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**GOVERNMENT OF INDIA
INCOME TAX DEPARTMENT
OFFICE OF THE PRINCIPAL CHIEF COMMISSIONER OF INCOME TAX
121, NUNGAMBAKKAM HIGH ROAD, CHENNAI -34**

C.NO.591(3A)/OFF TEL/E1 CONNECTIVITY/PR/2014-15

Dated: 11.09.2014

NOTICE INVITING TENDER FOR SUPPLY AND INSTALLATION OF EPABX SYSTEMS

The Income Tax Department, Chennai invites Sealed Tenders (Two bid systems Viz: Technical bid and Commercial bid) from reputed Manufacturers/Distributors for supply and installation of EPABX systems.

Project Details and Scope of Work

The Project envisages providing Voice Communication at various Income Tax Offices located in Chennai. There is a Main Call Control Exchange at the Head Quarters which is interconnected through E1/PRI with Remote location exchanges. These exchanges must support E1/PRI through both Copper and OFC and should also support other networking protocols such as IP, TWT trunk and E & M.

The scope of the bidder is to integrate the Exchanges via E1/PRI through the medium available with Income Tax office. Necessary hardware/software for such networking should be included in the technical as well as commercial offer by the bidder and income tax shall not bear any such cost during the installation.

Comprehensive AMC rates for a period of 7 years post warranty shall be given upfront by the bidder while quoting in the tender.

Non transferable Tender Forms can be obtained from the Income-tax Department's website www.tnincometax.gov.in or www.incometaxindia.gov.in and this will be valid for participating in the tender process.

Tender Forms completed in all respects will be received up to **16.00 hrs on 07.10.2014**. The tenders must be accompanied by a crossed Demand Draft/Banker's cheque of Rs.5,00,000/- (Rupees Five Lakhs only) towards EMD in favour of **'The Administrative Officer, O/o the Principal Chief Commissioner of Income Tax, Chennai – 34'**. The tender forms unaccompanied by prescribed EMD will be summarily rejected. EMD will be returned to all the unsuccessful bidders at the end of the selection process. However, the EMD shall be forfeited in case the successful bidder who withdraws after being selected. **No Interest shall be paid on the Earnest Money Deposit.**

The completed tender forms in sealed cover (technical and commercial bid separately) should be addressed to Shri M. Mathivanan IRS, Additional Commissioner of Income tax (H.Qrs) (Admn), O/o Principal Chief Commissioner of Income Tax, Aayakar Bhawan, No.121, Nungambakkam High Road, Chennai-600034.

The Technical Bid will be opened at **11.00 hrs on 08.10.2014**. The Commercial Bid that qualify in the Technical bid will be opened at **15.00hrs on 08.10.2014**.

Performance Security to the tune of 5% of the value of contract as Bank Guarantee to be given by the successful bidder. The same will be withheld by the department till the successful completion of one year guarantee period.

The tenderer shall sign and stamp each page of this tender document and all other enclosures appended to it as a token of having read and understood the terms and conditions contained therein and submit the same along with the Technical bid.

All quotes should be in Indian Rupee only. The Principal Chief Commissioner of Income Tax is not responsible for any postal delay/loss in transit. No request for the extension of the due date will be considered. Preconditioned, incomplete offers not in line with the terms and conditions of the tender documents offers by fax are liable to be rejected. The tender contains complete information and no further letter/enquiry is entertained from any vendor.

Sd/-

(M MATHIVANAN)

Additional Commissioner of Income Tax (HQ) (Admn)
O/o the Principal Chief Commissioner of Income Tax, Tamilnadu
Chennai – 600 034

