



Corrigendum for

Selection of DCO/ SI for Design, Supply,
Installation, Configuration, Operations and
Maintenance of Physical and IT
Infrastructure for State Data Centre (SDC),
Arunachal Pradesh

State Council for IT & e-Governance

Department of Information Technology

Maung-phi Complex

Itanagar- 791113

DIT/S&T/102/2008-Part III, dated January 2015



Preface

With reference to the Data Centre Operator (DCO) RFP published on **20th January 2015** {**DIT/S&T/102/2008-Part III, dated January 2015**} and the queries/ clarifications/ modification requests, etc. received as well as considering the key pointers discussed during the Pre-bid meeting, held on 11th February 2015, certain changes have been incorporated and suggested in this document. This document should be treated in conjunction with the above-mentioned RFP document. The modified clauses & pointers in this Corrigendum over-rides related / similar clause & pointers in the related RFP, published earlier. *However, rest of the conditions & clauses, which have not been mentioned or modified in this Corrigendum, will be considered to stand valid or unchanged as in the published RFP.*

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1	I	14	II	1	The MoU/agreement shall clearly specify the prime bidder, stake of each member and outline the roles and responsibilities of each member.	PQ	Central PSUs may be exempted from stake requirement while forming consortium and be allowed to submit consortium agreement		PSUs may be exempted from stake requirement while forming consortium and be allowed to submit consortium agreement.
2	I	15	II	8	The bidder (prime) should have positive net worth of at least 100 crores for the last year and an average turnover of more than Rs. 75 crores as on year ending on 31.03.2014 for last Three (3) financial Years. The prime bidder should have positive PAT (Profit after Tax) for last 3 (three) years as of March 2014	PQ	Central PSUs may be exempted from net worth and profitability criteria		PSUs may be exempted from net worth and profitability criteria.
3	I	16	II	10 b	At least five resources should be ITIL certified and five resources should be CDCP/ BS7799/ ISO 27001 lead Auditor or Lead Implementer certified. And at least 2	PQ	The criteria for certified manpower may be allowed to be met by any one of the consortium member		Suggestion accepted Prime bidder/consortium partner need to

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					(two) Project Management Professional (PMP) certified professionals				meet the criteria
4	I	17	II	15	At least THREE client references of Prime bidder/ consortium member for implementation of an integrated turnkey project around;	PQ	The project executed in last 10 years may also be considered		RFP stands
5	I	17	II	15	At least THREE client references of Prime bidder/ consortium member for implementation of an integrated turnkey project around	PQ	The project under implementation may also be considered for meeting the requirement		RFP stands
6	I	17	II	15	At least THREE client references of Prime bidder / consortium member for implementation of an integrated turnkey project around;	PQ	This clause may be modified as "At least THREE client references of Prime bidder / consortium member for implementation of an integrated project around;		RFP stands
7	I	18	II	16	Prime bidder should have successfully delivered, installed, maintained hardware products &	PQ	The project executed in last 10 years may also be considered		RFP stands

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					provided warranty support up to 5 years into a single project which value not less than Rs. 5 crores. Project completion date should be in the last five years				
8	I	18	II	16	Prime bidder should have successfully delivered, installed, maintained hardware products & provided warranty support up to 5 years into a single project which value not less than Rs. 5 crores. Project completion date should be in the last five years	PQ	The project under implementation may also be considered for meeting the requirement		RFP stands
9	I	213	8	8.12	Manpower Details	PQ	We understand that the criteria for certified manpower may be met by any one of the consortium member		This criterion may be met by any of the Prime/ Consortium member. But the Prime bidder will be responsible & answerable for the entire manpower deployment & execution

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									management.
10	I	112	6	6.18.1	Technical Evaluation Criteria	Technical	The eligibility and resource requirement of technical evaluation criteria may be allowed to be met as a consortium		This criterion may be met by any of the Prime/ Consortium member. But the Prime bidder will be responsible & answerable for the entire manpower deployment & execution management.
11	I	64	4	4.7	Resource Requirement: Manpower Resources	Technical	We understand that the criteria for certified manpower may be met by any one of the consortium member		This criterion may be met by any of the Prime/ Consortium member. But the Prime bidder will be responsible & answerable for the entire manpower deployment & execution management.

