INDIRA GANDHI INSTITUTE OF TECHNOLOGY (IGIT), SARANG

Sarang, Dhenkanal-759146

Implementation of Biometric Attendance System

Request for Proposal (RFP)

Implementation of Biometric Attendance System (BAS)

At

IGIT, SARANG

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DISCLAIMER

Indira Gandhi Institute of Technology (IGIT), Sarang is inviting eligible interested Vendors to submit Request for Proposal (RFP) for the Implementation of Biometric Attendance System (BAS).

No contractual obligation whatsoever shall arise from the RFP process unless and until a formal contract is signed and executed between Indira Gandhi Institute of Technology (IGIT), Sarang and the Vendor concerned. Indira Gandhi Institute of Technology (IGIT), Sarang reserves the right not to proceed with the implementation of the project.

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NOTICE INVITING RFP

Indira Gandhi Institute of Technology (IGIT) Sarang
Sarang, Dhenkanal-759146
Odisha

</div>

No.   **Dated:**

<div align="center">

Request for Proposal (RFP)
Implementation of Biometric Attendance System (BAS)

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Indira Gandhi Institute of Technology, Sarang invites applications for Request for Proposal (RFP) from eligible interested and experienced Vendors on Implementation of Biometric Attendance System.

The sealed cover superscribed 'Request for proposal for Biometric Attendance System' shall be opened on **09.08.2019 at 4.30 PM (IST)**. Sealed cover shall contain two sealed covered envelopes – Part-I (Technical bid) and Part -II (Financial bid). The Part- I (Technical bid) shall be opened on the same day in presence of attending Vendor(s). The Part- I (Technical bid) shall contain Bank draft for earnest money and other documents as required in the herein- under. The Part- I (Technical bid) without bank draft for earnest money shall be rejected outright. The Part–I (Technical bid) shall be evaluated in accordance with qualification and evaluation criteria for short-listing the Vendors as prescribed in the RFP document. The Part- II (Financial bid) shall be opened in due course as noted in 'Schedule for submission of RFP'.

Part -I (superscribing Technical bid)

The Technical bid shall detail the technical specifications of the proposed solution, compliance to the specifications of various modules detailed in the RFP, implementation plan, post implementation warranty and support plan along with the Checklist for Technical Bid, supporting documents such as certificate of incorporation, memorandum of Association, copy of PAN, GST certificate, work order copy/ experience certificates, IT returns of last 3 years audited account statements, Vendors profile and other requisite documents. Bank Draft for earnest money shall be kept in separate envelope marked as 'EMD' and be placed within this envelope. Any other relevant papers which a Vendor feels necessary along with the Terms and Conditions duly signed and accepted by the Vendor shall form part of this Technical bid.

Part -II (superscribing Financial Bid)

1. The Financial bid shall give detailed breakup of price in INR of various modules, taxes and other work as per the pro-forma in **Section-II** enclosed and the financial bid shall also contain the year wise maintenance charges in INR for next three years **after free maintenance period of one year.**

2. IGIT, Sarang shall not be liable for any expenses incurred by the Vendor in preparing the bid documents for this RFP or for any correspondence or for any negotiations associated with the award of a contract.

Late Applications: Any application, received after the last date and time i.e., **09.08.2019 (4PM)** for submission, shall not be accepted. Applications received after the last date shall be summarily rejected and returned unopened.

The completed application (response document), (printed, signed and bound copy) shall be submitted in a sealed cover superscribed with the title "Request for Proposal for Biometric Attendant System (BAS)" at the address given below (by registered/speed post only):

To
The Director
Indira Gandhi Institute of Technology, Sarang
Sarang, Dhenkanal-759146, Odisha, India.

The RFP document, instruction to Vendor, other detailed terms and conditions can be downloaded from the website: **http://www.igitsarang.ac.in.**

Important Details

Last date and time of submission of tender	**09.08.2019 till 4.00PM**
Cost of the tender for LAN Module no (i)	**Rs 1,000/- (Rupees one thousand only)**
Cost of the tender for Biometric machines Module nos (ii to viii)	**Rs 1,000/- (Rupees one thousand only)**
EMD Cost of the tender for LAN Module no (i)	1,80,000/-
EMD Cost of the tender for Biometric machines Module nos (ii to viii)	40,000/-

The document is prepared by IGIT, Sarang. It should not be reused or used in any form either fully or partially. The information provided by the Vendors in response to this tender document shall become property of IGIT, Sarang and shall not be returned.

SCHEDULE FOR SUBMISSION OF RFP

The following are the schedule of events for this project. The schedule is subject to change depending on the outcome of the events / responses of the events and a final schedule shall be established prior to contracting with the successful Vendor(s).

Event	Date and Time
Availability of RFP Document at IGIT Sarang Website	05.07.2019
Clarifications regarding RFP, Survey of site visit for LAN connection and Technical Presentation for LAN	15.07.2019 at 10 AM in T&P Seminar room
Technical Presentation on approach and methodology for BAS	17.07.2019 at 10 AM in T&P Seminar room
Last Date and time for submission of completed RFP Document	09.08.2019 till 4.00 PM
Opening of RFP (Technical Bid)	09.08.2019 at 4.30 PM
Opening of RFP (Financial Bid)	13.08.2019 at 3.00 PM

Section -I
Request for Proposal (RFP)
Implementation of Biometric Attendance System (BAS)

1. INTRODUCTION & OBJECTIVE

Indira Gandhi Institute of Technology (IGIT), Sarang was established in the year of 1982 and was managed directly by the Govt. of Orissa in the name of Orissa College of Engineering (OCE). Prior to this, since 1981, the institute in the name of Modern Polytechnic (MPT) was offering Diploma Courses in Civil, Electrical, Mechanical, Mining Survey Engineering. In the year 1987, both OCE & MPT were merged and renamed as IGIT, Sarang and the management was transferred to an Autonomous Society. Presently, the Institute is offering nine Under Graduate Engineering courses in Chemical, Civil, Electrical, Mechanical, Metallurgical and Material Sciences, Electronics & Telecommunication, Computer Science Engg., Production Engg., Architecture; & two part-time Post Graduate Engg courses in Industrial Power Control & Drives, Environmental Sc. &Engg.; Ten full time Post Graduate Engg courses / Master course in Computer Sc.Engg., Electronics and Telecom. Engg, Wireless Communication Technology, Geotech Engg., Mechanical System Design, Mett. & Materials Engg., Power Electronics & Drives, Power System Engg., Production Engg., Structural Engg., Master's in computer application; besides five Diploma Courses in Civil, Electrical, Electronics & Telecommunication, Mechanical & Metallurgical Engineering.

IGIT Sarang requests proposals for installation and Implementation of Biometric Attendance System (BAS) described in the attached specifications from interested parties (herein after known as "the **Vendor**"). Prices quoted shall be all-inclusive and represent complete implementation at the site given in the attached specifications. The **Vendor** shall be responsible for all parts, labor, and all other associated apparatus necessary to completely develop, test, install and turnover for acceptance to IGIT, Sarang.