TENDER FORM

TECHNICAL BID

Bidder Eligibility Criteria

- A. The Bidder should be a registered DGS&D vendor for the offered product. The DGS&D Rate Contract should have been valid as on 01st September 2014.
- B. The bidder should have been a reputed manufacturer or authorized distributor for the system offered.
- C. The bidder, if an authorized Distributor should have partnered with the OEM for a minimum period of 10 years. This is to ensure that sufficient training on support, maintenance and installation is carried out quickly and that sufficient spares are always maintained in stock for immediate replacement
- D. The bidder should have reasonably strong financial background. The bidder should submit Balance sheet & Profit and Loss account statement for the last 4 years of which at least 3 years should be in profit.
- E. The Bidder should have supplied and installed systems of more than 1000 wired Ports for minimum of 3 Government establishment/PSU/Undertaking installations in Tamilnadu. Documentary proofs to be submitted.
- F. The Bidder should have done Connectivity on E1/PRI for minimum 3 Government organizations. Documentary Proofs should be submitted.
- G. The bidder should have Direct Service center in Chennai with sufficient spares and service support team readily available for trouble shooting. Details of the service center and service personnel are to be provided by the bidder.
- H. The bidder, If being a Distributor, should submit undertaking from the OEM for service and spares support for a minimum period of 10 years and System Life Span certificate for 15 years.
- I. The bidder should have card level service center in India. Necessary documentary proof should be submitted.
- J. The EPABX offered by the bidder shall have all the technological advancements such that the features provided will not become obsolete and incompatible for a minimum period of ten years from the date of commissioning completion. Guarantee bond for the anti obsolescence factor for a minimum period of 10 years shall be submitted by the bidder.
- K. The bidder should not have been black-listed by any Government establishments on any grounds whatsoever.

Note: Failure to comply of any of the above eligibility criteria will lead to disqualification of the technical bid.

DETAILED SPECIFICATION FOR EPABX SYSTEMS

1. GENERAL:

(a) The EPABX system should be Digital Microprocessor based stored program control with latest Software Version. It should have facility to connect Computer Terminal, Telephone, and Paging System through suitable Interface common to all such devices. Tenderers shall indicate full details of the system offered including CPU speed.

(b) The system shall be capable of working in a suitably ventilated non-air-conditioned environment. System design shall be immune to noise from various sources like power supplies, lighting system etc.

(c) The System shall ensure a very high degree of availability and maintainability through use of highly reliable components and appropriate structural & functional units. Provision of redundant control units in a suitable configuration shall be provided as an option.

(d) All components should be rated for continuous operation of the system. It should be designed in such a way that any damage in any circuit/ subassembly/assembly should be self-containing and should not be propagate to other parts of the system.

(e) The EPABX shall be capable of pulse to tone conversion and vice versa to enable correct operation (originating & receiving calls) with the DTMF and dial pulse signaling having a speed range of 8-12 PPS and break ratio of 50 to 80%. Dialing out shall meet following limits.

Dial Speed: 10+/-0.5 PPS

Make/break ratio: 1:2, normal with break period between 65 to 68%.

IDP: >550ms.

(f) Call buffer memory shall be at least 1350 for Small Systems and 5000 for Large Systems. The tenderer shall indicate call buffer memory capacity offered.

(g) The equipment shall be capable of working under the howling line & junction limits as under:

i. Extension loop resistance of 1200 ohms for large systems and 600 ohms for small systems.

ii. Junction Loop up to 1800 ohms.

iii. Insulation lower limit 20 k ohms.

(h) Flexibility of opening & closing of limits & modification in class of service will be provided.

(i) There must be protection of EPABX System from high voltage/current transient occurring on junction lines to the Exchange.

(j) Power fail cut through shall be provided as specified under clause '3y' of SYSTEM FEATURE.

(k) All cards of the same type & design shall be interchangeable without necessitating special adjustments. System would be offered by the firms with Hot standby facility if they have provision for the same.

(l) Cabinet design shall provide for adequate ventilation to dissipate heat due to energy loss.

(m) The points for connecting supplies, the power supply to the different plug-in cards shall be standardized & mechanically interchangeable to prevent damage due to accidental interchange of cards.

(n) Sub-assemblies & printed cards in the equipment shall be suitably marked Identification of a type of card in its connector shall be possible without necessitating its removal. Any plug-in component shall be marked with sufficient information for its complete identification.

(o) All instructions labels or any other marking on the equipment shall be perfectly legible.

(p) Connecting cables between jacks shall be marked in their extremities with identical designation as on the fixed connecting flanges.

(q) Fuses used shall have a suitable marking for the different rating to enable easy identification and replacement.

(r) The items quoted shall have TEC approval for interconnection. TEC Approval will not be necessary for IP Gateways and DECT.

