

DFCCIL RESPONSE TO QUERIES PART II TO IFB NO : HQ/IT/SI/2011

#	Document	Page	Relevant section & clause	Query	Remark	Response
1	Attachments	14	1. Business Applications Availability 88.9 % of the time the Business Applications were available 2. Enterprise Application Availability 98% of the time Enterprise Applications were available		Need to re-visit the availability clause Database is required in highly available clustered environment , while business applications are not required.	No change required to existing Bid Document
2	Attachments	16	Bidding Document, Section 2.2.2.2. Telecommunication Services	Load balancer : Are these server load balancer or Link Load balancer.		Please see corrigendum 1, SI. No. 16
3	Attachments	17	Pg 17 Users of the envisaged system can be categorized as below:	External personnel:Contractors, consultants or any external bodies such as Railway Board, World Bank etc.; which form part of the DFCCIL ecosystem. Limited access, to mitigate data leaks and virus propagation as well. Credentials must be granted on an individual case basis via portal only.	To ensure the regulated access we recommend the use of tools like Dual factor authentication.	No change required to existing Bid Document
4	Attachments	17	Pg 17 Users of the envisaged system can be categorized as below:	External personnel:Contractors, consultants or any external bodies such as Railway Board, World Bank etc.; which form part of the DFCCIL ecosystem. Limited access, to mitigate data leaks and virus propagation as well. Credentials must be granted on an individual case basis via portal only.	It is implied that the intent is to prevent the data leakages, though no functional or technical requirements have been laid down. Nor is their a process to classify the information/data as confidential. We recommend to mandate the requirement of an enterprise class Data loss/Leakage prevention solution.	No change required to existing Bid Document
5	Attachments	17	Enterprise Database Server		We understand that DFCCIL needs database that should be able to interface directly with High availability clustering software and should be interoperable with UNIX, LINUX & Windows. Pls confirm.	No change required to existing Bid Document
6	Attachments	22	Bid Attachment - (Page 22/ Clause Attachment 8: Minimum Envisaged Hardware Components)	Reg, Blade Chassis Does Bidder has to propose Entire Server hardware solution - Blade based?		Please refer corrigendum 1, SI. No. 34
7	Attachments	23	Attachment to bid Documents, (Page.23) Attachment 9 - Minimum Bill of Quantity - 4.2 - System Inventory Table, SL No. 13	On Page No. 23 it mentioned 60KVA UPS and on 31 it mentioned 30KVA. Kindly clarify your requirement- 60KVA UPS or 30KVA UPS.		Please refer corrigendum 1, SI. No 18 & 35
8	Attachments	24	Digital Signatures		What class of Digital Certificates you need and how many	Please refer corrigendum 1, SI. No. 5
9	Attachments	25	Attachments to Bid documents, Page 25, Attachment 10: Indicative Specification: Computing Hardware	This section mentions "The supplier needs to provision 1:1 redundancy in the number of Physical Servers". We assume only redundant physical servers needs to be provisioned, no clustering is expected to be done. Please confirm our assumption.		Please refer corrigendum 1, SI. No. 24
10	Attachments	25	Server Functions	Critical functions such as those mentioned in the following table shall be hosted on RISC/ EPIC architecture based server.: S. No Server Functions No. of Cores 1 Database Server 6 2 Portal Server 2 3 Application Server 6 4 LDAP/AD Server 1 5 Enterprise Content Management Servers 2 6 Testing Server 2 7 GIS Server 2 8 Backup Server 1 Total 22 Hence request you to kindly allow GIS, ECM and AD modules to be quoted on x86/Windows platform as asked in other servers category of Mail and Anti-virus etc.	GIS, ECM and AD applications are available on Windows OS platform only by almost all the major vendors.	Please refer corrigendum 1, SI. No. 23
11	Attachments	25	RISC/EPIC Specification	Request you to include x86 based platform also in this server category.	Windows OS platform is available for most of the applications modules on x86 platform only. Also x86 platform today runs many of the mission critical business services and hence qualifies well for the core applications in this project.	No change required to existing Bid Document

12	Attachments	25	Attachment 10: Indicative Specification: Computing Hardware		We understand that X-86 servers have not been considered for applications which in-turn is prohibiting Microsoft to collaborate with bidders in offering the solution. We would like to share following facts to prove X-86/Windows combination as one of the most suitable solution - (!) Microsoft is in Gartner's leadership quadrant for most of the solution components (2) X-86/Windows can scale upto 96 cores and thus meets current (upto 32 cores) as well as future scalability requirements (3) X-86/windows is one of the least cost options i.e price/tpmc as per www.tpc.org (4) X-86 based architectures was one of the options in all major GoI tenders including Ministry of Power APDRP, Dept of Post core banking for 155000 branches and ERP for >150000 employees, ESIC etc etc. (5) Microsoft products are interoperable with all industry standard operating systems and comply to proposal of Ministry of IT, Govt of India. You are requested to add X-86 architecture based server in all the server requirement specification.	Please refer corrigendum 1, SI. No. 22 & 23
13	Attachments	25	Bid Attachment - (Page 25/ Clause Attachment 10: Indicative Specification: Computing Hardware)	Server Function details from Database to Backup DFCCIL desires to deploy all 08 components from Database to Backup server on one Physical Server, and the physical server should be redundant. Kindly confirm?		Please refer corrigendum 1, SI. No. 22, 23 & 24
14	Attachments	25	Bid Attachment - (Page 25/ Clause Attachment 10: Indicative Specification: Computing Hardware)	Core Quantities for Server Function details from Database to Backup Does DFCCIL desires that Bidder should provision Core Quantities as per the Table only.		Please refer corrigendum 1, SI. No. 22
15	Attachments	25	Critical functions such as those mentioned in the following table shall be hosted on RISC/ EPIC architecture based server		We would like to state that application availability and functional requirements can be met with x86 architecture. Further the Overall ownership cost (including: Procurement cost, Maintenance cost, Support cost, manpower cost and Power) of x86 infrastructure is likely to be significantly lower than proprietary RISC systems. The SI is required to Provide suitable hardware to maintain level of uptime required.	Please refer corrigendum 1, SI. No. 22 & 23
16	Attachments	25	There shall be two types of servers: 1. RISC/ EPIC architecture based server 2. X86/ Equivalent architecture based server		There shall be two types of servers: 1. RISC/ EPIC/X86 architecture based server 2. X86/ Equivalent architecture based server The Oracle Exadata Database Machine based solution will deliver extreme performance and scalability for DFCC requirement. It runs on Intel® Xeon Processors	No change required to existing Bid Document
17	Attachments	26	Bid Attachment - (Page 26/ Clause Indicative Server Specification)	The Supplier needs to size separately for EMS, Mail and Antivirus servers etc. These servers shall be hosted on x86/ equivalent platform. The Supplier needs to decide the appropriate level of physical server redundancy. Does Bidder has to provision HA for these components. DFCCIL to confirm.		Please see corrigendum 1, SI. No. 25
18	Attachments	26	Bid Attachment - (Page 26/ Clause Indicative Server Specification)	The Supplier needs to size separately for EMS, Mail and Antivirus servers etc. These servers shall be hosted on x86/ equivalent platform. The Supplier needs to decide the appropriate level of physical server redundancy. Request DFCCIL to share the Number of users/devices for sizing the solution for EMS, Mail & Messaging, Antivirus etc.		Please refer corrigendum 1, SI. No. 17 Bidder has to arrive at sizing requirement of EMS and Antivirus based on his solution offering and as per Bid requirement