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12	I	15	II	7	The bidder (Prime/ Consortium partner) should have a CMMI level 5 Certificate	PQ	The clause may be modified as" The bidder should have any two of the following certifications: 1. ISO 9001:2008 2. ISO 27001 3.CMM Level 5		RFP stands
13	II	45	(1.2.3.1) 1	Data Centre Switch	13. The solution should support 40 Gig and 100 Gig interfaces.	Technical	Change the clause as: "The solution should support 40 Gig interfaces." 100 Gig interfaces are not required as per the network architecture. It will unnecessary increase the cost.		The referred statement could not be found in the published RFP, dated 20 th Jan. '15. RFP stands
14	II	49	(1.2.3.2) 4	INTERNET Router	4.1 3 X 10/100/1000/ baseTX ethernet interfaces for LAN and WAN	Technical	Change the clause as: "4 X 10/100/1000/ baseTX ethernet interfaces for LAN and WAN & 2 SFP" As per requirement of the Network Architecture one more GbE and 2 SFP interface will be a better solution as Backup interface & future demand respectively, so kindly change the clause		RFP stands

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15	II	49	(1.2.3.2) 5	INTERNET Router	The router should have a minimum of 2 Mpps throughput The router should have minimum 400kpbs of IPSEC performance	Technical	Change the clause as: "The router should have a minimum of 1 Mpps throughput The router should have minimum 400kpbs of IPSEC performance" 1 Mpps throughput is more than sufficient for INTERNET Router		RFP stands
16			(1.2.3.2)	INTERNET Router	Addition	Technical	The proposed system must be EAL3/NDPP compliant This point needs to be added for better compliance		The RFP is stating the minimum specification requirements. Bidder may quote if the solution requires the same.
17	II	52	Internet Firewall Specifications-VPN Feature	Internet Firewall Specification	Support for n-tiered X.509 certificate chaining	Technical	To be Deleted This feature is proprietary to one OEM thus request you to kindly remove the same		The referred statement could not be found in the published RFP, dated 20 th Jan. '15. RFP stands
18	II	52	Internet Firewall Specifications-VPN	Internet Firewall Specification	Manual X.509 certificate enrolment (PKCS 10/7 support)	Technical	To be Deleted This feature is proprietary to one OEM thus request you to		The referred statement could not be found in the published RFP,

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			Feature				kindly remove the same		dated 20 th Jan. '15. RFP stands
19	II	53	IPS Specifications Point no. 1.1	IPS	"The IPS should have minimum of 4X10/100/1000 ports to support up to 4 inline protected segment support	Technical	Typically to protect 4 segments total of 8 ports would be required as one segment would be of inline and outbound port combination. Thus please clarify whether 4 ports(2 segments) or 8 ports (4 segments) needs to be provided		The referred statement could not be found in the published RFP, dated 20 th Jan. '15. RFP stands
20	II	57	End Point Protection for Servers and PCs (HIDS/ HIPS) Point No. 9.1	HIPS	The policies should control the behavior of system services and user actions, It should ensure that people or applications, cannot initiate harmful functions even if they are requested to do so. An example of a disallowed user function would be an attempt to run a *.bat or *.exe file attachment from an incoming e-mail. Similarly, System Services would not be allowed access to IIS information.	Technical	the functionality in detail as email security attachment protection are typically job of email security solution however HIPS can only control end system behaviour and bad file execution security. Thus this example is not relevant thus kindly clarify the functionality required in detail.		The referred statement could not be found in the published RFP, dated 20 th Jan. '15. RFP stands

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21	II	75	Functional Requirement for Network Behavior Sensor Point 2.	Network Behaviour Sensor	Sensor should be able to provide throughput of 1 Gbps. Sensor should have interface support for 8*1G, with an additional dedicated Management Port. The ports should be available for use as per the proposed solution	Technical	Does Arunachal SDC desire a DR Management software which is reputed and recognized by independent analysts like Gartner or IDC for multiple years for key DR functionalities like failover automation, recovery exercising etc? Is there any specific reason of having 1 Gbps and 8port as requirement of sensor; Usually sensors is classified as per number of flows per second thus request you to kindly provide flows per second as unit for us to size the solution. Also as mentioned in the specification sensor would be placed in mirror mode the switch thus request you to kindly modify the port requirement from 8 port to 4 port to have more participation.		This is as per the solution requirement. RFP stands