Tenders shall furnish a copy of TEC approval certificate along with tender for each item quoted and it should be valid on the date of tender opening. It will be the responsibility of the supplier to keep the TEC approval valid during the currency of the Rate Contract.

(s) No. of extensions specified for each configurations are exclusive of I.P. Gateways and DECT extensions.

(t) DECT Phones shall have a minimum talk time of 20 hours and a range of min.50 mtrs.

(u) Each DECT Base Station shall be capable of handling minimum of 48 DECT Phones calls simultaneously.

2. POWER SUPPLY :

(a) The EPABX shall be suitable for operation on 230V +/- 10%, 50 +/-2 Hz AC or on 48 V DC power supply as per the customer requirement.

(b) EPABXs operating on 230V+or_10% AC shall have in built battery charging arrangement for providing battery back up for 2 h minimum. Batteries for this purpose shall be ordered separately.

(c) Power back up for 230V systems can also be provided by external UPS which will also be ordered separately. There is a separate DGS&D Rate Contract for UPSs.

(d) Power back up for 48V systems can be provided by Float Cum Boost Charger (FCBC) which has been included as a separate schedule and has to be ordered separately. The ratings of FCBC and batteries can be decided by the DDOs depending upon their power back up needs.

(e) The derived power supply shall be suitably protected on the input side against over current and accidental reversal of polarity and on the output side against over current and over voltage. Automatic recovery shall be possible.

3. SYSTEM FEATURES :

(a) The EPABX System should have Digital PCM/TDM (non-blocking) technology. They shall indicate the switching IC/CHIP used. They shall furnish calculation showing the non blocking technology /switching.

(b) Tone and Ringing: The System shall provide the standard tones and ringing current as in the Public Telephone Network as follows :

(i) Ringing 75 V AC , 25 Hz.

(ii) Ring back tone 400 Hz. 0.4 sec ON, 0.4 sec OFF.

(iii) Dial tone 400 Hz modulated by 25 Hz.

(iv) Busy tone 400 Hz, 0.75 sec ON, 0.75 sec OFF.

(v) Operating Voltage 48 V +/- 4 V DC.

(c) The equipment and circuits for tones and ringing shall form part of main PABX equipment.

(d) The equipment should have Automatic Route Selection facility to determine least cost route automatically based on class of service.

(e) Extension-to-Extension Dialing: It shall be possible to establish internal calls automatically by dialing any number without assistance of the attendant.

(f) Direct Outward Dialing: It shall be possible to establish external calls automatically by dialing any number without the assistance of the attendant (subject to class of service).

(g) Provision of DID & DISA: It shall have facility for direct inward dialing and direct inward station access.

(h) Direct Outwards Station Access (DOSA): Any Extension can access the trunk lines of the System through personal pass code to make outward calls from outside. All DOSA calls remain in account of that particular Extension.

(i) Direct Station Selection (DSS): Just pressing a single key the operator or extension can directly call an extension or access the trunk line without hassles of pressing 3 digits.

(j) Multi Level Voice DISA: When ordered as an extra feature/card, this will enable the systems to provide auto attendant service to outside callers to directly access the desired extension by surpassing the operator. The caller should be step wise guided by multi-level voice messages.

(k) Access To Exchange Network: It shall be possible for an extension to get access to public network with or without the attendant in such cases, facility shall exist for the attendant to either dial the required No. or to merely extend the junction to the extension and permit the subscriber to dial the number.

(l) Privacy Of Call: Full privacy of conversation shall be available on all calls whether established directly or by the attendant. A warning tone of a specified frequency shall be applied when trunk-offering facility is exercised by the attendant on an extension user.

(m) Class Of Service: It shall be possible to allow an extension control over the telephone usage by providing him suitable class of service.

(n) The coding technique to be used is ALAW/CODEC per channel.

(o) System should have provision for Automatic Last Number Redial up to 20 times on Junction Line.

(p) During night, when the board is shut, external lines should be linked to any pre-defined extensions.

(q) Provision for connecting recorded voice / answering to make available extensions to an incoming call without the help of operator.

(r) Flexible Numbering Scheme: System should have provision for flexible numbering plan up to four digits for extensions.

(s) Trunk Support: The System should support a following connectivity to satisfy all type of trunks & tie circuits.

