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***EXPRESSION OF INTEREST
(Advt. No. Pur-73/2015-16)***

The Director CSIR-IMTECH intend to procure and establish Local Area Network (LAN). Interested participants/reputed Indian/foreign manufacturers and authorized dealers may attend pre-indent conference at GNRPC Conference Room (Gr. Floor) on 06.10.2015 at 11.00 A.M. along with latest technology, proposals, Presentation and Demonstration.

**EXPRESSION OF INTEREST (EoI) FOR INSTALLATION, COMMISSIONING
AND CONFIGURATION OF LOCAL AREA NETWORK (LAN) OF CSIR-
IMTECH CAMPUS**

INTRODUCTION

Institute of Microbial Technology (IMTECH) is a premier research institution. All major locations including residential area and hostels are covered and connected with existing Local Area Network. Bioinformatics Centre manages its Data Centre and high performance computing facility. The centre is supported by redundant un-interrupted power supply and High Capacity precision cooling system for computing facility to the scientists, staff and students.

Through this Expression of Interest (EoI), CSIR-IMTECH is inviting technical proposal from potential Original Equipment Manufacturers (OEMs) and/or authorized channel partner or agents and system integrators for LAN solution to address the current and immediate future requirements. Authorized channel partner or agents and system integrators will be referred to as vendor. OEMs/Vendors who have experience in providing solutions of Local Area Network including wireless network solution with both active and passive components area with special reference to research institutions are welcome to participate.

SCOPE OF WORK

CSIR-IMTECH is inviting technical proposal from OEMs/vendors for establishing local area network.

Technical requirements of LAN solution

1. The objective is to provide single mode preferably six core OFC backbone and connected by core switching technology at different locations within IMTECH campus. At a few of the locations such as 3rd, 4th and 5th floor of main building, PA hostel, guest house etc. The connectivity shall be provided using mixture of new and existing active and passive components of LAN. Final established LAN will cater to ~2000 IP devices (i.e. with ~700 concurrent users) with scope of expansion of 5-10% each year for at least next 5 years.
2. Managed core switch preferably with redundant power supply etc. housed in data centre of GNRPC building along with distribution/edge managed switches is to be considered for this LAN solution.
3. The proposed solution will involve laying of OFC to different locations in IMTECH campus using latest techniques with no/minimum damage to premises. These locations along with distances between these are given in annexure-I.

4. I/O point will be near the door of each room/location [approx. 75] for wireless connectivity/downlink at i. ground, 1st and 2nd floors of main building; ii all floors of BERPDC; iii. Stores & Purchase building. UTP networking will not be extended inside these rooms. However, scope for approx. 10 wired devices connected to this LAN in a room/hall in future should be kept in mind.
5. A controller should be established to manage minimum of 30 wifi access points/devices including a minimum of 5 medium to high density devices over LAN. Controller should be capable of handling 200 such access devices in near future. Wifi devices need to meet latest standards of IEEE.
6. Installation, commissioning and configuration of all network devices shall be part of the scope of work. This will include establishment of centralized network management system (NMS) for this LAN. Established LAN will be subjected to different tests including penta-scanning etc.
7. Proposed equipment must conform to safety, environmental and regulatory European and American standards. All relevant documents must be supplied to support this.
8. Complete technical details on hardware infrastructure (such as rack, switches, power, cooling, space and other installation requirements etc.), software (for monitoring system management, health, etc.) shall be provided. The licensing policies for software must be mentioned clearly.

INSTRUCTIONS TO OEMs/VENDORS FOR SUBMISSION OF EOI

- The participating firm must submit i. an authorization of OEM for participating in this activity, supply and maintenance of equipment/goods, ii. a certificate that equipment/goods offered are not end of line or service, with full support of warranty of goods for three to five years.
- The vendor, in the last three years, should have supplied and installed at least two LAN solutions with same or higher capacity. Documentary evidence to this effect has to be enclosed along with the proposal giving details of the technical solution and contact details of the purchaser.
- The OEMs/vendor should have the main/branch office in India to ensure next business day after sales service support.
- OEMs/vendors are free to survey IMTECH premises on any working day.
- A vendor can provide one LAN solution in which only one OEM each for switching and for wifi devices can be included.
- Proposal LAN solution has to be complete in all respects, self contained and address all the requirements comprehensively, as stated. OEMs/Vendors are required 1. to make presentation of LAN solution taking into consideration the scope of work as mentioned above, at CSIR-

IMTECH on the 6th Oct., 2015 (11:00am) in pre-indent conference 2. submit a soft copy this presentation in word or excel format along with proposal and supporting technical sheets. Hard copies of documentary evidence/proofs as stated above must be submitted.

- All purchase rules of CSIR are applicable for this EoI.

OFC Connectivity among different locations of CSIR-IMTECH campus

Annexure-I

