Memo No.CMU- 224/2005/110 (7)   **Date 21.11.2017**

<u>NOTICE INVITING TENDER</u>

Sealed quotations are hereby invited from reputed and reliable distributors of renowned manufacturers for supply and installation of 1 (One) No. **EPABX System**

Sl. No	Item	Quantity No.	Unit Rate Rs.	Amount Rs.	Place of supply and installation
1.	Supplying and installation of EPABX System (As per enclosed Specification)	1 No. (One)	Both in figure & Words	Both in figure & Words	**ILGUS BHAVAN**

The quoted rate shall be inclusive of all taxes & duties, delivery, fitting and installation charges. The warranty period of the machine should be mentioned in the quotation.

For distributors, Letter of Authorization (MAF) from the manufactures and also a Tender Specific Authorization for this tender will have to be produced along with the quotation.

The bidder must submit the self attested copy of their Trade License, GST Registration Certificate & PAN Card along with the offer.

If the supply cannot be made within the specified period, a penalty @ 2% of the total value will be imposed upon the Agency upto 7(Seven) days for the extended period of supply. In case of failure to supply even within the extended period of 7 days, the order will be cancelled automatically without any further reference to this effect.

The sealed quotations should reach the office of Change Management Unit, ILGUS Bhavan, HC Block , Salt Lake, Kolkata 700106 within **2.00 PM** on **04.12.2017** and will be opened on the same date at **2.30** PM in presence of the quotationers.

The undersigned reserves the right to accept or reject any or all the quotations without assigning any reasons therefor.

Enclo. As stated.

Project Director, CMU

Specification for EPABX System Feature Compliance with configuration of 12 P&T and 64 Extns.

Features Desired	Compliance (Y / N)	Remarks
Main EPABX equipment with following hardware to cater:		
The Electronic Private Automatic Branch Exchange system shall be minimum 32 bit microprocessor controlled system. The equipment is to be ISDN, IP & SIP compatible making full use of IP and ISDN services being offered. The EPABX system should be fully digital switching system using time division using time division multiplexing/pulse code modulation with 100% non-blocking architecture.		
The product shall be offered from an internationally recognized EPABX brand (supporting analog, digital, IP and SIP on both the trunk as well as station side)		
The EPABX (all telephones and equipment) must comply with the local telephone authorities' requirements		
Should be configured for 12 P & T Trunk lines with provision of expandability up to 48 lines		
Should be compatible to support ISDN PRI lines		
64 Extensions lines with provision of expandability up to 128 lines		
2 Port Auto Attendant (enabled from day one)		
2 Port Voice Mail with 20 Mail Box, 2 Hrs recording (enabled from day one)		
Should support Stand Alone Operator Console		
Required capacity MDF with expandability to be supported		
Main Chassis should support Power Supply backup externally through UPS mechanism		
The EPABX shall be a standards based open-distributed communication server, and incorporate processor based, stored program controlled, non-blocking, time division and packet switching system. It should also support Stored Programme control for control mechanism		
System uses single Codec per line.		
System should use flash ROM based memory.		
Should support Extension voltage: 24-48 V DC. System works on 230 volts AC .		
The system hardware shall feature a modular, integrated and interactive design with reliable plug-in modules in any slot for simple installation, expansion and maintenance.		
The system should support calling line identification name and number on all possible trunk and extension types		
Direct Inward Dialling to be supported		

Remote Programming to be supported		
Walk-in Class of Service to be supported		
Call Barring to be supported		
Global Memory & Personal Memory to be supported		
VOICE MESSAGING should be supported		
INTERNAL MUSIC ON HOLD to be supported		
The operator console should support		
• Relevant information of the called party		
• Status of the extension being called ie. Busy on an internal call, busy on an external call, free etc..		
• Status of hunt groups		
• Status of trunk groups		
• Status of Trunk lines		
• Overriding call forwarding or DND activated on any extension		
Incoming Calls with Priority		
• Priority Call Routing to Attendant		
• Priority Call Routing to Night Answer		
• Priority Call Routing to Directory Number		
• Multiple Camp-on Circuits		
• Call Pick-up		
EPABX shall support basic telephone features e.g.		
• Broker Call – It should be possible during a consultation call by User A for User A to take User C into conversation and return to User B and vice versa multiple times		
• Transfer		
• Camp on a Busy Phone		
• Non Answered Calls – a list of external or internal non answered calls should be displayed		
• Automatic Call-back on Busy Phones		
• Call Forward		
• Night Call Forward		
• Unconditional Forwarding		
• Immediate Forwarding on Busy		
• Forwarding on no Answer		
• Forwarding on no Answer and Immediate Forwarding on Busy		