Analog for all

For ISDN compatibility

In case of Small EPABX Systems : ISDN BRI

In case of Large EPABX Systems : ISDN BRI & ISDN PRI

For Networking Compatibility

In case of Small EPABX Systems : Digital ISDN and VOIP

In case of Large EPABX Systems : Digital ISDN, E1, E&M and VOIP

Generally system supporting ISDN PRI shall also compatible to E1 connectivity.

(t) Universal Port Configuration: All ports of the System should be identical to facilitate flexible configuration of the System as per user needs.

(u) Discriminate Ringing: The System should support discriminate ringing to indicate internal & external calls.

(v) Multiple Consoles: The System should support multiple numbers of consoles for large EPABX Systems.

(w) Mixed Station Dialing: To support all the features irrespective of type of telephone instruments i.e., DTMF or DECADIC.

(x) Versatile ASMDR The System should support ASMDR, which is a call accounting application that can record & print up to at least 3500 calls without dedicated printer.

(y) Power Failure Transfer: In the case of power failure all P&T / CO lines become available on the pre-set Extensions.

Provision for Availability of Junction Lines shall be as under:

System of 4 & 8 Junctions: Availability of 2 Junctions

System of 24 & 32 Junctions: Availability of 4 Junctions

System of 64 Junctions: Availability of 8 Junctions

(z) Programmable Class Of Service The System should support programmable class of service for P&T (STD/ISD/LOCAL) dialing as per need.

(i) Direct Call Billing In Rupees: The System should support direct call billing (near value) through parallel/serial port printer without computer.

(ii) Call Billing Printout Options: The System should support versatile multiple combinations of direct printout options with total amount viz., Extension wise, Trunk wise. Today's call print out, Group wise printout, Particular date, Particular Month, Particular Time, Particular Phone etc.

(iii) Calling Line Identification (CLIP) : This is an optional feature and when ordered it enables the incoming calling No. is displayed on Key/Analog Phone even if the call is transferred by the operator, it is compatible to DTMF (Optional).

(iv) Remote Maintenance: The System programming can even be done from remote locations.

4. EXTENSION FEATURES :

(a) Automatic Call Back: Facility shall exist for an extension user on encountering a busy signal on a called extension, to invoke the automatic call back feature by dialing a code before hanging up. When both the calling and called parties are free, the call should be automatically put through on no-answer the call may be disconnected after a specified period. (This facility should be available throughout the network if more than one EPABX are interconnected in a Private Network).

(b) Call Forwarding: An extension with this class of service shall be able to transfer all incoming calls, temporarily to another pre-selected extension. Such requests shall be registered by dialing a code followed by the extension No. Facility shall also exist for cancellation of a request registered earlier. This facility should be available throughout the network if more than one EPABXs are inter-connected in a Private Network.

(c) Consultation Hold: An extension engaged on an external call (incoming or outgoing) shall be able to hold the call while making internal call for private consultation. The external subscriber shall not overhear such consultation. There must be facility of music during hold condition.

(d) Brokers Call: An extension engaged on an external call (incoming or outgoing) shall be able to hold the call while making another call than alternate between the two. The other party shall not over hear such consultation. There must be facility of music during hold condition. This facility should be available throughout the network if more than one EPABXs are inter-connected in a Private Network.

(e) Automatic Call Transfer: It shall be possible for an extension user to transfer incoming calls to another extension with or without help of the attendant. This facility should be available throughout the network if more than one EPABXs are interconnected in a private network.

(f) Executive/Secretary: A combination of call forwarding, consultation & hold to provide for executive to selectively/answer calls. This facility should be available throughout the network if more than one EPABXs are interconnected in a private network.

(g) Executive Over-Ride: There must be facility offering priority to 5 min extensions to over-ride on going conversations. This facility should be available throughout the network if more than one EPABXs are interconnected in a private network.

(h) Access To Paging: Extensions and attendant shall have dial access to a loudspeaker or any other type of Paging System where such a system exists.

(i) Conference Call: It shall be possible for an extension user (up to a maximum number of 6 to talk to each other at the same time on a conference circuit. One of the extension user or by the attendant may set up the conference call. This facility should be available throughout the network if more than one EPABXs are interconnected in a private network.

