Tax Act or the rules made thereunder and the amount charged on account of sales tax on these goods are not more than what is payable under the provisions of relevant act/ rules made thereunder."

**PAYMENT TERMS FOR INDIGENOUS PURCHASES:**

No advance payment will be made. No part payment will be made. For indigenous purchases, subject to the submission of Performance Bank Guarantee, full and final Payment will be made maximum within 30 days from the (a) date of delivery of the goods/ materials and acceptance of the same by the NITT or (b) supply, installation and successful commissioning of the equipment. If the vendor fails to furnish the Performance Bank Guarantee, an amount equal to 10% of the Purchase Order value will be withheld and the balance amount will be released. NITT shall not be responsible for any loss, damages and shortage during transit. Payment shall be made for materials received in good condition only. Payment will be generally through Electronics Transfer of Funds (EFT) system for which the successful bidder has to furnish the following information: Name of the bank with branch where the accounts exist, Bank Account Number, IFSC Code etc.,

**Warranty/ Guarantee:**

Nature and maximum period of free warranty offered by the vendor should be clearly indicated.

The equipment must be warranted against all manufacturing defects for a minimum one year or as per standard warranty/ guarantee of the bidder, whichever is more from the date of satisfactory Supply, installation and commissioning.

In case, a part thereof or the whole equipment is found defective the same will have to rectified / replaced on free of charge basis without lapse of time.

The equipment shall be unused, brand new, calibrated and supplied along with the calibration certificate. In addition to the quoting for the equipment, the bidders are also requested to quote separately, the charges for a period of 2 years Annual Maintenance Contract after expiry of FREE WARRANTY period. It may be noted that AMC charges shall be considered along with cost of equipment for the financial evaluation of the Tender.

However, NIT, Tiruchy reserves the right to opt for AMC for maintenance of the equipment after the expiry of free warranty period.

**PERFORMANCE BANK GUARANTEE (PBG):** As Performance Security, the successful bidder shall furnish an unconditional Performance Bank Guarantee (PBG) from a Nationalized Bank or scheduled commercial bank for an amount equal to 10% of the Purchase order value within 21 days from the date of Purchase Order and it should be kept valid for a period of 60 days beyond the completion of the Warranty Period. The PBG shall be furnished in the Format specified by NITT. The PBG shall remain valid for a period of 60 days beyond the date of completion of all contractual obligation of the supplier including the warranty obligation.

More importantly, the PBG shall be sent by the Bank concerned directly to the Tender inviting Faculty at NIT, Tiruchirappalli.



**Delivery Schedule:** Unless otherwise specified, delivery of goods at NITT will have to be made within 45 days from the date of receipt of the Purchase Order or as stipulated in the Purchase Order. All aspects of safe delivery shall be exclusive responsibility of the vendor. Part supply/ delivery is normally not acceptable, but may be allowed on genuine cases, on written request only. The acceptance of the equipment shall be based on (a) successful demonstration of the system (ii) satisfactory working of the equipment after successful commissioning as tested by concerned faculty of NIT, Tiruchy.

**Liquidated Damages for delayed supply:** If the successful bidder fails to perform the supply or supply, installation and commissioning, within the stipulated time then penalty at the rate of 1% per week subject to a maximum of 10% of the order value will be levied and deducted.

**Purchasers' Right:** Notwithstanding anything specified in this tender document, The Director, NITT, in his sole discretion, unconditionally and without assigning any reasons, reserve the rights (a) To accept or reject the lowest tender or any other tender or all the tenders, at any time prior to the award of the tender, without incurring any liability to the affected tenderer or tenderers (b) To accept any tender in full or in part (c) To reject the tender offer not confirming to the tender terms (d) To give purchase preference to Public Sector Undertaking wherever applicable as per Govt. Policy/ Guidelines.

**No enquiry shall be made by the bidder(s) during the course of evaluation of the tender** till final decision is conveyed to the successful bidder. However, the Purchase Committee or its authorized representative can make any enquiry/seek clarification from the bidders. In such a situation, the bidder shall extend full co-operation. Any effort by the bidder to influence the scrutiny / evaluation committee of NITT or any of its members in the processing of tenders or award decisions may result in the rejection of the tender.

