

TENDER

FOR

**PROVIDING & FIXING NETWORK SWITCHES AND
EXTENSION OF DATA CABLE FROM
EXISTING SERVER ROOM TO SILVER JUBILEE
BLOCK AT NIIST, THIRUVANANTHAPURAM**

**PART-III
PRICE BID**

**TENDER NO. HLL/ID / 14/30
APRIL 2014**



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1 COMMERCIAL CONDITIONS

1.0.1 The tendered rate shall inter alia be deemed to include for the provision of all materials, process, operation and special requirements detailed in the particular specification irrespective of whether these are mentioned in the description of equipment schedule and Bill of quantities or not. It is an express condition of the contract that the tendered rates for various items in the Bill of Quantities shall be deemed to include for the full, entire and final condition of the contractor respective items of the works in accordance with the provision of the contract.

1.0.2 The tendered rate shall include for all taxes, duties, etc. as applicable and shall be quoted on the works contract basis for Providing and fixing Network switches and extension of Data cable from existing server room to Silver Jubilee Block at NIIST, Thiruvananthapuram.

1.0.3 The tendered rate shall remain firm and free from variation due to rise in the cost of materials/equipment, labour or any other reasons whatsoever during the contract period and valid extension on the case may be.

1.0.4 The quantum of excise duty included in the tendered price, the rate at which they were assumed etc. shall be indicated in the tender.

1.1 UNIT RATES

1.11 Only approved work will be measured on completion and priced as per rates quoted against the respective items.

1.2 BRIEF DESCRIPTION OF PRICING

1.2.1. Unforeseen difficulties for which provision has not been made in the tender will in no way relieve the successful tenderer from the full execution of the work.

1.2.2 The price quoted shall be the final amount for this finished work.

1.3 INCOME TAX

Any payment to the contractor as per contract, will be made after deducting income tax as per the rules and regulations.

1.4 SALES TAX AND EXCISE DUTY

The tenderer shall clearly indicate sales tax, service tax in case of proprietorship, Excise and other duties as applicable in his offer for carrying out this work.

1.6. SUBMISSION OF BILL

1.6.1. The contractor shall from time to time prepare and submit interim bills of the work executed and on completion of the contract, he shall prepare and submit the final bill. The measurements sheets in support of the interim and final bills shall be prepared by the contractor on the basis of measurements taken by him jointly with the project engineer and the said measurement sheets shall be submitted by him with the relevant bill.

1.7. EXTRA ITEMS

The contractor is bound to carry out any items of work necessary for the completion of the job even though such items may not have been included in the schedule of probable quantities or rates, such items being necessary or essential for completing the job. Variation order in respect of such additional items and their quantities will be issued in writing by the employer.

1.7.1 All shavings, cuttings and other rubbish as it accumulates from time to time during the progress of work and on completion including that of the sub-contractors and special tradesman and all materials condemned by the project engineer shall be cleared and removed from the site by the contractor without any extra charge.

1.7.2 All measuring steel taps, scaffolding, ladders instruments and tools that may be required for taking measurements shall be supplied by the contractor.

1.8. OVER TIME WORK

If the contractor is required to work night or on holidays in order to maintain the time schedule he shall take prior approval from the Engineer-in-charge. He should also provide and maintain at his own cost sufficient lights as may be necessary to enable the work to proceed satisfactorily during the night.

- 1.8.1. The contractor shall give full facilities to all other contractors working on site. He shall also arrange his programme of work so as not hinder the progress of other trades. The decision of the Engineer-in-charge on any point of dispute between the various parties shall be final and binding.
- 1.8.2. It is specifically pointed out that the contractor shall not be entitled to any compensation whatsoever on account of delay in procurement or supply of controlled materials and the rates quoted in the contract are fixed till the completion of the contract.
- 1.8.3. The contractor shall co-operate with other agencies appointed by the owners for the work to proceed smoothly with the least possible delay and to the satisfaction of the owners, architects and the consultants.
- 1.8.4. The owners shall provide a source for power supply at one convenient point at site. The contractor shall at his own cost install a separate meter at the said source and lay additional cables from the said source also at his own cost. For the electricity consumed by the contractor he shall pay the owner the actual cost at the rate charged by the local authority for power for constructional purposes. The contractor shall also obtain the necessary permit for utilizing power for constructional purposes.