(j) Call Pick-Up : It shall be possible for an extension user to pick-up incoming calls ringing on another extension without the help of the attendant. This facility should be available throughout the network if more than one EPABXs are interconnected in a private network.

(k) Call Re-Routing : It shall be possible for a call to be re-routed, without help of the attendant, to other pre-defined extensions when certain conditions apply. This facility should be available throughout the network if more than one EPABXs are interconnected in a private network.

(l) Auto Call Disconnection: For large EPABXs, the system should facilitate to fix the time of call beyond which it will be automatically disconnected.

(m) Dynamic STD Lock : The System should support that individual extension can lock outward dialing (STD/ISD/LOCAL) by a personal secret pass code to prevent misuse by others.

(n) Paging On Key Phone: The caller can activate speaker phone of the called extension to communicate in urgency in own voice when Extension is idle.

(o) Call Name & Extension number on Display (Internal CLI): Name as well(as Extension No. of the caller is displayed on the Key Phone, facilitating to respond accordingly.

(p) Background Music: The Key Phone user can enjoy the light background music channeled from System When Voice DISA Card incorporated.

(q) Auto-Answer / Auto-Off : Key Phone can be programmed for auto-answer after pre-set number of incoming rings. The Key Phone is automatically disconnected when caller disconnects.

5. ATTENDANT'S CONSOLE FEATURES :

Stand-alone or P.C. based Attendant Console with the following features :

(a) The operator console should have soft/feather touch keys with easy to view display and busy lamp field for extensions. It will have easy handling facility for all internal & external calls.

(b) Answering an Incoming Call: Facility should exist for answering an incoming call, whether from an internal extensions or external junction. It should be possible to identify the type of call that is internal, external line etc., from the call indicator.

(c) Call Queuing : All incoming calls should be presented to the console in order of the arrival. Facility should exist for giving preference to junction calls and from tie lines over calls from internal extensions.

(d) Serial Call : Facility should exist in Large systems to extend an incoming call as serial call which should come back to attendant on completion of call permitting the attendant to route the call to another extension and so on.

(e) Call Waiting Display : An indication should be given when there is an unanswered call waiting in the queue. The lamp shall flash if number of calls waiting in the queue are two or more or if a call has been waiting for more than a predetermine time.

(f) Call Selection : Facility should exist to the attendant to select which incoming call to be answered first.

(g) Call Hold Facility : It shall be possible for the attendant to place an incoming junction call on hold pending further processing.

(h) Setting Up External Calls : Facility shall exist for enabling the attendant to set up the external calls for the extensions, which are allowed to access the public network. The attendant may either dial the number himself or merely extend the junction to the authorized extension user.

(i) Trunk Offering: The attendant shall be able to offer an incoming call to busy extension. A tone shall however, alert the talking parties when the attendant barges-in on a connection.

(j) Provision for Remote Supervisor Control.

(k) Position Busy : When more than one console is in use. It shall be possible for a console to prevent further incoming calls from being assigned to it by busying itself. When a console is so busied all the waiting calls queued for the particular console shall be transferred to other console/extensions. Incoming calls in cases where two consoles exist shall be equally distributed. Facility shall exist during absence of the attendants for incoming external calls to be forwarded to one common or several individual extensions.

(l) Night Service : It should be possible for all incoming calls to be transferred to certain pre-fixed extensions, in case this option has been exercised during the night.

(m) Head Phone Connectivity : The operators can plug-in headphone to handle the call traffic efficiently while keeping her/his hands free for other jobs.

6. SERVICE OBJECTIVES :

Following service objectives shall be met :

(a) Under overload conditions, the lost call figures applicable shall be one in 200 for extensions to extensions call and one call in 100 for junction calls, overload being defined as 10% increase in occupancy of speech network and simultaneous 25% increase in the number of calls.

(b) The selection time under full load is defined as the time interval between the instant at which the required information for selection of the outlet has been received at the inlet and the instant at which outlet is ceased shall not exceed in 99% of the cases under traffic overload 1.5 seconds.

