
	ITI LIMITED	Phone No:	080-28503662
		Fax No:	080-28503653
BANGALORE PLANT			
DOORAVANINAGAR BANGALORE - 560 016			
ENQUIRY			
		Enquiry Ref No:	C020K005
		Enq Date:	19-Nov-2020
		Due Date :-	30-Nov-2020
Please quote your best prices and delivery for the item as mentioned below.			
Sino	Description of the item		Qty
1	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF IPPBX SYSTEM AT ITI DATA CENTER, BANGALORE		As per BOQ
Note: Detail Notice Inviting Tender Three Covers System separatly sealed 1) EMD Amount through DD for Rs 28,000.00 2) Technical Bid along with Un priced commercial Offer 3) Commercial Bid			
IF any further technical detail required towards submission of offer please contact Smt. Anila Sharadha - DGM (DC) Ph. No. 080 28503670 E-Mail : anilasharada_bgp@itilttd.co.in; OR Smt. Latha. T - DGM (DC & Start Up) Ph. No. 9448976930 E-Mail : tlatha_bgp@itilttd.co.in OR Shri. Nagraj. K.V : Email nagraj_crp@itilttd.co.in			
Note:	1	Delivery required – 100% Immediate	
	2	Your quoted price shall be all inclusive FOR ITI Ltd. Bangalore -16.	
	3	ITI GST NUMBER: 29AAACI4625C1ZV.	
Terms & Conditions as per enclosure.			
Your sealed quotation SUPERSCRIBING our Enquiry Reference and DUE DATE on the envelope should reach us on or before DUE DATE 30/11/2020 by 3:00 PM.			
Offer through E-mail will not be considered please			
(Only Technical bid will be opened on next working day at 2.30 PM) and should be addressed to.			
Deputy General Manager-IMM Central Purchase, ITI Limited, Dooravaninagar Bangalore -560 016. Thanking you		Your's faithfully, For I.T.I Limited  Deputy General Manager-IMM	



**INVITATION OF BIDS
FOR
SUPPLY, INSTALLATION, TESTING AND COMMISSIONING (SITC)
OF IPPBX SYSTEM
AT ITI DATA CENTER, BANGALORE**

ITI Limited
(A Govt of India Undertaking)
Ref: ITI/BGP/DC /IPPBX/2020-21
Date: 18.11.2020

ITI Data Center, Bangalore Plant,
ITI Limited, Dooravaninagar,
Bangalore
India – 560016

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Tender Enquiry

SUPPLY, INSTALLATION, TESTING & COMMISSIONING (SITC)

OF IPPBX SYSTEM AT

ITI DATACENTER, BANGALORE, BANGALORE

Ref No. : ITI/BGP/DC /IPPBX/2020-21

You are requested to go through the tender document and submit your offer on or before last date and time of bid submission as per Notice Inviting Tender (NIT).

You are requested to go through the tender document and submit your offer on or before last date and time of bid submission as per Notice Inviting Tender (NIT).

The system time (IST) displayed on e-tendering web page shall be the reference time and no other time shall be taken into cognizance.

Tender issuing authority is not responsible for the delay / non-downloading of tender document by the recipient due to any problem in accessing the e-tender website. The tender issuing authority is also not responsible for delay in uploading bids due to any problem in the e-tender website.

Thanking You,


Yours Faithfully,

ITI Data Center, Bangalore Plant,

ITI Limited, Dooravaninagar,

Bangalore

India – 560016

		ITI LIMITED		Phone Nos:	Ext: 9772 Ph: 080 28503639
ITI LIMITED, BANGALORE PLANT					
DOORAVANINAGAR, BANGALORE - 560 016, INDIA					
NOTICE INVITING TENDER					
		TENDER TYPE:		TWO BIDS	
		NIT REF NO.:		ITI/BGP/DC/IPPBX/2020-21	
		NIT DATE:		30.11.2020	
Please quote your best prices for the item as mentioned below.					
SI NO	ITEM DESCRIPTION				Quantity
1)	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF IPPBX SYSTEM AT FOR ITI DATA CENTER.				As per BoQ
Note:	1	Offers are to be submitted strictly as per details furnished in this NIT.			
	2	Bidders have to submit EMD as per Clause along with the Bid before 30-11-2020, 14:00 HRS (IST)			
BID SUBMISSION THROUGH SEALED ENVELOPES					
BID DUE DATE AND TIME:			30-11-2020		14:00 HRS
Tender type: Two Bid viz. 1) Technical Bid. 2) Price Bid.		For ITI Limited Deputy General Manager Central Purchase ITI Ltd Bangalore Dooravaninagar, Bangalore Email: avmurdeswar_bgp@itiltd.co.in Ph: 080 28503639			

TENDER NOTICE No . ITI/BGP/DC/IPPBX/2020-21

Tenders are invited in Two Bids (Part-I - Techno-Commercial Bid and Part II - Price Bid) through e-Tendering system:

Sl	Description	Details
1	Name of the Item	Supply, Installation & Commissioning of IPPBX System along with Cable Laying and Krone
2	Amount of EMD	Rs. 50,000 (Rupees Fifty Thousand Only)
3	Document to be obtained from	Tender document (Non-transferable) can be downloaded from ITI Website and CPP Portal
4	Tender issue/ download schedule	On or before 30-11-2020 14:00 Hrs
5	Bid Submission period	On or before 30-11-2020 14:00 Hrs
	Last date of submission of tender & EMD and Mode of Submission,	Along with the BID On or before 30-11-2020 14:00 PM
7	Tender Issuing and Receiving Authority	Deputy General Manager Central Purchase ITI Ltd Bangalore Dooravani Nagar, Bangalore

Any Addendum / Corrigendum / Date extension in respect of above tender shall be issued on ITI Ltd. Website <https://tenders.itild.in/> only and no separate notification shall be issued in the press. Bidders are therefore requested to regularly visit our website to keep themselves updated.