• Barge-in (Intrusion) – Depending on the caller's rights, one should be able to intrude on a conversation if one is trying to call a busy extension.		
• Call Park/Call Park Retrieval - A user should be able to put an external caller on hold for retrieval at a later time from another phone.		
• Lock/Unlock - Users should be able to temporarily prevent outgoing calls from their phone.		
• Do Not Disturb - A user should be able to temporarily stop all incoming calls, except those coming from the attendant		
• Speed Dialing to be supported		
• Call Pick-up – It should be possible to pick up a colleague's ringing phone call from one's own phone		
CLI based (FSK&DTMF) Analog extension port:64 (System has analog extension with 16/24 circuits per card.)		
CLI based (FSK&DTMF) based analog CO Trunks with 6 circuits per card.		
Dialing: decadic: pulse rate:10 PPS, Make break ratio-1-2,inter digit time-650 Msec. DTMF :As per CCITT Q23.		
Digital and Analog extensions should work upto 500 and 1000 meters distance respectively over 0.5 mm dia copper telephone cable.		
System supports digital and analog telephones.		
System administration: Through Digital telephone and local PC through Ethernet/Serial port(OS of PC-WINDOWS XP/Vista)		
Programmable incoming ring option.		
Programmable flash timing.		
Programmable System Tones: Facility to change dial tone, ringing tone, call waiting tone, override tone etc..		
Distinctive Ringing: Different ring tones for Internal, External and call back.		
Flexible numbering plan.		
Automatic call back(camp on)		
Barge-in: with Tone, Monitor.		
Call forwarding.(all, busy, no answer)		
Call park.		
Call pick-up		
Call Waiting		
Do not disturb.		
One touch dialing.		
Future expandability of system is possible by addition of trunk& line card,without any addition/modification of system hardware/software.		
All extensions (digital & analog) work on single pair 0.5 mm dia copper telephone cable.		

The system supports high quality speech through all analog trunk lines from telephone lines of different providers.		
System is able to connect to extension ports of other EPABX on to trunk circuit.		
The system is capable of working in a suitable ventilated non aircondition environment.		
Inbuilt conference facility 08 parties.(internal & external)		
System programming call landing at a particular trunk port can be accessed from a particular extension/group of extensions for making outgoing calls.		
Extensions should support Krone type MDF.		
Proposed EPABX can be mounted on the rack or wall mounted.		
Warranty: Minimum one year (manufacturer's warranty on all components and labour with one years on site support)		
Product Make: Please specify		
Prduct Model No. and Part No.: Please specify		

Functional & Technical Features of Digital Key Telephones.

Features Desired	Compliance (Y / N)	Remarks
Automatic call back.		
Call Forwarding.		
Consultation hold.		
Do not disturb.		
Barge-in.		
Call pick up.		
Conference call.		
CLI:DTMF & FSK(both name & number display)		
Speed dialing.		

PRICE FOR THE SYSTEMS AND OTHERS INCLUDING INSTALLATION, CONFIGURATION ,COMMISSIONING AND WARRANTY CHARGES

Matterials	Make/Model	Qty. Each	Price (Inclusive All Taxes & Duties)
EPABX System		1	
KTS System		1	
Push Bottom Telephone Hand Set		1	
IP Telephone Hand Set		1	
Installation, Commissioning, Configuration inclusive one year complete on site warranty charges		Total System LS	

Specification for CABLING & LAYING WORK

SUPPLY ITEMS	UNIT	RATE (Inclusive ALL Taxes & Duties)
10 Pair Cable	Per meter	
Cat 6 Cable	Per Meter	
20 Pair Cable	Per Mtr	
48 port patch Panel	Each Qty	
6 U Rack	Each Nos	
24 Port patch Panel	Each Nos	
12 port Junction Box	Each Nos	
Metal Box to cover Junction Box & 24 Port Patch Panel	Each Nos	
IO Box with dual face plate	Each Nos	
RJ 45 Patch Cable 1 meter length (Metal Plated)	Each Nos	
Cable laying charges in PVC conduits using saddles, clips, ties and other accessories. cabling would be required, some in over ground mode and some in underground mode) The Poles and other mounting accessories required for overhead cabling would have provided	Per Meter	