(c) The assumption to be made whilst dimensioning the links, junctions and attendants console shall be following :

i. Total originating & terminating traffic per extension (including junction traffic) 0.2 erlang during peak busy hour.

ii. Total junction traffic per extension 0.1 erlang during peak busy hour.

iii. Average holding time of calls 0.90 seconds.

iv. The switching network shall provide access to the links & junction on fully non-blocking basis.

v. The equipment design shall be such that any special case and precaution on the part of maintenance personnel are kept to an absolute min. And no preventive maintenance is required.

vi. The System shall have inherent capability to monitor its own performance and to detect, analyze and locate faults.

vii. Fault repair at site should normally consist of only replacing the faulty card or plug-in modules.

viii. The System should have remote maintenance facility.

7. Special Criteria to be fulfilled by the system offered

1. The Offered EPABX must be 100% Digital with support for IP and TDM or in combination of both. The system must be configurable as pure TDM switch or Pure IP Switch or in combination of both.

2. The system must offer rack mountable or wall mountable/Table top with closed enclosure to protect from dust and moisture
3. The System should be capable of Hot Slot maintenance and should not impose restriction for administrator to switch off the complete system during replacement of cards/modules.
4. The System should be able to perform self diagnostic features to analyse and alert any fault pertaining to Power Supply, Central Processor or any modules. The system should be able to alert the user/administrator via the PC console and through Digital phones by providing tone and visual alert of the failed module.
5. The system should be capable of supporting 32 party audio conferencing. Necessary license and cost, if any, should be clearly mentioned in the Commercial bid.
6. The system offered at the remote locations should also be of the same model offered at the main location. For example, if the system offered in main location is XYZ 3001 and the model offered in the remote location should also be XYZ 3001. This is to ensure that the system and its components including CPU are uniform throughout all the locations and completely inter exchangeable.
7. The System should support Dual redundant CPU. Real time data & program loading in hot standby CPU control unit from main CPU should be automatic.
8. During a CPU or PSU fail, all established calls should be live and connected when automatic changeover from main CPU to redundant CPU switchover is enabled.
9. The following Licenses must be provided with the system.
 - A. IP Port License: for at least 600 Port Licenses per exchange and per locations.
 - B. Operating System/Software/Hardware/CPU Version Upgrade Licenses: Till the last AMC obligation ends with the vendor.
 - C. Analog Port & Extension License: for 2000 Ports for main location and 1000 Ports for remote locations.
 - D. E1/PRI hardware & software License: Till the last AMC obligation ends with the vendor.
 - E. Networking License (Between two Location exchanges or between cabinets/racks : : Till the last AMC obligation ends with the vendor.
 - F. Caller ID license for 2000 Ports for main location and 1000 Ports for remote locations.
 - G. Digital Phone License: for 1000 Ports for main locations and 300 Ports for remote locations. (Kindly note the above mentioned licenses must be provided by the bidder upfront and the cost shall be notified in the commercial offer. Income Tax shall not be pay for any of the above licenses till the last AMC obligation ends between ITO and Vendor for the offered system.

10. The following Certificates to be produced by the bidder.
 - A. ISO Certification for both the bidder and the OEM.
 - B. TEC Approval Certificate
 - C. ECMA/ETSI Certificate for QSIG
 - D. EMI-EMC (Electro Magnetic Interference and Electromagnetic Compatibility) Certificate issued by reputed test centers in India or abroad.
 - E. The System should have been certified by reputed test lab within India/abroad for Dry test, Heat test and Cold chamber test to substantiate their claims of withstanding extreme conditions and documentary proof is to be submitted.

8 Software (Administration)

- 1 Should be Graphical User Interface (GUI) based and not Command Line Interface (CLI) based
- 2 Should be able to automatically back up the system configuration from time to time or at demand of the user
- 3 Should possess alarm software to give tone and visual alarm in the event of any module or card failure
- 4 Internal SNMP application to ensure management of the system remotely and most setting and configuration are performed rapidly with the standard software without any need for special application
- 5 Should provide web support
- 6 Should be able to support updation through TFTP and SNMP

9 Call Accounting

- 1 Should be compatible with Windows Operating System
- 2 Should also be web based to allow access to call record lists of several PBXs from anywhere at any time, and taking reports specific to an extension
- 3 Access to the details of call records including time, date, duration, number dialled, Caller ID information, starting / ending extension, line occupied, cost and call completion status.
- 4 Should have the ability to track any malicious call within network and outside network.
- 5 Should be able to isolate any extension and track all the calls during any point of time.