INSTRUCTIONS TO BIDDERS (ITB)

1. All bidders are required to read these conditions carefully and submit one set duly signed by them as token of having read, understood and accepted the conditions, along with information called for by ITI Ltd..
2. The Bidding document shall be read in conjunction with any amendment(s) issued.
3. Bidders should get clarified all the technical doubts and other points related to the tender before submitting the priced and un-priced offer.
4. No assumption, stipulation, deviations from terms and conditions or presumptions, etc. shall be made by the Bidder while submitting the offer in the Price Part of the Tender. The liability of obtaining all necessary clarity with respect to the tender, its technical aspects and pricing shall be on the Bidder. ITI Ltd. shall be under no obligation whatsoever to entertain any tender bid which is based on any assumption, stipulation, deviations from terms and conditions or presumptions, etc. and would have the option to reject such bid.
5. Bidder shall submit the offer in two parts, i.e. Technical Bid and Price Bid in separate sealed covers through post (in case of manual tender)/ uploaded in the system (in case of E Tender).

Part I - TECHNICAL BID Bidders are required to serially number all the pages being appended by them as part of submission to the Technical bid. Such numbering shall include, Covering letter, Technical specifications, items list being offered, Drawings, Specification, Certificates, Catalogues, Compliance or Deviation statements, etc. as applicable to this Tender and create an Index Page with headings and corresponding page numbers. In addition to this, all pages of the Tender Documents issued by ITI shall be signed on all pages and to be submitted by post (in case of manual tender)/ uploaded in the system (in case of E Tender).

Part II - PRICE BID

6. In case, PRICE BID is included in TECHNICAL BID portion, or PRICES are mentioned in the technical bid itself the entire bid will be rejected.

7. The item supplied/service provided shall be Environment friendly and Energy efficient.
8. The Bank Guarantee by Indian Bidders will be given on non- judicial stamp paper as per stamp duty applicable at the place where the tender has emanated. The non-judicial stamp paper should be in name of the issuing Bank. The Bank Guarantee by Indian bidders will be given from Nationalized /Scheduled Banks only.
9. Any corrigendum / amendment to the tender will be uploaded on ITI Ltd. website <https://tenders.itild.in/>

I. INTRODUCTION

ITI Limited, the first PSU of the Independent India and pioneer in telecommunication is running a data centre offering Cloud Hosting, colocation and managed services to its customers. ITI would like to add managed Hosting Services and Cloud Services also to its existing as well new customers in Government, Corporate and BFSI Sectors. ITI seeks IPPBX for IT and Non it operations for ITI data center.

II. PURPOSE:

ITI intends to enter in to an Agreement with the selected bidder/partner to supply Installation & Commissioning of IPPBX System to ITI data center for internal and external communications.

III. Contact details

The address and contact numbers for sending Bids or seeking clarifications regarding this RFP are given below -

(a)	Bids/queries to be addressed to	Mailing Section, F-100, Ground Floor, ITI Limited, Dooravani Nagar, Bangalore-560016
(b)	Postal address for sending original documents (EMD, Tender fee specified in paragraph 3(a) of part – 1 of RFP)	Mailing Section, F-100, Ground Floor, ITI Limited, Dooravani Nagar, Bangalore-560016
(c)	Name/designation of the contact personnel	Mr. Rosario, Asst. Manager-MM
(d)	Telephone numbers of the contact Personnel	Ph 080 28503639
(e)	E-mail ids of contact personnel	rosario_bgp@itild.co.in>
(f)	Fax number	

IV. MINIMUM ELIGIBILITY CRITERIA FOR PARTNERS**Part 1. Eligibility Criteria:**

a)	In case of Proprietary Concern	If the bid is submitted by the proprietor, no Power of Attorney (POA) is required. However, he will upload undertaking certifying that he is sole proprietor. If the bid is submitted by person other
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		than proprietor, POA authorising the person to submit bid on behalf of the concern
b)	In case of Company	Certified copy of Board Resolution authorising the person submitting the bid on behalf of the company OR POA and the supporting Board Resolution authorising the person submitting the bid on behalf of the company
c)	In case of Partnership Firm/ LLP	POA along with Deed of Partnership / LLP Agreement.
d)	In case of Co-Operative Society	Copy of resolution passed as per Society Rules
e)	Government of India Policies	The bidder should not have been black listed by any Government organization in India.
f)	Bidder Registration	Micro & Small Medium Enterprises (MSME's)
g)	Turnover	The bidder shall have an annual turnover of 15,00,000 at least during last 3 year. Audited Financial Statements and made a net profit in each of the last three financial years (The copies of Audited Annual Accounts/Balance Sheet for last three years shall be attached).
h)	The Networth of the bidder should be positive for the last financial years	FY 2017-18, 2018-19, 2019-20 (CA Certificate with CA's Registration Number/Seal).
i)	Product Details	The supplied materials would be latest product Version and bidder has to provide all the Software up gradation at the time of Contract .
j)	Solution details	Selected Bidder shall be agree to work with ITI to Provide the end to end Solution .

Commercial Pre-qualification Criteria: Applicable as under:

- Financial Criteria : The annual turnover of the bidder during any of the preceding three financial years should be at least Rs. 15,00,000/- (Rupees Fifteen Lakhs Only). Any of the following documents may be submitted against Financial criteria
 - Audited Balance sheet,
 - Published annual report,
 - Balance sheet available in the public domain
- Wherever Chartered Accountant / Statutory Auditor / Certified Public Accountant (not being an employee or a Director or not having any interest in the bidder(s) company / firm) is not in a position to endorse such CEO / CFO's certificate due to local regulations, CEO / CFO's certificate in original without endorsement may be accepted provided a reference of the local regulation restricting this endorsement is given in the CEO / CFO certificate.

Commercial Experience Criteria: Applicable as under:

- The single order executed by the bidder during any of the last five years ending on the last day of the month immediately preceding the month in which the last date of bid submission falls, should be as follows:

Two orders each executed for "similar item" where executed value is not less than the amount Rs. 5,00,000/- (Five Lakhs Only)

OR

Single order executed for "similar item" where executed value is not less than the amount of Rs. 700000/- (Seven Lakhs Only)
- Similar item for this tender is to be read as: "Supply of IPPBX or in any. Departments/organizations, PSUs, banks & Proof of having completed at least 3 works for customers including Govt. Departments/organizations, PSUs

Notes on Commercial Prequalification criteria:

- Order value, for commercial prequalification criteria should be FOR destination price but excluding transit insurance.
- It is to be noted that the last date of order execution may fall in above mentioned period.
- Any of the following documents may be submitted against Commercial experience criteria
- Purchase Order copy along with Invoice(s) with self-certification that supplies against the invoices covering the "similar order" have been executed to the required value

- Purchase Order copy along with Bank Certificate indicating payment against the PO
- Execution certificate by client with order value
- Goods Receipt Note (GRNs) in case where ITI Ltd is a client
- Any other valid document in support of execution of order acceptable to ITI LTD..

