



**GOVERNMENT OF WEST BENGAL  
PANCHAYATS & RURAL DEVELOPMENT DEPARTMENT  
STATE INSTITUTE OF PANCHAYATS & RURAL DEVELOPMENT  
KALYANI::NADIA:: WEST BENGAL :741235**

Web site- <http://www.siprd.org>

Email: [wbsiprd@vsnl.net](mailto:wbsiprd@vsnl.net)

Gandhi Bhavan (Campus-A)  
Phone: (033) 2582-8161  
2582-5975 / 5641  
Fax: : 2582-8257

Benoy Bhavan (Campus-B)  
Phone: (033) 2582-9640  
2582-9641/ 9642  
Fax: : 2582-9640

**Notice for inviting Techno-Commercial offer (E.O.I.) from reputed Computer Hardware/Networking maintenance firms**

**Memo No: 639 /II-30/95 Part – A (2)**

**Date: 18.05.2010**

State Institute of Panchayats & Rural Development, B-18/204, Kalyani, Nadia, Government of West Bengal, invites bids for procurement and installation of LAN materials with Fiber Optic backbone between the buildings and structured cabling with UTP cable inside the building at both the campuses of this institute, subject to compliance of the requirements specified in the terms and conditions as per **Annexure – I**. This office desires to engage a reputed repairing/maintenance firm having profound experience in networking job on Windows/Linux based Computer set - up

The concerned firm should be equipped with stock of required quantities of standard quality of spare parts, compatible with the computer set up of this institute. They should be capable of undertaking appropriate arrangements to keep the systems operative. Selection of firms for installation of LAN materials will be made strictly on the basis of their experience and reputation of the firm. Two sealed offers one for Technical and another for Commercial have to be submitted separately. Commercial offer will be considered only for those bidders who qualify in the technical bid.

The tender paper will be available from this office on any working day during working hours from **18.05.2010** to **01.06.2010** till **1 P.M.** The last date of receipt of sealed quotation for above article (along with the particulars) at this office is **04.06.2010** up to **2 P.M**

The sealed quotation will be opened on **04.06.2010** at **4 P.M.** One representative of each quotationer will be allowed to remain present at the time of opening of the sealed quotations. The representative of each quotationer should carry the identity card and letter of authority of the quotationer.

This Office reserves the right to accept or reject any quotation received from any firm without showing reason or any correspondence whatsoever.

Sd/-

**Director,**

**State Institute of Panchayats & Rural Development,**

**Kalyani, Nadia,**

**West Bengal**

## **TERMS & CONDITIONS**

**[Note: Bidders should read these conditions carefully and comply strictly while sending their EOIs.]**

1. SIPRD, Govt. of West Bengal invites sealed 'Expression of Interest' for purchase and installation of LAN materials in its office situated at Kalyani, Nadia.
2. Any reputed firm may submit their bid against this Notice inviting 'Expression of Interest' only if they have a Tender-specific authorization and have a record of **doing this kind of networking job** to the Government, Semi-Government or Public Sector Undertaking.
3. The Agency should be equipped with stock of required quantities of spare parts, compatible with the items to be supplied.

The Agency should be capable of undertaking proper maintenance work at the site of installation within 24 hours of intimation. In case, downtime is more than the prescribed limit, the Agency will ensure that a standby item is provided.

The Agency would be required to maintain a log of all complaints received through phone/fax/ e-mail and act on them within the time frame specified. Failure to act on complaints would be treated as non-performance.

**4. Earnest Money Deposit (EMD):** Tender paper must accompany **earnest money of Rs. 20000/-** in the form of Bank Draft drawn on any Nationalised Bank in favour of the State Institute of Panchayats and Rural Development, Kalyani. The Bank Draft will be retained till satisfactory supply and installation of computer system as per specification and within stipulated time frame. In the event of failure to complete installation as per specification/time frame, the earnest money will be forfeited.

**5. Refund of earnest money:** The earnest money of unsuccessful bidders shall be refunded soon after final acceptance of Bid. No interest will be paid by this office on the Earnest Money.

**6. Forfeiture of earnest money:** The earnest money will be forfeited in the following cases:

- a) When the Agency withdraws or modifies the offer after opening of bid but before acceptance of the same.
- b) When Agency does not execute the prescribed agreement, if any, within the specified time.
- c) When the Agency fails to commence the supply of the item as per supply order within the time prescribed.

7. The vendor, whose tender is accepted, will be required to furnish security deposit in the form of Bank Draft to the tune of 5% of the total cost, to ensure proper coverage of maintenance during the warranty period .The earnest money may, however, be treated as part of the security deposit.

