

**Pt. Ravishankar Shukla University**  
Amanaka, G.E.Road, Raipur (C.G.) 492010



**TENDER DOCUMENT FOR**

**Network Establishment on Center for Basic  
Science, Pt. Ravishankar Shukla University,  
Raipur (C.G.)**

**TENDER NO. : - 598-A/CBS/2017 dated: 02/02/2017**  
**TO BE SUBMITTED BY - on or before 17/02/2017 (4:00 PM.)**

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*Tender for Network establishment on CBS, Pt. Ravishankar Shukla University, Raipur*

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## Pt. Ravishankar Shukla University, Raipur (C.G.)

No. /CBS./2017

Dated: /01/2017

### Related Information

Sr. No.	Item	Description
1.	Scope of Work	Network establishment: Computer Lab, CBS (Networking in CBS)
2.	Cost of Tender Documents	Rs. 1000.00(non-refundable) by Demand draft in favor of Registrar, Pt. Ravishankar Shukla University, Raipur. Downloaded Tender documents must enclose Demand draft of the cost of Tender Document.
3.	EMD	Rs.20,000 by Demand draft in favor of Registrar, Pt. Ravishankar Shukla University, Raipur
4.	Last date of submission of bid	17.02.2017, (04:00 PM)
5.	Place of opening of bids	Office of the Registrar, Pt.Ravishankar Shukla University, Raipur (C.G.)
6.	Date and Time of opening of bids	20/02/2017, 12:00 PM
7.	Address for communication	Registrar, Pt. Ravishankar Shukla University, Raipur (C.G.) Ph : 0771-2262540,Fax 0771-2262818 Email: <a href="mailto:registrarprsu@gmail.com">registrarprsu@gmail.com</a>

Tender for Network establishment on CBS, Pt. Ravishankar Shukla University, Raipur

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## Network Establishment on Center for Basic Sciences

### Commercial Bid

Pt.Ravishankar Shukla University, Raipur invites sealed tender offers from eligible, reputed firms/agency/organizations Network Establishment in the Center for Basic Sciences

General Requirements:-

S. No.	Particulars (As specified in the attached sheet )	Type	Qty. Approximate	Rate /Unit	Total Rate
1.	Rack	9 U	02		
2	EDGE L-2 Ethernet SWITCH Manageable With POE	24 Port	03		
		16 Port	01		
3	Patch Panel	24 Port	03		
		16 Port	01		
4	I/O Box	Back Box	93		
		Face Plate	93		
		Key Stone	93		
5	LAN Cable	Cat. 6	12		
6	Patch Cord	1 Mtr	93		
		2 Mtr	93		
7	WiFi Device		02		
<b>Total Cost</b>					

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CERTIFICATE

Certified that full contents of tender document have been thoroughly studied and understood by us before quoting above mentioned rates. We shall not claim / charge any other amount by way of charges, expenses etc. The rate quoted by us above is inclusive of everything.

(Signature of Tenderer with Seal)

Name :

Address:

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## Network Establishment on Center for Basic Sciences

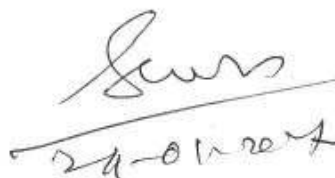
### Documents required to qualify technical bid

#### Technical - Bid

S. No.	Description	Yes/No
1.	Cost of Tender Documents: Rs. 1000.00(non-refundable) by Demand draft in favor of Registrar, Pt. Ravishankar Shukla University, Raipur (C.G.). Downloaded Tender documents must enclose Demand draft of the cost of Tender Document	
2.	EMD Rs. 20,000 by Demand draft in favor of Registrar, Pt. Ravishankar Shukla University, Raipur (C.G.).	
3.	Service Tax Registration Number	
4.	TIN/TAN number	
5.	Must have at least five years experience in the related field work and have executed at least similar projects in Govt. / PSUs/ Govt. Academic Institutes/Autonomous body.	
6.	Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the University / to provide consulting services for the preparation of the design, specifications, and other documents to be set for the procurement of the goods under this Invitation of Bids	
7.	Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices	
8.	The bidders should also enclose a statement on their letter head stating that "We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery"	