Decision of ITI Ltd. on acceptance of such execution proof shall be final and binding on the bidder.

Part 2. General Information:

1	Name of the Organisation (Company / Partnership firm/Proprietorship concern, etc)	
2	Organization Product Profile	
3	Certificate of Incorporation / Registration details	
4	Articles & Memorandum of Association as applicable and CIN number.	
5	Audited Annual Report / Accounts for the financial years (2017-18 ,2018-19, 2019-20)	
6	GST certificate	
7	Copy of PAN certificate	
8	Income tax returns of financial year (2017-18, 2018-19,2019-20)	
9	Solvency Certificate issued from any scheduled bank during the last 6 months	
10	Details of MSME or government registration certifications	
(a)	Details of PO Received & Executed (PO copies and completion certificates to be enclosed)	

11	Acceptance to join with ITI to market the product / service at each of their own cost	
12	Bidder should provide acceptance to support ITI exclusively to the scope covered in the RFP in terms of Pricing	
13	Acceptance to sign MoU with ITI as per mutually agreed terms & conditions for a period of 3 years	
14	<u>Man Power Details</u>	
(a)	Technical	
(b)	Non-Technical	
15	Bidder shall submit power of attorney authorizing the person signing the bid for this EoI.	
16	Details of contact person (Name, Designation, Landline, Mobile, FAX, e-mail etc.,)	
17	Any legal cases pending against the Organization? If any, details to be furnished.	

V. **CRITICAL INFORMATION**

Submission of a proposal in response to this notice shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions and implications.

S No.	Information	Details
1	Tender Ref. and Date	ITI/BGP/DC/IPPBX/2020-21 18.11.2020

2	Last date for submission of written queries for clarifications	Before 30-11-2020 14:00 HRS
3	Last date for submission of EOI proposal	Before 30-11-2020 14:00 HRS
4	Address at which proposal in response to EOI is to be submitted	Deputy General Manager Central Purchase ITI Ltd Bangalore Plant Dooravaninagar, Bangalore avmurdeswar_bgp@itild.co.in Ph: . 080 28503639

VI. GUIDELINES TO SUPPLIERS: -

ITI Limited, India's first Public Sector Unit (PSU) established in 1948. Having contributed to 50% of the present national telecom network, ITI is the leading provider of turnkey solutions in the telecom and IT spaces. In a yet another endeavor to provide customer-centric services to Government organizations and corporate entities, ITI is Building new set up ITI Data Center at its premises in Bangalore.

All suppliers are to ensure compliance to the following while they are providing Materials to ITI or providing services within the premises of ITI.

- Ensure that the products supplied are Eco friendly (easily disposable as bio-degradable waste and the end of life or with a buy back condition), when not covered by PO specification.
- Products supplied should be non-polluting when in operation/service.
- Items supplied are to be energy efficient "Star rated".
- Ensure that the packing and Packaging material used are disposal as bio-degradable waste or with buy back condition.
- Material Safety Data Sheets contain environment /energy related data /information on energy efficiency usage, storage, spillage and easy disposal.
- Specify action to be taken for spillages, if any to prevent contamination of air, land and water.
- Ensure that there is no threat to environment during transportation to and returns from ITI, during delivery / while supplying materials.
- Material supplied should not lead to damage or harm to vegetation and greenery while usage and disposal.

- i) Supplier shall comply with all applicable regulations regarding the supplied Goods including all materials used and shall provide all information necessary by such regulation and/or requested by ITI LTD.
- j) Supplier shall be responsible, where physically possible, to take the Goods back for the purpose of recycling them within the scope of the statutory requirements or to dispose them in an environmentally-friendly manner.
- k) Suppliers are to take action and comply with requirements when failures are intimated by ITI and repeated failures /failure to act may lead to termination of contracts.
- l) Ensure that the noise and pollution levels of vehicles and equipment when used to deliver goods are as per regulatory norms and are subject to verification.

Delivery period shall be as below.		
I	Award of PO	T0
ii	Submission of a detailed design and deployment methodology and implementation plan of execution of the Material and the approval of ITI DC	T0+ 1 Week
iii	Supply of Materials.	T0 + 2 Weeks
iv	Testing , Installation and Commissioning of Equipments	T0 + 3 Weeks

VII. Terms of Payment.

A. FOR SUPPLY ITEMS:

- 60% of the invoice value, on Delivery of all the materials as per the PO at Site location on proof of all the Delivery documentations. PBG of 10% PO value to be provided at the time of purchase order acceptance.
- 20% of the invoice value on receipt of the supplies and installation completion at site .
- 10% of the invoice value on receipt of the supplies at site and acceptance by ITI Data Center.
- 10 % of the invoice value on Retention.
- Total Value of Orders will be placed on phase basics

B. BANK GUARANTEES:

- The PO shall be issued to the selected bidder on submission of a Bank Guarantee

(BG) for 10% of the total contract value, valid for 36 months, towards successful commissioning of the project.

- The BG/PBG shall be submitted from a Nationalized Indian Bank/ Scheduled Commercial Bank in the Bank Guarantee formats (model) as enclosed in Annexure –III after necessary formative changes, where required.

C. LIQUIDATED DAMAGES:

- Selected bidder shall be required to complete the assigned works within the period stipulated in the RFP. In case of delay which may occur due to the reasons beyond the control of selected bidder, selected bidder would approach ITI with full details for extension and time limit for completion of the work.
- If the delay in completion is attributable to the selected bidder, selected bidder shall be liable to pay as Liquidated damages to ITI a sum calculated @ 0.5% of the One Time Cost (supply and installation value) per week of the delay or part thereof subject to a maximum of 10% of the OTC (supply and installation value).