8. The security deposit of the successful bidders will be released in two phases; 50% of security deposit after six months from the date of installation and the balance amount after one year from the date of installation.

**9. Submission of Tender:** Tender paper will be available at Gandhi Bhavan, SIPRD, Kalyani from 18.05.2010 (Vide Tender Notice No. 639/II-30/95 Part – A (2) dated 18.05.2010) during office hours. Sealed Tender papers along with the required particulars will be received at SIPRD, Kalyani till 2-00 p.m. of **04.06. 2010**. The preliminary Expression of Interest of the agencies will be opened at 4-00 p.m. of **04.06. 2010**. In case, the date of opening of tender happens to be a holiday, the tender will be received and opened on the next working day on the same time. One authorized representative of the intending bidders will be allowed to stay during opening of the tender. At that time, only the names of the participating agencies will be disclosed then. No Quotation will be accepted after the said date & time. The Quotations submitted by post/ courier/ telex / telegrams / fax / e-mail will not be considered. No further correspondence will be entertained in this matter. SIPRD will not be responsible for any delay in submission of the Quotation.

**10. Technical Evaluation:** Technical evaluation of the bids shall be done on the following parameters:-

- a. Technical specifications, samples and the leaflets / supporting document enclosed to confirm them. **All Active and Passive components must have warranty period of minimum five years.**
- b. Authorization Certificate of Hardware companies
- c. After Sales Service Support Certificate from at least 3 Customers.
- d. The agency must have at least 3-4 certified service engineers in their pay roll to render their service to Windows based network.
- e. The agency must have the experience of onsite AMC for networking of big organizations (Multi-national/Govt. departments)
- f. Company's supply record in West Bengal and Government Departments. The vendors must enclose the list of supplies executed by them, complete details of supplies, value of supplies and name of the institutions to which supplies have been made.
- g. Sales Tax/VAT Registration and Latest Sales Tax & P. Tax Clearance Certificate.
- h. Copy of the registration certificate for firms registered or Trade License.
- i. Details of work done/order executed during the past 3 years in same name and style.
- j. Payment / Credential certificate (issued by the Purchaser). Credentials i.e, certificates of satisfactory execution of work/ supply issued by work order or purchase order issuing authority for the works done/supply made during the past 3 years.
- k. List of Technical manpower for repair/maintenance available with the Agency.

Weightage will be given to the bidders on basis of the above.

**11. Quantity of Items:** Only a tentative quantity of items has been given in Annexure – I. Quantity of the items to be supplied will have to be determined on actual basis by the successful bidder after finalization of the selection procedure.

## **12. Delivery & Installation:**

- (a) The tenderer(s), to be selected for supply and installation will have to install the items at the specified location. The supply and installation order will be issued from this office only.
- (b) If any loss or damage occurs in transit, it will be the responsibility of the supplier to make good of the loss, within the time stipulated in the supply order.

**13. Specifications:** All articles supplied shall strictly conform to the specifications, trademark/ brand and the articles should conform strictly to those specifications/ certifications. Certificates of quality proof must be enclosed.

## **14. Inspection:**

- (a) All items supplied will be subject to an inspection by the Technical Committee of SIPRD.
- (b) Materials not approved during inspection or testing shall be rejected and will have to be replaced by the Vendor at their own cost within 7 (seven) days of receipt of letter/ report regarding rejection.
- (c) Materials, which are not as per specifications, are liable to be rejected. Such defective/ substandard materials will have to be removed by the supplier from site at his or her own expenses. The Supplier will be allowed to replace such material by good quality material within 7 days of receipt of rejection report.
- (d) If there be any reduction of price between the placement of order and completion of installation of the system of any item/items, the consequential benefits will be passed on to the requisitioning office.

**15. Agreement:** Successful Bidder will have to execute an Agreement in non-judicial stamp paper of value Rs.10/- (or more) with this office conforming to the terms & conditions of this Notice inviting tender. Both the parties will have to sign the Agreement. After that, work-order will be issued in favor of the selected vendor.

**16. Warranty:** The participating vendor should carefully note that the on-site Warranty period for all materials supplied by them and its smooth running would be according to standard warranty terms of the said Hardware comprehensively from the date of installation of the system.

17. The Vendors must sign & seal each page of their Tender document. Incomplete tenders are liable to be rejected.

18. (a) **The acceptance of the tender will rest entirely with the authority that does not bind him to accept the lowest tender and reserves the right to reject any tender partly or fully without assigning any reason whatsoever.**

(b) Tender not conforming to any or all the above terms & conditions are liable to be rejected.

(c) Any attempt by any vendor to bring pressure of any kind, will disqualify the Vendor.