10 Digital Phones (High End)

- 1 Large Pixel Graphic LCD Display (minimum 150X100 Graphical display) with 20 DSS keys (Either inbuilt or through additional interface)
- 2 Wall mountable
- 3 Adjustable Display Angle
- 4 Headphone Support
- 5 Handsfree
- 6 Integration with Net Console CTI Application
- 7 Display Illumination
- 8 Should support Bluetooth Version 2.0+EDR class compliant operating on 2.4GHz ISM band with outdoor range of 10 meters and indoor range of 5 meters
- 9 Should support at least 2 additional DSS interface

11 Digital Phones (Basic Model)

- 1 Minimum 4X20 Character LCD display with 16 DSS keys
- 2 Wall mountable
- 3 Headphone support
- 4 Handsfree
- 5 Displaying Names of Callers Recorded in the Phonebook
- 6 Calling with Name from the Phonebook
- 7 Integration with Net Console CTI Application
- 8 Volume Control Keys for Handsfree, muting outgoing audio, handsfree volume up and down
- 9 16 one touch fast keys
Special Function Keys for Park, menu, phonebook, call records, function, voicemail, redial, conference, transfer
- 10 Should support at least 2 Direct Station Selection modules of 20 keys per module

COMMERCIAL BID

PRICE SCHEDULE - NEW SYSTEM – EPABX

AAYAKAR BHAWAN

S.No	System Details	Required Configuration Details	Qty	Unit price	Total Price
1	Large EPABX System. No. of Extensions : 800, No. of Junctions : 64, Nos. of expandable ports : 5376. Operator Console: 2, Compatible : ISDN and Networking	500 Trunk Extensions, 600 Digital Extensions, 300 Analog Extensions, 5 PRI Cards and 7 E1 Cards, total Ports of 1760 required.	1		
2	ISDN Interface Card (PRI)		5		
3	E 1 Card		7		
4	Digital Line Card per Line		600		
5	Trunk Line Card per Line		500		
6	MDF No of pairs: 1000 pairs along with IPM		2		
7	Current rating: 50A, Voltage rating: 48V		1		
8	Digital Instruments (Basic Model)		550		
9	High End Model		50		
	TOTAL				

PRICE SCHEDULE - NEW SYSTEM – EPABX

KANNAMAI BUILDING

S.No.	System Details	Required Configuration Details	Qty	Unit price	Total Price
1	EPABX Model No. of Extensions : 128 No. of Junctions : 24, No. of expandable ports :1000, Operator's Console : 01, Compatible : ISDN & Networking	80 Trunk Extensions, 80 Digital Extensions, 160 Analog Extensions and 1 No. E1 Card	1		
2	E 1 Card		1		
3	Digital Line Card per Line		80		
4	Trunk Card Per Line		80		
5	MDF No of pairs: 600 Pairs along with IPM		2		
6	Digital Instruments (Basic Model)		80		
7	Current rating: 50A,Voltage rating: 48V		1		
	TOTAL				

PRICE SCHEDULE - NEW SYSTEM – EPABX

NEW BUILDING

S.No.	System Details	Required Configuration Details	Qty	Unit price	Total Price
1	EPABX Model No. of Extensions : 128 No. of Junctions : 24, No. of expandable ports:1000, Operator's Console : 01, Compatible : ISDN & Networking	120 Trunk Extensions, 120 Digital Extensions, 160 Analog Extensions and 1 No. E1 Card	1		
2	E 1 Card		1		
3	Digital Line Card per Line		120		
4	Trunk Card Per Line		120		
5	MDF No of pairs: 600 Pairs along with IPM		2		
6	Digital Instruments (Basic Model)		120		
7	Current rating: 50A, Voltage rating: 48V		1		
	TOTAL				