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22	II	25	1.2.2.7.1 (11)	Storage Hardware	"The Storage subsystem shall be configured with minimum of 8GB DRAM cache memory per controller total of 16GB."	Technical	Please consider changing the cache/memory to 16 GB per controller - totalling 32 GB This will give better scalability and longer investment protection		The referred statement could not be found in the published RFP, dated 20 th Jan. '15. RFP stands
23	II	25	1.2.2.7.1 (17)	Storage Hardware	"Across the Storage controller solution shall support minimum 8 front-end 4 Gbps FC ports and 4 backend 4Gbps FC/ SAS ports."	Technical	Please make the host ports as - " 8 front-end 8 gbps FC ports." and consider adding " At least 1 iSCSI port" 4 Gbps FC ports are obsolete, 8G Gbps is now standard. iSCSI port will be required for replication		The referred statement could not be found in the published RFP, dated 20 th Jan. '15. RFP stands
24	II	70-72	1.2.7	Disaster Recovery Management software	Functional requirement for Disaster Recovery Management Software	Technical	DR Management software is an emerging technology with very few reliable solutions available in the market. Choosing a reputed and recognized solution will ensure quick and hassle-free deployment in Arunachal SDC with reliable operations		The referred statement could not be found in the published RFP, dated 20 th Jan. '15. RFP stands
25	II	70-72	1.2.7	Disaster Recovery Management	Functional requirement for Disaster Recovery Management Software,	Technical	Does Arunachal SDC desire a DR Management software which is tested and certified by		Bidder is suggested to adhere to the points mentioned

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				software	Section 5, Management		an A2LA Accredited Organization to ensure that there are no security vulnerabilities which can be exploited? A thoroughly tested and certified DR management solution by a reputed A2LA accredited organization will ensure that the DR Management product will cannot be easily compromised to gain access to confidential state owned data.		in RFP & come up with a technical solution which meets the RFP requirements & provides better service.
26	II	70-72	1.2.7	Disaster Recovery Management software	Functional requirement for Disaster Recovery Management Software, Section 5, Management, File Replicator	Technical	Does Arunachal SDC desire a file replication tool which has analytics capability to give total file/directory count, typical scan time, number of open files, time of last replication for a file, file size and time stamp? Analytics capability in a file replication tool helps to optimize performance of the replication		Bidder is suggested to adhere to the points mentioned in RFP & come up with a technical solution which meets the RFP requirements & provides better service.

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27	II	70-72	1.2.7	Disaster Recovery Management software	Functional requirement for Disaster Recovery Management Software	Technical	Does Arunachal SDC desire DR Management software which has a well-established install base in large enterprises for at least 5 years and has at least 10 government/PSU organizations as its customer DR Management software is an emerging technology with very few proven solutions available in the market. Choosing a product with an established install base will ensure compatibility with present and future Arunachal SDC environment and ease of deployment.		Bidder is suggested to adhere to the points mentioned in RFP & come up with a technical solution which meets the RFP requirements & provides better service.
28	II	21-23	1.2.2.5	Server Load Balancer		Technical	The specification is matching to a server hardware not server load balancer appliance. Like other network equipments (firewall/IPS), server load balancer uses purpose built hardware and OS. We strongly suggest appliance based solution with following specification replacing existing clauses (3-20) 1) The device should have		Server load balancer is optional requirement. Bidder is suggested to come up with technical solution for better reliability & faster response.

