



**Electronics Corporation of Tamil Nadu Limited**

**Rate Contract  
Tender**

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**Supply, Installation and Commissioning of  
EPABX**

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**Tender Ref.**

ELCOT/PROC/OT/ 33198/EPABX (HC)/RC/ 2018-19

**Corrigendum No. 2 to the Tender Document**

## CORRIGENDUM TO THE TENDER DOCUMENT

The following Corrigendum to the Tender Document is hereby issued:-

S.N	Title of the clause	Existing	To be read as
1	Page No. 16 – Clause No.4- Eligibility Criteria – Section No. 4.1- Eligibility – Point No.6	The Bidder shall have executed Single order for supply, installation of EPABX System for a value of at least Rs. 10 Lakhs and above for any Government Departments / Organisations / Public Sector Undertakings in Tamil Nadu in the last 3 years	The Bidder shall have executed Single order for supply, installation of EPABX System for a value of at least Rs. 10 Lakhs and above for any Government Departments / Organisations / Public Sector Undertakings / reputed corporate sector companies (Public Ltd) in Tamil Nadu in the last 3 years
2	Page No. 17- Clause No. 5- Specification- 1.1 Feature with Specifications- Point No. 3	The System should be latest industry standard server processor based architecture. It should be a true IP based communication server supporting IP, Digital and Analog extensions and trunks.	It should be a true IP based communication system supporting IP, Digital and Analog extensions and trunks. The system should be capable of integration with redundant server (1+1) of Reputed make, for which the rates to be quoted separately as ADD on items
3	Page No. 17- Clause No. 5- Specification- 1.1 Feature with Specifications- Point No. 9	Communication server in the distributed architecture should provide fail-over feature, if primary system fails or disconnects, a secondary system should take over / control remaining sites.	IP EPABX should work individually and in the event of any link or connectivity failure the system should work in tandem to provide uninterrupted communication for full capacity (loaded). The IP EPABX Should provide Hot Redundancy of CPU and Power Supply. In an event of CPU or PSU failure the Redundant CPU and/or PSU card shall take over without any call drop of ongoing calls.
4	Page No. 17- Clause No. 5- Specification- 1.1 Feature with Specifications- Point No. 12	EPABX System should support 1152 ports and maximum of 20 PRIs.	EPABX System should support minimum 16 ports and Maximum 1152 ports with min 2 PRI and expandable up to 20 PRIs. The system should be modularly expandable with add on lines/cards /ports

5	Page No. 17- Clause No. 5- Specification- 1.1 Feature with Specifications- Point No. 13	The server should have in-skin auto attendant (64 recordable messages) to provide welcome message to 14 callers simultaneously and voice mail facility for 120 minutes as a common facility to all users. PC based and card based (occupying slots) auto attendant and additional voice mail not required, which can be included on need basis.	. The system should have in-built auto attendant (48 recordable messages) to provide welcome message to 10 callers simultaneously and voice mail facility for 60 minutes as a common facility to all users. PC based and card based (occupying slots) auto attendant and additional voice mail can be included on need basis.
6	Page No. 17- Clause No. 5- Specification- 1.1 Feature with Specifications- Point No. 19	The EPABX basic system should support Door Opener, Door Phone Audio/Video (Proprietary), External Sensors and Relay with maximum of 64 Units. It is possible to connect door phones directly to the PBX. When a visitor presses the call button on a door phone, the door phone calls a preprogrammed destination (extension or outside party). In addition, extension users can dial the preset number of a door phone to call that door phone.	The EPABX basic system should support Door Opener, Door Phone Audio/Video (Proprietary), External Sensors and Relay with maximum of 64 Units. It is possible to connect door phones directly to the PBX. When a visitor presses the call button on a door phone, the door phone calls a preprogrammed destination (extension or outside party). In addition, extension users can dial the preset number of a door phone to call that door phone.
7	Page No. 17- Clause No. 5- Specification- 1.4 Digital Phone Specifications:- Point No. 9	Should Support External Expansion (DXDP) Port.	Should Support External Expansion (DXDP) Port or equivalent technical solution. The price / rate should be quoted separately.
8	Page No. 17- Clause No. 5- Specification- 1.5 Features:- Point No. 22	Video Touch IP Phone with inbuilt Bluetooth and Link with 16 ch IP Camera's.	Video Touch IP Phone with inbuilt Bluetooth and Link with minimum 08ch IP Camera's and should be configurable for expansion (scale up)

9	Page No. 22- Clause No. 5- Specification- Item code: 33198-003- Trunk Card	Trunk card -16 port ana- log Trunk line per card	Trunk card 8/16 analog trunk line card/ports without compromising the capabilities of the main system.
10	Page No. 22- Clause No. 5- Specification- Item code: 33198-004- LC Card	Line Circuit Card 16/24 Port analog Extensions	Analog Extension card 16/24 lines/ports
11	Page No. 22- Clause No. 5- Specification- Item code: 33198-005- VOIP Card	Voice Call with DSP re- sources for Supporting 16/64Channels	Voice with DSP solution for min 16 and expandable upto 64 channels.
12	Page No. 23- Clause No. 5- Specification- Item code: 33198-007- IP Trunk Activation Key	Activation Key for VOIP Card	VOIP card channel activation key for 16 channels
13	Page No. 23- Clause No. 5- Spe- cification- Item code: 33198-009	Amphenol Connectors with Cable	Interface connector with cable for EPABX and MDF Box by Amphenol or equivalent
14	Page No. 23- Clause No. 5- Spe- cification- Item code: 33198-010- ISDN PRI Modem	Connecting ISDN PRI Line (Service provider BSNL)	Should supply PRI card with necessary suitable pair MODEMS for each location (BSNL) or other service provider as applicable
15	New Add on items added		9 Add on items added placed in Annexure -I
16	Page No. 85- An- nexure-3 - PRICE BID	33198- 001- EPABX (IP PBX) System	33198 – 001 - IP EPABX Cabinet with CPU +Power supply unit with all accessories excluding extension and Voip cards  33198 - 001A - Main system configured for 2PRI/8 Digital / 752 analog extensions/Voip card with 16 channel activation key / 12 SIP trunk activation key 33198 - 001B - Main system configured for 1