VIII. REQUIREMENTS AND SPECIFICATIONS

SCOPE OF WORK

The broad scope of the RFP is given below:

- Supply, Implementation, Testing and Commissioning of IPPBX with 02 PRI, 08 CO ports, 08 Digital ports and 224 Analog Extensions with 02 port Voice Guidance expandable to 512 ports
- SITC of IP IPPBX System & required Software's
- SITC of MDF & IDF on different buildings in the same Campus.
- SITC of Laying Cables, Connectors, Jumpers and with Proper Dressing & Tagging.
- Integration with existing EPBAX systems within Range of 2 -5 KM
- Supply and Installation of Krone type distribution Box Metallic suitable for fixing Krone type termination
- Supply & laying of PVC Conduits 2 inch by fixing firmly on wall surface
- Surface cable laying charges by pulling cable through the defined path within the building premises
- Termination work by punching down telephone cables at the krone type DP (Quote rates per pair end) by properly cutting ends with neat dressing and

tagging

- Comprehensive AMC for a period of 2(Two) year after successful completion of the guarantee period for the Complete System.

Delivery, Installation & Maintenance

- The bidder is responsible for supply and delivery, commissioning of IPPBX Management solution at sites including integration, acceptance testing and documentation.
- The bidder is responsible for supply and delivery of all related software's licenses, subscriptions, Up gradation etc and no hidden cost will be there
- The bidder shall ensure compatibility of the hardware, software and other equipment that they supply with the hardware and software systems being used in the ITI Datacenter.
- The bidder shall be responsible for installation and commissioning and other related activities such as unpacking, uncarting, inspection etc.
- During the installation, the bidder shall check software availability of modules as per the delivery schedule list. If any of the software/ Hardware modules are not delivered/not as per the specification etc., the bidder or their engineer/s at the site shall take immediate steps and ensure all the software modules are delivered so that the installation is not hampered. The Bidder shall have to arrange for all testing equipment and tools required for installation, resources, maintenance, and also arrange the vehicle for transport at no additional cost to ITI.
- These selected Bidders should co-ordinate with the if any, for integration of the IPPBX (to be supplied). In case of any integration problem/s with the existing Vendors, the selected Bidder will be responsible for resolving the same at no extra cost to ITI.
- Bidders are advised to do the site survey before participation in the tender.
- All registrations (Hardware & Software) should be done in the name of ITI Ltd only.
- Any travel, boarding and lodging incurred by the Bidder for supply, installation, integration, testing and commissioning of Active IPPBX equipment will be borne by the Bidder himself.

Scope of Acceptance testing and commissioning

After installation and configuration of each and every subsystem, integrating various systems and providing various services, tests shall be conducted for system performance as a whole.

- a) Commissioning shall mean end-to-end commissioning of the with testing of all Nodes. Test parameters, commitments etc. shall be submitted along with implementation plan, which shall be approved by ITI.
- b) In the event, the test parameters, commitments are not submitted or not accepted explicitly in writing/minutes by ITI, the Test parameters, commitments etc as decided by ITI will be final and binding.
- c) The successful Bidder, along with ITI shall prepare an inspection and acceptance schedule with details of each activity.

Scope of Documentation

- a) The successful Bidder should provide complete documentation for the product supplied, troubleshooting procedure, and escalation matrix to ITI.
- b) Providing original manuals and warranties copies of all hardware items supplied.
- c) Implementation plan, to be approved by ITI before initializing the installation and configuration activity.
- d) Test parameters, commitments etc. for acceptance testing to be enclosed along with Implementation plan.
- d) Technical write up of the software design and functioning.
- e) Operator manual for the devices
- f) Acceptance test reports and work completion reports to be submitted as per the scope
- g) Any other Relevant Documentation.

Scope of Training

- a) Training on the configuration be given to ITI identified personnel.
- b) EPBAX config and user manual for the above (shall be made available in soft copies).

Warranty and AMC

- The Products supplied by the bidder shall carry minimum 36(12+24) months Comprehensive onsite warranty covering total equipment & related software from the date of acceptance. Necessary certificate for the same needs to be provided. Warranty and AMC terms & conditions shall cover the total OS, system software, software subscriptions, firmware etc procured from the

OEM, with maintenance (Minimum 24/7 support) by email, telephone and onsite support, if any. Warranty terms shall also cover the task of configuring/re- configuring the EPBAX, operating system, other hardware/software resources, Operating System Hardening, Loading of the other system software procured either from the bidder or any other vendor, Hard Disk Configuration, Performance tuning, Loading & configuring operating system updates, patch updates, firmware upgrades, integrating with other hardware procured by ITI and any other tasks related to Hardware & System Software Management.

- All the software licenses, upgrades, subscriptions must be for at least 3 years from the date of acceptance.
- All registrations (h/w and s/w) should be in the name of ITI Limited only.
- In the case of authorized channel partners, Warranty shall also include the cost for the back to back arrangement with OEM for critical support (highest level of support), maintenance of providing support services, updates, if any required.
- Besides general warranty support, critical support (highest level of support) details should be furnished. The successful bidder shall be agreeable to enter in to Service Level Agreement with ITI covering Warranty terms and conditions.
- Third party warranty certificate/s if any other than OEM products should be provided to ITI. However, the responsibility of comprehensive Warranty period lies primarily with the OEM only.
- The Bidder will provide a Single point of contact of OEM with whom ITI will coordinate for the warranty services.
- Necessary documents related to the critical level of support (highest level) for the OEM to be submitted by mentioning the hierarchy of the level of the support pack available with the OEM portfolio are also required to be submitted during the tendering process.
- The bidder should provide an onsite support/service personnel for One month from the date of commissioning and acceptance of the system.
- Third party Audit report has to be submitted after implementation.