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							<p>minimum 5 Gbps L4/L7 throughput scalable to 10 Gbps</p> <p>2) The device should have minimum 4 Gigabit Ethernet ports scalable to 8</p> <p>3) The device should have option for 2 x 10 Gigabit SFP+ ports.</p> <p>4) Minimum 4M Concurrent connection</p> <p>5) SSL Throughput - Minimum 1 Gbps scalable to 3 Gbps</p> <p>6) SSL TPS/CPS - Minimum 2500 SSL TPS scalable to 5000 (2048 bit encryption)</p> <p>1) Present Specification is a Software based Load Balancer Specification and will be installed in a Server Hardware which is not recommended in an SDC Scenario & most of the SDC's in India is having an Appliance based Load Balancer Solution.</p> <p>2) Requesting to change the Specification to a Appliance based Load Balancer due to High Availability & Security perspective.</p>		

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							3) Appliance based solution is better considering the SDC scenario because appliance is faster in response & do not prone to Virus, Spyware & Malware infection, where as software based solution is prone to these infections. 4) Appliance based Load Balancer Specification is enclosed in the next sheet.		
29	II	230	3.3.18	Technical Specification – Passive Networking	FLOOR CONCENTRATION BOX (FCB) FOR RAISED FLOOR ACCESS	Technical	FCB will consume space under the false floor and installation of FCB under 350 mm FF may not be possible. Hence we request you to allow us to design the passive distribution without FCB.		Bidder may consider installation of passive cabling without FCB, keeping in mind all the safety hazards.
30	II	247	4.2	4.2 Bill of Quantity: Electrical System	UPS Battery 100 KVA : 12 V VRLA	Technical	In detailed specification of UPS it is asked to provide 2V VRLA for 100 KVA however in BOM it is mentioned as 12 V VRLA		UPS Battery 100 KVA : 12 V VRLA In all places where it is mentioned as 2V requirement in case of UPS, it is to be considered as 12V.

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31	II	276	4.9	Bill of Quantity	Bill of Quantity : Additional Component- Server Load Balancer	Technical	Is this an Optional item in this bid?		Server Load Balancer is optional requirement
32	I	16	Section-II	Eligibility Criteria- Point - 10	The EMD should be denominated in Indian Rupees, and should be in the form of BG, by a Nationalized/Scheduled bank.	Others	There is a mismatch in the Eligibility criteria and the asked clause.		Please. Refer to the Section XI Annexure II – Pre Qualification Checklist of the Published RFP (Vol. I, Pg Nos. 235 onwards) for the correct Eligibility criteria requirement matching documents. In case of EMD, only DD/ FDR/ Banker's Cheque to be considered; no BG will be entertained.
33	I	17	Section-II	Eligibility Criteria- Point - 14	Declaration on Database Solution	Technical	Since bidder is not been asked to quote for the DB license, kindly remove the same.		RFP stands
34	I	61	SL No 25	Connectivity	Integration of SWAN & SDC Connectivity	Technical	Details of Equipment required at SWAN SHQ Level		Bidder is requested to gather all the

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							Without this , Bidder cannot articulate the activities and components involved for successful Integration of SWAN and SDC		related information before implementation as & when SWAN comes up.
35	I	61	SL No 25	Connectivity	Integration of SWAN & SDC Connectivity	Technical	PI clarify which class of IP running in SWAN		Bidder is requested to gather all the related information before implementation.
36	I	107	6.10- Firm Prices		ii. The Commercial bid should clearly indicate the price to be charged without any qualifications whatsoever and should include all taxes, duties, fees, levies and other charges as may be applicable in relation to the activities proposed to be carried out. It is mandatory that such charges wherever applicable/ payable should be indicated separately in Section X - Format 18: Breakdown of Cost	Payment milestone	Prices shall be exclusive of Octroi, Road tax and other local levies. The same shall be payable at actuals. Any change/additional tax levied during the course of the contract shall be to the account of the purchaser.		The bidder is requested to submit the price bid as per point 6.10.ii after taking all the taxes/ Octroi into the account

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					Components. However, should there be a change in the applicable taxes till the date of delivery of products/ services any downward revision shall be passed on to Tendering authority.				
37	I	168	7.21		7.21 Warranty f) If the bidder, having been notified, fails to remedy the defect(s) within the period specified in the SLA, SCITeG may proceed to take such remedial action as may be necessary at the Bidder's risk and expense and without prejudice to any other rights, which SCITeG may have against the Bidder under the contract.	SLA	OEM Warranty shall be passed on 'As Is' with additional support to meet the SLAs. Request deletion of clause f.		RFP stands
38	I	197	7.44.10		7.45.10 If the work is not completed within 10 weeks from the date of proposed completion, buyer shall have a risk purchase right i.e. right to terminate	Payment milestone	It is submitted that Vendor's liability under this clause shall be limited to a maximum of 10% of the value payable to the Vendor the undelivered portion which has to be procured from an alternate source.		RFP stands