2. SCOPE OF WORK

This section deals with the requisite specifications for different modules of BAS package.

i. Supply, Installation and Commissioning of Fiber Optic Cables Module(i)

Supply, Installation and Commissioning of Fibre Optic Cables throughout the campus including Academic campus and Hostels.
Optical Fibre Cable laying and Execution of Networking (LAN Connection, switch, routers with proper shielded wiring)
The Vendor will do the survey of the (LAN Connection, switch, routers with proper shielded wiring etc.) and supply specified items with the following specifications as mentioned below.
Items are to be quoted per unit price.

Technical Specifications for Active Items for Module (i)

A. L3 Core Switch with 48 x SFP+ Ports & Redundant Power Supply

Sl No	Minimum Technical Specifications	Complied? (Y/N)
1	Switch shall have 48 X 1G/10G SFP+ Ports, 2 X 40 G uplink ports. The switch must support multi-speed 1G/10G/25G interfaces.	
2	The Switch should have dual redundant hot swappable AC/DC power supplies.	
3	The Switch should support stacking/VSS/IRF/equivalent and should be able to build loop free L2 network with virtual switching	
4	The Switch should have USB, RJ-45 for console port & storage port. It shall have 10/100/1000BaseT dedicated OOB management port	
5	The Switch should have at least 16GB SSD memory and 8GB DRAM	
6	The Switch should have at least 1 10/100/1000 dedicated out-of- band Management Port	
7	The Switch should have at least 3 fans and in case of failure of any one of those the other fans should automatically speed up. Fans should be hot swappable.	
8	The Switch should have at least 1.1 Tbps non-blocking switching bandwidth and 850 Mpps of forwarding rate.	
9	Support at least 60,000 MAC addresses.	
10	The Switch should support at least 24,000 IPv4 & IPv6 routes and 12,000 IPv4 & IPv6 multicast routes	
11	The Switch should support at least 1000 VLANs/SVI's and 4000 VLAN ID's	
12	The Switch should support at least 2k ACLs	
13	The Switch should have IP Static Routing IPv4/v6, RIP v1/v2, RIPng/ OSPF, ECMP, PIM-SM, VRRP v2 & v3, MSTP, RSTP ready from Day 1	
14	The switch should support routing protocols such as BGPv4, IS-ISv4, MPLS, MPLS L2 & L3 VPN & Open flow or equivalent.	
15	The Switch should support IP Multicast and PIM, PIM Sparse Mode & Dense Mode	

16	The switch should support 802.1d, 802.1s, 802.1w Spanning-Tree & its Enhancement for fast convergence. It shouls also support 802.3ad LACP	
17	The switch should support DHCP snooping to prevent malicious users from spoofing a DHCP server and sending out rough addresses.	
18	The switch should support Dynamic ARP inspection (DAI) or equivalent to ensure user integrity by preventing malicious users from exploiting the insecure nature of ARP.	
19	The switch should support IP source guard or equivalent to prevent a malicious user from spoofing or taking over another user's IP address by creating a binding table between the client's IP and MAC address, port, and VLAN.	
20	The switch should support Unicast Reverse Path Forwarding (RPF) feature to mitigate problems caused by the introduction of malformed or forged (spoofed) IP source addresses into a network by discarding IP packets that lack a verifiable IP source address.	
21	The switch should support flexible & multiple authentication mechanism, including 802.1X, MAC authentication	
22	The switch should support MAC address notification to allow administrators to be notified of users added to or removed from the network.	
23	Shall support eight egress queues. Shall support 802.1p CoS, DiffServ	
24	The Switch should support Rate limiting based on source and destination IP address, source and destination MAC address, Layer 4 TCP/UDP information, or any combination of these fields, using QoS ACLs (IP ACLs or MAC ACLs), class maps, and policy maps.	
25	CLI support to provide a common user interface and command set with all switches of the same vendor	
26	RMON I / RMON II standards	
27	SNMPv1, SNMPv2c, and SNMPv3	
28	Switch should support operating temp from 0 to 40 degree	
29	Switch/Switch OS should be EAL3/NDPP/Common Criteria Certified	
30	The OEM should be figuring in the Leader Magic Quadrant of the latest Gartner report for Data Center Networking OR wired and wireless Networking.	

B. Distribution Switch with 16 x SFP+ Ports

Sl No	Minimum Technical Specifications	Complied? (Y/N)
1	Switch shall have 16 X 1G/10G SFP+ Ports, 2 X 40 G uplink ports	
2	The Switch should have dual redundant hot swappable AC/DC power supplies.	
3	The Switch should support stacking/VSS/IRF/equivalent and should be able to build loop free L2 network with virtual switching	
4	The Switch should have USB, RJ-45 for console port & storage port. It shall have 10/100/1000BaseT dedicated OOB management port	

5	The Switch should have at least 16GB SSD memory and 8GB DRAM
6	The Switch should have at least 1 10/100/1000 dedicated out-of- band Management Port
7	The Switch should have at least 3 fans and in case of failure of any one of those the other fans should automatically speed up. Fans should be hot swappable.
8	The Switch should have at least 480 Tbps non-blocking switching bandwidth and 350 Mpps of forwarding rate.
9	Support at least 32,000 MAC addresses.
10	The Switch should support at least 16,000 IPv4 & IPv6 routes and 8,000 IPv4 & IPv6 multicast routes
11	The Switch should support at least 1000 VLANs/SVI's and 4000 VLAN ID's
12	The Switch should support at least 2k ACLs
13	The Switch should have IP Static Routing IPv4/v6, RIP v1/v2, RIPng/ OSPF, ECMP, PIM-SM, VRRP v2 & v3, MSTP, RSTP ready from Day 1
14	The switch should support routing protocols such as BGPv4, IS-ISv4, MPLS, MPLS L2 & L3 VPN & Open flow or equivalent.
15	The Switch should support IP Multicast and PIM, PIM Sparse Mode & Dense Mode
16	The switch should support 802.1d, 802.1s, 802.1w Spanning-Tree & its Enhancement for fast convergence. It shouls also support 802.3ad LACP
17	The switch should support DHCP snooping to prevent malicious users from spoofing a DHCP server and sending out rough addresses.
18	The switch should support Dynamic ARP inspection (DAI) or equivalent to ensure user integrity by preventing malicious users from exploiting the insecure nature of ARP.
19	The switch should support IP source guard or equivalent to prevent a malicious user from spoofing or taking over another user's IP address by creating a binding table between the client's IP and MAC address, port, and VLAN.
20	The switch should support Unicast Reverse Path Forwarding (RPF) feature to mitigate problems caused by the introduction of malformed or forged (spoofed) IP source addresses into a network by discarding IP packets that lack a verifiable IP source address.
21	The switch should support flexible & multiple authentication mechanism, including 802.1X, MAC authentication
22	The switch should support MAC address notification to allow administrators to be notified of users added to or removed from the network.
23	Shall support eight egress queues. Shall support 802.1p CoS, DiffServ
24	The Switch should support Rate limiting based on source and destination IP address, source and destination MAC address, Layer 4 TCP/UDP information, or any combination of these fields, using QoS ACLs (IP ACLs or MAC ACLs), class maps, and policy maps.