Estimated Telephone Requirement

SUMMARY	Total
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Wired	231
Wireless	6

IX. Technical Specification: IPPBX

A. IP-PBX Specification	
1. System Features:	
1	The system should provide advanced, embedded solutions without the need of any external hardware & software. It should have strong convergence solution for voice, Internet, e-mail applications including LAN services.
2	The IPPBX should be configured for 02 PRI / 224 extensions/ 08 Trunk ports / 08 Digital ports and two Operator KTS in the same system.
3	The IPPBX should be configured for 32 SIP trunk / 32 SIP extensions in the same cabinet
4	The system should be modular at every level; it should be rackable, stackable.
5	The system should have universal slots for the interface boards.
6	The system should provide the following features as part of the system without the need for any external hardware or software:
7	The system should be a hybrid PBX supporting IP, Analog and Digital Extensions.
8	The system should support standards-based multi-site networking, using QSIG, H.323 trunks or advanced networking, to interoperate with other PABX's, allowing feature transparency.
9	System should be able to provide centralized voicemail with the option of Distributed centralized voicemail in case of connectivity failure.
10	The system should support BRI/ PRI/ T1/ E1/ E1R2/ Analog Trunks.
11	The offered system should have a valid TEC approval. TEC approval certificate copies for ISDN connectivity should be enclosed along with the offer.
12	The system should have in-bulit 2 port auto-sensing 10/100 Mbps LAN Switch (Layer 3)
13	The system should support X.21/V.35 WAN Interface.
14	The system should support internal MOH (Music on Hold), which should be uploaded using the .Wav file and should have an audio input port for external MOH connectivity.
15	System should support standards-based CTI integration with 3rd party applications
16	The system should be 19" rack mountable.
17	Manufacturer should be in Gartner's Magic Leaders Quadrant atleast 3 times in last 5 years.
18	The system should register the Roombased Video Conferencing Units and Telephony Users should be able to make & received video calls with the Roombased VC Units
2. Telephony Features	
Besides the normal Telephony features, the system should support the following features.	
1	Absent Text
3	Call Coverage
4	Call Forwarding
5	Call Hold

6	Call Intrude
7	Call Park
8	Call Pickup
9	Ring Back When Free
10	Suspend Call Waiting
11	Reclaim Call
12	Distinctive and Personalized Ringing
13	Toggle Calls
14	Account Codes
15	Call Barring
16	Authorization codes
17	Bridged Appearance
18	Group Paging
19	Hot Desking
20	Mobile Twinning
21	Least Cost Routes
22	Flexible numbering Schemes
23	Queuing
24	Call Detail Recording
25	SMDR
3. Data Communication Features:	
1	INTERNET ACCESS: Firewall protected, leased line or dial-up connectivity via PRI, T1 or WAN port
2	System should have in built-in DHCP Server, which should be able to given IP Addresses to the endpoints.
3	System should have a Built-in Firewall functionality
4	System should support built-in IPSEC based VPN connectivity
5	System should support built-in Remote access server (RAS) functionality.
6	System should have built-in LAN and WAN ports
7	System should have a built-in Internet Access Router
8	System should have Integral Static or Dynamic (RIP I/II) routing for both Internet and Branch-to-Branch solutions
9	System should support Frame Relay WAN protocol
10	System should support Diffserv for QoS (Quality of service) for the voice packets traveling over data networks
11	System should support ISDN backup feature in case the FR network is not available
12	System should support NAT
13	System should support LDAP (Local Directory Access Protocol)
14	System should support the following protocols: PPP, ML-PPP, CHAP, PAP, ARP, BACP
4. Terminal Support :	
1	System should support the following type of terminals
2	Analog Phones
3	Digital Phones
4	IP Hardphones
5	IP Softphones

6	Wireless IP Phones
7	3rd party SIP telephones
8	DECT Phones
9	ISDN Extensions
5. Extensions and Trunks:	
1	System should be able to support up-to 1000 extensions in any combination of Analog, Digital & IP and should be upgradable upto 3000 extensions in future.
2	System should support up to 16 analog trunks or 8 digital trunks (240 E1 Channels)
3	System should have built-in H.323 gateway and gatekeeper functionality without the need to put any additional hardware
4	System should support SIP trunking to Internet Telephony Service Providers, allowing non-SIP phones to make SIP calls
5	System should support following types of trunks
a.	T1/ E1/ E1R2
b.	Analog Trunks
c.	PRI
d.	BRI
6. Voicemail Features	
1	System should support PC-BASED Voice mail system.
2	Voice mail system storage should be dependent on the PC hard disk storage capacity.
3	Voicemail to email option should be available
4	System should support unified messaging with Microsoft Exchange or any IMAP compliant email application.
5	System should support voicemail access through web-browser
6	External Fax server integration should be available.
7	Should support text-to-Speech functionality
8	Should support Dial-by-Name functionality
9	Should support Auto Attendant
10	IVR functionality should be available
11	External Database Integration should be available during IVR call flows
7. Conferencing Features:	
1	The system should have built-in 4 x 30-party meet-me conferencing bank and 60 party in a single conference bank
2	Multiple conferences with variable number of users should be possible within each of the 2 conferencing banks.
3	System should be able to generate detailed reports about the conference
8. Call Recording:	
1	System should have in-built capability to automatically as well as manually record and store calls into any voicemail box or a central database, for later retrieval, sorting, searching through a web-based browser interface
2	Recordings should be able to be made on the basis of:
3	User ID
4	Account code
5	Hunt Group
6	Caller ID
7	Incoming call route