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					the current contract, hire any other vendor and get the work done at the risk and cost of the earlier vendor who couldn't complete the work in time.		It is further submitted that entire contract is not to be terminated in cases where specific portions alone need to be procured from third parties. A notice period of 30 days shall be provided to the Vendor in the event of decision being made to exercise rights under this clause.		
39	I		NA	New clause		Legal	The acceptance criteria or procedures for Deliverables set forth in this Agreement and as particularly described in any SOW will only apply to the services provided herein. It will not apply to any product HP may supply or has supplied to customer, regardless of whether such products can be used in connection with the services or Deliverables. Any refund/return or penalty rights as set forth hereon apply only to the services provided.		RFP stands

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40	II	17	2.2.2	Blade Chassis/Enclosure for blades (from same OEM Make & Model)	Blade Chassis/Enclosure shall have a provision to accommodate a minimum of 8 Blade Server modules (all the blade slots should be ready for new blade to be inserted)	Technical	Blade Chassis/Enclosure shall have a provision to accommodate a minimum of 14 Blade Server modules (all the blade slots should be ready for new blade to be inserted)		RFP stands
41	II	17	2.2.2	Blade Chassis/Enclosure for blades (from same OEM Make & Model)	Blade enclosure should be capable to accommodate Intel/ AMD processors.	Technical	Blade enclosure should be capable to accommodate Intel/ AMD and RISC/EPIC processors.		RFP stands
42	II	23	2.2.7	Storage and Backup Solution Storage Hardware specification	RAID controller should support various levels of RAID (RAID 0/10, RAID 1, RAID 5/6)	Technical	RAID controller should support various levels of RAID (RAID 0/10, RAID 1, RAID 5, 6)		RFP stands
43	II	24	2.2.7	Storage and Backup Solution Storage Hardware specification	The storage should be configured with 15TB (usable capacity in RAID 5) using 450GB SAS 10. The storage should be scalable to 30TB with the same drive type.	Technical	The storage should be configured with 15TB (usable capacity in RAID 5) using 450GB or lesser SAS 10K. The storage should be scalable to 30TB with the same drive type.		RFP stands

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44	II	27	2.2.8	SAN Switch	Switch shall support minimum 48 ports X 8 Gbps (with all required licenses from day-1).	Technical	Switch shall be supplied with minimum 48 ports X 8 Gbps (with all required licenses from day-1).		RFP stands
45	II	78	2.4.9	Integration Capabilities	The solution should be able to manage legacy traditional IT systems, private cloud environments and hybrid environments using the same cloud engine.	Technical	The solution shall provide both private and hybrid cloud environment, regardless of where requested resources are located. Should be able to broker cloud services across multiple hybrid clouds via topology models based on TOSCA		Should be able to broker cloud services across multiple hybrid clouds via topology models on TOSCA.
46	II	91	3. Technical Specifications – Electrical	UPS, Batteries and Accessories	These specifications describe requirements for a Modular & Scalable, Digital Uninterruptible Power System (UPS) consisting of one or more power module units connected in parallel inside standard rack without the need for any additional system controller;	Technical	As multiple modules need to be paralleled without a common controller and with an inter module synchronization system which shall become single point of failure and shall lead to total failure of the UPS system, hence request to amend the statement as mentioned in the proposed clarification These specifications describe requirements for a Modular & Scalable, Digital Uninterruptible Power System (UPS) consisting of one or more		Accepted These specifications describe requirements for a Modular & Scalable, Digital Uninterruptible Power System (UPS) consisting of one or more power module units connected in parallel inside standard rack with