SI No	Minimum Technical Specifications	Complied? (Y/N)
25	CLI support to provide a common user interface and command set with all switches of the same vendor	
26	RMON I / RMON II standards	
27	SNMPv1, SNMPv2c, and SNMPv3	
28	Switch should support operating temp from 0 to 40 degree	
29	Switch/Switch OS should be EAL3/NDPP/Common Criteria Certified	
30	The OEM should be figuring in the Leader Magic Quadrant of the latest Gartner report for Data Center Networking OR wired and wireless Networking.	

C. Edge Switch with 24 x 1G Copper Port & 4 x SFP+ Uplink ports

SI No	Minimum Technical Specifications	Complied? (Y/N)
1	The fully managed switch should have minimum 24 x 10/100/1000 Mbps RJ45 ports and 4 x 10G unpopulated SFP+ slots.	
2	At least 128 Gbps Switching Capacity and 95 Mpps forwarding rate	
3	Shall have 2GB DRAM and 2 GB Flash	
4	Configurable up to 16000 MAC addresses	
5	Shall support 512 active VLANs and at least 1000 VLAN IDs	
6	Shall support internal Redundant Power supply.	
7	Shall support stacking using dedicated stacking ports that are distinct from the uplink ports mentioned above. Shall have stacking bandwidth of 80 Gbps.	
8	Centralized VLAN Management. VLANs created on the Central switches should be propagated automatically.	
9	IEEE 802.1d, 802.1s, 802.1w, 802.3ad, 802.1Q	
10	Shall have static routing, RIPv1/v2, RIPng, OSPF from day 1.	
11	Shall support 500 IPV4 & IPv6 route entries per switch	
12	Support for Detection of Unidirectional Links (in case of fiber cut) or equivalent and to disable them to avoid problems such as spanning-tree loops.	
13	Per-port broadcast, multicast, and storm control to prevent faulty end stations from degrading overall systems performance.	
14	IEEE 802.1x, MAC Authentication Bypass and web authentication.	
15	Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.	
16	SSHv2, SNMPv3, RADIUS Authentication	
17	DHCP snooping, Dynamic ARP inspection, IP Source Guard, BPDU Guard	

Sl No		Complied? (Y/N)
18	Standard 802.1p CoS and DSCP, Control- and Data-plane QoS ACLs	
19	Eight egress queues per port	
20	Weighted tail drop (WTD) or equivalent to provide congestion avoidance	
21	Rate limiting should be provided based on source and destination IP address, source and destination MAC address, Layer 4 TCP and UDP information, or any combination of these fields, using QoS ACLs (IP ACLs or MAC ACLs), class maps, and policy maps.	
22	Command Line Interface (CLI) support for configuration & troubleshooting purposes.	
23	Four RMON groups, Traceroute, TFTP, DNS, NTP, SNMP v1, v2c, and v3 and Telnet interface support, OOB management	
24	Environmental Factors: a) Operating Temperature: 0□C to 40□C b) Humidity: 10% to 85% RH	
25	**OEM should be listed in Leader's quadrant of Gartner's Magic Quadrant for Wired and Wireless LAN**	

D. Edge Switch with 12 x 1G Copper Port & 2 x SFP+ Uplink Ports

Sl No	Minimum Technical Specifications	Complied? (Y/N)
1	a) Minimum 12 x 10/100/1000 Mbps PoE+ Ethernet Ports and 2 x 10G SFP+ uplink ports b) At least 240 W PoE budget c) 19" Rack mounting kit should be provided with each switch	
2	At least 64 Gbps Switching Capacity and 47 Mpps forwarding rate	
3	DRAM : 512MB & Flash : 128 MB	
4	Configurable up to 8000 MAC addresses	
5	At least 500 active VLANs and 1000 VLAN IDs	
6	Centralized VLAN Management. VLANs created on the Central switches should be propagated automatically.	
7	IEEE 802.1d, 802.1s, 802.1w, 802.3ad, 802.3af, 802.3at, 802.1Q, 802.1p CoS, 802.1x	
9	Support for Detection of Unidirectional Links (in case of fiber cut) or equivalent and to disable them to avoid problems such as spanning-tree loops.	
10	Per-port broadcast, multicast, and storm control to prevent faulty end stations from degrading overall systems performance.	
12	IPv4 & IPv6 ACLs, port based ACLs	

13	SSH, SNMPv3, RADIUS Authentication	
14	DHCP snooping, Dynamic ARP inspection	
15	Standard 802.1p CoS , marking, classification, scheduling	
16	Eight egress queues per port	
17	Weighted tail drop (WTD) or equivalent to provide congestion avoidance	
18	Command Line Interface (CLI) support for configuration & troubleshooting purposes.	
19	Four RMON groups , Traceroute, TFTP, NTP, SNMP v1, v2c, and v3 and Telnet interface support, Dedicated console ports	
20	**OEM should be listed in Leader's quadrant of Gartner's Magic Quadrant for Wired and Wireless LAN**	

E. **SM Fiber Optics for Core Switches, Distribution Switch and Edge Switches**
Option-1: 1G OFC SM Optics

Sl No	Minimum Technical Specifications	Complied? (Y/N)
1	The 1G SFP+ transceiver shall be of same make as the switches.	
2	Shall support link distance of 10KM on standard Single Mode OFC (G.652) and 550 mtr on any multimode fiber.	
3	Wavelength support: 1310 nm	

Option-2: 10G OFC SM Optics

Sl No	Minimum Technical Specifications	Complied? (Y/N)
1	The 10G SFP+ transceiver shall be of same make as the switches.	
2	Shall support link distance of 10KM on standard Single Mode OFC (G.652)	
3	Wavelength support: 1310 nm	

F. **1 KVA Offline UPS with 20 mins back up**

Sl. No.	Specifications	Requirement
1	**Capacity (in kVA / kW)**	**1000VA 1-Phase Input / 1-Phase Output**

2	**Technology and Capability**	a) Line interactive configuration UPS with zero transfer time. b) Microprocessor based control with advanced technology. c) Wide **Input voltage range** from (140 ~ 300VAC) d) Auto **restart & capability** with inbuilt battery for backup of the UPS. e) UPS should be designed at **Rated PF of 0.6 i.e. 1000VA/600W** UPS rating. f) **Cold start and AC start** features.
3	**Model Name & Number**	
3.1	1000VA	**Make / Model / Part No** to be specified by the vendor
4	**Input**	
4.1	Input facility -Phases / Wires	Single-Phase / 2-Wire & Gnd (1Phase & Neutral + Ground)
4.2	Input Voltage Range	140-300VAC
4.3	Nominal Input Frequency	50/60Hz
4.4	Input Frequency Range	45 to 60 Hz
4.5	Input Protection	Fuse
5	**Output**	
5.1	Nominal Output voltage	230 VAC
5.2	Output Voltage Regulation	± 10% on battery
5.3	Nominal Output Frequency	50/60 Hz
5.4	Output Frequency Regulation	±1 Hz
5.5	Output Wave Form	Modified & Simulated sine wave
5.6	Output Short circuit Protection	Electronic Protection
6	**Transfer Time**	
6.1	Transfer Time (Mode of operation)	Zero ms from Mains mode to Battery Mode Zero ms from Battery Mode to Mains mode
7	**Efficiency (At Nominal Voltage & Resistive Load up to kW rating of UPS)**	
7.1	Overall Efficiency (Normal line)	> 94% at 230 volts
8	**Overload**	
8.1	Online Overload capacity	110%±10% : Alarm 5 minutes and go to fault. 120%±10%: Shutdown immediately and go to fault.
8.2	Inverter Overload capacity	120%±10%: Shut down immediately.
9	**Display Panel (In-build LED)**	
9.4	Indications (LED)	Red, Yellow, Green
10	**Alarms**	
10.1	Audible Alarms	Battery mode, Low battery, Over load, Battery replacement & Fault
11	**Battery Backup / Battery Bank & Charger**	
11.1	Backup Required	25 minutes at 25% load.

