Government of NCT of Delhi
INFORMATION TECHNOLOGY DEPARTMENT
9th Level, B-Wing, Delhi Secretariat, IP Estate, New Delhi-110002
http://it.delhi.gov.in

F.NoE-11/2/2015-DS(CCU)-Part(1) /3566-76   Dated 28.07.2020

Subject - Minutes of the meeting of Technical Evaluation Committee (TEC) held on 13.07.2020 at 10:30 AM, under the Chairmanship of Secretary (IT), in his chamber at 9th Level, 'B' Wing, Delhi Secretariat, Delhi, to examine the IT proposals of various Departments of Govt. of NCT of Delhi.

I. The meeting was conducted through video conferencing / teleconferencing due to COVID-19 Epidemic.

II. List of Members/participants who participated in the meeting is annexed as **Annexure-I.**

III. During the meeting, proposal of Department of Law, Justice & Legislative Affairs was placed before the TEC. The proposal in brief and decisions taken/advice of the Technical Evaluation Committee are detailed below: -

1. Law Justice and Legislative Affairs
File No. : 27/20/2016-Judicial, CD No.: 064406819

The proposal of Law, Justice and Legislative Affair Department regarding procurement of 06 Nos.-20 TB NAS, as recommended by Pr. Secretary (Law), was placed before the TEC

TEC was apprised of the following: -

1. The proposal for 06 numbers of NAS devices with 10 TB capacity and related specifications was recommended by TEC in its meeting held on 21.12.2017.

2. The matter was resubmitted by Law Department /District Courts on 29.06.2020 with modification. As per the configuration proposed by District Courts, the following difference is observed: -

S.No	Parameter	Configuration suggested by TEC	Configuration proposed by District Courts/Law Department
1	Processor	Intel Quad Core Processor 64bit or equivalent	Minimum 2 Processors of Intel 6 Core Processor 64 Bit with minimum 2.2. GHz speed.

2	RAM	16GB expandable upto 32 GB	64 GB
3	Hard Drives	up to 10-12 SATA/SAS/SSD drive support – 10 TB RAW Space	20 TB RAW space
4	Data Efficiency	Thin provisioning, Compression, SSD caching	Thin provisioning, Compression, SSD caching
5	Supported Operating Systems	Microsoft Windows, Mac OS X and Linux of reputed Distributions	Ubuntu 16.04 and 14.04
6	Raid Support0	0, 1, 5, 6, 10, 50, 60	0, 1, 5, 6, 10, 50, 60

3. Department has stated that the volume of Data generated is approximately 4,283 GB.

4. Department in reply to the clarifications sought through email mentioned the following: -

S.No	Clarification	Reply of the Department
1	No justification was provided for the proposed NAS specification like why 64 GB is only needed and requirement of Min. 2 Processors of 6 core each.	The specification of NAS mentions 32 GB per controller for two computers, it is clarified that there is no specific requirement of 32GB for each controller, it is the minimum that is required, it may now be made as "minimum 32 GB and above". So far as requirement of two processors of 6 cores each concerned, it is clarified that once the digitization project is in place, there will be flood of data and requests in the system anything less that may or may not be able to handle those requests, and usually the processor could not be upgraded in the system, going for any lower configuration may appear working now, but it is very much possible that it creates problem in the long run, it is requested to retain the configuration but to

		make it more generic, it may now be made as "2 Processors (minimum 6 core each or above)"
2	Please also confirm that the proposed specifications are in general in nature and not manufactured by a particular OEM only	It is clarified that the system is very much generic in nature and is not manufactured by a particular OEM only.
3	No comparison is provided for Column No. 6-10 and Column no. 3 in your comparison. please provide the same.	Regarding Column No. 3 Higher capacity drives consume less space and leave scope of expansion without the need of adding additional boxes. Regarding Column No. 4,5,6 and 7 This is about drive support and requirement of ports, the drive support and ports mentioned has been defined as per current need and future requirement as well Regarding Column No. 8 Already mentioned in above para no. 1
4	The volume of the data is showing 4283 GB (approximately). Please provide the period in years for which this amount of data is generated and What is the annual increment in volume (in GB).	Requirement has been assessed considering approval of digitization project and e-filing of project. The project e-filing has already been started and if the digitation project starts, it will consume a good amount of space but it is not possible to estimate the volume of data until digitization project starts. The specification will change and become modern if the process of procurement of storage gets delayed and technology advances.