  
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**Network Establishment on Center for Basic Sciences**  
Scope of Work (Descriptive)

To invite tenders for the laboratory furniture and accessories giving details of items as listed below:

	DESCRIPTION	QTY	RATE	AMOUNT
<b>1. COMPUTER LAB*</b>				
	<b>Total Points (30)</b>			
A	9U RACK	01		
B	10/100/1000 (M) Switch (Active equipment) 24 Port	02		
C	Patch Panel (24 Port)	02		
D	Cat6 IO Box (Box, Face plate, Key Stone)	30		
E	Patch Cords	-		
	CAT 6 Patch Cords (1 Mtr)	30		
	CAT 6 Patch Cords (2 Mtr)	30		
<b>2. MATHEMATICA LAB*</b>				
	<b>Total Points (10)</b>			
A	Cat6 IO Box (Box, Face plate, Key Stone)	10		
B	Patch Cords	-		
	CAT 6 Patch Cords (1 Mtr)	10		
	CAT 6 Patch Cords (2 Mtr)	10		

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	DESCRIPTION	QTY	RATE	AMOUNT
<b>3. COMMUNICATION LAB &amp; LIBRARY*</b>				
	Total points (30+10)			
A	9U RACK	01		
B	10/100/1000 (M) Switch (Active equipment) 24 Port	01		
	10/100/1000 (M) Switch (Active equipment) 16 Port	01		
C	Patch Panel	-		
	24 Port	01		
	16 Port	01		
D	Cat6 IO Box (Box, Face plate, Key Stone)	40		
E	Patch Cords	-		
	CAT 6 Patch Cords (1 Mtr)	40		
	CAT 6 Patch Cords (2 Mtr)	40		

<b>1. OTHERS(Office and Lab)*</b>				
	Total Points (13)			
A	Cat6 IO Box (Box, Face plate, Key Stone)	13		
B	Patch Cords	-		
	CAT 6 Patch Cords (1 Mtr)	13		
	CAT 6 Patch Cords (2 Mtr)	13		
C	Cat 6 Lan Cable (305 Mtr per box)	12		
D	Casing Capping / Pipe	100		
E	Crimping, Punching, Laying (Per Point)	93		
F	Wireless AP (Active equipment)	02		

\*Quantities may vary as per requirement.

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1. SPECIFICATION OF EQUIPMENTS

1.1 EDGE (L-2 Ethernet) SWITCH (24 ports, 16 ports) (POE at least 5)

1.1.1. The redundant power supply, control plane and switch fabric is not envisaged. The switch shall be fixed configuration standalone type.

1.1.2. The switch shall support web management.

1.1. UTP CABLING SYSTEM

Type	Unshielded twisted pair cabling system, TIA/EIA 586-B.2, Category 6.
Networks Supported	10 / 100 / 1000 Ethernet, 155 Mbps ATM, 1000 Mbps IEEE 802.3ab Ethernet
<b>Approvals:</b>	
IEEE 802.3ab	Zero bit error, ETL verified
Warranty	20-Year Extended product warranty and Application Assurance
Should support 6 Connection Channel and exceed CAT6 Specs	Within 100 mtrs of channel, 6 terminations of cable should guarantee CAT6 performance
Should perform to CAT6 with short channel	Should guarantee the CAT6 performance even when the termination of Information outlets are done within 15 mtrs of MDF

1.2. UTP CABLE

Type	Unshielded twisted pair, TIA/EIA 586-B.2, Category 6.
<b>Material:</b>	
Insulation	Polyethylene
Jacket	Flame Retardant PVC
Packing	Box of 305 meters
Operating temperatures	-200C to + 600C
Approvals	UL Verified