11.2	Battery Bank Voltage	12V/7 Ah x 2
11.3	Batteries Type	Sealed Maintenance Free (SMF)
11.4	Charger current	1A
12	**Restart / Testing Capability**	
12.1	Cold Start	UPS should start up On AC Supply (Mains) without DC Supply (Batteries) On DC Supply (Batteries) without AC Supply (Mains)
12.2	Automatic Restart	UPS should start up automatically on mains resumption after battery low shutdown
13	**Interfaces**	
13.1	USB Port should be available **(Mandatory)**	There should be provision for USB port also in the UPS.
14	**Physical**	
14.1	Operating Temperature	0 to 40 deg C
14.2	Storage Temperature	-15 to 50 deg C
14.3	Operating Humidity	0 ～ 95%RH (No Condensing)
14.4	Operating Altitude	0-1000m
14.5	Noise Level	< 40 dbA
14.6	Form Factor	Tower Type
14.7	Dimension (w x d x h) in mm	130 x 320 x 182
14.8	Weight - in kg	7.8
14.9	Standard Package of UPS to include the following minimum accessories	1. UPS 2. User Manual 3. USB Cable
15	**Certifications**	
15.1	Manufacturer	**QMS:** As per ISO 9001: 2015 **EMS:** As per ISO 14001: 2015 **OSHAS:** As per ISO 18001: 2007 **EMS:** As per ISO 14064-1:2012
15.2	Product Safety Certifications **(Mandatory)**	**BIS Certification**

Technical Specifications for Passive Items for Module (i)

Passive OEM PQ Criteria

1. All Passive materials (Fiber & Cat6 UTP) Should be same make.
2. The OEM should have ISO 9001:2015 & ISO 14001:2015 Certified. Copy of ISO Certificates need to submit.
3. Passive OEM and their Brand quoted should have minimum 10 Years of Installation presence in India. Proof of Documents to be attached.

A. Cat6 UTP Cable 23 AWG CM Rated FR PVC 305 Mtrs

Sl No	Minimum Specifications Required
1	Compliant to TIA / EIA 568-C.2 Category 6 cable Specifications. Supports ultrahigh speed data networks such as Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.
2	Category 6 Unshielded Twisted Pair 100Ohm (305 Mtrs in Reel). Characterized up to 600Mhz. Should be highlighted in the product data sheet.
3	Should be 4 pair, 23 AWG, Conductor Dia Norm: 0.574, CM Rated and should have central X-shaped polymer spine maintaining 4 pairs separation.
4	Sheath Type: Fire Retardant PVC, Nominal O.D: >= 6.2mm, NPV :65%, D.C. Resistance: 9.38 ohm/100m, Temperature: Max 75°C Propagation Delay: 537.6@100MHz
5	Should be UL Listed, ETL verified & 4 Connector Chanel tested. (Documents to be submitted for both)
6	The product must be ISO 9001:2015& ISO 14001: 2015 Certified. Certificate copy should be attached.

B. CAT6 INFORMATION OUTLET WITH FACE PLATE AND BACK BOX (IO Box)

Sl No	Minimum Specifications Required
1	Category 6, EIA/TIA 568-C.2, FCC Subpart F 68.5 Compliant, IEC-603-7 Compliant
2	All information outlets should accept, 22-24 AWG copper
3	Jack should have integrated Spring loaded shutter for protection against dust when not used and prevents incomplete mating
4	Should be UL Listed and ETL verified
5	Jack Connector Plastic Housing: Polycarbonate, UL94V-0 rated, Operating Life: Minimum 750 insertion cycles Operating Life: Minimum 200 determinations Contact Material: Copper Alloy IDC Contact Plating: Tin/Lead Plate Contact Force: 100g minimum
6	Face Plate Material VE10 ABS and 86 x 86mm. Back Box should be supplied as per the requirement.

C. CAT6 24 PORT JACK PANEL Loaded

Sl No	Minimum Specifications Required
1	Should Be made of cold rolled steel and conform to TIA / EIA 568-C.2 Component Compliant
2	Each Ports should be with individual spring loaded shuttered for dust protection. Each port (jack) and individual replaceable.
3	Wire Accommodation: 22-24 AWG solid. Should be ETL Verified for Category 6 Component Compliance, UL Listed & RoHS Compliance.
4	Should have integral rear cable management shelf.
5	Takes the following plugs: RJ 11 (4 contacts), RJ 12 (6 contacts), RJ 45 (9 contacts).
6	Voltage Proof : 1000 V D.C. or A.C Peak and Also 1500V D.C or A.C Peak
7	Commercial Standards: TIA/EIA-568-B.2-1 Component Compliant FCC Subpart F 68.5 Compliant IEC-603-7 Compliant ISO 11801 Class E Compliant ETL Verified for Category 6 Component Compliance

D. CAT6 UTP PATCH CORDS (1Mtr)

Sl No	Minimum Specifications Required
1	Cable 4 Pairs 24 AWG copper with RJ45 Clear Polycarbonate Plug
2	The Jacket most Low Smoke Zero Halogen (LS0H)
3	Minimum comply with proposed ANSI/TIA/EIA-568-C.2
4	MIN operating life: 750 insertion cycles RJ45 plug and boot material: Clear polycarbonate Contact material: 0.35mm thick copper alloy Contact plating: Selective gold RJ45 plug dimensions compliant : ISO/IEC 60603-7-4 & FCC 47 Part 68
5	Pre-terminated with WE8W plugs. Slim clear anti-snag slip on boots. Suitable for EIA 568A or 568B wiring, ETL Verified & RoHS Compliant
6	Commercial Standards ISO/IEC 11801:2002/Amd 2:2010 Cat 6-, TIA-568-C.2 Cat 6
7	Fire Propagation Tests: LS0H Sheath: CSA FT1, IEC 60332-1, IEC 61034