**Black listing:** The bidder should not have been blacklisted or debarred from participating in tenders in any State/ Central Government agencies or autonomous bodies or Universities / Educational Institutions.

**Supervision of Erection and Commissioning:** Successful bidder shall depute concerned specialist, for supervision of Erection and Commissioning of the machine to be carried out as and when necessary. It is specifically instructed that the bidders will supply all the operating and service manuals and circuit diagrams along with the equipment.

**Arbitration:** Dispute, if any, arising out of the supply of the Items shall be settled by Arbitration by SOLE Arbitrator to be nominated by the Director, NITT as per the provisions of Indian Arbitration Act 1996. The Place of Arbitration shall be Tiruchirappalli, Tamil Nadu. The decision of the Arbitrator shall be final and binding on both the parties.

**Applicable law, Dispute and Jurisdiction:** Legal disputes if any, in connection with this tender/ procurement/ contract, are subject to exclusive jurisdiction of Competent Court in Tiruchirappalli, (Tamil Nadu, India) ONLY.

**Force Majeure:** Any delay due to Force Majeure will not be attributable to the Vendor.

## CHAPTER 8: PROFORMA FOR TECHNICAL BID

	Item/ Requirement from the Bidder	Bidders Response should be definite		
1	Particulars of remittance of EMD: Specify (a) DD Number (b) Amount (c) Issuing Banker			
2	Particulars of remittance of Cost of Tender Document Specify (a) DD Number (b) Amount (c) Issuing Banker			
3	Name and Complete Postal address of the Applicant or Bidder Firm/ Company with phone/ Fax/ Mobile number			
4	Website Address, if any, of the Bidder firm / company			
	Legal status / Constitution of the Bidder in INDIA : (a) Sole Proprietor (b) Partnership (c) Private Limited (d) Public Limited (e) others			
5	Registration particulars for Establishment / Incorporation of the Bidder as Partnership firm/Private Limited Company/ Public limited Company etc., (Please Attach documentary evidence – Certificate of Registration or similar document)	Authority	Registration Number	Place, date and Year of registration/ incorporation
6	Organization structure and Composition of the team which will remain associated with the proposed project			
7	A write up regarding experience of setting up Community Radio Stations (not more than two pages)			
8	Approach paper not exceeding 1500 words (To be enclosed)			
9	Valid Trade License issued by Competent Authority (Attach Documentary proof)			
10	If the bidder is an authorized dealer/ distributor/ stockiest, whether authorization letter from the Original Equipment Manufacturer is attached? (Note: Without this authorization letter, the bid will not be considered)			
11	Details/ Profile of the Products your firm/ company is dealing with			
12	(a) Name, (b) address ,(c) designation, (d) phone & cell number and (e) E mail ID of the Contact person of the applicant/ bidder			
13	Income Tax Permanent Account Number (PAN Number) (Attach self-attested Xerox copy)			
14	Annual Turnover during the Last three financial years 2011-12, 2012-13 and 2013-14 (Profit and Loss Account and Balance sheet duly audited and certified by a Chartered Accountant and Income Tax Return i.e., ITR for the last three years must be attached)			

15	Latest Income Tax Assessment Completion Certificate/ Income tax clearance certificate and Sales Tax Clearance Certificate (In the event of assessment of the recent previous year having not been completed the certificate of the latest assessment completed may be enclosed) (Proof to be attached)				
16	VAT/ TIN number (Proof to be attached)				
17	Valid VAT clearance certificate(In the event of assessment of the recent previous year having not been completed the certificate of the latest assessment completed may be enclosed) (Proof to be attached)				
18	Central Sales Tax (CST) Number (Proof may be attached)				
19	Service Tax Registration Number, (Attach self-attested copy)				
20	If the bidder even been blacklisted by any Government/ PSU/ University/ Autonomous bodies? Please give details and reasons thereof. If black listed and Revoked give details of the same. (Note: An affidavit on Non Judicial stamp paper has to be submitted by the bidder to the effect they are not blacklisted, as on date).				
21	Details regarding experience of setting up Community Radio Stations along with supporting documents (Note: One row may be used for one project. Additional columns may be added to furnish any additional relevant information. Work orders and other documentary proof for having executed similar Community Radio station must invariably be enclosed along with the technical bid).				
	Sr. No.	Name of the CRS Set up	Place / Location	Period of work Date Month year	Any other relevant details
22	Whether "SCHEDULE OF DEPARTURE" from technical Specifications furnished along with the Technical Bid?			THIS HAS TO BE FURNISHED IN THE TECHNICAL SPECIFICATION FORMAT. DEVIATION, IF ANY, SHOULD BE MENTIONED EXPLICITLY. If necessary use additional papers.	
23	Interested firms/ Companies may furnish additional information which is thought necessary to establish capabilities to successfully complete the envisaged work. They are however advised not to furnish superfluous information.				