PRICE SCHEDULE - NEW SYSTEM – EPABX

ITAT, RAJAJI BHAWAN, BESANT NAGAR

S.No.	System Details	Required Configuration Details	Qty	Unit price	Total Price
1	EPABX Model No. of Extensions : 128 No. of Junctions : 24, No. of expandable ports:1000, Operator's Console : 01, Compatible : ISDN & Networking	24 Trunk Extensions, 24 Digital Extensions , 60 Analog Extensions and 1 No. E1 Card	1		
2	E 1 Card		1		
3	Digital Line Card per Line		16		
4	MDF No of pairs: 200 Pairs along with IPM		2		
5	Digital Instruments (Basic Model)		16		
6	Current rating: 50A,Voltage rating: 48V		1		
	TOTAL				

PRICE SCHEDULE - NEW SYSTEM – EPABX

MUDICHUR ROAD, TAMBARAM

S.No.	System Details	Required Configuration Details	Qty	Unit price	Total Price
1	EPABX Model No. of Extensions : 128 No. of Junctions : 24, No. of expandable ports :1000, Operator's Console : 01, Compatible : ISDN & Networking	16 Trunk Extensions, 16 Digital Extensions, 64 Analog Extensions and 1 No. E1 Card	1		
2	E 1 Card		1		
3	Digital Line Card per Line		16		
4	MDF No of pairs: 200 Pairs along with IPM		2		
5	Digital Instruments (Basic Model)		16		
6	Current rating: 50A,Voltage rating: 48V		1		
	TOTAL				

PRICE SCHEDULE - NEW SYSTEM – EPABX

RAMAKRISHNA STREET, TAMBARAM

S.No.	System Details	Required Configuration Details	Qty	Unit price	Total Price
1	EPABX Model No. of Extensions : 128 No. of Junctions : 24, No. of expandable ports :1000, Operator's Console : 01, Compatible : ISDN & Networking Networking	16 Trunk Extensions, 16 Digital Extensions, 64 Analog Extensions and 1 No. E1 Card	1		
2	E 1 Card		1		
3	Digital Line Card per Line		16		
4	MDF No of pairs: 200 Pairs along with IPM		2		
5	Digital Instruments (Basic Model)		16		
6	Current rating: 50A, Voltage rating: 48V		1		
	TOTAL				

PRICE SCHEDULE - NEW SYSTEM – EPABX

LTU, ANNA NAGAR

S.No.	System Details	Required Configuration Details	Qty	Unit price	Total Price
1	EPABX Model No. of Extensions : 128 No. of Junctions : 24, No. of expandable ports :1000, Operator's Console : 01, Compatible : ISDN & Networking	16 Trunk Extensions, 16 Digital Extensions, 64 Analog Extensions and 1 No. E1 Card	1		
2	E 1 Card		1		
3	Digital Line Card per Line		16		
4	MDF No of pairs: 200 Pairs along with IPM		2		
5	Digital Instruments (Basic Model)		16		
6	Current rating: 50A, Voltage rating: 48V		1		
	TOTAL				

PRICE SCHEDULE - NEW SYSTEM – EPABX

ITSC, NANDANAM

S.No.	System Details	Required Configuration Details	Qty	Unit price	Total Price
1	EPABX Model No. of Extensions : 128 No. of Junctions : 24, No. of expandable ports :1000, Operator's Console : 01, Compatible : ISDN & Networking	16 Trunk Extensions, 16 Digital Extensions, 64 Analog Extensions and 1 No. E1 Card	1		
2	E 1 Card		1		
3	Digital Line Card per Line		16		
4	MDF No of pairs: 200 Pairs along with IPM		2		
5	Digital Instruments (Basic Model)		16		
6	Current rating: 50A, Voltage rating: 48V		1		
	TOTAL				

BUILDING WISE TOTAL

S.NO	Building	Amount
1	Aayakar Bhawan	
2	New Building	
3	Kannammai Building	
4	ITAT, Rajaji Bhawan, Besant Nagar	
5	Mudichur Road, Tambaram	
6	Ramakrishna Street, Tambaram	
7	LTU, Anna Nagar	
8	ITSC, Nandanam	
9	Software Charges if any	
	TOTAL	
10	Upfront AMC Charges for 1 st Year	
	Upfront AMC Charges for 2 nd Year	
	Upfront AMC Charges for 3 rd Year	
	Upfront AMC Charges for 4 th Year	
	Upfront AMC Charges for 5 th Year	
	Upfront AMC Charges for 6 th Year	
	Upfront AMC Charges for 7 th Year	