E. CAT6 UTP PATCH CORDS (2Mtrs)

Sl No	Minimum Specifications Required
1	Cable 4 Pairs 24 AWG copper with RJ45 Clear Polycarbonate Plug
2	The Jacket most Low Smoke Zero Halogen (LS0H)
3	Minimum comply with proposed ANSI/TIA/EIA-568-C.2
4	MIN operating life: 750 insertion cycles RJ45 plug and boot material: Clear polycarbonate Contact material: 0.35mm thick copper alloy Contact plating: Selective gold RJ45 plug dimensions compliant : ISO/IEC 60603-7-4 & FCC 47 Part 68
5	Pre-terminated with WE8W plugs. Slim clear anti-snag slip on boots. Suitable for EIA 568A or 568B wiring, ETL Verified & RoHS Compliant
6	Commercial Standards ISO/IEC 11801:2002/Amd 2:2010 Cat 6-, TIA-568-C.2 Cat 6
7	Fire Propagation Tests: LS0H Sheath: CSA FT1, IEC 60332-1, IEC 61034

F. 24 Core SM Multi Tube outdoor armoured cable

Specifications	Requirement
Cable Type	24 Core fiber Cable, Single Mode, Armoured, Gel filled cable complying to ISO.IEC 11801 - 2nd Edition, type OS2; AS/ACIF S008; AS/NZS 3080, EIA/TIA 568-C.3. RoHS Compliant ITU-T REC G 652D spec for Low Water Peak fibre ; supports 10G + data applications. Qualifies as per ICEA-640 standard Complies with Telcordia GR20, IEC-60793-2-50 and TIA/EIA 492-CAAB standards
Construction Details :	
Outer Sheath	Anti-Rodent, Anti Termite and UV HD Polyethylene -

	Black
Armouring	ECCS Tape
Central Strength Member	Fibre Reinforced Plastic(FRP
Loose tube diameter	1.7mm (Nominal
Water Blocking	Thixotropic Gel (tube)
No. of tubes and dummies	4Nos tubes and 2 Nos dummie
Colour of Fibres in Tube	Blue, Orange, Green, Borwn, Grey & White
Dimensions and Mass Overall Cable (Nominal)	10.8 mm
Mass (Nominal)	135 kg/km
Physical Characteristics :	
Core Diameter	9.2±0.4 μm
Cladding Diameter	125± 1.0 μm
Coating Diameter	245± 10 μm
Characteristics - Optical Performance :	
Attenuation	,@ 1310nm <=0.38 db/Km MAX
	,@1550nm <=0.22 db/Km MAX
Chromatic Dispersion	1285-1330nm : ≤3.5 ps/nm.km
	1550nm : ≤18.0 ps/nm.km
Zero Dispersion Wavelength	1302 to 1322nm
Cable cut-off wavelength	≤1260 nm
Technical Information :	
Max. Bending Radius (during full load	20D
Max. Tensile Strength-Short Term	3500N
Max. Tensile Strength-Long Term	2500N
Min. Crush Resistance-	4400N/10 cm
Operating Temperature range	-40°C ±75°C

G. 24-Port Rack Mount sliding LIU

Specifications	Requirement
Rack Mount	19" rack mounted with 1U height, Sliding Drawer Type with 4 Cable entry/exit points (covered with rubber grommets)
Accommodation and Supports	Accommodation of single mode cable multimode fibers Capable of supporting SC and LC interface - For 24 Port with SC Adapter & 48 Port with LC Adapter Configurable. Fits up to four 6/12 pack plates/Angled 6 pack plates Management rings within system to accommodate excess fiber bend radius.
Fiber Adapter	For 24 Port LIU – 4 x 6 Fiber SC Adapter Plates. Rest part covered with Blank Adapter Kit
	Fiber Adapters Compliant with: ISO/IC 11801, ANSI/TIA/EIA 568.B.3-2000, ANSI/TIA/EIA-492, TELECORDIA GR-409, ICEA-596
Fiber Splice Tray	Each LIU should have splice tray
Pigtail SC SM OS2 1.5M LSZH	
Materials	SC type connector with LSOH Jacket - Reduces toxic / corrosive
Length	1.5 Mtrs length
Testing	100% Factory polished, tested and Guaranteed Performance
Technical Information	Cable: 900um Buffered Outside Diameter: 900um Buffer Diameter: 900um tight buffer Minimum bend radius: install: 30 mm Operating Temperature: -20ºC to 75ºC Retention Strength: 100N RoHS Compliance
Commercial Standards	ISO/IEC 1108:2008. ANSI/TIA/EIA-568-C.3, EIA 492, Telecordia GR-409, ICEA-596, OS2-STD ITU-T-G652 D

H. 12-Port Rack Mount Sliding LIU

Specifications	Requirement
Rack Mount	19" rack mounted with 1U height, Sliding Drawer Type with 4 Cable entry/exit points (covered with rubber grommets)
Accommodation and Supports	Accommodation of single mode cable multimode fibers Capable of supporting SC and LC interface - For 24 Port with SC Adapter & 48 Port with LC Adapter Configurable. Fits up to four 6/12 pack plates/Angled 6 pack plates Management rings within system to accommodate excess fiber bend radius.
Fiber Adapter	For 12 Port LIU – 2 x 6 Fiber SC Adapter Plates Rest part covered with Blank Adapter Kit
	Fiber Adapters Compliant with: ISO/IC 11801, ANSI/TIA/EIA 568.B.3-2000, ANSI/TIA/EIA-492, TELECORDIA GR-409, ICEA-596
Fiber Splice Tray	Each LIU should have splice tray
Pigtail SC SM OS2 1.5M LSZH	
Materials	SC type connector with LSOH Jacket - Reduces toxic / corrosive
Length	1.5 Mtrs length
Testing	100% Factory polished, tested and Guaranteed Performance
Technical Information	Cable: 900um Buffered Outside Diameter: 900um Buffer Diameter: 900um tight buffer Minimum bend radius: install: 30 mm Operating Temperature: -20ºC to 75ºC Retention Strength: 100N RoHS Compliance
Commercial Standards	ISO/IEC 1108:2008. ANSI/TIA/EIA-568-C.3, EIA 492, Telecordia GR-409, ICEA-596, OS2-STD ITU-T-G652 D

I. Pigtail SC SM-1.5 Mtr

Details already mentioned with 12-Port / 24-Port LIU.

J. SC-LC SM OFC Patch Cord-3 mtr

Specifications	Requirement
Type of connectors	SC - LC LSOH Jacket - Reduces toxic / corrosive
Length	Minimum 3 meters
Polishing	100% Factory polished and tested
Insertion Loss	Less than 0.35dB per connector
Attenuation	0.4dB/km over 1310nm to 1625nm
Standards	ROHS Compliant
Jacket Material:	LS0H IEC 61034-1 & 2, IEC-60332-1, IEC-60754- 1 & 2

K. 17U Floor Mount rack

Sl.No	TECHNICAL SPECIFICATION
1	The OEM should be ISO 9001-2015, ISO 14001 Certified
2	19" Wall Mount Rack: 15U x 600mmwidth x 600mm depth, Steel frame structure design, Top & Bottom Cover with Vent and Cable entry/exit provision, Powder coated finish 80uM with Seven Tank pre-treatment process. The product must confirm to DIN41494 Standard.
3	Front toughened glass door with lock & key
4	Front panel mounting hardware. – 1 No.
5	230V A/C 90 CFM fan mounted on top cover - 2 Nos.
6	PDU 6 sockets 6/16A – 1 No.
7	Horizontal Cable Manager 1U with loops – 3 Nos.