19	Attachments	26	Attachment 10: Indicative Specification: Computing Hardware	Cache/Clock speed: As per OEM Architecture Processor Cores:22 scalable to 32 Indicative Server Specification: RISC/ EPIC Architecture based Server	1. Various OEM'S servers have different computational power per core. If we are defining the cores, we are restricting the requirements to quantities and not functional requirements of the solution.We request you to kindly specify performance in terms of Third party industry benchmarks like SAPS/TPCC/Spec Int (www.spec.org, www.tpc.org, http://www.sap.com/solutions/benchmark/measuring/index.epx) that a server should achieve. We request you to amend the clause as"The server should be configured to deliver Minimum spec int rate 2006 of 500 scalable to 1000. The OEM should give a self certification for the same. The OEM should certify in its letterhead that the machine quoted by them complies with the above mentioned TPMC/SAPS/Spec Int rating. In case of estimated benchmark is not published, the OEM should also provide justification in the form of benchmarking report which should be self explanatory with correlation to public benchmark and calculation should be clearly mentioned and detailed with their bid 2. The general specs defined do not talk of clock speed, cache and performance. To bring the various class of RISC/EPIC servers to a level wherein same class of servers are quoted, we request you to kindly define these parameters. The minimum industry standard for RISC/EPIC servers is as follows: A. Clock Speed: 1.73 Ghz or higher B. Cache: Min 12 MB per chip and highest in the model offered	Bidder to choose components and propose the complete solution in line with the requirements as defined in the Bid Document. Please refer corrigendum 1, Sl. No. 22
20	Attachments	26	Attachment 10: Indicative Specification: Computing Hardware	Capable of dynamic movement of resources (CPU/ memory/adapters) across partitions	Capable of dynamic movement of resources (CPU/ memory/adapters) across partitions without reboot of source or target partitions	No change required to existing Bid Document
21	Attachments	26	Attachment 10: Indicative Specification: Computing Hardware	PCI slots	Hot pluggable PCI slots to be provided	No change required to existing Bid Document
22	Attachments	27	Attachments to Bid documents, Page 27, Storage Required Storage: 4TB Usable using FC Disks 4TB Usable using SAS Disks	Does it mean total 8 TB usable space in which 4 TB using FC and 4 TB using SAS disks. Hope this is indicative requirement and bidders are free to size as per the solution requirement.		Bidder is welcome to offer higher configuration/ better solution
23	Attachments	27	Storage	Request you to remove the NEBS compliance from this clause	NEBS compliance is for military and network equipments only and hence not relevant in this project and category of equipment.	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
24	Attachments	27	Storage		Request you to change the SAS disks to SATA. FC and SAS disks are not possible simultaneously in a storage array. Its either FC+ATA or SAS+ATA combinations that are manufactured	No change required to existing Bid Document
25	Attachments	27	Storage	Request you to specify the RAID level to be used while calculating the usable storage e.g. 4TB FC could be RAID-1+0 i.e. mirror mode while 4TB in ATA could be in RAID-5 using 4D+1P RAID-5 config	Without the RAID levels known, its NOT possible to find out the usable capacity.	Required RAID level is already defined as "RAID 5" in Attachment 10, Page 27
26	Attachments	27	SAN Switch	Request you to enhance the requirement to 8Gbps as all the OEMs today have only 8Gbps SAN switches as minimum speed		No change required to existing Bid Document
27	Attachments	27	Controller cache Total 4 GB cache with 72 Hr battery backup		Change to --> Total 8GB cache across both the storage controllers with 72 hrs battery backup 4GB cache will give the customer a entry level storage which will not be able to meet his needs.	Bidder is welcome to offer higher configuration/ better solution
28	Attachments	27	Max Drives Supported Up to 112 drives supported		Change to --> Upto 200 drives supported The number of drives requested are only available in entry level storage. Customer requirement is more for Mid range storage	Bidder is welcome to offer higher configuration/ better solution
29	Attachments	27	RAID Level required RAID 5		Change to --> Raid 5 is ok however RAID 6 and RAID 10 are industry standard and widely sued.	Bidder is welcome to offer higher configuration/ better solution

30	Attachments	27	Required Storage 4TB Usable using FC Disks 4TB Usable using SAS Disks	Change to --> 8TB using 600GB 15K RPM FC/SAS drives. FC and SAS drives have similar performance characteristics. Difference between them is only the interface. Having two different set of drives with same performance and price characteristics does not provide any benefits but increase the price, since the storage will come configured with additional Disk Shelves to hold the FC and SAS drives separately. FC drives and SAS drives are 15 K RPM speed and provide same no of IOPS. As per spec 4 TB of SAS and 4 TB of NL-SAS makes sense as both are at different speed level. FC and SAS together doesn't provide any cost saving or IOPS performance. 4 TB using SAS drives and 4 TB using NL-SAS or 8 TB at SAS drives.	No change required to existing Bid Document
31	Attachments	27	Licenses Licenses for Snapshot/ Volume Copy	Change to --> Licenses for Snapshot/ Volume Copy for the entire capacity supported by the storage proposed This will make sure that everyone quotes the same and customer does not need to buy any additional license when upgrading the capacity.	We are looking for Licenses for Snapshot/ Volume Copy for the entire capacity offered by the storage and not only the storage proposed.
32	Attachments	27	Compliance RoHS and NEBS	Change to --> RoHS NEBS compliance is requirement of Telco's. All storage vendors do not certify all their arrays for NEBS compliance. This would lead to many storage vendors not being able to participate.	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
33	Attachments	27	RAID Levels Supported 0, 1, 0+1, 5, ,6	Change to --> 0, 1, 4/5, 1+0/6 RAID 4 and RAID 5, both provide single disk failure protection, only the implementation is different. NetApp does only RAID 4 and RAID-DP (RAID 6). NetApp implementation of RAID 6 provides better availability than RAID 1+0 and even better or comparable performance to RAID 1+0. NetApp has lot of SPC and SFS benchmarks available on public websites which have done using RAID-DP.	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
34	Attachments	27	SAN Architecture End to End 4Gb/s	Industry has already adopted SAS drive which provided 6 Gbps throughput with 4 Lanes each port. 4 Gbps architecture is with 2 Lanes each FC port. Many vendors have already stopped using FC drive in the new storage they have launched. # SAS Architecture is less expensive than FC Architecture. # SAS Architecture proved similar performance like FC Architecture. Suggested --> 6 Gbps SAS architecture	Bidder is welcome to offer higher configuration/ better solution
35	Attachments	27	SAN Architecture 8 x 4Gb/s Host Ports	Already industry has moved to 8 Gbps FC ports and same throughput can be achieved with 4 ports of 8 Gbps rather than 8 ports of 4 Gbps. Also reduce the total no of cables and switch port license with cost saving of 4 switch port and cables. Suggested --> 4 * 8 Gbps ports # Less number of cable, less number of switches ports. # Better Cost optimization # Already industry has moved to 8 Gbps FC ports and same throughput can be achieved with 4 ports of 8 Gbps rather than 8 ports of 4 Gbps. Also reduce the total no of cables and switch port license with cost saving of 4 switch port and cables.	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31

