

Offline Computing Facility

Mangesh / Vvs 21 Apr

XI Plan

Machines upgrade

- Rack servers installed – 8
- Desktops installed / upgraded – 38
- Laptops installed / upgraded -- 5
- NAS 24 TB installed (/nasdata, /scratch & /temp1)
- 10 Dell Rack servers installed in a separate rack for J.Roy testing (data acqn servers) in CML
- Main Internet link – negotiated and got 45% discount for same link speed, 8 Mbps

2

Completed (NCRA)

Machines upgrade

- Rack servers installed –
- Desktops installed / upgraded –
- Laptops installed / upgraded --
- LTO4 tape drives installed
- NAS 72 TB installed – data copy started

Completed (GMRT)

NCRA Campus Wide Network

- Tender document (85 pages) prepared
- Tender published on 01 Mar 2011
- Pre-bid meeting with bidders held – addendum to tender doc
- Last date for submission 15 Apr 2011
- Tech evaluation committee formed

4

In progress (NCRA)

- HPC – preparation
- Using NKN link – for GMRT data transfer
- LDAP SASL (secure connection) - testing
- Tightening network security (MAC based authentication)

- LDAP Setup
- Tightening network security (MAC based authentication)

- HPC – tender preparation & data center preparation (to accommodate HPC, NAS, Links, etc)
- NCRA – IUCAA Link

NAS upgrade (current 24 TB) with additional 48 TB

NAS 72 TB (PO placed) – mirror of GMRT NAS

Compute Servers (surya & chandra upgrade) – PO placed

4 Socket with Intel 8 Core CPU – 256 GB RAM – 3 TB disk

4 Socket with AMD 12 Core CPU – 256 GB RAM – 3 TB disk

GPU based server

Enhancement of Internet Bandwidth – negotiation without
any additional cost

routine maintenance

8

Planned Activity (NCRA)

Astro machines upgrade

Backup link (2 Mbps) for main fiber link ---
(GMRT, Khodad to NCRA, Pune)

Any other.....

routine maintenance

NCRA (in Lakhs) Requested 108 & Spent 63

Laptop	4.10	Rack Servers(NAPS)	3.18
NCRA NAS (24 TB)	9.13	Rack Servers	3.30
L3 Switch	5.30		
Desktops	9.60		
Printers	0.88		
Tapes	4.72		
Disks	4.18		
	Total	63.16	10

Plan 2010-11 (Spent)

GMRT (in Lakhs) Requested 45 & Spent

Laptop

Rack Servers

NCRA NAS (72 TB) 17.77

Spare Switch

Desktops 9.60

Printers

Tapes

Disks

Total

11

Plan 2010-11 (Spent)

NCRA (in Lakhs) Total 153 + HPC 300

Network Revamp (tender published)	100	
HPC (in Data Center)		300
Compute Servers (PO placed)	25	
NCRA NAS upgrade (PO placed)	10	
Workstations		
(16 GB RAM, dual CPU, 4 TB Disk)	10	
Laptop	3	
Spares	5	
	12	

Plan 2011-12 (Estimate)

GMRT (in Lakhs) Total 18

Workstation (16 GB RAM, Dual CPU)	10
Laptop	3
Spares	5

If network and compute services are up and running smoothly, pls think about us (who are working behind)

Thank You

Jayaram Chengalur
Ajit Kumar
VVS Mangesh
Shekhar Sumit S.Gole