1.2.1 If University has UTP cable it will be provided to bidder.

1.3. UTP JACKS

Type	PCB based, Unshielded Twisted Pair, TIA / EIA 568-B.2-1, Category 6 - Modular Jack
Durability	750 mating cycles, 200 termination cycles
Approvals	UL listed

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Dust Covers	Integrated hinged
Other features	Strain relief and band limiting boot for cable 94 V-0 rated

1.4. **UTP PATCH PANEL**

Type	24-port, Modular, PCB based, Unshielded Twisted Pair, TIA /EIA 568-B.2-1, Category 6- 1 U size
Ports	24/16
Port arrangement	Modules of 6-ports each
Category	TIA / EIA 568-B.2-1 category 6.
Circuit Identification Scheme	Icons on each of 24-ports
Port Identification	9mm or 12mm Labels on each of 24-ports (to be included in supply)
Height	2U including cable manager
Cable Management	Rear cable retention bar has to be provided Front patch cord organizer should be integral part

1.5. **Information Outlet**

- 1.5.3. High performance Unshielded Modular Jacks with integrated Connecting blocks most suitable for CAT-6 applications
- 1.5.4. Supports 10BaseTx/100BaseTx/1000BaseTx (Gigabit) Ethernet communications.
- 1.5.5. Shall meet the specification of industry Standard parameters for CAT6. Compliant to EIA/TIA-568-A/B wiring standard for CAT-6 and UL Twisted pair qualification program.
- 1.5.6. All parts qualified with TIA Certified Cable Tester.
- 1.5.7. IO with bend limiting Strain Relief on back of IOs.
- 1.5.8. Key stone Jack is 50 microns gold Plated for higher performance.
- 1.5.9. Provision for write-on label.
- 1.5.10. Frequency: 1-250 MHz and Universal (TIA 568A/B) Color coded connecting blocks with horizontal crimp style for easy wiring.
- 1.5.11. Cable ties eyelets for rear cable management and strain relief.
- 1.5.12. Automatic door shutter for eliminating dust particles when the port is not in use.
- 1.5.13. Stuffer caps are provided.

1.6 **Specifications of Wi-Fi Access points**

<b>Hardware Requirements</b>	<ul style="list-style-type: none"> <li>a. AP should support 10/100/1000BaseTPOE port.</li> <li>b. Access Points proposed must include radios for both 2.4 GHz and 5 GHz.</li> <li>c. Must have a robust design for durability. Must include dual band antennas to support both the 2.4GHz and 5GHz operations simultaneously from single antenna.</li> <li>d. Must support Power over Ethernet, local power, and power injectors</li> </ul>
<b>802.11n Features</b>	<ul style="list-style-type: none"> <li>a. Should support 802.11n network in 2.4 GHz and 5 GHz and backward compatible with IEEE 802.11b, IEEE 802.11g and IEEE 802.11a.</li> </ul>

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	b. Must support at least 22dbm of transmit power in both 2.4GHz and 5GHz radios.
<b>802.11g Features</b>	a. Should support 802.11g network in 2.4 GHz and 5 GHz and backward compatible with IEEE 802.11b and IEEE 802.11a. b. Must support at least 22dbm of transmit power in both 2.4 GHz and 5 GHz radios.
<b>RF Features</b>	a. Must support AP enforced load-balance between 2.4 GHz and 5 GHz band.
<b>Roaming Features</b>	Must support all methods for Secure Roaming.
<b>Encryption Features</b>	a. Access Points must support a distributed encryption/decryption model. b. Access Points must be compliant with IEEE CAPWAP.
<b>Flexibility Features</b>	a. Should support mesh capabilities. b. Must support telnet and/or SSH login to APs directly for troubleshooting flexibility. c. Must support Reliable Multicast Video to maintain video quality.

**1.7 Rack :**

- (a) Wall mountable.
- (b) Should have Cooling fan.
- (c) Must have internal electric power supply board.

**1.8 Piping / Capping :**

ISI marked pipe.

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## TERMS AND CONDITIONS

1. Sealed item rate tenders are invited for the proposed Network establishment of CBS. Tender should be submitted in two part-

1. Technical bid
2. Commercial bid.

Tender not properly filled, Telegraphic / Fax tender, mutilated with incorrect calculation or generally not complying with the conditions shall be rejected.