36	Attachments	27	Supports 4/2/1 Gb/s Host Interface Link speed	As all the switches are comign with 8 Gbps and new switches has been asked in tender, we suggest ask for 4/8 Gbps host speed. # 4/2/1 Gb/s , has not been supported by most of the vendors. # 8/4 Gb/s Host Interface Link speed is latest and supported by all the vendors Suggested Change --> Supports 8/4 Gb/s Host Interface Link speed	Bidder is welcome to offer higher configuration/ better solution
37	Attachments	27	Switched Drive Module Type	As SAS drive has different architecture we suggested to remove this spec	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
38	Attachments	27	Solid RAS cabling	Cabling by each vendor is different and there is no need to specify the same as vendor will provide cable as used in the architecture.	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
39	Attachments	27	Single Common Array Manager	Kindly clarify the spec.	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
40	Attachments	27	Architecture -- End to End 4Gb/s	Please add -- or Better	Bidder is welcome to offer higher configuration/ better solution
41	Attachments	27	Controller cache -- Total 4 GB cache with 72 Hr battery backup	Please add -- Total Controller / Storge Cache	No change required to existing Bid Document
42	Attachments	27	Host Ports -- 8 x 4Gb/s Host Ports	Please add -- or total aggregate throughput of 32Gb/s or better with redundancy	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
43	Attachments	27	"RAS Features Dual redundant RAID controllers" Dual redundant Power Supplies Dual redundant Fans Hot Swappable Bays and Disks	Storage tier should be completely redundant. Failure of Single Power Supply, Fans, Disk or Controller should not bring down the storage system	No change required to existing Bid Document
44	Attachments	27	Required Storage 4TB Usable using FC Disks 4TB Usable using SAS Disks	Please add High Performance 15k SAS Drives	Bidder is welcome to offer higher configuration/ better solution
45	Attachments	27	OS Support Windows, Linux, AIX, HP-UX, Solaris	Please add -- Unix and Linux	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
46	Attachments	27	Licenses Licenses for Snapshot/ Volume Copy	Please add -- Flash Cache etc	No change required to existing Bid Document
47	Attachments	27	Compliance RoHS and NEBS	RoHS	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
48	Attachments	27	RAID Levels Supported 0, 1, 0+1, 5, 6	Mirror and Double Mirror	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
49	Attachments	27	Features Supports 4/2/1 Gb/s Host Interface Link speed	or alternete better Switching like Infiniband Supporting 20 and 40 Gbps	No change required to existing Bid Document
50	Attachments	27	Switched Drive Module Type	Redundant Switches - minimum 36 Ports enabled in each	No change required to existing Bid Document
51	Attachments	27	Solid RAS cabling	FC or IB cabling	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
52	Attachments	27	Single Common Array Manager	Management Software / Feature to manage the switch	Accepted. Please refer corrigendum 1, Sl. No. 26, 27, 28, 29, 30 & 31
53	Attachments	28	Attachments to Bid documents, Page 28, Tape Library Drive Type: LTO Generation 4 Full Height	LTO 5 is available and it's the latest generation available in the market. Please clarify.	Please refer corrigendum 1, Sl. No. 32
54	Attachments	28	Chassis Same enclosure should support Intel Xeon/AMD Opteron/RISC/EPIC based blades	EPIC and RISC blades are offered only by specific vendors and are proprtiarty in nature request that the bidder be allowed to chose architecture and hence avoid RISC/EPIC blades Change to --> Same enclosure should support Intel Xeon and AMD Opteron based blades, If the bidder Choses to use RISC/EPIC architecture appropriate blades should also be supported.	Please refer corrigendum 1, Sl. No. 33 & 34
55	Attachments	28	Indicative Hardware Specs --> Tape Library -->LTO Generation 4Full Height	Industry has already adopted LTO 5 and new deployments comes with LTO 5. As there is no need of full height drive. We request to specify the slot. We recommend atleast 20 slot should be available	Please refer corrigendum 1, Sl. No. 32
56	Attachments	28	Indicative Hardware Specs --> Tape Library --> Drive Throughput	As LTO 5 gives 140 MB/s, we recommend using LTO 5 and change the specs	Please refer corrigendum 1, Sl. No. 32

57	Attachments	28	Indicative Hardware Specs --> Tape Library --> Native Capacity		As the number of slots define the native capacity, we suggest to specify minimum no. of 20 slots rather than native capacity	Please refer corrigendum 1, Sl. No. 32
58	Attachments	28	Indicative Hardware Specs --> Tape Library --> Interface	4 Gbps, Native FC	AS SAN, SAN Switches are available in 8 Gbps, we recommend 8 Gbps and industry has already got 8 Gbps	Please refer corrigendum 1, Sl. No. 32
59	Attachments	28	Indicative Hardware Specs --> Tape Library --> Bar-coded 50 LTO4 Media Cartridges with one set of cleaning Cartridges (to be supplied with Library)		LTO 5 is recommended	Please refer corrigendum 1, Sl. No. 32
60	Attachments	30	The blade system should have the capability of managing all the blades in the Enclosures simultaneously capable of monitoring both physical and virtualized environments with single signon capability for all devices in the enclosure		Please clarify do you need just Web SSO or also E -SSO is required, Are there any legacy applications to be factored	DFCCIL is a greenfield project; hence, there are no legacy applications to be factored. No change required to existing Bid Document.
61	Attachments	31	Attachments to Bid documents, Page 31, Attachment 11: Indicative Specifications: UPS & Rack 5. UPS for Data centre (Min. 30KVA)	In the Minimum Bill of Quantity (Page 23) the UPS asked for is 60 KVA. Please clarify the same.		Please refer corrigendum 1, Sl. No 18 & 35
62	Attachments	31	Attachment to bid Documents, (Page. 31) Attachment 11 - Indicative Specifications: UPS & Rack (UPS for Data centre (Min. 30KVA) - SL. No. 3) The System shall be designed and integrated with the other Facility systems such that it provides fail safe operations of the systems under no-mains / no-power conditions and /or the abnormal operating conditions such as fire, theft, intrusion, etc.	UPS systems can not cover fire, theft, intrusion, etc. as scope of operation.	Request to kindly delete the same.	Please refer corrigendum 1, Sl. No 18 & 35
63	Attachments	31	Attachment 11: Indicative Specifications: UPS & Rack (UPS for Data Centre (Min.30KVA) Srl. No. 7) The UPS shall have separate battery set having battery back up to support full load of UPS for 180 minutes. The Battery set shall be Sealed Maintenance Free (SMF) either Lead Acid category or VRLA type	For 3 Hours battery backup on 60KVA UPS, it is recommended to opt for 2V,SMF (VRLA) batteries with adequate charging facility.	Request kindly provide this clarity to all prospective bidders. It is also recommended to opt for 30 Min. to 1Hr. Battery backup, in case of DG Set availability.	Please refer corrigendum 1, Sl. No 18 & 35
64	Attachments	34	Page 34/119 1. LAN Switch for CPM Offices	Certain features are missing from Security standpoint and needs to be included	Port Security to secure the access to an access or trunk port based on MAC address. It limits the number of learned MAC addresses to deny MAC address flooding.	Bidder is welcome to offer higher configuration/ better solution
65	Attachments	34	same as above	same as above	DHCP Snooping is used to prevent malicious users from spoofing a DHCP server and sending out bogus addresses. This feature is used by other primary security features to prevent a number of other attacks such as ARP poisoning.	Bidder is welcome to offer higher configuration/ better solution
66	Attachments	34	same as above	same as above	Dynamic ARP Inspection (DAI) which helps to ensure user integrity by preventing malicious users from exploiting the insecure nature of the ARP protocol.	Bidder is welcome to offer higher configuration/ better solution
67	Attachments	34	same as above	same as above	IP source guard which prevents 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	Bidder is welcome to offer higher configuration/ better solution
68	Attachments	34	same as above	same as above	MAC Address Notification allows administrators to be notified of users added to or removed from the network	Bidder is welcome to offer higher configuration/ better solution
69	Attachments	34	same as above	same as above	Port-based ACLs for Layer 2 interfaces allow security policies to be applied on individual switch ports	Bidder is welcome to offer higher configuration/ better solution
70	Attachments	34	same as above	same as above	TACACS+ and RADIUS authentication facilitates centralized control of the switch and restricts unauthorized users from altering the configuration	Bidder is welcome to offer higher configuration/ better solution
71	Attachments	34	same as above	same as above	Time based ACL should be included	Bidder is welcome to offer higher configuration/ better solution