8	Time profiles
9	System should support automatic deletion of oldest recordings, if needed
10	System should provide optional archival of recordings by automatically writing them to a DVD +RW drive
11	System should support G.726 16kbps ADPCM standard for compressing and storing recordings, providing the best compromise between CPU loading and storage space
9. Mobility Support:	
1	System should support a graphical interface for call control, running on Windows Mobile 5 or 6, or Symbian mobile handsets, also allowing a one-number service for both incoming and outgoing calls
2	System should support Mobile Twinning, enabling an extension and an internal/ external number to operate together as a single telephone. It should be possible to set external mobile devices as twinning targets, even if the primary extension is logged out/ unplugged.
3	System should be able to provide 'work from home' features like telecommuting and VPN hard phones.
10. Phone management through PC :	
1	System should support an PC based application for every user providing easy access to CLI display, telephony features, call information and call control
2	Application should support directory synchronization using LDAP
3	Application should allow users to book a conference or join a web-conference
4	Application should support up-to 1000 Speed Dial/ BLF entries
5	Application should allow integration with contact management applications
6	Application should allow users to play, rewind, fast-forward, save or delete their voicemail messages.
7	Application should allow users to open or close up-to 2 external relays to activate external systems like door-entry control, security camera etc.
8	Application should provide to call history of up-to 100 Incoming/ Outgoing/ Missed calls each, to every user.
9	Application should allow receiving and making calls and retrieving voicemails from an external phone number as if it was in office.
10	Application should be able to function as a soft-phone, eliminating the need for a physical phone
11. Wireless Support:	
1	System should support wireless IP Phones which will work through the Access Points which are being used for Wireless Data network supporting 802.11a/b/g protocol.
2	System should support IP DECT, wherein the system and the Base Station are connected over the IP Network
12. Computer Telephony Integration:	
1	CTI capability should be in-built in the platform
2	System should support CTI using open standards over LAN
3	System should be able to provide 1st party CTI as well as 3rd party CTI control to external applications.
14. Management utilities:	
1	System should be able to be configured and administered using a GUI based application
2	System should support SNMP based network management

3	In case SNMP management is not available, system should be capable of sending event notifications to up-to 3 email addresses, each with a different set of alarms
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X. SUBMISSION OF Tender:

The Tender must be legible without any correction and if so, shall be done only by the bidders. The focus of the receipt of the bids is to empanel the Agency based on credentials, achievements and total competence. The Technical Bid should be submitted in sealed cover, super scribing “**ITI/BGP/DC /IPPBX/2020-21.**”

ITI may at any time nullify this Tender process or change either the whole part or certain aspects to suit its requirement without citing any reason.

XI. Commercial Conditions: The Bidders shall meet the following Commercial Conditions:

1. Necessary records/ Documents may be maintained as required by ITI to be made available whenever required by ITI for claiming payments from ITI.
2. Payment due to the successful bidders shall be paid only on receipt of Invoice from the Bidder .
3. ITI reserves the right to reject any or all the tenders or to accept in part without assigning any reason therefore and ITI’s decision in the matter will be final and binding on all the bidders.
4. ITI will provide option for exit clause after evaluating the Partners Support and pricing structure after Three years based on Mutual agreement with Bidder. The terms and conditions for agreement cancellation clauses will be decided at the time of agreement

Note:

1. The bidder shall fill in all the columns with relevant information / data.
2. The bidder who offers Best Price to ITI Ltd will be selected as ITI’s partner for this Eol.
3. All payments will be in Indian Rupee after deduction of all taxes applicable.

XII. ESSENTIAL DOCUMENTS TO BE ENCLOSED WITH BID DOCUMENT

(Checklist of bid documents)

The Bidder shall be accompanied with copies of their competence

- a) Company Profile
- b) Certificate of Incorporation
- c) Memorandum & Articles of Association
- d) Audited financial statements for the last 3 years 2017-18 ,2018-19 and 2019-20 along with CA certificate.
- e) Positive Net worth Certificate of last 3 years.
- f) Quality certificate like ISO 9001:2015, ISO 27001, ISO 20000-1.
- g) Undertaking as The Bidder shall not be under a Declaration of Ineligibility for corrupt or fraudulent practices or should not have been Blacklisted for fraudulent practices by Central / State /UT Governments or Public-Sector entities as on submission of EOI proposal in company letterhead
- h) Undertaking for willingness to work with ITI on back to back basis as per customer tender/EOI etc. terms and conditions.
- i) Undertaking expressing willingness to sign MOU with ITI
- j) GST Registration Certificate.
- k) Copy of PAN Card
- l) CIN (Corporate Identity Number), if applicable
- m) Authorization letter in the company letterhead authorizing the person signing the bid for this EOI or Power of Attorney (POA)
- n) Undertaking in letter head to indemnify ITI from any claims / penalties / statutory charges, liquidated damages, with legal expenses etc.
- o) Bidders Details as per Annexure I
- p) Clause by clause compliance of EOI terms with references to supporting documents as per Annexure II

This is apart from documents as mentioned in minimum Eligibility criteria.

XIII. EVALUATION PROCESS

1. Each Agency shall submit their proposals with technical Bid.
2. ITI will constitute an Evaluation Committee to evaluate the responses of the applicants.

3. The Evaluation Committee constituted by ITI shall evaluate the responses to the Rfp and all supporting documents & documentary evidence. The committee may seek additional documents as it deems necessary.
4. Each of the responses shall be evaluated to validate competence of the applicant according to the supporting documents specified in this document.
5. The decision of the Evaluation Committee in the evaluation of responses to the RFP shall be final.
6. No correspondence will be entertained outside the evaluation process of the Committee.
7. The Evaluation Committee reserves the right to reject any or all proposals
8. L1 will be declared based on shared commercial details as per the Annexure IV.

XII. QUERIES

All queries may be sent to the following Officer of ITI by post, or e-mail on or before
24-11-2020 14:00 PM

FOR TECHNICAL BID

Contact details:

Anila Sharda
Deputy General Manager- Data Center
Email ID: anilasharada_bgp@itilttd.co.in

FOR COMMERCIAL BID

Contact details:

Rosario
Asst Manager- Central Purchase
Email: rosario_bgp@itilttd.co.in
Ph: . 080 28503639

- a) All enquiries / clarifications from the Applicants, related to this EOI, must be directed in writing exclusively to the contact person(s) and enquiries received after the due date shall not be entertained.
- b) The preferred mode of delivering questions is through e-mail. Telephonic responses, if sought for, shall not be treated as valid responses. The queries by the applicants shall be raised in the following format.