			PRI/8 Digital /440 analog extensions Voip card with 16 channel activation key/ 12 SIP trunk activation key
17	Newly added - Comprehensive Warranty Cost for 6th and 7th year for EPABX systems (total solution)		Enclosed as Annexure –III.

Note: (The above corrigendum is applicable to all other clauses which contains the respective terms in the tender document).

Annexure - I

Add on items

S.No.	New ADD on Items
1	5 Stage IPM suitable to connect with MDF for each line
2	Earthing (separate earthing for EPABX per location)
3	Video door phone - (The EPABX basic system should support Door Opener, Door Phone Audio/Video (Proprietary), External Sensors and Relay with minimum of 16 Units and expandable up to 64 units. It is possible to connect door phones internally or externally to PBX. When a visitor presses the call button on a door phone, the door phone calls a preprogrammed destination (extension or outside party). In addition, extension users can dial the preset number of a door phone to call that door phone.
4	PC based Operator Console with headsets
5	Operator console with DSS
6	Industry standard server suitable to handle all features of the quoted system as and when needed during the contract period with suitable rack (Specification attached in Annexure -II)
7	IP gateway card (VOIP card )for minimum 8 channel with activation key
8	IP gateway card VOIP card for minimum 16 channel with activation key
9	Onsite Manpower charges ( Engineering qualified (BE - ECE /EEE/CSE/IT and trained by the service provider) at Madras high court (The payment to onsite person is as per the contract payment structure and comply to statutory requirements) (year wise to be quoted)
	a) Onsite Manpower charges for 1 <sup>st</sup> year
	b) Onsite Manpower charges for 2 <sup>nd</sup> year
	c) Onsite Manpower charges for 3 <sup>rd</sup> year
	d) Onsite Manpower charges for 4 <sup>th</sup> year
	e) Onsite Manpower charges for 5 <sup>th</sup> year
	f) Onsite Manpower charges for 6 <sup>th</sup> year
	g) Onsite Manpower charges for 7 <sup>th</sup> year

## Annexure –II

**Industry Standard Rack server of reputed make, suitable for IP EPABX system  
for code no 33198-001/33198-001A/33198-001B (To support the full system)**

S.No.	Parameter	Description
1	Processor	Intel® Xeon® processor (Quad Core) or higher
2	Memory	8GB RAM or Higher (DDR4)
3	Hard Disk Drive	Hot-plug Hard Drives (2 x 500GB SAS HDD/SATA HDD)
4	Form Factor / Cabinet Type	2 U
5	Keyboard	Standard key board
6	CD/DVD Drive	DVD Writer
7	Network Interface	2 Ethernet Port or more, 1 VGA Port, 4 USB 2.0 Port or more
8	Features for server	<b>Detailed specification for industry standard Servers:</b> The call control system should be fully redundant solution without single point of failure and should provide 1:1 redundancy. This means if One Server fails the other redundant Server take over without any disconnection of ongoing calls and the secondary server also must have real time same class of service and applications as primary Server. The solution must also provide geographical redundancy by separating the servers over LAN/WAN. i.e. Also if the main server in the main data centre fails, the other server, which is installed at geographically different location over LAN/WAN should take over the entire communication network load. (without any manual intervention) and without dropping any existing calls (IP, TDM & PRI) or data (CDR, CTI) with the same class of Service/Features
9	Warranty	5 years warranty

Annexure- III

**Annexure – III – Category 1- Comprehensive Annual Maintenance Charges (Cost) for 6<sup>th</sup> and 7<sup>th</sup> year for EPABX System (Total solution)**

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- a) Comprehensive AMC in percentage for the 6<sup>th</sup> year = .....% + .....%GST
- b) Comprehensive AMC in percentage for the 7<sup>th</sup> year = ..... % + .....%GST
- c) Comprehensive AMC cost for the 6<sup>th</sup> year = Rs..... \* (% to be worked out on basic cost of the item/s) + .....%GST
- d) Comprehensive AMC cost for the 7<sup>th</sup> year = Rs..... \* (% to be worked out on basic cost of the item/s) + .....%GST

Note:

- a) Comprehensive AMC for 6<sup>th</sup> and 7<sup>th</sup> Year should be quoted without fail, failing which the Price Bid shall not be considered for further process. Comprehensive AMC cost means cost toward all the spares, service charge and all Taxes, excluding consumable cost if any. (List out the consumables, which are not covered under CAMC ) and the decision on this by ELCOT is final and binding on the bidders.)
- b) Even though the AMC cost is excluded in the price bid evaluation, the successful bidder should match the lowest Comprehensive AMC percentage / cost offered by the other successful bidders. The Extended warranty rate should not exceed 10% of unit rate as per the G.O.