(d) If a Vendor imposes conditions, which are in addition to or in conflict with the conditions mentioned herein, their Quotation is liable to be summarily rejected.

19. In the event of any dispute, this office shall decide on appropriate measures in the interest of public service.

## Annexure – I

Sl.no	Passive Fiber Component	Description	Tentative Quantity	Unit price
1	Fiber Optic Cable	Multimode 6 Core FO Cable	On actual basis (in Metres)	
2	LIU	24 port LIU Rack Mount full set	1	
3	LIU	6 port LIU Rack Mount full set	7	
5	Fiber Patch Cord 2mtr.	SC to LC / SC to SC (Multimode)	22	
4	Pigtail 1.5 mtr.	SC Pigtail	40	
<b>Passive UTP Component</b>				
1	6U VAL Rack	6U VAL Rack with Power strip 5 socket etc.	7	
2	I/O Box	Information Outlet CAT 6 with SMB.	120	
3	17U VAL Rack	17 U VAL Rack with Power strip 9 socket, FAN etc.	1	
4	Cable	CAT6 cable	8 Boxes	
5	Patch cord 2mtr.	CAT6 patch cord	120	
6	Patch cord 1mtr.	CAT6 patch cord	120	
7	UTP Patch Panel CAT6 24 port	19" Rack mount frame 1U or 2U 22.5* 45 mm cut-out for keystone.	11	
<b>Active Component</b>				
1	Core switch	20 port 10/100/1000 Mbps switch 8 1000 base open SFP loaded with mini-GBIC port	1	
2	Access switch	24 port 10/100 Mbps switch 2 combo 1000-base-T mini-GBIC port L2 manage Switch	8	
3	Fiber Module	1 port mini-GBIC SX Multimode fiber transceiver.	7	
4	Media Converter	Multimode	2	
5	Access Point	Wireless AP	5	
<b>Installation and Cable Laying</b>				
1	FO Cable Laying	FO cable Laying underground with HDP pipe, Brick and sand		
2	FO Cable Termination	Fiber Optic termination		
3	UTP cable Laying	CAT 6 cable laying through conduit and casing		
4	Rack installation			
5	Switch Installation			
6	Proper Diagram & Documentation			

***Copy forwarded for information and necessary action,***

1. Sri R. K. Maity, Special Secretary to the Government of West Bengal, Panchayats & Rural Development Department, Jessop Building, 63 N.S.Road, Kolkata – 700 001.
2. Sri Subhra Chakraborty, WBCS (Ex) Programme Officer (IT), P & RD Department with the request to publish the Notice in Department Website.
3. The Sub – Divisional Officer, Kalyani, Nadia.
4. The Chairman, Kalyani Municipality, Kalyani, Nadia.
5. The Additional Executive Officer, Nadia Zilla Parishad. Krishnanagore, Nadia.
6. The Sub – Divisional Information & Cultural Affairs Officer, Kalyani, Nadia.
7. The Head Clerk, S.I.P.R.D., Kalyani, Nadia.  
For information with the request to display the notice for wide circulation.
8. Office notice board.

**Director,**

**State Institute of Panchayats & Rural Development,**

**Kalyani, Nadia,**

**West Bengal**

### **Core switch specification is as follows:-**

- Switch should have 16 X 10/100/1000 base T and loaded with 8 mm fiber module from day one
- Minimum 4 slot chassis
- The switch can be populated with additional 8 fiber modules in future.
- Switch should have 35 Gbps back plane and 10Gig technology ready
- The switch shall support redundant power supply and shall be loaded with two power supply.
- The switch shall support static route and VLAN route from day one.
- The switch should be SNMP managed and shall support following protocols:-  
802.1d, 802.1q, Radius or Tacacs authentication.
- Gartner listed brand
- Next Business Day replacement

### **Access switch:-**

- 8 Gbps back plane
- SNMP manage and support for 802.1d, 802.1q, Radius or Tacacs authentication etc.
- Gartner listed brand
- Next Business Day replacement

## **Specifications for Passive Items Cable & others**

### **All Fiber Components should be from the same OEM.**

The OEM should be ISO 9001:2000 & QS: 9000 Certified. In the changing needs of the global resources if the company has environmental management systems in place like ISO 14001 accreditation, the same shall be added advantage.

The cabling should be certified to have application support warranty for next 25 years.

**The complete cabling system (copper as well as fiber) offered shall be upgradeable to the intelligent system if required in future by retrofitting of sensors. The OEM should have at least 1 site on intelligent system in India.**

### Technical Specifications

#### **A. FIBER CABLING COMPONENTS**

##### **(i) Optical Fiber Cable**

###### **Specifications of indoor riser rated 6 core Multi Mode, 50 micron, OM2 optical fiber cable:**

The cable should consist of 900m tight-buffered optical fibers reinforced with Aramid Yarns and sheathed in flame retardant PVC.