Sl. No.	Page No.	Clause of The EOI	Clarification needed

XII. GENERAL CONDITIONS

- i. Bidders shall send their proposal in single sealed cover containing two separate sealed covers (Technical and Commercial) to the following address:

Mailing Section

**Deputy General Manager
Central Purchase ITI Ltd Bangalore
Dooravani Nagar, Bangalore**

ii. Period of Validity of offers:

The offer shall remain valid for a period of at least 180 days from the due date of bid submission. Offers valid for a shorter period shall be rejected.

iii. The last date for receiving the proposal **30-11-2020 14:00 HRS**

iv. In case the date of submission of bid is declared to be a holiday, the bid may be submitted on the next working day of ITI.

v. Late offer:

Any offer received after the prescribed timeline shall be rejected and shall be returned unopened to the vender.

vi. Language of offers:

The offers prepared by the vendor and all the correspondences and documents relating to the offers exchanged by the vendor, shall be in English language.

vii. Award of Contract:

After completing evaluation and selection for 3years and further may be extended subject to performance and review.

viii. Authorized Signatory:

All certificates and documents received as part of the offer shall be signed by the Authorized Representative. The power or authorization, or any other document consisting of adequate proof of the ability of the signatory to bind the vendor shall

be submitted if demanded by ITI.

ix. The Indian Law shall govern the agreement.

Only appropriate courts in Bangalore shall have exclusive Court Jurisdiction to deal with any matter arising out of or relating to the agreement or otherwise.

x. Settlement of Disputes:

At any time, any question, dispute or difference what so ever which may arise between ITI Ltd and the bidder/partner, the same shall be decided by the settlement committee constituted by Chairman, ITI Ltd. The decision of the committee shall be final and binding on both the parties.

xi. No Assignment:

The bidder/partner shall not assign or transfer the contract or any part thereof during the contract period.

xii. ITI reserves the right to suspend or cancel the EoI process at any stage, to accept, or reject any, or all offers at any stage of the process and / or to modify the process, or any part thereof, at any time without assigning any reason, without any obligation or liability whatsoever.

xiii. Amendment of RFP:

At any time prior to the last date for receipt of offers, ITI, may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective vendor, modify the RFP document by an amendment. In order to provide prospective vendor reasonable time in which to take the amendment into account in preparing their offers, ITI may, at their discretion, extend the last date for the receipt of offers and/or make other changes in the requirements set out in the Invitation for RFP.

xiv. Disclaimer:

ITI and/or its officers, employees disclaim all liability from any loss or damage, whether foreseeable or not, suffered by any person acting on or refraining from acting because of any information including statements, information, forecasts, estimates or projections contained in this document or conduct ancillary to it whether or not the loss or damage arises in connection with any omission, negligence, default, lack of care or misrepresentation on the part of ITI and/or any of its officers, employees.

Bidders Profile

1.	Name and address of the company			
2.	Contact Details of the Bidder (Contact person name with designation, Telephone Number, FAX, E- mail and Web site)			
3.	Area of business			
4.	Annual Turnover for 3 financial years (Rs in Cr)	2017-18	2018-19	2019-20
5.	Date of Incorporation			
6.	Sales Tax /VAT Registration number			
7.	GST Registration number			
8.	PAN Number			
9.	CIN Number, if applicable			
10.	Number of technical manpower in company's rolls			
11.	Profiles of Team Leader & its member (Separately enclose)			
12.	Details of previous assignment (Separately enclose)			

Annexure-II**Compliance Statement**

S.No	Clause No.	Clause	Compliance (Complied/ Not Complied)	Remarks with Documentary Reference
1.				
2.				
3.				
4.				
5.				

PRE-CONTRACT INTEGRITY PACT

GENERAL

This pre-bid pre-contract agreement (hereinafter called the Integrity Pact) is made on day of the month of, between, ITI Limited, ITI Bhavan, Dooravaninagar, Bangalore – 560016, India, (hereinafter called the "BUYER", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s (*address of the Bidder*) (hereinafter called the "BIDDER " which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to invite Expression of Interest (EoI) for selection/empanelment of technology partner for a technical tie-up with ITI for the marketing/manufacturing of (*name of the product*) and the BIDDER is willing to participate in the EoI as per the terms and conditions mentioned thereon;

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership company (*strike off whichever is not applicable*), constituted in accordance with the relevant law in the matter and the BUYER is a PSU under the Department of Telecommunications, Ministry of Communications & IT, Government of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to: -

Enabling the BUYER to select/ empanel a technology partner for the marketing/ manufacturing of (*name of the product*) through the EoI in a transparent and corruption free manner, and

Enabling BIDDERS to abstain from bribing or Indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

1 Commitments of the BUYER

- 1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, 'organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
 - 1.2 The BUYER will during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
 - 1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2 In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

3 Commitments of BIDDER

3.1 The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following: -

- a) The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- b) The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or, execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Government.
- c) BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- d) BIDDERS shall disclose the payments to be made by them to agents/ brokers or any other intermediary, in connection with this bid/contract.
- e) The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/ integrator and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or

company in respect of any such, intercession, facilitation or recommendation.

- f) The BIDDER either while presenting the bid or during pre-contract negotiations or before signing the contract, shall 'disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- g) The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- h) The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- i) The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- j) The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- k) The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- l) If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

- m) The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4 Previous Transgression

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any 'corrupt practices envisaged hereunder or with any Public-Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5 Sanctions for Violations

5.1 Any breach of the aforesaid provisions by the BIDDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required: -

- a) To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- b) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- c) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission.
- d) To recover all sums paid in violation of this Pact by the BIDDER(s) to any

middleman or agent or broker with a view to securing the contract.

5.2 The BUYER will be entitled to take all or any of the actions mentioned above, also on the Commission by the BIDDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

5.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

6 Independent Monitors

6.1 The BUYER appoints Independent Monitor (hereinafter referred to as Monitor) for this Pact in consultation with the Central Vigilance Commission.

6.2 The task of the Monitor shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

6.3 The Monitor shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

6.4 Both the parties accept that the Monitor have the right to access all the documents relating to the project/procurement, including minutes of meetings.

6.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.

6.6 The BIDDER(s) accept(s) that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The Monitor shall be under contractual obligation to treat the information and documents

of the BIDDER with confidentiality.

6.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.