2 SPECIAL CONDITIONS

2.1. EXECUTION WORK

- 2.1.1. The whole of the work as described in the contract (including bills of materials, specification and all drawings pertaining thereto) and as advised by the Engineer-in-charge from time is to be carried out and completed in all parts to the entire satisfaction of the Employer. Any minor details of construction which are obviously and fairly intended, or which may not have been definitely referred to in this contract, but which are usual construction practice and essential to the work, shall be included in this contract.

2.2. CERTIFICATE OF COMPLETION

- 2.2.1 The contractor shall intimate to the Engineer-in-charge in writing as and when the works are completed and put into beneficial use in order to enable the consultants to check certify to the owners to take over the plants.
- 2.2.2 The work shall not be considered as completed and put into beneficial use until the consultants have certified in writing that the same has been completed and put into beneficial use.
- 2.2.3 The defects liability period of one year shall commence from date of such completion or any specific date mentioned therein.

BILL OF QUANTITIES

ABSTRACT

SEC.	DESCRIPTION OF ITEM	AMOUNT (Rs.)
1	New Entrance Gate with security room	
2	Widening of existing road	
3	Construction of Pond	
4	Horticulture works	
5	Electrical Works	
	GRAND TOTAL	

Sl. No	DESCRIPTION	Unit	Qty	Rate in Rs (in words & in figures)	Amount in Rs
1	Supply, installation, testing & commissioning of Catalyst 4500E switches with 7slot chassis for 48Gbps/slot, 1+1 supervisor engine redundancy, redundant fans, software based fault tolerance, 1+1 power supply redundancy. integrated resiliency in both hardware and software. The system should include all required accessories, console cable 6 ft RJ45-to-RJ45 socket (CAB-CON-C4K-RJ45) including termination, etc for satisfactory operation. The system should meet CE marking, UL 60950, IEC 60950, CTR 12/13, ROHSS standards. (Make Cisco: WS-C4507R+E).	Each	1		
2	SMB support Assistant Service agreement SMBS 8X5XNBD for Catalyst 4500E switch with 7slot chassis for 48Gbps. (Cisco: CON- SMBS- C4507R+E).	Each	1		
3	Supply, installation, testing & commissioning of Supervisor engine 7L-E designed to provide 520 Gbps per system (Catalyst 4500 E series supervisor LE 520Gbps) for Catalyst 4500E series switch. The system shall have Flexible Net flow, 2 non-blocking 10 gigabit ethernet uplink or 4 non blocking 1 gigabit ethernet uplink, cisco universal power over ethernet, cisco IOS XE software, energy efficient ethernet, leading resiliency through in-service software upgrade, modular switch with 8 bi-directional line rate switched port analyser. The system should include all required accessories for satisfactory operation. The system should meet CE marking, UL 60950-1, IEC 60950-1, ROHSS standards. (Make Cisco: WS-X45-SUP7L-E).	Each	1		

Sl. No	DESCRIPTION	Unit	Qty	Rate in Rs (in words & in figures)	Amount in Rs
4	Supply, installation, testing & commissioning of E-series Line card operate at 24 gigabit per slot (Catalyst 4500 E-series 24 port GE (SFP)). The system shall support cisco IOS software release, L2-4 jumbo frame support (upto 9216 bytes), inherits supervisor engine QoS capability, compatible with E-series supervisor engine. The system should also include cisco CAT4500e SUP7-E/SUP 7L-E universal image (S45EU-34-1512SG). The system should include all required accessories for satisfactory operation.	Each	1		
5	Supply, installation, testing & commissioning of Universal power over ethernet Catalyst 4500 1000W AC power supply (Data only) with all required accessories for satisfactory operation. The unit shall have cooling fan, indicating LED, support for simple network, management protocol (SNMP) MIB, AC power cord SABS 164-1 to IEC -C15 India (Cisco CAB-SABS-C15-IND), paper IP base license (C4500E-IPB) etc. The system should meet UL 60950, EN 55022, ROHSS standards. (Make Cisco: PWR-C45-1000AC).	Nos	1		