2. Tenderers should quote their rates both in figures and words. The schedule of quantities must be fully priced and the total of each along with carried over figures of the previous page shall be given in ink and signed by the tenderer. No blank space shall be left. If the discrepancy found in quoted rate in figures and words the rate quoted in words will be considered.
3. Sealed tenders with name of the job and the name of the tenderer written on the envelope will be received by the Registrar, Pt. R.S.U, Raipur (C.G.) through registered/speed post only. The PRSU reserves the right to postpone or/and extend the date of receipt or to withdraw the tender notice without assigning any reason thereof entirely at the discretion of the PRSU. In such an event tenderers shall not be entitled to any compensation in any form whatsoever.
4. If the tender is made by or on behalf of a company incorporated under the companies Act (of 1956), it shall be signed by their Managing Director or one of the directors duly authorized on that behalf, if it is made by partnership firm, it shall be signed with co-partnership name by a member of the firm who shall sign his own name and give the name and address of each partner of the firm attach a copy of power of attorney with the tender authorizing him to sign on behalf of the other partners. A certified copy of the registered partnership deed shall also be submitted along with the tender.
5. Acceptance period of the tender shall remain valid for acceptance for a period of 10 days from the date of opening of tender.
6. **Site Supervision**  
The work shall be carried out under the directions and supervision of the employer/consultant of their representative at site. On accepting the tender, the manufacturer shall intimate the name of his accredited representative who would be supervising the jobs and would be responsible for taking instructions for carrying out the work on day to day basis.
7. **Quality**  
The University authority's decision with regard to the quality of the materials will be final and binding to manufacturer/supplier.
8. **Commencement of work/period of completion**  
The manufacturer shall commence work on site within 15 days from the date of issue of the letter of intent. This date shall be considered as the date of Commencement of the said job. Time is the essence of the contract.
9. **Defects Liability Period**  
Any defects developed within "Defect Liability Period" of 36 months from the date of

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issuing order for networking will have to be rectified by the manufacturer/supplier. In case of failure to do so, the clients with the concurrence of the consultants, shall get the rectification work done by some other agency at risk and cost of the manufacturer/supplier. The rectification of such defects shall be taken immediately on receipt of written notice from the employer/ consultants and such defects may extend "liability period".

#### 10. Contract Signing

The tenderer shall sign the necessary contract papers within 10 days of the contract intimation. Expenses for the agreement including cost of stamp paper etc, shall be born by contractor. In case of delay the "Earnest Money" may be forfeited and the tender cancelled or the contract enforced as per terms of the tender and the tenderer shall thus be bound even though the formal agreement has not been executed and signed by the tenderer.

#### 11. EMD

- i. EMD of Rs. 20,000/- in the form of Demand Draft in favor of the **Registrar, Pt. Ravishankar Shukla University, payable at Raipur**, shall be submitted along with tender, the tender received without EMD or in any other form than as stated above may be rejected. The EMD shall be returned to the unsuccessful tenderer within one month of the opening of tender.
- ii. Interest shall not be given on EMD amount.
- iii. EMD amount shall be return after one year from date of commissioning.

#### 12. Contacting the University

No Bidder shall contact the University, on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the bidder wishes to bring additional information to the notice of the University, it should do so in writing.

Any effort by a Bidder to influence the University, in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidders bid.

#### 13. Award Criteria

The University will order to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be qualified to perform the Contract satisfactory.

#### 14. University right to vary Quantities at Time of Award

The University reserves the right at the time of Contract award to increase or decrease the quantity/items of jobs originally specified in the schedule of requirement without any change in unit price or other terms and conditions.

#### 15. University Right to Accept Any Bid and to Reject Any or All Bids

The University reserves the right to accept or reject any Bid and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.

#### 16. Corrupt of Fraudulent Practices

The University requires that Bidders, Suppliers, Contractors observe the highest standard

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of ethics during the procurement and execution of such contracts. In pursuit of this policy, the University.