6.8 The Monitor will submit a written report to the designated Authority of BUYER within 8 to 10 weeks from the date of reference or intimation to him by the BUYER / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

7 Facilitation of Investigation

7.1 In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

8 Law and Place of Jurisdiction

8.1 This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

9 Other Legal Actions

9.1 The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

10 Validity

10.1 The validity of this Integrity Pact shall be from date of its signing and extend up to the contract period with the BUYER in case a contract is signed. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

10.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of

this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

11 The parties hereby sign this Integrity Pact.

BUYER

BIDDER

Name of the Officer.

CHIEF EXECUTIVE OFFICER

Designation

M/s (address)

ITI Limited

Data Center, ITI Limited

F-85, 1st Floor Bangalore Plant

Place: Bangalore

Place:

Date:

Date:

Witness:

1.

1.

2.

2.

Commercial

BOQ

SN	Item Code	Description	QTY	UOM
1		Reputed branded 100 Pair Jelly Filled Armored Outdoor Telephone Cables of length 350 Meters	1	Nos
2		Reputed branded 50 Pair Jelly Filled unarmored Outdoor Telephone Cables of length 200 Meters	1	Nos
3		Reputed branded 25 Pair Jelly Filled unarmored Outdoor Telephone Cables of length 200 Meters	1	Nos
4		Reputed branded 100 Pair Krone Module along with MDF Box inbuilt locking	4	Nos
5		Reputed branded 50 Pair Krone Module along with MDF Box inbuilt locking	2	Nos
6		Reputed branded 25 Pair Krone Module along with MDF Box inbuilt locking	4	Nos
7		Reputed branded Cable casing, capping and Fixing	60	Mtrs
8		IPPBX with 02 PRI , 08 CO ports, 08 Digital ports and 224 Analog Extensions with 02 port Voice Guidance expandable to 512 ports	1	Nos
9		EPABX system should be provided with 10 Amps, 24 volts FCBC.	1	Nos
10		Operator KTS	2	Nos
11		IP card with 32 SIP License	1	Nos
12		Reputed branded 24 Port Cat6 1RU Rack Mount Punch Down Patch Panel with Rj45 output	4	Nos
13		Reputed branded 12 Port Cat6 1RU Rack Mount Punch Down Jack Patch Panel with Rj45 output	3	Nos
14		Tobo DVI to HDMI; DVI (DVI-D) to HDMI Male to Female Adapter with Gold-Plated	5	Nos
15		D to VGA Active CONVERTOR (DVI D Male 24+1 PIN to VGA Female 15 PIN) - Suitable for Connecting Latest Graphic Cards with dvi d Out Put to VGA Display/projectors	5	Nos
16		USB to 9 Pin Serial (DB9) RS232 Adapter Cable	5	Nos
17		Female 9 Pin D-Sub to Male 9 Pin D-Sub	3	Nos

18		SITC of MDF & IDF on different buildings in the same Campus.	1	Nos
19		SITC of Laying Cables, Connectors, Jumpers and with Proper Dressing & Tagging.	1	Nos
20		Supply & Installations of Krone type distribution Box Metallic suitable for fixing Krone type termination	1	Nos
21		Supply & Installation of MDF & IDF on different buildings in the same Campus	1	Nos
22		Corded phone with handsfree speakerphone, 2 line operation with 3 way conference call , Conference calls, 20 station one touch dial and 10 station speed dial 16 digit LCD display with numeric keypad, ringer indicator , the phone Should works on the power of telephone line / Rechargeable Ni-MH battery	65	Nos
23		Cordless phone Call waiting and call share functions Large 1.8 inch LCD display Rechargeable Ni-MH battery	5	Nos

Bill of Quantities

SN	Description	QTY	UOM
1	Reputed branded 100 Pair Jelly Filled Armored Outdoor Telephone Cables of length 350 Meters	1	Nos
2	Reputed branded 50 Pair Jelly Filled unarmored Outdoor Telephone Cables of length 200 Meters	1	Nos
3	Reputed branded 25 Pair Jelly Filled unarmored Outdoor Telephone Cables of length 200 Meters	1	Nos
4	Reputed branded 100 Pair Krone Module along with MDF Box inbuilt locking	4	Nos
5	Reputed branded 50 Pair Krone Module along with MDF Box inbuilt locking	2	Nos
6	Reputed branded 25 Pair Krone Module along with MDF Box inbuilt locking	4	Nos
7	Reputed branded Cable casing, capping and Fixing	60	Mtrs
8	IPPBX with 02 PRI , 08 CO ports, 08 Digital portsand 224 Analog Extensions with 02 port Voice Guidance expandable to 512 ports	1	Nos
9	EPABX system should be provided with 10 Amps, 24 volts FCBC.	1	Nos
10	Operator KTS	2	Nos
11	IP card with 32 SIP License	1	Nos
12	Reputed branded 24 Port Cat6 1RU Rack Mount Punch Down Patch Panel with Rj45 output	4	Nos
13	Reputed branded 12 Port Cat6 1RU Rack Mount Punch Down Jack Patch Panel with Rj45 output	3	Nos
14	Tobo DVI to HDMI; DVI (DVI-D) to HDMI Male to Female Adapter with Gold-Plated	5	Nos
15	D to VGA Active CONVERTOR (DVI D Male 24+1 PIN to VGA Female 15 PIN) - Suitable for Connecting Latest Graphic Cards with dvi d Out Put to VGA Display/projectors	5	Nos
16	USB to 9 Pin Serial (DB9) RS232 Adapter Cable	5	Nos

17	Female 9 Pin D-Sub to Male 9 Pin D-Sub	3	Nos
18	SITC of MDF & IDF on different buildings in the same Campus.	1	Nos
19	SITC of Laying Cables, Connectors, Jumpers and with Proper Dressing & Tagging.	1	Nos
20	Supply & Installations of Krone type distribution Box Metallic suitable for fixing Krone type termination	1	Nos
21	Supply & Installation of MDF & IDF on different buildings in the same Campus	1	Nos
22	Corded phone with handsfree speakerphone, 2 line operation with 3 way conference call , Conference calls, 20 station one touch dial and 10 station speed dial 16 digit LCD display with numeric keypad, ringer indicator , the phone Should works on the power of telephone line / Rechargeable Ni-MH battery	100	Nos
23	Cordless phone Call waiting and call share functions Large 1.8 inch LCD display Rechargeable Ni-MH battery	5	Nos