Sl. No	DESCRIPTION	Unit	Qty	Rate in Rs (in words & in figures)	Amount in Rs
6	Supply, installation, testing & commissioning of layer 2 edge switch Catalyst 2960S 24 GigE 4xSFP with LAN Base software with all required accessories for satisfactory operation. The unit shall have switch stack capability with 1 to 10 gigabit connectivity, power over ethernet, fast ethernet access connectivity, USB storage, borderless networks, 10A power cable (Cisco CAB-IND-10A), flexi stack 50cm stacking cable (CAB-STK-E-0.5M), insert pack out -PI-MSE (PI-MSE-PRMO-INSRT), power retainer clip for Cisco 3560-C and 2960-C compact switch (cisco PWR-CLP) etc. The system should meet UL 60950-1, EN 55022 standards. (Make Cisco: WS-C29605-24TS-L).	Each	16		
7	SMB support Assistant Service agreement SMBS 8X5XNBD for Cat 2960S Stk 24 Gig E4xSFP LAN Base software. (Cisco: CON- SMBS- 2960S2TS).	Each	16		
8	Supply, installation, testing & commissioning of SFP gigabit interface converter 1000BASE-T SFP with all required accessories for satisfactory operation. The system should meet Laser class 1, IEEE 802.3z standards (Make Cisco: GLC-T=).	Each	12		

Sl. No	DESCRIPTION	Unit	Qty	Rate in Rs (in words & in figures)	Amount in Rs
9	Supply, installation, testing & commissioning of 1000BASE - LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM with all required accessories for satisfactory operation. (Make: GLC-LH-SMD=).	Each	4		
10	Supply and laying of 12 core, outdoor corrugated steel tape armoured multi mode fiber optic cable in ground including excavation & backfilling, through pipe, in open duct, clamped in wall / cable tray etc including all necessary accessories for fixing. (Make: Amp)	m	1000		
11	Supply and laying of HDPE pipe 12/10mm (outer dia/ inner dia) with longitudinal ribs with silicon inner layer for laying underground fiber optic cable in ground including excavation & backfilling, in open duct, clamped in wall / cable tray etc including all necessary accessories for fixing.	m	1000		
12	Supply and installation of 24 port fully loaded LIU with all required accessories, SC type adapter panels, adapters, pigtails, cable glands, fiber management, splice holders etc as required. (Make Amp)	Each	1		

Sl. No	DESCRIPTION	Unit	Qty	Rate in Rs (in words & in figures)	Amount in Rs
13	Supply and installation of 12 port fully loaded LIU with all required accessories, SC type adapter panels, adapters, pigtails, cable glands, fiber management, splice holders etc as required. (Make Amp)	Each	4		
14	Supply & installation of fiber patch cord SC-SC of required length with all required accessories, connection etc as required.	Each	4		
15	Supply & installation of fiber patch cord SC-LC of required length with all required accessories, connection etc as required.	Each	4		
16	Splicing of pig tail including all necessary accessories as required.	Each	48		

Sl. No	DESCRIPTION	Unit	Qty	Rate in Rs (in words & in figures)	Amount in Rs
17	Testing of core / node including all necessary accessories as required.	Each	48		
18	Supply, installation, testing & commissioning of catalyst 4500 E-series 48 Port 10/100/100 (RJ45).	Each	1		
	TOTAL FOR NETWORK SYSTEM				

