

**Dedicated Freight Corridor Corporation of India Limited**

**Corrigendum No. 2 Dated 11.08.2020**

**Tender No.:** HQ/GGM/S&T/WC/ PBX

**Name of Work:** Supply, installation, wiring, testing & commissioning of IP server based EPABX system along with associated accessories in DFCCIL Corporate office, Pragati Maidan, New Delhi.

Sr. No.	Clause No.	Existing Clause	To be read as.
1	6.2.9	The Contractor must submit valid Lates TEC approval certificate for the particular model of system quoted and the same must be issued in the name of Manufacturer/dealer/tender.	The tenderer must submit a valid TEC certificate as per TEC/GR/SW/PBX-005/01/SEP-16 or latest for the particular model of system Quoted and the same must be issued in the name of Manufacturer/ any dealer of OEM / Bidder.
2	6.2.7	The supplied system should be interfaced with existing EPABX Hipath 4000 installed at DFCCIL CO to work in an integrated manner. The supplied system should have facility to access MTNL lines through existing EPABX	The supplied system should be interfaced with existing EPABX Hipath 4000 installed at DFCCIL CO to work in an integrated manner. The supplied system should have facility to access MTNL lines PRI / SIP trunks through existing EPABX. Interface with Siemens Hipath 4000 shall be the responsibility of contractor.
3	<b>Annexure (Section 6) SN-25</b>	Active/Active servers in cluster should be expandable up to minimum of 25000 ports in any combination (Analog/Digital/CO/PRI etc.) Documentary Proof need to Submitted for this purpose.	Active/Active servers in cluster should be expandable up to minimum of 10000 ports in any combination (Analog/Digital/IP/CO/PRI etc.) Documentary Proof need to Submitted for this purpose.
4	<b>New Clause:</b>	xx	Provision of Government of India( DPIIT ) order Dt.04/06/2020 or latest regarding "Public Procurement ( Preference to make in India), order 2017", modified from time to time shall be applicable.
5	6.3.3	All components used in the exchange shall be non-inflammable or self- extinguishing type and be fully tropicalized.	NOT APPLICABLE
6	6.3.18(b)	Gatekeeper redundancy for HFA subscribers. PKI integration for Signaling and Payload encryption. Multi-Level Precedence and Pre-emption(MLPP).Mobile HFA(network-wide user mobility).Acoustic and visual status for Signaling and Payload encryption	NOT APPLICABLE
		Different time zones & Multilingual user interfaces:	NOT APPLICABLE
		Display of a picture from an LDAP directory in a call :	Built in LDAP (Lightweight Directory Access Protocol) . It shall be possible to extract all user details (Phone Book, Names etc.)
7	<b>ANNEXURE (SECTION 6) SN-35</b>	Certification Requirements 1. The OEM must comply with ISO 9001 certification in all the company's activities. 2. The products must comply with Safety and EMC standards, including FCC, UL/TUV, CE, and the RoHS directive.	NOT APPLICABLE
8	<b>ANNEXURE (SECTION 6) SN-38</b>	Meet-Me Conference upto max 120 Parties in SingleConference/ in different programmable Configuration.	The Conference System should be the same OEM make and have the facility to connect up to minimum 120 participants in a single conference Group or combination of Groups and participants can be manageable. any combination of conference groups shall be able to connect simultaneously or more conferencing with any combination of extension and Trunks as per requirement.
9	<b>ANNEXURE (SECTION 6) SN-32</b>	Remote Gateway should provide survival mechanism that allows them to maintain minimum number of essential telephony services for their users, in case of failure in the LAN/WAN links where the signalling with the call server drops.	Media gateway should continue to work independently in case of Network Connectivity failure. Once the Media gateway works in survival mode, it should provide all standard 100 % features of a standalone PABX and shall not have any feature limitations or degradation of services.
10	6.3.18 C	Terminal Support: DOT PRI/BRI/E1.	Terminal Support: DOT PRI/E1.
11	6.3.18 D	The Conference System should be the same OEM make and have the facility to automatic dial out to connect up to 120 participants in a single meet-me conference. The managed conference should run on a SIP phone. The conference must be able to be controlled by a user defined as Group Operator. The Group Operator should have the option to execute the following commands using a SIP phone: Pre-emption predefined rules.	(1)The Conference System should be the same OEM make and have the facility to connect up to minimum 120 participants in a single conference Group or combination of Groups and participants can be manageable. (2) Minimum 6 conference groups shall be able to connect simultaneously or more conferencing with any combination of extension and Trunks.
			NOT APPLICABLE