5. A meeting was held in IT Department on 10.7.2020 with Officers/Officials of Law Department and District Courts to discuss the clarifications sent by them. District Court re-clarified the matter through email dated 12.7.2020 as under: -

S.No	Clarification sought	Reply of the District Court
1	No justification was provided for the proposed NAS specification like why 64 GB is only needed and requirement of Min. 2 Processors of 6 core each.	To support the estimated number of concurrent users and applications, the requirement has been re-assessed and its proposed that the NAS should have two controllers supporting at least 16 GB and accordingly there is no minimum number of processors or cores.
2	Please also confirm that the proposed specifications are in general in nature and not manufactured by a particular OEM only	Department will ensure that the specifications suggested or procured will not be manufactured by a particular OEM and further care will also be taken that the specifications will match the products manufactured by leading OEMs.
3	No comparison is provided for Column No. 6-10 and Column no. 3 in your comparison. please provide the same.	The conditions are generic in nature and agree to the approved specifications:
4	The volume of the data is showing 4283 GB (approximately). Please provide the period in years for which this amount of data is generated and What is the annual increment in volume (in GB).	There are approximately 5 TB data generated by scanning of approximately 1.5 Crore pages. The current backlog for scanning of data in Delhi District Courts is multifold, and during the ideal conditions where a vendor scans the pages and audio and videos are stored in NAS, and also stores the data generated with the applications to be deployed. With 10 TB of approved data there is less scope for

		expansion. Hence it is requested that at least 20 TB Raw Space would be required with scope for expansion upto 200 TB of NAS..
12		

6. The proposal was re-examined in the light of clarifications given by the District Courts and the following specifications were recommended by TEC based on the revised proposal & configuration: -
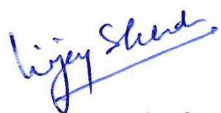
	Specifications of the Proposed NAS	Table –'A'
S.No	Configuration/Specification	
1	Processor	Minimum 2 Processors with 4 Core or Higher 64-Bit Processor or Equivalent.
2	RAM	16 GB or higher expandable upto 64 GB
3	Host Channels per Controller	10GbE x 2 + 1GbE x 2
4	Hard Drives	20 TB RAW Space with the scope for expansion upto 200 TB.
5	Data Efficiency	Thin provisioning, Compression, SD caching
6	Networking	IPv6, DHCP or static IP address assignment, NTP client, jumbo frame, trunking & LACP & teaming support, VLAN tagging, WINS client, static route table, loopback
7	Data Services	SMB v2 for Windows, NFS v3/v4 for Linux & UNIX, AFP v3.3 for Mac OS X, FTP & SFTP, iSCSI target, WebDAV
8	Data Protection	File-level snapshot, block-level snapshot, rsync, remote replication, local clone.
9	Security Access	auditing log, HTTPS, FTP with SSL/TLS (explicit), SFTP & SSH (Admin), IP filtering
10	Management	Web browser user interface, SNMP trap, messenger & Syslog, Performance states, System monitoring & Device health status, S.M.A.R.T., Start-up wizard, Wake-on-LAN
11	Supported Operating Systems	Microsoft Windows, Mac OS X and Linux of reputed Distributions
12	Raid Support0	0, 1, 5, 6, 10, 50, 60

13	Power	Redundant Power Supply

While technically recommending the proposal of Law Department regarding procurement of 06 Nos. of 20TB NAS with specifications mentioned at Table-'A', the TEC advise that Department must ensure the specifications sought meet their requirement, before procurement of the NAS. Department was also advised to procure the hardware as per the GFRs and ensure that they are not biased to any particular OEM while going for higher specifications.

IV. The approvals by this Committee (TEC) are subject to the condition that the Department shall complete all codal formalities as per Rules and Regulations including financial instructions / guidelines for calling of tenders (as per GFRs etc) in this regard.

V. The above approval is also subject to the condition that the Department shall have to take approval of the Finance Department and Competent Authority, wherever necessary.

The meeting ended with vote of thanks to the Chair.

(Vijay Shendre)
Sr. System Analyst,
Department of IT

(Manoj Kumar)
Dy. Secretary
Finance Department

(Santulan Chaubey)
Joint Director,
Department of IT

(Manju Sahoo)
Joint Director
Planning Department

(Ajay Chagti)
Spl. Secretary(IT)
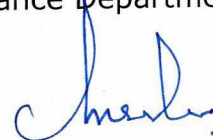
(Dr. MPS Bhatia)
Professor,
NSIT, Delhi

(Rajiv Chauhan)
Sr.TD
NIC, Delhi

(Sandeep Kumar)
Secretary(IT)

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Copy to:

1. Director (Planning), Department of Planning, GNCTD.
2. Sh. Ajay Chagti, Special Secretary (IT), GNCTD.
3. SIO, NIC Delhi State Unit, 3rd Level, Delhi Sectt.
4. Dr. MPS Bhatia, Professor, Netaji Subhash Institute of Technology, Sector-3, Dwarka, New Delhi – 110078.
5. Sh. Santulan Chaubey, JD., IT Deptt., GNCTD.
6. Sh. Manoj Kumar, Professor, Ambedkar Institute of Advance Communication Technology and Research, Geeta Colony, Delhi – 110031.
7. Ms. Manju Sahoo, JD(Planning), Planning Department, GNCTD
8. Shri V.Sreenivas, Sr. AO, Finance Department, GNCTD
9. System Analyst, IT, for uploading the Minutes of the Meeting on the website of DIT, GNCTD.
10. P.S. to Secretary (I.T.) I.T. Department, GNCTD
11. All Departments in their respective files.

(Santulan Chaubey)
Joint Director-IT