L. 42U Network Rack

S.No	TECHNICAL SPECIFICATION
1	The OEM should be ISO 9001-2015, ISO 14001 Certified
2	19" Floor standing Rack: 42Ux 800mmwidth x 1000mm depth, Aluminium Extrusion Vertical Profile, Top & Bottom Cover with Vent and Cable entry/exit cut outs , Powder coated finish 80uM with Seven Tank pretreatment process. The product must confirm to DIN41494 Standard.
3	Removable Side Panels partially vented -2 Nos.

4	Front Honeycomb Door with lock & key
5	Rear Honeycomb Door with lock & key
6	Heavy Duty Castors with break– 1 Set
7	Front panel mounting hardware. – 1 No.
8	230V A/C 90 CFM fan - 4 Nos.
8	Fan Housing Unit 4 Fans - 1 No.
9	Earthing Kit-1 No.
10	Horizontal Cable Manager- 2 Nos
11	Vertical Power Distribution Unit with 12 x 5/15 sockets Round Pin, 230 Volts AC, 32 Amp with MCB – 2 Nos.

ii.   Attendance Biometric Machine Module(ii)

Customized Software, Biometric Machines (Face Recognition Time Attendance System & Fingerprint option), LAN Connectivity capability, Wall mountable Biometric Attendance System with Installation, commissioning and three years warranty with operations and maintenance. Free maintenance of one year.

- Users Capacity: 1000 Faces & 2000 Fingerprints (minimum)
- Transaction Storage Capacity: 1,00,000 Logs (minimum)
- Camera: High Resolution Camera
- Battery Backup: 3 - 6 hours on full charge
- Access Control: Inbuilt
- Instant verification and enrollment
- Multi-user facility
- Display 4.3'' TFT touch screen (minimum)

With USER ID and password protection system to all users (approx. 5000) and SMS enabled system to all users.

iii.   Online High end Server with power back up, rack Module(iii)

High End Server with i5 processor, clock speed of 1.7 GHz, 1x16 GB, RAID S100i (embedded), Ethernet port 4x1GBE NIC (embedded), 2x PCIe (embedded), with easy install rail kit, with drive cage, with 195 inch MONITOR, Windows software, mouse, cooling system. Additional elements required for the high end server (if any).
Additional RAM 16GB
Additional HDD 1.2TB
Online UPS

15KVA online UPS with 120 min backup

Category : Online UPS In **Electrical Equipment and Components and Supplies**

15KVA Online UPS Suitable For Three Phase A/C Input and Single Phase A/C
Output with 120 Min Backup.
Input Power - Three phase 300 V - 450V sinewave, 50Hz
Output power - single phase 230V ±1% sinewave, 50Hz
Minimum VAH - 36000 VAH
20% Overload limit for minimum 10 minutes - Yes

iv.   **Photocopy Machine: Module(iv)**

- A3 Size Multifunction Device (Printer/Scanner/Copier)
- Multifunction Machines and Accessories
- Monochrome Multi functional Office Machine, With Separate Drum and Toner
- Duplexing Feature Availability, Network Feature Availability, Without FAX
-

v.   **Air Conditioner: Module(v)**

Energy Efficiency 5 Star, Rating Capacity1.5 Tons, Remote Control

vi.   **Recurring Expenses (paper, catridges etc.) Module(vi)**

Monthly expenses for the paper, cartridge and some accessories will be borne by the Vendor.

vii.   **Site Engineer: Module(vii)**

Vendor must appoint one site Engineer / Supervisor who will provide the details of the biometric report by submitting detail printouts in two sets in the morning and afternoon. The site engineer shall supervise the execution of project, provide project status reports to the authority daily (twice). The site Engineer will maintain attendance of students, faculties and staffs.
The Vendor will be responsible for unauthenticated tempering.
Any legal disputes pertaining to the unauthenticated tempering will be subjected to jurisdiction of concerned courts within the state of Odisha.

viii.   **Attendance & Time Table Management: Module(viii)**

The Vendor will provide the customized software, so that the BAS can be changed as per IGIT, Sarang's requirement.

Separate bids for module (i) and modules numbering (ii)-(viii) of BAS package may be

submitted. However, a Vendor can also submit a bid for all modules but separate EMDs has to be submitted. A Vendor submitting bids for modules numbering (i), (ii)-(viii) has to quote unit price (wherever applicable) for each and every module. Partly or incomplete bidding of modules shall be rejected outright. The pre-eligibility criteria and evaluation for modules (i), and (ii)-(viii) are mentioned below. The evaluation basis and award of work for modules (ii)-(viii) is also mentioned therein. The pre-eligibility criterion for module (i) is also given separately.

3. PART-1. TECHNICAL BID (MODULE (i)) SHALL CONTAIN THE FOLLOWING PRE-QUALIFICATION CRITERIA

Vendor's profile and other eligibility (All the relevant Certificates must be attached)

Sl. No.	Basic Requirement	Specification requirement	Documents required
1	Legal Entity	The Vendor should be a company registered under the Companies Act, 1956 or a partnership firm registered under Indian Partnership Act 1932 or Limited Liability Partnership Act 2008 with registered office in India and in operation for at least 5 years as on 31.03.2018.	Certificates of incorporation / Registration
2	Turnover	Vendor must have an average annual turnover of Rs.10 Crores per annum during the last three financial years.	Supporting document like Balance sheet/CA Certificate must be submitted
3	Net Worth	The net worth of the Vendor in the last three financial year (as per the last published audited balance sheet) should be Positive	CA Certificate

4	Technical Capability	Vendor should have experience in successfully executing works of similar nature during the last 5 years and executed at least 3 work orders of Supply & Installation of proposed items of value Rs. 50 Lakhs or more in Government/Semi Government/PSU's/ Govt. Educational Institute/ during last 5 financial years.	Documentary proof with satisfactory Installation & acceptance of the same should be attached
5	Tax Registration Certificate	The Vendors must have a valid PAN No., TIN No & Service Tax No	Copies of relevant documents should be submitted.
6	Certification	The bidding company must be ISO 9001:2008 certified company.	Copies of valid certificates.
7	Blacklisting	The Vendor should not have been blacklisted by any Government / Government agency / Defense/Financial Institution in India in the past AND there shouldn't be any past / ongoing legal trial in name of any of the Directors / Partners of the bidding company.	A self-declaration letter by the bidder, on the Company's letterhead should be submitted.
8	OEM Authorization	The Vendor should be OEM or Authorized Dealer/System Integrator of the OEM of the offered product.	Authorization Letter from OEMs specific to this tender need to be submitted.

9	Experience	Similar kind of experience in IITs/IISERs/IIMs/NITs/Central University/ State Universities/ State colleges/ State Govt offices/Similar Reputed institutes of same make of value equal or more than 50 Lakhs In the last 3 financial years.	Copies of valid experience certificates.