Sr. No.	Clause No.	Existing Clause	To be read as.
12	6.3.1(b)	The system shall be able to operate in ambient temperature range -5 to+45 degrees Celsius.	The system shall be able to operate in ambient temperature range 0 to +40 degrees Celsius.
13	<b>New Clause:</b>	xx	(1) IP Basic Phone Model: Tadiran T21P-E2/Alcatel 8008/ Unify-CP 200 basic or similar. (2) IP Executive Phone Model: Tadiran T48G/Alcatel 8028s/ Unify-CP 600 Executive or similar
14	<b>6.3.12 and 6.3.13</b>	<p>High End Server should be commercially of the shelf (COTS) and should not be proprietary, must be 19” rack mountable like HP/Dell or similar.</p> <p>6.3.13 or similar reputed make and should have following minimum specification:-</p> <ul style="list-style-type: none"> <li>i. Processor: - Intel Xeon silver of higher</li> <li>ii. RAM: - 16 GB (min) DDR4.</li> <li>iii. HDD:- 1 TB or higher, Hard swappable (2 Nos)</li> <li>iv. Should have RAID controller.</li> <li>v. Should have DVD R+W</li> <li>vi. LAN Port Interface: - Should have minimum 4 nos. of Gigabit Ethernet Port</li> <li>vii. Support for high availability clustering &amp; virtualization.</li> <li>viii. Redundant Power supply (AC 220 V, 50 Hz)</li> </ul>	<p>1. High End Servers (Two) with the following Configuration or latest/higher version with One Monitor</p> <ul style="list-style-type: none"> <li>a) 2 x Processor, Intel Xeon E5 2620v4 (Dual 8 Core) 3 GHz Processor or higher Cache 20MB</li> <li>b) FSB 1866 MHz</li> <li>c) STD memory 2 x 16 GB, 2133 MHz, Dual Rank, x8 Data width</li> <li>d) Max Memory 192 GB: 12 Slots</li> <li>e) Should be equipped with 4 x 1TB, 7200 rpm hot pluggable SATA 3 (6 Gbps) enterprise disks suitable for working 24 x 7 basis. NLSAS 12 Gbps, Hard Drive</li> </ul> <p>2. The Server should be equipped with suitable hardware to configure the 4 x 1TB HDDs in a RAID 5 configuration with 1 HDD as spare. Also, RAID 0 and RAID 1 must be supported. The RAID hardware shall also support Linux (Debian/Centos/Ubuntu) operating system to run the IP PABX software proposed in the solution.</p> <p>3. It should work with the latest open source Linux (Centos/Debian or Ubuntu distribution) operating systems and in case there are additional drivers required, the same shall be provided.</p> <ul style="list-style-type: none"> <li>a) 8 Bay (3.5”) Hot Plug SATA / SAS</li> <li>b) Broadcom QUADPORT LAN CARD 1GbE BASE-T, remote antenence.</li> <li>c) Optical DVD writer (Internal or External)</li> <li>d) PCI Slots 3LP Stand up PCIe Slot + 1 FH I FL + IFH/HL or S HH/HL Card</li> <li>e) Raid Capability Raid 0, 1, 5 (H730) with 1GB NVCache</li> <li>f) Dual, Hot-plug, Redundant(loaded) AC Power Supply (1+1) modules.</li> <li>g) Mother Board: OEM/Intel Original Motherboard.</li> <li>h) 1 x 18.5" LED Monitor.</li> <li>i) 1 x Standard USB Mouse and Key Board</li> <li>j) No card based processor system/soft switch should be quoted.</li> </ul> <p>Note: The above specifications are minimum and the system should be able to cater future requirement as per Tender Document.</p>