72	Attachments	34		Support for IPv6	Should support following RFC for IPv6 RFC 2460 - IPv6 ● RFC 2461 - IPv6 Neighbor Discovery ● RFC 2462 - IPv6 Autoconfiguration ● RFC 2463 - ICMP IPv6	Bidder is welcome to offer higher configuration/ better solution
73	Attachments	34	Attachment 12, point no. 2 - Cat 6 UTP cable	EIA/TIA 568-B.2-1 standard for Category 6 is defined for 250 Mhz. Pl clarify the reason for mentioning 350 Mhz.		Please refer corrigendum 1, SI. No. 36, 37, 38 & 39
74	Attachments	34	General	Values for worst case cable skew, copper wire diameter, insulation diameter, and DC resistance should be stated as numeric figures. They can point to one specific OEM only.	Instead, range can be given for these parameters, or simply compliance to EIA TIA Cat 6 standard can be suggested. - which will automatically cover adherence for these parameters	Please refer corrigendum 1, SI. No. 36, 37, 38 & 39
75	Attachments	34	General	Verification by UL and ETL for "ANSI/TIA/ EIA-568-B-2.1" specifications is fine and enough. But 3P verification is generally followed by European manufactures and is not essential.	UL and ETL verification is enough	Please refer corrigendum 1, SI. No. 36, 37, 38 & 39
76	Attachments	34	Cat 6 UTP Jack Panel	Dust cover feature for jacks in panel is not mentioned	Adding this feature will provide protection from dust for unused ports in panel	No change required to existing Bid Document
77	Attachments	35	Page No. 35 Cat 6 Cable Specification Characteristic Impedence: 100(+/-3) Ohms 250MHz, Tested till 600 MHz		Cat 6 Cable bandwidth asked 350 Mhz and Characteristic Impedence ask tested till 600 Mhz. As per Standard it should be 250 mhz. and bandwidth ask can be 600 Mhz.	Please refer corrigendum 1, SI. No. 36, 37, 38 & 39
78	Attachments	35	Page No. 35 Cat 6 Cable Specification Conductor Annealed copper wire Diameter 0.52 mm (nominal)		Conductor Diameter vary depend on the vendor to vendor.	Please refer corrigendum 1, SI. No. 36, 37, 38 & 39
79	Attachments	37	Attachment 13: Clause :1 Page No 37 ; Internet Router	"Should have redundant CPUs and separate data/ forwarding and control/routing planes."	The type of Router asked in this segment based on the performance doesn't come with redundant CPU. More over the redundancy has been built in on the architecture as the Routers will be in HA mode. Request to please reframe the clause as " <i>Should have separate data/forwarding and control/routing planes.</i> " <i>This will allow the major OEMs to participate.</i>	Requirement for Internet Router stands deleted. Please refer corrigendum 1, SI. No. 20 & 40
80	Attachments	37	Attachment 13: Clause :1 Page No 37 ; Internet Router	"Shall support variety of interfaces like E3, Ch-E1, E1 G703, Metro Ethernet. "	Metro Ethernet is required in a Carrier/Service Provider environment to create a backbone network. This router will be used for termination the Internet Link given by ISP. In this case Metro Ethernet will not be relevant because this Router will not be part of Service Provider Network. .Request to reframe the clause as" <i>Shall support variety of interfaces like E3, Ch-E1, E1 G703.</i> " <i>This will allow the major OEMs to participate</i>	Requirement for Internet Router stands deleted. Please refer corrigendum 1, SI. No. 20 & 40
81	Attachments	37	Attachment 13: Clause :1 Page No 37 ; Internet Router	"Should support minimum 8 service slots. "	Routers having 8 Service Slots are the very High End Routers. Referring to performance asked for this type of Routers it points toward mid-range routers which doesn't have 8 Slots.Request to reframe the clause as " <i>Should support minimum 6 service slots</i> " <i>This will all the major OEM to participate and propose a better cost effective solution.</i>	Requirement for Internet Router stands deleted. Please refer corrigendum 1, SI. No. 20 & 40
82	Attachments	37	Indicative Specification : Internet Router Should have redundant CPUs and separate data / forwarding and control/routing planes	Should have redundant internal power supply.	Redundant CPU is required on routers targeted for Service Provider segment where the bandwidth requirement is more.	Requirement for Internet Router stands deleted. Please refer corrigendum 1, SI. No. 20 & 40
83	Attachments	37	Indicative Specification : Internet Router Router performance should be minimum of 400 Kpps	Router performance should be minimum of 600 Kpps	Keeping the future scalability along with other services such as ACLs, NAT etc simultaneously running , we suggest to increase the performance to 600 Kpps.	Requirement for Internet Router stands deleted. Please refer corrigendum 1, SI. No. 20 & 40
84	Attachments	37	Indicative Specification : Internet Router Ethernet Port 2 - 10/100/1000 Mbps	Ethernet Port 2 - 10/100/1000 Mbps (combo interface)	Combo interfaces means providing copper and fiber interfaces options which gives the flexibility of terminating either copper or fiber interface coming from Service Provider	Requirement for Internet Router stands deleted. Please refer corrigendum 1, SI. No. 20 & 40
85	Attachments	38	Page 38/119 Internet Router	Support for URL Filtering	This should be removed as this should be the part of the Firewall/UTM device and not the Internet Router.	Requirement for Internet Router stands deleted. Please refer corrigendum 1, SI. No. 20 & 40
86	Attachments	38		Interface/Slots	Metro Ethernet interface should be replaced with 10 Gig WAN interfaces as all service providers can provide termination on 10 Gig links.	Requirement for Internet Router stands deleted. Please refer corrigendum 1, SI. No. 20 & 40
87	Attachments	40	External Firewall	802.3af	This is a POE standard and hence not required on Firewall	Accepted. Please refer corrigendum 1, SI. No. 41, 42, 43 & 44
88	Attachments	40	2. External Firewall Page 40 - No mention of SSL VPN		Since this Firewall would be deployed at gateway. It is suggested that SSL VPN functionality to be integrated with the Firewall or an external solution to cater to at least 500 concurrent SSL VPN users accessing the application through internet on a secure connection	It is already mentioned in Attachment 4, Remote Internet users should be able to access DFCC applications through encrypted VPN Channels. Bidder is welcome to offer higher configuration/ better solution.

