



Institute of Physics

(An autonomous Research Institute of Dept. of Atomic Energy, Govt. of India)

P.O: Sainik School, Bhubaneswar, Orissa- 751 005, India

GLOBAL TENDER NOTICE NO.: 05/2010-2011

Last date of receipt of the sealed quotations: Upto 3 P.M. of 31.01.2011

Sealed quotations are invited from leading manufacturers and / or their accredited associates for supply, installation, testing & commissioning of

- 1. File Server: One set**
- 2. External Storage Device: One set**
- 3. Backup Tape Drive: One set**
- 4. Server Rack: One set**

Detailed technical specifications and other terms & conditions for supply of the above items/ equipments can be obtained by downloading the same from the Institute's official website: www.iopb.res.in . All quotations should be submitted in sealed envelopes in two parts separately, i.e. "Technical bid" (Part- A) & "Financial bid" (Part-B). Both the parts should be further sealed in an envelope super scribing the name of the Item. The price Bid of the only technically qualified bidders will be opened at a later date with prior intimation to the respective bidders.

The Institute reserves the right to accept or reject any or all quotations either in full or in part without assigning any reasons thereof.

DIRECTOR

GENERAL TERMS AND CONDITIONS

(1) Quotation should be sent in two bid format

- (a) Technical bid
- (b) Price bid

Technical bid and Price bid should be submitted in separately sealed envelopes with “Technical bid for Server for Computer Centre” and “Price bid for Server for Computer Centre”, Tender No and due date clearly mentioned on it. The bids should be delivered at the drop box kept in front of the office of the Director on or before the due date.

(2) The technical bid should contain the following documents :

- (a) Compliance to technical specifications in the prescribed format.
- (b) Compliance to Technical Support Information in the prescribed format.
- (c) Copy of PAN Card, TIN / VAT clearance certificates.
- (d) Certificate of authorization from OEM for sale and service of products quoted.
- (e) Technical brochures of products quoted.

(3) The “Price bid” should mention :

- (a) The basic price of machine / equipment, delivery and installation charges if any, all taxes and the total price inclusive of all.
- (b) The rate of AMC after the expiry of warranty. (It is at the discretion of Institute of Physics to award AMC to any firm after the expiry of warranty)

(4) Delivery destination :

The Director, Institute of Physics, P.O. - Sainik School, Bhubaneswar-751005.

(5) Delivery time : Should not exceed six weeks from the date of issue of purchase order.

(6) Payment : 90% payment will be made after successful installation and commissioning of all items at Institute of Physics. Balance 10% of payment will be made on submission of Performance Bank Guarantee issued by a nationalized bank in favour of “Director, Institute of Physics, Bhubaneswar”, covering the entire period of warranty from the date of commissioning of the server and accessories.

Compliance to above terms should be mentioned on the letter head of the firm and be enclosed with the “Technical Bid”.

**FORMAT FOR TECHNICAL BID
FOR PURCHASE OF FILE SERVER
WITH EXTERNAL STORAGE AND
BACKUP DRIVE**

- A. FILE SERVER**
- B. EXTERNAL STORAGE**
- C. BACK-UP TAPE DRIVE**
- D. SERVER RACK**
- E. TECHNICAL SUPPORT INFORMATION**

Name and Address of the Firm : (To be printed on the letter-head of th e firm)

Letter No

Page No

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A. File Server

Required Quantity : One Set

	Description	Compliance(Yes/No)	Deviations
1	Make (to be mentioned by firm) :		
2	Model (to be mentioned by firm) :		
3	Processor : Intel Xenon Quad Core E5506, 2.13 GHz		
4	Cache : 4 MB L3 cache		
5	Chipset: 5500		
6	Memory : 16 GB DDR3 1066 MHz Registered ECC with support up to 32 GB		
7	Hard Disk: Hot Swap 2 X 300 GB (3.5") 15K RPM SAS Harddisk		
8	Harddisk Cage : Minimum 4 Bay SAS Harddisk Cage		
9	Integrated Ports: 4 PCI, 6 USB, 1 VGA, 1 Serial, 2 RJ45		
10	Optical Drive : DVD ROM		
11	SMPS : Hot swap redundant power supply		
12	Chasis : 2 U Rack Mountable		
13	Monitor : 18.5" TFT Monitor		
14	Keyboard		
15	Mouse (Optical)		
16	Compatibility with OS : Redhat Linux, Window Server 2008		
17	Warranty : Three years comprehensive onsite		
18	Additional features offered which are not listed above		
19	Technical brochures for file server to be enclosed		
20	Certificate for sales and service from OEM to be enclosed		