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							power module units connected in parallel inside standard rack with redundant system controller;		redundant system controller
47	II	93	3. Technical Specifications – Electrical	UPS, Batteries and Accessories, Point F.	Each power module shall have its own intelligent control logic to avoid single point of failure. There should not be any common controller that controls all power modules in parallel.	Technical	As multiple power modules paralleled with individual controllers using an inter module synchronization system which shall become a single point of failure and shall lead to total failure of the UPS system, hence request to amend the statement as mentioned in the proposed clarification All power modules shall be driven by the main intelligent logic controller to avoid the need of inter module synchronization. There should be a redundant controller which shall take over the operation in case of failure of the main intelligent logic controller to avoid a single point of failure.		All power modules shall be driven by the main intelligent logic controller to avoid the need of inter module synchronization. There should be a redundant controller which shall take over the operation in case of failure of the main intelligent logic controller to avoid a single point of failure.
48	II	158	3	3.3.9	The rating required is 28 TR sensible capacity with min 12600 cfm for each. Total no of PAC required is	Technical	As per the ratings the configuration can be 28 TR x 2 nos. (1 working + 1 standby). This will save the installation		Bidder should consider 3 nos. 14 TR as 2 working and 1 stand by

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					3 nos. 2 nos working and 1 no standby.		cost along with the savings in the floor space & lesser maintenance due to lesser number of machines.		model.
49	II	159	3	3.3.9	Compressor Latest-generation hermetic scroll compressors (air- and water-cooled DX versions), characterized by a high COP (coefficient of performance) and consequently also a high energy efficiency.	Technical	The compressor technology should be latest one for the better power savings. It should be tandem / digital which is presently in the market & complied by all OEMs. So please introduce tandem / digital scroll compressor in this section.		As per RFP
50	II	159 - 160	3	3.3.9	Refrigerating circuits (air-cooled DX versions); Electronic Expansion Valve (EEV) / Thermal expansion valve (TEV)	Technical	EEV is the best technology which ensures huge energy savings as it can control the flow of refrigerant very precisely. The TEV should be deleted as it is a very old technology. Every OEM is now giving EEV so everyone can comply.		Components with higher energy efficiency should be considered.
51	II	260	4	4.3	14TR (min) sensible capacity (2+1)	Technical	The capacity should be 28 TR x 2 nos. (1working + 1standby). As per the ratings the configuration can be 28 TR x 2 nos. (1working + 1 standby). This will save the installation		Bidder should consider 3 nos. 14 TR as 2 working and 1 stand by model.

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							cost along with the savings in the floor space & lesser maintenance due to lesser number of machines.		
52	II	72	2.4.2	2.4.9	The product should manage all OS which includes Solaris, AIX, Windows, HP-UX, Linux etc.	Technical	Most of the virtualization support x86 / x86-64 bit architecture & do not support cross architecture The product should manage all OS which includes Windows & Linux servers on x86 / x86-64 bit architecture		The product should manage all OS which includes Windows, Linux, UNIX type servers on x86 / x86-64 bit architecture.
53	II	94	3.3.1	Scalability & Modularity	Each UPS rack system shall consist of hot swappable power modules with and scalable up to 250 kVA/kW in each modular rack cabinet.	Technical	Each UPS rack system shall consist of hot swappable power modules with and scalable up to 200 kVA/kW in each modular rack cabinet.		Suggestion accepted Typographical error; Scalability is usually considered on denomination of 100 kva/kW.
54.	II	92	3.3.1	Design requirements	The battery will be installed: On open racks and preferably 2 Volt cell VRLA type Battery	Technical	The battery will be installed: On open racks and preferably 12 Volt cell VRLA type Battery		Suggestion accepted 12 Volt cell is accepted as it will be more

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									accommodable within the layout space. In all places where it is mentioned as 2V requirement in case of UPS, it is to be considered as 12V.
55.	I	6	1.4	6. Last date (deadline) for submission of Bids	6 th March 2015 (Friday), by 14:00 hours (2 p.m.)	Others	Extension of Bid soumission date by at least 45 days from proposed		9 th March 2015 (Monday), by 15:00 hours (3 p.m.)

Note:

1. Please. Refer to the Section XI Annexure II – Pre Qualification Checklist of the Published RFP (Vol. I, Pg Nos. 235 onwards) for the correct Eligibility criteria requirement matching documents.
2. For EMD, only Demand Draft (DD) or Fixed Deposit Receipts (FDR)/ Banker's Cheque is to be considered & no Bank Guarantee (BG) will be entertained.