The Section –II (Financial bids) for module (i) shall be opened only for those Vendors who will qualify technically (i.e. those who have submitted valid earnest money, those who have submitted valid documents as per eligibility narrated herein above).

PART-2. TECHNICAL BID (Modules (ii)-(viii)) SHALL CONTAIN THE FOLLOWING PRE-QUALIFICATION CRITERIA

Vendor's **profile and other eligibility (All the relevant Certificates must be attached)**

(a) Vendor must be of reputed standard, which have experience of implementing BAS (s) in at least 3 Indian state/ central Universities of education in last three years.
(b) Vendor must be a product Vendor and shall be one-stop solution for the development, implementation and maintenance of the product.
(c) Vendor shall be able to develop and implement the solution directly without any third party (s) intervention/involvement.

Sr. No.	Eligibility	Documentary to be Submitted
A. Criteria Related to Incorporation:		
1	The Vendor shall be a company licensed to provide services tendered for and shall be in existence for a minimum period of 5 years as a registered company	Copy of Certificate of Incorporation and Memorandum of Association – object clause.
2	The Vendor shall be an Authorized registered Company	The copy of Authorized certificate.
B. Criteria relating to Government Regulation		
4	Vendor shall have valid GST number, and valid PAN (not individual) in the name of the company.	Documentary proof of GST Number and copy of PAN.
5	Vendor shall have valid Income Tax returns for the last three financial years.	Documentary proof of income Tax returns submission for the last three

		financial years.. Provide copy of PAN Card.
C. Criteria Related to other eligibility		
7	The Vendor shall be able to station adequate manpower to complete the entire implementation in a time period within three/four months from the placement of the order.	CV's of proposed Project Managers along with details of specialist engaged, for the respective areas of installation and implementation of the system.
8	The successful Vendor shall not outsource the work or any part there of required to be performed under the contract to a third party under any circumstances. This violation may attract cancellation of the contract and forfeiture of all the guarantees. In such a situation, the cost differential shall also be recovered from the successful Vendor.	Undertaking by Vendor to this effect.

4. CLARIFICATIONS TO RFP

The Vendor may seek clarifications in writing regarding the RFP document within ten days from the date of issue of Notice for RFP. IGIT, Sarang shall respond in writing to any such request for the clarifications and all such clarifications shall be posted on IGIT, Sarang website (www.igitsarang.ac.in). The Vendor shall submit signed copies of all such clarifications furnished and posted by IGIT, Sarang in the Part -1 (Technical Bid) as a token acknowledgement of perusal of such clarifications by the Vendor.

5. CRITERIA FOR EVALUATION AND AWARD OF WORK FOR MODULE (ii) TO (viii)

i. The Vendors will be asked to make presentation for the IGIT requirement based on their understanding of the Request for Proposal (RFP) document. The presentation will be followed by discussion with some query. The Part –II (Financial bids) will be opened only for those Vendors who will qualify technically (i.e. those who have submitted valid earnest money, those who have submitted valid documents as per eligibility narrated hereinabove and those who have scored 50 marks out of 100 marks as mentioned below in Subsection (iii). The RFP responses will be evaluated on the basis of the criteria indicated in the format below:

ii. The Section –II (Financial bids) shall be opened in presence of duly authorized representatives of technically eligible Vendors, who may like to be present.

iii. Final Proposal shall be given scoring as below Modules (ii) to (viii)

Technical Bids for Modules (ii) to (viii) will be assigned a Technical score (Ts) out of a maximum of 100 points. As per the technical evaluation criteria as mentioned in this RFP.

The Part –II (Financial Bids) for Modules (ii) to (viii) will be assigned a Financial score (Fs) out of a maximum of 100 points. The Vendor who has quoted the lowest price will be assigned a score of 100 in the Financial score bid. The other Vendors will be allotted score relative to the score of Vendor with the lowest quote as below:

Fs = 100 * Fl /F
Where:
Fs = The financial score of the Financial bid being evaluated
Fl = The price of lowest priced Financial bid
F = The quoted price of Financial bid under consideration

QCBS Evaluation (Quality and Cost Based Selection)

The score of the Part–I (Technical bid) for Modules (ii) to (viii) Ts including presentation would be given 70% weightage, and the Part–II (Financial bid) Fs for Modules (ii) to (viii) would be given 30% weightage. The weighted combined score of the Technical bid including presentation (Ts), and Financial proposals (Fs) shall be used to rank the Vendor on the basis of formula given as below.

Combined Final Score = 70 % of Ts+ 30 % of Fs
Vendor with highest combined final Score shall be declared selected Vendor.

P.S.: If two or more Vendor**s with same final score, the** Vendor **with more marks in technical evaluation shall be selected. If two or more** Vendor**s with same final score and same technical evaluation score, the** Vendor **with more marks in finance evaluation score shall be selected.**

iv. Technical Evaluation Criteria (Allotment of Technical score Ts) for Modules (ii) to (viii)
In the below table, Technical parameters for Technical evaluation are mentioned:

S. No.	Technical Parameters	Maxi mum Marks
1	Average Annual Turnover of the Vendor during the last three (3) financial years. >= INR 5 Crores : 20 (marks) >= INR 3 Crores and < INR 5 Crores : 14 (marks) >= INR 2 Crores and < INR 3 Crores : 08 (marks) < INR 2 Crores : 0 (marks)	20
2	The value of work done by the Vendor in implementation of education process/ automation projects in Government Departments/ PSUs/ Educational Institutions in India during last 3 Financial Years (FY 15-16 onwards). (Cumulative value of top	20

	three qualifying projects will be taken into consideration) >= INR 5 Crores : 20 (marks) >= INR 3 Crores and < INR 5 Crores : 14 (marks) >= INR 2 Crores and < INR 3 Crores : 08 (marks) < INR 2 Crores : 0 (Marks)	
3	Vendor's experience in implementation of project in State/Central Education boards/universities/ Autonomous Institutes in India >= 10 nos. : 20 (marks) >=5 and <10 nos. :14(marks) >=3and <5 nos. : 08(marks) <3 nos. : 0 (marks)	20
4	ISO 9001:2008 or similar quality certification available: Yes : 10 (marks) No : 0 (marks)	10
5	Technical Presentation on approach and methodology, Demonstration of firm's own developed project having functions as per the requirements in the RFP.	30
	Total	**100**

For Module (i) the Vendor must meet the eligibility criteria (pre-qualification criteria as mentioned)

6. VALIDITY OF RFP

The RFP response submitted by the applicants shall remain valid for a period of 120 (ONE-TWENTY) days after the date of RFP response opening prescribed in this document. A RFP response which is valid for shorter period may be rejected as nonresponsive.

7. EARNEST MONEY DEPOSIT (EMD)

(a) EMD of Rs. 1, 80,000 (INR) for module (i) and RS. 40,000 (INR) for modules (ii) to (viii) the form of a Demand Draft drawn in favour of **Principal, IGIT, Sarang** and payable at IGIT, Sarang (SBI IGIT, Sarang Branch Code 10246) must be submitted along with the Part –I Technical Bid in separate envelope. The Bids not accompanied by EMD shall be rejected as non-responsive.