DECLARATION BY THE BIDDER

1. It is hereby declared that I/ we the undersigned, have carefully read and understood the terms and conditions of the tender document and it is certified that all the terms and conditions of the tender are acceptable to me/ us and I/ we will abide by the conditions.
2. The information / documents furnished along with our technical bid are true and authentic to the best of my/ our knowledge and belief. I/ we hereby declare that our proposal is made in good faith, without collusion and fraud. No forged / tampered documents are produced with the tender form for gaining unlawful advantage. We understand that NIT, Tiruchy is authorized to make enquiry to establish the facts claimed and obtain confidential reports from clients.
3. I/ We / am/ are well aware of the fact that furnishing of any false information/ fabricated document would lead to rejection of our tender at any stage besides liabilities towards prosecution under appropriate law.
4. We understand that NIT, Tiruchy is not bound to accept the lowest or any bid that NIT may receive.
5. Neither I/ We, nor anybody on my/ our behalf will indulge in any corrupt activities/ practices in my / our dealing with the NIT, Tiruchy.
6. Each page of the tender document and papers submitted by me/ us is authenticated, sealed and signed and I/ We take full responsibility for the entire documents. I/ We certify that the tender has been submitted in Official Tender Format only and no addition / modification / alteration has been made in the original tender document.

Authorized signatory of Bidder with Seal  
Name.....  
Designation.....

## CHAPTER 9: PRICE BID FORMAT

Tender No. & Date:

Name of the Bidder:

S. No.	Description of the item to be procured	Unit	Quantity	Basic Price in Rupees (Excluding all taxes and duties)	Excise Duty %	VAT/ CST in %	Service Tax in %	Total Amount in Rupees (Inclusive of all taxes and duties)
1	<b>Supply Portion/ Main item</b> (under the letter head of the bidder Individual Item wise break price shall be attached as an Annexure to this price bid )							
2	<b>Additional / Optional items/ Accessories and Spares etc.</b> ,(Individual Item wise break price shall be attached as an Annexure to this price bid)							
3	Installation and Commissioning Charges, if any							
4.	Packing and Forwarding Charges, if any							
5.	Freight and Transit Insurance Charges, if any							
6.	Any other charges, if any							
7.	<b>TOTAL ALL INCLUSIVE PRICE (Supplied or Supplied, installed and commissioned at NITT on door delivery basis. (i.e., F.O.R. Destination Basis)</b>							
8	<b>QUOTE FOR POST WARRANTY (Additional Warranty beyond the free warranty period):</b> For Equipment supply, the bidder should clearly indicate the AMC Rate, for two years period, after the expiry of Warranty period, in non-comprehensive terms (does not include cost of spares). Failure to which the offer may NOT be considered even it turns out to be at the lowest price. The tender will be evaluated on Landed Cost + AMC rate for 2 years. However, NIT, Tiruchy reserves the right to opt or otherwise for AMC, for maintenance of the equipment after the free warranty period.							

### **Authorized signatory of Bidder with Seal**

Note 1: NITT is eligible for exemption from Excise Duty and Concessional Customs Duty. Please refer the tender document. As regards Service tax, educational auxiliary services are exempt from Service Tax. As regards, sales tax NITT is not authorized to issue C or D forms for concessional VAT. However, it can issue end user certificate for claiming concessional VAT. Note 2: Price bid Format should be supported with separate sheet duly typed and signed on the letter head of the bidding firm/ company indicating details i.e., different components/ parts/ units of the equipment (if any) with number, name and price of each part.