89	Attachments	40	2. External Firewall Page 40 - Application inspection for DNS, FTP, HTTP, ICMP, MGCP, SMTP, SIP etc.		It is suggested that the proposed Firewall should have complete Application Control functionality to be able to identify & control over multiple applications like IM/P2P Yahoo, MSN, Facebook, BitTorrent applications regardless of Port / Protocol which is very essential to manage the explosion of new Internet-based technologies bombarding the network today.	Bidder is welcome to offer higher configuration/ better solution
90	Attachments	40	2. External Firewall Page 40 - Routing: Static route, RIPv2, OSPF etc.		As per Network Diagram, there are two ISP links. So it is suggested that the Firewall should support ISP failover when links/bandwidth are coming from 2 different ISPs. This may be supported by using BGP routing protocol or by any other methodology.	No change required to existing Bid Document
91	Attachments	40	2. External Firewall Page 40 - No mention of any product certification		It is suggested that the Firewall, IPSEC VPN & SSL VPN solution should have 3rd party certification like ICASA.	No change required to existing Bid Document
92	Attachments	40	Attachment 13: Clause :2 , Page No: 40 , External Firewall	"BOTNET filter support."	BOTNET Filter is OEM Specific .Please remove this clause.	Accepted. Please refer corrigendum 1, Sl. No. 41, 42, 43 & 44
93	Attachments	40	External Firewall Interfaces: 4 Giga Ethernet in the appliance, scalable to 8 GE		Change to --> Interfaces: 4 Giga Ethernet in the appliance, scalable to 6 GE Scalability to 6 interfaces should suffice the future requirement and shall not limit other players to participate.	Accepted. Please refer corrigendum 1, Sl. No. 41, 42, 43 & 44
94	Attachments	40	External Firewall TCP/IP, PPTP RTP, L2TP IPSec, GRE, DES/3DES/AES PPPoE, EAP-TLS, RTP FTP, HTTP, HTTPS SNMP, SMTP DHCP, DNS Support for IPv4 , IPv6 Real-time, secure, embedded OS Application inspection for DNS, FTP, HTTP, ICMP, MGCP, SMTP, SIP etc.	Change to --> TCP/IP, PPTP IPSec, GRE, DES/3DES/AES PPPoE, RTP FTP, HTTP, HTTPS SNMP, SMTP DHCP, DNS Support for IPv4 , IPv6 Real-time, secure, embedded OS Application inspection for DNS, FTP, HTTP, ICMP, MGCP, SMTP, SIP / H323 etc.	 PPTP is equivalent to L2TP and has been already asked. Kindly amend the same. EAP-TLS is related to wireless and is not needed on firewall, kindly remove the clause. SIP and H323 are standards related to Voice traffic , kindly amend the clause so that it becomes level playing and all OEMs can participate.	Accepted. Please refer corrigendum 1, Sl. No. 41, 42, 43 & 44
95	Attachments	40	External Firewall BOTNET filter support		Change to --> Botnet Filter / DDoS prevention Botnet are group of infected remote host which attack the target and does an Distributed Denial of Service attack. Kindly amend the clause.	Accepted. Please refer corrigendum 1, Sl. No. 41, 42, 43 & 44
96	Attachments	41	External Firewall IEEE 802.3af , IEEE 802.3ad		Remove this clause 802.3af is standard for PoE and PoE support on firewall is not required similarly 802.3ad is related to Link Aggregation which is required in case of switches and is not needed on firewall.	Accepted. Please refer corrigendum 1, Sl. No. 41, 42, 43 & 44
97	Attachments	41	Internal Firewall BOTNET filter support		Change to Botnet Filter / DDoS prevention Botnet are group of infected remote host which attack the target and does an Distributed Denial of Service attack. Kindly amend the clause.	Please refer corrigendum 1, Sl. No. 45
98	Attachments	42	MPLS Router Data Center	IP Over ATM	ATM should be removed as this is no longer being used, there are no developments happening on this standard.	Accepted. Please refer corrigendum 1, Sl. No. 46, 47, 48 & 49
99	Attachments	42		Analog and Digital Voice module support	"The router should support Analog and digital Voice modules with CODECS types namely G.711A law, G.711U law, G.723R53, G.723R63, G.729a, G.729R8" should be removed as we are not terminating any kind of voice lines directly to this router.	Accepted. Please refer corrigendum 1, Sl. No. 46, 47, 48 & 49
100	Attachments	42	MPLS Router – Data Center Support for interfaces Channelised E1, Channelised STM-1, Channelised E3, FE and GE		Change to --> Support for interfaces Channelised E1, Channelised E3, FE and GE Channelised STM-1 limits the bandwidth to 155 Mbps and is an expensive module also if more bandwidth is required in future additional module shall have to be procured whereas more bandwidth can directly be terminated on the Gigabit Ethernet Port and gigabit ethernet is a preferred option now a days as ISP can provide Ethernet drop off almost at all locations.	Accepted. Please refer corrigendum 1, Sl. No. 46, 47, 48 & 49
101	Attachments	43	DMZ Switch	The asked port count on switch is specific to one OEM	Most of the OEM offer 24 port 10/100/1000 Base T with 4 ports of Gigabit SFP ports OR 2 ports of 10 Gig uplinks.	Accepted. Please refer corrigendum 1, Sl. No. 50
102	Attachments	43			Apart from this switches have dedicated slot for stacking which can offer a stack bandwidth of 60 Gbps or more.	Bidder is welcome to offer higher configuration/ better solution
103	Attachments	43		MAC Address	Asked MAC Addresses are too high for a DMZ Switch, about 10,000 MAC addresses are sufficient in DMZ switches.	No change required to existing Bid Document
104	Attachments	43		VLANs	Asked Vlan are too high for DMZ switch. 200 Vlan are sufficient on these switches.	No change required to existing Bid Document

105	Attachments	43	MPLS Router – Data Center 3 Gig Ethernet port		Change to --> 3 Gig Ethernet port (combo ports) Combo interfaces means providing copper and fiber interfaces options which gives the flexibility of terminating either copper or fiber interface coming from Service Provider	Accepted. Please refer corrigendum 1, Sl. No. 46, 47, 48 & 49
106	Attachments	44	CPM MPLS Router	ATM QOS	ATM should be removed as this is no longer being used, there are no developments happening on this standard.	Accepted. Please refer corrigendum 1, Sl. No. 51
107	Attachments	45	Attachment 13: Clause :7 Page No: 45, Core Switch	"The switch should support MPLS features like MCE and MPLS OAM. "	These features are required by Routers configured as PE/Provider Router in the MPLS Backbone. In the current requirement the Core Switch will not be configured as PE router. The Switch will only be used to switch traffic on the LAN. Hence the asked MPLS feature will never be used. Please remove this clause so that all the major OEMs can participate and propose better and cost effective solution.	Accepted. Please refer corrigendum 1, Sl. No. 52
108	Attachments	49	RFP Technical, Attachment 15 : Directory Services (Feature 1, Page 49 onwards)	Existing Clause : Should provide support for X.500 naming standards and should support Kerberos for logon and authentication. Query :- Standard based LDAP v3 Certified Directory Services support other widely accepted standards of Authentication like PKI apart from Kerberos.	We request that the following specification should be modified as follows :- <i>Should provide support for X.500 naming standards and should support PKI or Kerberos for logon and authentication.</i>	Accepted. Please refer corrigendum 1, Sl. No. 53, 54 & 55
109	Attachments	49	RFP Technical, Attachment 15 : Directory Services (Feature 3, Page 49 onwards)	Existing Clause : Should support directory services integrated DNS zones for ease of management and administration/ replication. Query : Integrated DNS zones is not a standard LDAP V3 feature nor a standard DNS feature and is specific to Microsoft Active Directory. Standard LDAP directory like Novell e Directory can be deployed without dependency on DNS. Even widely used DNS servers , like those powering Internet , depend on built in replication technologies without relying on Directory replication. This is very specific to the Directory and DNS implementation of a specific Vendor.	We request that it should be modified as follows :- <i>Should support directory services which can integrate with DNS zones for ease of management and administration/replication</i>	Accepted. Please refer corrigendum 1, Sl. No. 53, 54 & 55
110	Attachments	49	RFP Technical, Attachment 15 : Directory Services (Feature 6, Page 49 onwards)	Existing Clause : The directory service should provide support for Group policies and software restriction policies. Query : Group Policies and Software restriction policy support is not part of standard LDAP RFCs. This is specific to a particular Vendors implementation of Directory Services .	We request that the feature should be removed	Accepted. Please refer corrigendum 1, Sl. No. 53, 54 & 55
111	Attachments	52	Page 52, Backup software specification, point 9 The clause "Should de-duplicate the data at target, source and media server level without requiring any additional hardware" is specific to OEM. HP Software do not offer de-duplication at Source and Media server level, which is not an industry practice.		The entire processing of the file list if done at the client end, eventually consume very high cpu resource . This will result in higher configurations at the source level, which may not be necessary for DFCC operations	Accepted. Please refer corrigendum 1, Sl. No. 56
112	Attachments	52	Backup Software		Pls confirm if the dept is looking for a backup solution for existing environment also. If yes, then please let us know the number of Unix, Linux, Netware and Windows servers so that the solution can be proposed accordingly. In case Backup solution is required to meet the current tender needs then it should only be required to support the platform proposed by bidder. You are therefore requested to change the specification to " Backup solution should be compatible to the proposed solution and should meet the high availability and disaster recovery requirements mentioned in the various sections of this tender."	Backup solution is not required for existing environment.
113	Attachments	53	Attachments to Bid documents, Page 53, Security Solution for email gateway and web gateway	As secure web gateway is part of the solution, also need proxy for internet access of the users. Please clarify.		Bidder has to offer secure web gateway as part of the solution
114	Attachments	55	Bid Attachment - (Page 55/ Clause a. Network Fault Management)	DFCCIL to clearly specify the list of device to be covered by NMS at Remote/CPM offices		All infrastructure proposed by the bidder needs to be managed.
115	Attachments	55	Bid Attachment - (Page 55/ Clause a. Network Fault Management)	DFCCIL to provide the Count of Network devices?		It depends on the solution offered by Supplier. All infrastructure proposed by the bidder needs to be managed.
116	Attachments	55	General Query	Do you require EMS in HA ? Keeping EMS in HA will double the hardware requirements. We suggest to implement EMS in standalone mode and move to HA in future .		No. Please refer corrigendum 1, Sl. No. 25