(b) No interest shall be payable by the Institute for the sum deposited as EMD.

(c) The EMD of the unsuccessful Vendors would be returned within one month of signing of the contract.

(d) No bank guarantee shall be accepted in lieu of the EMD.

8.   FORFEITURE OF EARNEST MONEY DEPOSIT (EMD)

The EMD shall be forfeited by the **IGIT, Sarang** in the following events:

(a) If the bid is withdrawn during the validity period or any extension agreed by respondent Vendor thereof.

(b) If the bid is varied or modified in a manner not acceptable to the **IGIT, Sarang** after opening of bids during the validity period or any extension thereof.

(c) If the respondent Vendor tries to influence the evaluation process.

(d) If the First ranked Vendor withdraws its bid during negotiations (failure to arrive at a consensus by both the parties shall not be construed as withdrawal of proposal by the consultant).

9.   OTHER TERMS & CONDITIONS

9.1 General Terms

(a) The conditional/ incomplete bids or those who received after due date shall be summarily rejected.

(b) The award/ cancellation of work shall be decided at the sole description of **IGIT, Sarang**. Invitation of Tenders/ quotations is not a commitment.

(c) **IGIT, Sarang** reserves the right to accept or reject in part or full or all the offers without assigning any reason thereof. Any decision of **IGIT, Sarang** in this regard shall be final and binding on the Vendor.

(d) The Vendor shall abide by all labour laws such as payment of wages Act 1936 with up to date amendments, minimum wages Act 1948 with amendments etc and other laws as applicable during the execution of work.

(e) The institute shall make all payments through account payee cheque drawn on SBI, **IGIT, Sarang** in Indian rupees. Necessary bank mandate detailing bank account number etc shall be submitted after execution of agreement.

(f) The successful Vendor should establish a technical control centre at **IGIT, Sarang** for a period of four years or more from the date of completion

(g) Neither party shall bear responsibility for the complete or partial non-performance of any of its obligations (except for failure to pay any sum which has become due on account of receipt of goods under the provisions of the present contract), if the non-performance results from the Force Majeure circumstances such as Flood, Fire, Earth Quake and other acts of God as well as War, Military operation, blockade, Acts or Actions of State Authorities or any other circumstances beyond the parties control that have arisen after signing of the present contract.

(h) In case of any dispute arising out of or in connection with the contract either during the tenure of the contract or thereafter, the Director of the institute is the sole arbitrator to decide the same and his decision is final and binding on both the parties. If differences persist after arbitration and there are compelling reasons to go to court, it shall be decided in the court of Kamakhyanagar/Dhenkanal.

(i) Proposal Binding Period
Prices quoted in the Vendor's response for all labour and materials shall remain in effect for a period of at least three years from last date of the bid submission.

9.2 Price Stability

Contract prices and discounts as offered in the bid and accepted by IGIT, Sarang shall remain fixed during the contract period. In the event of price changes,

replacement equipment shall be purchased at the lower of quoted value or then current market price. In no case shall a price higher than contract price be paid for equipment proposed. If **IGIT, Sarang** desires to purchase equipment or services not contained in the contract, future purchases shall be determined using the Vendor -specified discount rate in the proposal from the manufacturer's suggested retail price as of the date of the order. In no case shall the price exceed the favored Vendor prices.

9.3 Right to Reject

IGIT, Sarang reserves the right to reject all bids. Responses should be submitted initially with the most favorable terms that the Vendor can propose.

9.4 Standards

IGIT, Sarang expects that the Vendor would use standards, especially for configuration and user-interface, which shall be used throughout. Checklists for reviewing user interfaces must be developed and used by the Vendor.

9.5 IGIT, Sarang Involvement

Director, IGIT, Sarang shall be the single-point contact for the project. **IGIT Sarang** shall also assign a tester. All major decisions must be made with the involvement and agreement of the **IGIT, Sarang** project team. At no time must the Vendor hold back any information related to the **IGIT, Sarang** project and system, which is requested for by the **IGIT, Sarang** project team. It is the responsibility of the Vendor to ensure that the **IGIT Sarang** project team has complete information on the software and system so that, after the warranty period, the **IGIT, Sarang** project team is fully capable of maintaining and enhancing the software system. The **IGIT, Sarang** Project team shall participate in reviews of all documents and shall have approval authority.

9.6 Requirements Gathering Period

The IGIT, Sarang project team shall fully participate in all activities of the requirements study and configuration period. The IGIT, Sarang team shall be responsible for validating the outcome of the requirements study done by the Vendor. IGIT, Sarang shall fully participate in the configuration of the system and the database creation, and review and approve the outcome of the design.

9.7 Manpower requirement/qualifications

There shall be one year free up-gradation/maintenance service to be provided by the Vendor for successful deployment of the BAS Package. After development and implementation of the package by the personnel deputed to **IGIT, Sarang**, at least one Technical engineer must be provided at the station for day to day activities for a period of 3 years.

The Vendor shall be directly responsible for payment of salary, P.F, accommodation and other benefits to its engineer residing engaged at **IGIT, Sarang. The** Vendor **must arrange for the accommodation of the Technical engineer. The** Vendor **shall quote their rate for Technical engineer year-wise. The rate shall include the cost of accommodation. The institute shall arrange for his sitting arrangement at the institute at no extra cost.**

a) List of 5 clients with name, complete address and contact person with telephone number where the company is currently maintaining as at the date of submission of the bid. *Copies of such work order or any other documentary evidence from Govt. Departments/Public Sector Undertakings/boards/university should be attached*.

Sl. No.	Name of the Organization/Govt. dept/PSU/Board/univ ersity with Contact person with tel. No.	Details of the project	No. of resident engineers provided	Period of contract	Contract value (INR in lakhs)

Section –II (Price Bid)

i. Instruction for Price Bid

Price Bid submission- Reverse Auction

1. The price bid submitted by the Vendor shall be inclusive of all elements of costs and shall ensure that the followings are also included therein: -

- The cost of movement of its people from its office to the project sites.
- All the expenses like cost of local travel, boarding and lodging during the stay of the project team of the Vendor etc at IGIT site.
- All expenses incurred during project phases as mentioned above and in System Integration services and solution scope of the RFP.
- All the communication costs associated with the project.
- The costs incurred by the project team of the Vendor for travel to the other offices and project sites of IGIT, or its customers, partners etc. for the purpose of the project.
- Expenses if any to be incurred in any change in functional design document relating to interfaces, modifications, custom developments, enhancements or similar changes including personalizations at any stage after signing off the functional design documents involving up to 5 competent man-days of efforts for each such change.

ii.   Format for Price Bid

SL.NO.	ITEM	Specifications	Cost (unit price)	Remarks
1.	Biometric Machine			
2.	Supply, Installation and Commissioning of Fiber Optic Cables including wiring and equipment (as per actual) as specified in module (i).			
3.	Online High-end Server with power back up, rack			
4.	Online UPS			
5.	Photocopy Machine			
6.	Air Conditioner			
7.	Recurring Expenses			
8.	Site Engineer			
9.	Customized Software			
10.	Maintenance charges per year after free maintenance period of one year			