Authorized Signature

Seal of firm

Name

B. External Storage Device**Required Quantity : One Set**

	Description	Compliance(Yes/No)	Deviations
1	Make (to be mentioned by firm) :		
2	Model (to be mentioned by firm) :		
3	Rack Mount : The Proposed SAN Array should be rack mountable. Mention height and width		
4	Controller : Dual Controllers for redundancy and NSPOF		
5	Front & Back End FC Connectivity : Minimum 8 x 4 Gbps FC front end and host/switch ports and a minimum of 2 x 3 Gbps back end disk ports spread across Dual Controllers		
6	Cache : At least 2 GB cache across dual controllers with dual cache mirror interconnect paths. In case of power failure, the SAN array must be provided with cache protection mechanism to ensure no loss of data in cache through Cache De-Stage. The data should be available for at least 15 days. The cache mirroring should not utilize the back end disk ports to mirror cache across Dual Controllers		
7	Disk Support : The SAN Array should be able to support minimum of 60 disks / 120 TB in the array supplied from Day one. Maximum expansion, which would be a part of Technical Evaluation, should be specified		
8	Disk Space – The SAN Array should be configured with minimum : (a) 8 TB usable net of RAID 5 using 300 GB or more FC Drive (b) Above mentioned Usable Capacity requirements are exclusive of all necessary required Global hot spares. Hence each spindle capacity type required above should have independent pool of minimum required global hot spares		
9	RAID Groups : The SAN Array should support RAID Levels : 0, 1, 1/0, 3, 5, 6. If any of the RAID groups are not supported by the bidder / OEM, then propose equivalent features with supporting white paper validation documents from third party agencies		
10	OS Support : Windows 2000/2003, HP-UX, IBM AIX, Linux, Solaris		
11	Redundancy : Provision for redundancy of Disk Drives, Controllers, Fans and Power Supplies		
12	SAN Management Software – The SAN management software array based and provide GUI / Web based management with complete reporting features like LUN usage, empty space etc. Alternatively, the SAN management console should be offered in high availability mode so as to ensure that failure of the console does not impact the ability to manage the SAN storage array		

	Description	Compliance(Yes/No)	Deviations
13	Remote Diagnostics : The SAN array should support web based, E-mail facility for remote service and also support dial-in / dial-out to report errors and warnings		
14	Connectivity : The proposed San array should be able to connect to minimum 20-30 Servers on ISCSI/FC protocol		
15	Additional features offered which are not listed above		
16	(a) Part number of hardware with quantity should be mentioned.		
	(b) Technical brochure should be enclosed		
17	Warranty : Three years comprehensive onsite		
18	ISO Certificate and Support : (a) Product should be manufactured under ISO 9001 & 14001 units (b) Certificate from OEM's should be enclosed for sale / support		

Authorized Signature

Seal of firm

Name

C. Backup Tape Drive**Required Quantity : One Set**

Description		Compliance(Yes/No)	Deviations
1	Make : (to be mentioned by firm)		
2	Model : (to be mentioned by firm)		
3	Specification : 1. Recording Technology : LTO-4 Ultrium or higher 2. Capacity : 800 GB Native, Up to 1.6 TB with 2:1 compression 3. Transfer rate : Up to 120 MB/s native 4. Host interface : SAS 5. Form factor : Half height rack mountable		
4	Storage Media : a) LTO Ultrium Data Cartridge, Capacity 800 GB (native), and 1.6 TB with 2:1 compression Quantity : 20 Make and Part No of cartridge for LTO Tape Drive quoted : (to be mentioned by firm)		
	b) LTO cleaning Cartridge, Quantity : One Make and Part No of LTO cleaning cartridge : (to be mentioned by firm)		
5	Warranty : (i) Three years comprehensive onsite on tape drive (ii) One year on media		
6	Letter from OEM for sale / service of tape drive and media		

D. Server Rack**Required Quantity : One Set**

Description		Compliance(Yes/No)	Deviations
1	Make :		
2	Model :		
3	Specification : Height : 42", Width: 19", Depth : 1000mm Cooling fans : 4 Power Strips : Two, with three number of 5/15 Amp sockets in each strip Cable Manager Front end and Rear end Class Doors Tray for keeping Monitor and Keyboard Castor wheels		
4	Warranty on product : One year on manufacturing defect		

Authorized Signature

Seal of firm

Name

Name and Address of the Firm : (To be printed on the letter-head of the firm)

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E. Technical Support Information

	Description	Compliance
1	Technical support and hardware maintenance for all products quoted will be provided from the local office at Bhubaneswar during the period of warranty. (Yes / No)	
2	Address of office in Bhubaneswar for technical support and hardware maintenance during warranty period and for AMC after warranty period.	
3	Technical persons to be contacted with name, telephone number, email at local office.	
4	Address of Zonal office for technical support with name and address: Name, email, telephone number of person to be contacted.	
5	After expiry of warranty period, technical support and hardware maintenance will be provided, if required by Institute of Physics, for a further period of at least 4 years	

Authorized Signature

Seal of the firm

Name :

**FORMAT FOR PRICE BID
FOR PURCHASE OF FILE SERVER
WITH EXTERNAL STORAGE AND
BACKUP DRIVE**

- A. FILE SERVER,**
- B. EXTERNAL STORAGE,**
- C. BACK-UP TAPE DRIVE**
- D. SERVER RACK**

Name and Address of the Firm : (To be printed on the letter-head of the firm)

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A. File Server (One Set)	
1	Make
2	Model
3	Basic Price
4	All Taxes, Delivery and installation charges, if applicable
5	Total Price (3+4)
6	Annual Maintenance charges after expiry of warranty

B. External Storage Device(One Set)	
1	Make
2	Model
3	Basic Price
4	All Taxes, Delivery and installation charges, if applicable
5	Total Price (3+4)
6	Annual Maintenance charges after expiry of warranty

C. Backup Tape Drive (One Set)	
1	Make
2	Model
3	Basic Price (a) Tape Drive (One) (b) Tape Data Cartridge (Twenty) (c) Tape Drive Cleaning (One)
4	All Taxes, Delivery and installation charges, if applicable
5	Total Price (3+4)
6	Annual Maintenance charges after expiry of warranty

Authorized Signature

Seal of the firm

Name :

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D. Server Rack (One Set)	
1	Make
2	Model
3	Basic Price
4	All Taxes, Delivery and installation charges, if applicable
5	Total Price (3+4)

Total Cost :

Total Cost of all items A + B + C + D inclusive of all taxes and delivery charge :

Authorized Signature

Seal of the firm

Name :