Characteristics- Optical Performance

###### Max. Attenuation:

At 850 nm: 3.5 db/KM

At 1300 nm: 1.0 db/KM

###### Min. Bandwidth:

At 850 nm: 200 MHz/KM

At 1300 nm: 500 MHz/KM

###### Construction Details:

Fiber Identification: Colour Coded

Fiber Insulation: Coloured Nylon

Reinforcing: Aramid Yarns

Sheath: PVC

Diameter (Nominal): 5.6 mm

Mass (Nominal): 38 Kg/KM

Min. Bending Radius (Full Load): 105 mm

Max. Tensile Strength (Short Term): 0.6 kN

Operating Temp. Range: -10degree centigrade to + 60 degree centigrade

Crush Resistance (Short Term) : 1.0 kN/100mm

##### **(ii) FIBER PATCH PANELS – RACK MOUNT**

Characteristic	Min. Required Specification
	Have sufficient slots accommodate duplex SC adapters individually.
	Should have fiber management provision inside
	Have earthing plugs and other accessories.
	Panel cover should be slide out for easy maintenance
	Provide self-adhesive, clear label holders (transparent plastic window type) and white designation labels with the panel, for front panel labeling.
	Should be upgradeable as Intelligent Patch Panel without changing the existing Patch Panel hardware by simple retro fitting of intelligent sensors as and when required.

**(iii) SC DUPLEX ADAPTORS**

<b>Characteristic</b>	<b>Min. Required Specification</b>
Features	All SC adaptors should be duplex type with shutter for protection. Adapters should be snap mount for easy insertion and removal.

**(iv) Optical Fiber Connectors (SC)**

<b>Characteristic</b>	<b>Min. Required Specification</b>
Features	Provide a field installable single mode connector to terminate fiber optic cables from cable-to-cable, cable-to-equipment and equipment-to-equipment.
	The connector must: Be field installable
	Utilize a PC polishing on the tip to provide high yield during installation.
	Meet EIA and IEC standards for repeatability.

**(v) Optical Fiber Equipment Cords (minimum 3 meter)**

<b>Characteristic</b>	<b>Min. Required Specification</b>
Features	All optical fiber patch leads shall comprise of Single mode 9/125 $\mu$ m fiber with SC, fiber connectors terminated at each end. The optical fiber patch leads shall comply with the following specifications:
	Connector: Zirconia ceramic ferrule
	Pre-radiiuses and pre-polished ferrule
	Epoxy type fiber encapsulation
	Color-coded connector boots fitted to connectors on duplex patch leads.
	Dust caps shall be fitted on each connector at the assembly
	Cable: 9/125, SM
	Strength member: aramid yarn
	900 $\mu$ m tight buffer diameter

## **Specifications for Passive Items Cable & others**

### **All UTP Components should be from the same OEM.**

The OEM should be ISO 9001:2000 & QS: 9000 Certified. In the changing needs of the global resources if the company has environmental management systems in place like ISO 14001 accreditation the same shall be added advantage.

All UTP components should have UL number.

CAT 6 UTP components should have independent lab verification like ETL certificates.

The cabling should be certified to have application support warranty for next 20 years.

**The complete cabling system offered shall be upgradeable to the intelligent system if required in future by retrofitting of sensors. The OEM should have at least 1 site on intelligent system in India.**

## **Technical Specifications**

### **B. UTP CABLING COMPONENTS**

#### **(i) Category 6 UTP, 4 Pair**

<b>Characteristic</b>	<b>Min. Required Specification</b>
Features	Category 6 Unshielded Twisted Pair 4 pair 100Ω cable shall be compliant with ANSI/TIA/EIA-568-B.2-1 Additional Transmission Performance Specifications for 4-pair 100Ω Category 6Cabling.
	Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP Non Plenum cable jacket.
	The 4 pair Unshielded Twisted Pair cable shall be UL® Listed
	All Category 6 cables shall meet or exceed the following characteristics:
Mechanical Characteristics	Construction: 4 twisted pairs separated by internal X shaped, 4 channel, polymer spine / full separator. Half shall not be accepted.
	Conductor Solid Copper
	Conductor Diameter $0.56\pm0.005\text{mm}$ (23 AWG)
	Insulator Polyolefin
	Jacket PVC
	Outer Diameter $6.0\pm0.4\text{mm}$
	Max. Temperature $75^\circ\text{C}$

#### **(ii) FACE PLATE**

<b>Characteristic</b>	<b>Min. Required Specification</b>
Features	Single Gang square plate, 86mmx86mm
	Write on labels in transparent plastic window – supplied with plate
	Screw hole covers – to be supplied with plate
	Plug in Icons – Icon tree – to be supplied with plate
	Should be able to support variety of jacks – UTP, STP, Fiber, Coax etc.