117	Attachments	55	General Query	Please confirm if you are looking at setting up of EMS server at DC site only in order to monitor (network devices & server performance) across DC & DR site from central Data center only?		DR site is not proposed.
118	Attachments	55	General Query	Please confirm if NMS licenses are also required to cover monitoring scope of remote location router , switches etc connecting to central datacenter. How many network device licenses should be proposed considering scalability for future?		Yes, NMS is also required to cover monitoring scope of remote location router, switches etc connecting to central datacenter. Bidder should estimate licenses based on the current requirement of DFCCIL as defined in the Bid Document.
119	Attachments	60	General Query	Solution should not require end users to install/upload software on to their desktops. As this is not capability of Application Monitoring Tool .Clause should be rephrased as "Proposed APM solution should seamlessly monitor real end user response time without a need to install agent/probes on end user desktops "		No change required to existing Bid Document
120	Attachments	60	General Query	Do we require to capture response time of all real end user external & internal without any restrictions on transaction types or number of users accessing web application ?		Please refer Bid Document, Section VI: Technical Requirements --> 1.2 Functional Performance Requirements of the System
121	Attachments	66	Attachments to Bid documents, Page 66, Attachment 16: Mail messaging solution specifications 20. Messaging system should be able to provide archiving & message indexing capabilities on per user.	Is DFCC looking for a full-fledged mail archival solution as per government regulatory? Please clarify. What should be the retention period for archival? How many users are mail users? What should be minimum size of each mailbox (100 MB/200MB)?		DFCCIL is looking for a mail archival solution as per government regulatory. All documents shall be archived for the duration of the Construction Phase. Mail messaging solution needs to be implemented for 250 users (approx.). Please refer corrigendum 1, Sl. No. 17 Please refer Bid Document, Section VI: Technical Requirements --> 2.5.1.5 Solution Implementation for details on mailbox size requirement.
122	Attachments	66	RFP Technical, Attachment 16: Mail Messaging Solution Specifications (Feature 19 ,Page 66 onwards)	Existing Clause :- Messaging System should have in built compliance engine to enforce government compliance & regulation requirements. Query :- Specifying "built in" compliance engine would restrict DFCCIL ability to enforce Indian IT ACT specific or Organization specific restrictions on mailing based on a particular Vendor's product capabilities which might be developed more for a foreign nation . A more open and easily extensible option could be to ensure that the overall mail solution provides capability to enforce Govt as well as organization specific compliance and regulation requirements.	Kindly modify the current specs as follows:- <i>Messaging System should be capable of enforcing compliance to meet government/organizational compliance & regulation requirements.</i>	No change required to existing Bid Document
123	Attachments	66	RFP Technical, Attachment 16: Mail Messaging Solution Specifications (Feature 31 ,Page 66 onwards)	Existing Clause :- Should enable immediate preservation of a user's deleted and edited mailbox items (e-mail,appointments, tasks, etc.) from both their primary mailbox and Personal Archive. Litigation Hold can be set on individual mailboxes or across the enterprise and also includes an option that automatically alerts users that a hold has been placed on their mailbox. Query :- Litigation hold is a specific vendors way of enforcing legal compliance. Other mailing solutions might use a different approach which would ensure that mails and other items cannot be deleted unless archived/backed up into forensic ready solutions.From the users perspective they would not even realize that an investigation is going on as it would be a transparent process as when they delete an item it would just go from their mailbox view but system would retain the mails.	Kindly modify this line as follows:- <i>Should enable immediate preservation of a user's deleted and edited mailbox items (e-mail,appointments, tasks, etc.) from both their primary mailbox and Personal Archive</i>	Accepted. Please refer corrigendum 1, Sl. No. 57
124	Attachments	67	The database should be able to interface directly with High Availability Clustering Software on UNIX, Linux & Windows		The database should be able to interface directly with High Availability Clustering Software on UNIX, Linux , Solaris & Windows Solaris clause is missing out of the O/S list	Accepted. Please refer corrigendum 1, Sl. No. 58
125	Attachments	111	Technical Specs.pdf Page - 111 Technical Specs.pdf Pg- 111 Module: Feature Mapping Functionality: Preparation of TIN (Triangulated Irregular Networks) and DEM (Digital Elevation Model) from the satellite imagery and/ or departmental maps for analysis	What are the Formats of the Department maps mentioned here?		Preparation of TIN & DEM is not in the current scope of Supplier. Please refer corrigendum 1, Sl. No. 8 & 61

126	Attachments	113	Request you to include the following specification to ensure best of breed solution: Document View - Server based Inbuilt Document Image Viewer for displaying image document without native viewer - Viewer should be platform independent and support Linux based browser - Support comprehensive annotation features like highlighting, marking text, underlining putting sticky notes on documents, and support for text and image stamps etc. - Automatic stamping of annotations with user name, date and time of putting annotations - Securing annotations for selective users - Built in Support for rendering and viewing PDF/A document format with support of applying annotation		Essential Functional requirements are mentioned in Attachment 18. Bidder is free to propose better solution as per its perception of DFCCIL's requirement
127	Attachments	113	Attachment 18: Functional Requirement Specifications (FRS) - Document	RFP States: System shall support Applet for viewing documents. This specification is specific to OEM and is restrictive in nature. We request you to change this to "System shall support Image Viewer for viewing documents" Applet is a proprietary Java technology. The proposed change will allow other technology image viewers as well, which are proven technologies	Accepted. Please refer corrigendum 1, Sl. No. 62 & 63
128	Attachments	113	Attachment 18: Functional Requirement Specifications (FRS) - Document We request DFCC to include the following requirement in the specification. "Proposed Solution should be compliant to US DoD standards of records management against all mandatory & non mandatory chapters"	It will ensure DFCC to comply with global public sector standards for records management	No change required to existing Bid Document.
129	Attachments	113	Attachment 18: Functional Requirement Specifications (FRS) - Document RFP States that "The system shall support web based client for complete administration of the system". This clause is specific to Oem and restrictive in nature. We request you to kindly change the same to "The system shall support both web based & thick client for complete administration of the system"	As the complete deployment is centralised and all administrative requirement will be monitored from the central location, it will allow other proven softwares to participate. It will also provide more flexibility to the users.	No change required to existing Bid Document.
130	Attachments	113	Attachment 18: Functional Requirement Specifications (FRS) - Document We request DFCC to include the following requirement in the specification. "Proposed DMS should provide transparent records management with the proposed portal solution"	OEM integration will provide more robustness to the solution	It is the responsibility of the Bidder to choose components and propose the complete solution in line with the requirements as defined in the Bid Document.
131	Attachments	113	Document & workflow Management System	Based on our experience of automating workflows in various PSU's we recommend that the workflow solution should comply to workflow standards such as BPMN, BPEL, WFMC. Please confirm.	DFCCIL has primary requirement of a robust system for document archival and retrieval. Please refer Attachment 18: FRS for Document & Workflow Management System.
132	Attachments	113	Attachment 18: Functional requirement Specification: Document & Workflow Management	Please confirm if scanning will not be in scope and the inputs to the content repository will be upload of files. The onus of scanning and storing in input Format will not be in scope of Document Workflow management.	Scanning of physical documents is not in the current scope of Supplier. Please refer corrigendum 1, Sl. No. 17