- a) Defines, for the purpose of this provision, the terms set forth below as follows:
- i. "Corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution.
  - ii. "Fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract.
  - iii. "Collusive practice" means a scheme of arrangement between two or more bidders. With or without the knowledge of the borrower, designed to establish bid prices at artificial, non competitive levels.
  - iv. "Coercive practice" means harming or threatening to harm directly or indirectly, persons or their property of influence their participation in the procurement process or affect the execution of a contract.
- b) Will reject a proposal for award if the manufacturer/supplier, in the judgment of the University has engaged in corrupt or fraudulent practices as defined in CC in competing for or in executing the Contract.
- c) Will sanction a firm or individual, including declaring them ineligible either indefinitely or for a stated period of time. To be awarded a contract if at any time determines that they have directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for or in executing a Contract.
- d) Will have the right to require that a provision be included in Bidding Documents and in contracts requiring Bidders, Suppliers, Contractors and Consultants to permit the University to inspect their accounts and records and other documents relating to appointed by the University. Furthermore, Bidders shall be aware of the provisions stated in the Conditions of Contract.

### 17. Modification and Withdrawal of Bids

The Bidders may modify or withdraw its bid after the bids submission, provided that written notice of the modification or withdrawal is received by the University prior to the deadline prescribed for submission of bids.

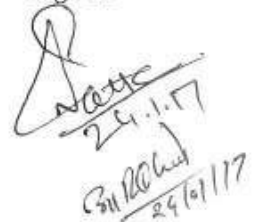
The Bidders modification or withdrawal notice shall be prepared, sealed, marked and dispatched. A withdrawal notice may also be sent by fax but followed by a signed confirmation copy which should reach the University before the deadline for submission of bids. The university shall not be responsible for any postal and allied delays. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the bid form. Withdrawal of a bid during this interval may result in the Bidders forfeiture of his bid security.

### 18. Maintenance

The Supplier/Contractor will accomplish preventive and breakdown maintenance activities to ensure that all materials execute without defect or interruption for at least 98% uptime for 24 hours a day, 7 days a week of operation of the equipment for a period of at

  
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least 3 years.

- i. If defects equipment is not resolved within 7 days of complaint then 0.3% of total cost will be deducted per day till 3 years.
- ii. They have to establish the network and maintain the same.

#### 19. Payment

Payment shall be made in India Rupees only.

Schedule of payment shall be as follows:-

- i. 90% of total cost will release after successful installation and commissioning.
- ii. 10% of total cost will be released after completion of 3 years.

#### 20. Warranty

Bidders have to cover the warranty. The warranty of the equipment supplied for this project shall be for 36 months from date of commissioning.

#### 21. Commissioning

Commissioning certificate shall be issued by university.

#### 22. Tax

Tax of gross amount billed will be deducted from contractor's bills as per Income tax act.

#### 23. Dispute

Any dispute, if arises, the decision of the Hon'ble Vice Chancellor, Pt Ravishankar Shukla University, Raipur (C.G.) shall be final.

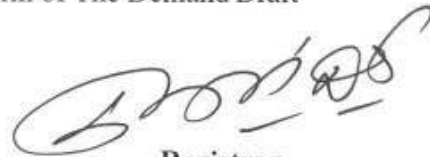
#### 24. Escalation

No escalation on labor, material on any other statutory levy/tax will be paid to the contractor during the duration of the contract / project. No alternation in this clause will be acceptable.

#### 25. Appendix

Summary of Various clauses:

- |                                  |   |
|----------------------------------|---|
| 1. Date commencement             | : 15 days from the date of issue of job order                                 |
| 2. Defects Liability period (09) | : Minimum 36 months or warranty period of articles from date of commencement. |
| 3. EMD (11)                      | : Rs.20,000/- each along with Tender in the form of The Demand Draft          |



Registrar

Pt.Ravishankar ShuklaUniversity  
Raipur, Chhattisgarh

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