**(iii) INFORMATION OUTLET**

<b>Characteristic</b>	<b>Min. Required Specification</b>
Features	<p>Category 6, TIA568B.2-1 – 250MHz</p> <p>All information outlets for <math>100 \Omega</math>, 22-24 AWG copper cable shall:</p> <ul style="list-style-type: none"> <li>Use insulation displacement connectors (IDC)</li> </ul> <p>Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limits.</p> <p>Be constructed of high impact, flame-retardant thermoplastic with color and icon options for better visual identification.</p> <p>With spring loaded shutter</p> <p>With Terminator cap</p> <p>IDC posts should be pointed</p> <p>568A/B configuration</p> <p>Information outlet (RJ45 jack) should be covered under ETL Verification program for compliance with TIA568B.2-1, ETL certificate to be submitted with offer</p>
<b>Mechanical : Jack Connector</b>	<p>Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent</p> <p>Operating Life: Minimum 750 insertion cycles</p> <p>Contact Material: Copper alloy</p> <p>Contact Plating: 50 <math>\mu</math>inches gold over 100 <math>\mu</math>inches nickel</p> <p>Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent</p> <p>Operating Life: Minimum 200 Re-terminations</p> <p>IDC Contact Plating: Tin Plate (tin/lead)</p>

**(iv) 24 PORT JACK PANEL**

<b>Characteristic</b>	<b>Min. Required Specification</b>
Features	<p>Be made of powder coated steel, in 24 port configurations.</p> <p>Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limit.</p> <p>Have port identification numbers on the front of the panel.</p> <p>Should have self adhesive, clear label holders (transparent plastic window type) and white designation labels with the panel, with optional color labels / icons.</p> <p>Should be upgradeable as Intelligent Patch Panel without changing the existing Patch Panel hardware and by simple retro fitting of intelligent sensors as and when required.</p> <p>Each port / jack on the panel should be individually removable on field from the panel.</p> <p>Should have integrated rear cable management shelf.</p> <p>Should be covered by ETL verification program for compliance with TIA 568B.2-1.</p> <p>Shutter on the jack panel port is mandatory</p>
<b>Mechanical Characteristics</b>	Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent

<b>Jack Connector</b>	Operating Life: Minimum 750 insertion cycles
	Contact Material: Copper Alloy
	Contact Plating: 50 $\mu$ " Gold/100 $\mu$ " Nickel
	Contact Force: 100g minimum
	Plug Retention Force: 15 lb.
<b>IDC Connector</b>	Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
	Operating Life: Minimum 200 re-terminations
	Contact Material: Copper Alloy
	IDC Contact Plating: Tin/Lead Plate
	Contact Force: 100g minimum
	Wire Accommodation: 22-24 AWG solid

**(v) MOUNTING CORDS**

<b>Characteristic</b>	<b>Min. Required Specification</b>
Features	Category 6 Equipment cords
	The work area equipment cords shall, at a minimum comply with proposed ANSI/TIA/EIA-568-B.2-1 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair 100 $\Omega$ Category 6 Cabling.
	Category 6 modular equipment cords: Shall be round, and consist of eight insulated 24 AWG, stranded copper conductors, arranged in four color-coded twisted-pairs within a flame-retardant jacket.
	Equipped with modular 8-position modular plugs on both ends, wired straight through with standards compliant wiring.
	Should have 50 micro inches of gold plating over nickel contacts.
	Modular cords should include a molded strain relief boot.
	Should be covered by ETL verification program for compliance with TIA 568B.2-1. Certificate to be submitted with bid.
<b>Mechanical – Cable</b>	Conductor size: 24 AWG stranded bare copper
	Max O.D.: 5.6mm (.22")
	Jacket: PVC
	Temperature range: -20oC to +60oC
<b>Mechanical Characteristics – Plug</b>	Operating life: Minimum 750 insertion cycles
	Contact material: Copper alloy
	Contact plating: 50 $\mu$ " Gold/100 $\mu$ " Nickel
	Plug dimensions & tolerances compliant with FCC Part 68 and IEC 60603-7
	Approvals: UL, CSA
<b>Electrical Characteristics – Plug</b>	Max voltage: 150 VAC (max)
	Max current: 1.5A @ 25°C
	Operating temperature: -40°C to 85°C