133	Attachments	113	Attachment 18: Functional requirement Specification: Document & Workflow Management	Please confirm the source of document addition into system will be the portal.	Scanning of physical documents is not in the current scope of Supplier. Please refer corrigendum 1, SI. No. 17
134	Attachments	113	Attachment 18: Functional requirement Specification: Document & Workflow Management	Please confirm as to what will be the inputs on the file type of the drawings that will be uploaded into the system. What will be the tentative size of the drawings that will be uploaded into the system.	Please refer Attachment 18: FRS for Document & Workflow Management System.
135	Attachments	113	Attachment 18: Functional requirement Specification: Document & Workflow Management	What will be the matrix for the roles associated with using and consuming the drawings ? Please help with this information.	Will be finalized with the Supplier during Requirement Gathering Phase.
136	Attachments	113	Attachment 18: Functional requirement Specification: Document & Workflow Management	How many users are going to use the Document Workflow management system?	Please refer corrigendum 1, SI. No. 17
137	Bid Document	177		Request you to include the following specification to ensure best of breed solution: Architecture and Scalability Considerations - System should be platform independent and support both Linux and Windows - Support open, scalable, Multi-tier architecture with each tier fully independent with support for clustering - The system shall support separate Document/Image server for better management of documents and store only metadata information in database - Support distributed Document Repositories for document upload and access at local level , which can be replicated with central repository at scheduled intervals - The system should be capable of integration with workflow (Business Process Management) solution out-of the box	No change required to existing Bid Document
138	Bid Document	177		Request you to include the following specification to ensure best of breed solution: Archival of Scanned Documents - Categorization of documents in folders-subfolders just like windows interface. There should not be any limit on the number of folder and levels of sub folder - Document Version Management with Check Out / Check In - Extensive document and folder level operation such as move / copy, email, download, delete, metadata association etc - Repository should be format agnostic - Indexing of the documents on user defined parameters - Association of the key words with the documents - Support archival of PDF/A format documents (open ISO standard for long term archival of documents)	No change required to existing Bid Document
139	Bid Document	177		Request you to include the following specification to ensure best of breed solution: Search and Retrieval - Extensive search facility to retrieve documents or Folders/Files - Support saving of search queries and search results - Search for documents/Folders using user-defined indexes and document classes i.e. loan application number, customer name, address, date etc. - Full Text Search on image and electronic documents - Support for wildcard character based search - Extensive search facility to retrieve documents or Folders/Files	Essential Functional requirements are mentioned in Attachment 18. Bidder is free to propose better solution as per its perception of DFCCIL's requirement
140	Bid Document	177		Request you to include the following specification to ensure best of breed solution: Reports and Audit Trails - Support Extensive Audit-trails at user - Facility to generate Audit trails on separate actions - Log all the actions done by individual users with user name	Essential Functional requirements are mentioned in Attachment 18. Bidder is free to propose better solution as per its perception of DFCCIL's requirement

141	Bid Document	177		<p>Request you to include the following specification to ensure best of breed solution:</p> <p>Administration and Management</p> <ul style="list-style-type: none"> - System should provide web-based administration module. - Adequate administrative controls and security features with ability to set access controls at multiple levels. - It should support multiple level of access rights like read, create, modify ,delete etc on documents and folders - Roles and Privileges: Super User, Administrator Login, Group Manager and User profiles - The system shall support extensive reporting facility at document, folder and user level - It should empower to Manage Audit Trails and exporting reports. - The DMS should Support various Meta Data Types like Numeric, Float, text etc - System should have inbuilt health and monitoring tool for proactive monitoring of application and services 		Essential Functional requirements are mentioned in Attachment 18. Bidder is free to propose better solution as per its perception of DFCCIL's requirement
142	Bid Document	177		<p>Is there any requirement of capture and scanning solution for scanning backlog as well as ongoing paper documents with support for following :</p> <ul style="list-style-type: none"> - Support for Bulk Scanning - Support for Web Scanning / Distributed Scanning - Support scanning on Linux platform - Image Assisted Indexing of Scanned Documents - Direct upload of Scanned Document to Document Management System(DMS) - Automatic file and document separation using blank page separator, barcode separator and fix page <p>o Automatic Document Analysis and correction of parameters like improper resolution, format/ compression not proper, skew, wrong orientation, error in automatic cropping, punch hole marks etc during scanning</p> <ul style="list-style-type: none"> - Provide Image processing libraries that support image enhancements such as changing contrast, zoom in/out, cleaning etc and other imaging features like compression and extraction etc. - Facility to upload scanned batches from different field offices with Auto folder/Subfolder creation document filing & indexing on user defined fields. - System ability to provide Compression of scanned image files in TIF/PDF Format. <p>Please confirm that this functionality in scanning software is required</p>		Essential Functional requirements are mentioned in Attachment 18. Bidder is free to propose better solution as per its perception of DFCCIL's requirement
143	Bid Document	191	Bidding Document - (Page 191/ Clause 2.5.1.2 Specific Design Consideration - point (b))	<p>DFCCIL can provide space for 4-5 racks within its existing server room. Existing server room is equipped with raised flooring, Cooling facility and availability of power. Supplier should prepare the Hosting Site and deploy the Servers, Storage, and Peripherals etc. Existing racks may require rearrangement for making additional space</p> <p>1)Is existing Cooling facility and Power available, sufficient to accommodate new Hardware solution?</p> <p>2)Or Bidder has to make its own arrangements for the new addition.</p> <p>3) Incase of additional facility setup, then Does the Site has enough space to accommodate new equipments? 4)Also Can input power accommodate new power load?</p>		Please refer corrigendum 1, Sl. No. 6
144	Attachments	Gener	Attachments	<p>Will all the applications be hosted in the same cookie domain or different cookie domain (eg. Of same cookie domain app1.abc.com, app2.abc.com, etc.)</p>		It the responsibility of the Bidder to offer solution as per its understanding & the requirement of DFCCIL.
145	Attachments	Gener	Attachments	<p>Are you also looking for single sign on to any external/third party applications?</p>		No
146	Attachments	Gener	Attachments	<p>Do you plan to have any Central Identity Management platform for managing all the user identities across all applications?</p>		It is the responsibility of the Bidder to choose components and propose the complete solution in line with the requirements as defined in the Bid Document.
147	Attachments	Gener	LDAP & Backup Server	<p>Is LDAP and Backup server will also required 1:1 Redundancy?</p>		Please refer corrigendum 1, Sl. No. 25

148	Attachments	Gener	EMS, Mail and Antivirus	Do we need to propose 1:1 redundancy on these servers?		Please refer corrigendum 1, Sl. No. 25
149	Attachments	General		LAN (Passive) BOQ is not mentioned Please provide the details		Bidder is supposed to arrive at the BOQ based on its understanding of Bid Document and DFCCIL requirements.
150	Attachments	Gener	General Query	As part of the security mechanisms mentioned in the RFP, only firewall and antivirus have been considered. However, in order to completely secure the applications and the server infrastructure from both external and internal threats, there is a need for fool proof security mechanisms such as Identity and Access Management (IAM) and Server Access Control. It is strongly recommended to consider these aspects of security as part of the RFP and requisite specifications for these components may be added in the appropriate section of the RFP.		Bidder to choose components and propose the complete solution in line with the requirements as defined in the Bid Document.
151	Attachments	Gener	Host-based Server Access Control System		<p>The Host Access Control should be able to protect business critical infrastructure and minimizes security risks by regulating access to confidential business data and mission critical services. The solution should provide policy-based control of who can access specific systems, what they can do within them, and when they are allowed access.</p> <p>Include the specifications --></p> <p>Host based security solution must allow controlling of access to system resources including data files, devices, processes/daemons and audit files.</p> <p>The solution should support cross platform Management – Must support management and policy distribution across Windows, Linux and Unix platforms from a central management console. It must support the deployment of the same policies across multiple servers ensuring consistency of security policies across machines in the enterprise.</p> <p>The solution must provide support for IPv6 and FIPS140-2 and must provide Services and Registry Values Protection on Windows</p> <p>The solution must provide administrative password checkout function. It should provide workflow for requesting and checking out a system-generated. The solution should provide the functionality to force the user to check the password in once their task is completed, or PUPM should provide the capability to be configured to automatically check the password in after a specific time period; and it can be a manually forced check in as well.</p>	Definition and implementation of Security Policy is in the scope of the Supplier. It is the responsibility of the Bidder to choose components and propose the complete solution in line with the requirements as defined in the Bid Document.
152	Attachments	Gener	Web Access Management and Web Single Sign-On		<p>The Web Access Management solution should provide a secure access to business content, applications, and information across its organization, while allowing management of multiple user communities across the organization.</p> <p>Include Specifications --></p> <p>Must include out-of-the-box support for specified relevant third-party technologies - Authentication, PKI, and smart cards.</p> <p>Must provide access to only those applications/resources that the user/customer has authority to.</p> <p>It should have an SDK to allow custom agents to be built to cater to home grown application needs.</p> <p>Must be able to integrate with user administration product</p> <p>Web access management system should support single sign-on across security domains.</p> <p>If a user is authenticated at a low level of security (e.g., password), then they should be forced to re-authenticate when they attempt to access a more sensitive resource (e.g., one protected by a token card).</p> <p>Solution should support both session and idle timeouts on a per-resource basis.</p> <p>Solution should support directory chaining.</p>	Definition and implementation of Security Policy is in the scope of the Supplier. It is the responsibility of the Bidder to choose components and propose the complete solution in line with the requirements as defined in the Bid Document.

153	Attachments	General	Identity Management	<p>Must provide centralized administration of user-ids and password management.</p> <p>Must allow accounts on end-systems to be discovered, and linked to users within the administration utility, which can be subsequently used as the single point of administration.</p> <p>Cross Platform / Application - Must provide easy and cost-efficient administration of users and resources across enterprise security systems and directories like NT, UNIX, Microsoft Exchange and others specified.</p> <p>Must have APIs to enable additional user management operations on UNIX, NT over and above the default operating system account set-up.</p> <p>Must support enforcement of a centrally-defined security policy, e.g. for access rights, user names, password lengths</p> <p>Role-based Administration</p> <p>Role Based & Rule Based User Provisioning.</p> <p>Must provide access rights based on job function to support implementation of role-based administration.</p>	<p>Definition and implementation of Security Policy is in the scope of the Supplier. It is the responsibility of the Bidder to choose components and propose the complete solution in line with the requirements as defined in the Bid Document.</p>
154	Attachments	General	Security Log Record Collection & Management	<p>The system shall provide a graphical user interface/wizard to rules for normalizing custom log sources or modifying existing integrations</p> <p>The system shall provide automated update mechanism for Content (product integrations and reports). This process shall occur seamlessly and transparently without any customer intervention as part of the subscription update process.</p> <p>"The system shall support the following methods for log collection : <ul style="list-style-type: none"> • Windows Management Instrumentation, Syslog, Open Database Connectivity (ODBC), Text Log (flat file), Open Platform for Security (OPSEC)" </p> <p>The system shall provide a mechanism to monitor the current status and relative health of the logging infrastructure.</p> <p>The system shall have the capability to drag and drop building of custom queries & reports</p> <p>The system shall have the capability for updates delivered and applied via an update service provided by the vendor to keep the system up-to-date. This includes the agents and it should be pushed centrally without having to reinstall the agents.</p> <p>The system shall have a secure and preferably embedded log repository to store logs that does not require separate database expertise to administer and manage</p>	<p>Definition and implementation of Security Policy is in the scope of the Supplier. It is the responsibility of the Bidder to choose components and propose the complete solution in line with the requirements as defined in the Bid Document.</p>
155	Attachments	55	Page 55, Item No. 5 – Network Fault Management	<p>The proposed system must support multiple types of discovery like IP range discovery – including built-in support for IPv6 ,Import data - from pre-formatted files (IPs, ranges, strings or ports),Seed router based discovery - Using route tables and SNMP MIBs, Trap-Based Discovery – whenever new devices are added with capability to exclude specific devices based on IP addresses / IP Address range</p> <p>Should be changed as: The proposed system must support multiple types of discovery like IP range discovery – including built-in support for IPv6 ,Import data - from pre-formatted files (IPs, ranges, strings or ports) and SNMP MIBs with capability to exclude specific devices based on IP addresses / IP Address range</p> <p>Reason for change: Specific to a vendor.</p>	<p>Accepted. Please refer Corrigendum 2, Sl. No. 1</p>
156	Attachments	56	Page 56, Item No. 14 – Network Fault Management	<p>The proposed solution should provide Southbound Gateway interface, TL1 interface for integration with third party tools as well as provide XML /DTD toolkits to import topology data from external database.</p> <p>Clause should be removed.</p> <p>Reason for change :- Specific to a vendor</p>	<p>Accepted. Please refer Corrigendum 2, Sl. No. 2</p>

157	Attachments	58	Page 58, Item No. 10 – Performance Management System	<p>The solution must provide the following flow based metrics : Rate utilization, Byte count, Flow count, IP hosts with automatic DNS resolution, IP conversation pairs with automatic DNS resolution, Router/Interface with automatic DNS SNMP name resolution, protocol breakdown by host, link, TOS or conversation, Utilization by bit pattern, matching of the TCP ToS field, AS number, BGP next hop address, IPv6 address</p> <p>Clause should be removed. Reason for change :- Specific to a vendor</p>	Accepted. Please refer Corrigendum 2, Sl. No. 3
158	Attachments	58	Page 58, Item No. 11 – Performance Management System	<p>The proposed traffic analysis system must be capable of automatically detecting anomalous behavior such as virus attacks or unauthorized application behavior.</p> <p>Clause should be removed. Reason for change :- Specific to a vendor</p>	Accepted. Please refer Corrigendum 2, Sl. No. 4
159	Attachments	59	Page 59, Item No. 12 – Performance Management System	<p>The proposed traffic analysis system should provide visibility into new and unknown traffic patterns which is critical for ensuring the performance of networked applications, as well as identifying security risks. It should provide real-time analysis of traffic behavior for every client and server in infrastructure to help ensure network delivers application services reliably and securely. Network behavior analysis should help in :</p> <ul style="list-style-type: none"> • Providing early insight into virus-infected hosts and worm attacks • Identifying unauthorized or incorrectly configured server activity • Alerting on unauthorized application deployments • Identifying network mis-configurations, such as routing loops and inaccessible network sources • Reporting the sources of fragmented traffic <p>It should provide Enterprise Network Behavior Summary for:</p> <ul style="list-style-type: none"> • Fragmented Packet Sources • High Volume Sources • Packet Fan Out Sources • Syn/Rst only sources • High Flow Sources • Number of TTL Expires <p>Clause should be removed. Reason for change :- Specific to a vendor</p>	Accepted. Please refer Corrigendum 2, Sl. No. 5
160	Attachments	59	Page 59, Item No. 14 – Performance Management System	<p>The proposed solution must keep and report on unique hosts and conversations per day for each monitored interface.</p> <p>Should be changed as: The proposed solution must keep and report on unique hosts. Reason for change: Specific to a vendor.</p>	Accepted. Please refer Corrigendum 2, Sl. No. 6