"Supply, Installation and Commissioning of Enterprise Resource Planning (ERP) in Mumbai Metro Rail Corporation (MMRC) by System Integrator including associated Hardware, Software and Licenses along with its implementation, integration and maintenance support"

Standard Set of Deviations

To be read with Annexure I- Pre-bid Minutes of Meeting held on 27.11.2015 and Annexures to this Standard Set of Deviations appended.

The revised clause in the Standard Set of Deviations would prevail and will replace/supersede the respective existing clauses in the RFP

	ERP- Pre-Bid Queries Response						
Sr				·			
N o	Clause No.	Page No.	Content of RFP Requiring Clarification	Change Requested/ Clarification required	Query Response		
1	2.13.1	12	2.13.1 The original copy (hard copy) purchased from MMRC by paying of Rs.5,000/- shall be signed, stamped and submitted along with the bid.	In case RFP is downloded through payment gateway. Please clarify whether we have to still take hardcopy from your office.	No hardcopy is required to be collected.		
			PQ 4: Technical Capability:- The Bidder should have experience of implementing in similar government organization with atleast one project of proposed ERPsolution with order value not less than 2.4 Cr. or should have experience of implementing in similar government organization with atleasttwo project of proposed ERPsolution with order value not less than 1.8 Cr. or should have experience of implementing in similar government organization withatleast three project of proposed ERP solution with	In order to have wider participation, we request if similar experience in corporate sector / private	The section 2.21 stands modified as: The Bidder should have experience of implementing in Government/ PSU /Urban Local bodies with atleast one project of ERP solution with order value not less than 2.4 Cr. or should have experience of implementing in Government/ PSU /Urban Local bodies with atleast two project of ERP solution with order value not less than 1.8 Cr. or should have experience of implementing in Government/ PSU /Urban Local bodies		
2	2.21	16	order value not less than 1.2Cr.	organisations is also considered.	with atleast three project of ERP solution		

				with order value not less than 1.2Cr.
3	2.5	10	We request MMRC to allow Maximum 1 consortium considering the magnitude of the project i.e Hardware and related infra.	The section 2.21 stands modified as: The Bidder should have experience of implementing in Government/ PSU /Urban Local bodies with atleast one project of ERP solution with order value not less than 2.4 Cr. or should have experience of implementing in Government/ PSU /Urban Local bodies with atleast two project of ERP solution with order value not less than 1.8 Cr. or should have experience of implementing in Government/ PSU /Urban Local bodies with atleast three project of ERP solution with order value not less than 1.2Cr.

6	2.21- Interna I Filter – PQ2	Page No 16 Page No 16	The Bidder should be registered company in India under the Companies Act, 2013, and should be in existence in India for at least the last 3 years as on date of submission of the bid. The bidder should have average turnover of INR 30 crore in last three financial years (FY 12-13, FY-13-14, FY-14-15) as on 31st March 2015 from IT/ ITES Bidders shall submit, EMD of Rs. 3, 00, 000 (Rupees Three Lakhs only) through Online e-Tendering Payment Gateway mode only.	The Bidder registered under the Companies Act, 1956 should be permitted. The average turnover should be revised to of INR 20 crore in last three financial years (FY 12-13, FY-13-14, FY-14-15) as on 31st March 2015 from IT/ ITeS As the amount being big we request you to consider the EMD in form of Bank Guarantee we request you to consider the experience in govt as well as pvt sector, as we have implemented more than 50 implementation in the field of infrastructure vertical in pvt sector which are very much similar to what MMRCL	should be registered company in India und the Companies Act, 20 or Companies Act, 19 and should be in existence in India for least the last 3 years on date of submission the bid." As per RFP Since it is e-Tendering system, it is not possi at this stage. As per R
4	2.21- Interna I Filter – PQ2	Page No 16	The bidder should have average turnover of INR 30 crore in last three financial years (FY 12-13, FY-13-14, FY-14-15) as on 31st March 2015 from IT/ ITeS	The average turnover should be revised to INR 15 crore in last three financial years (FY 12-13, FY-13-14, FY-14-15) as on 31st March 2015 from IT/ ITeS.	As per RFP The Section stands modified as "The Bidde

9	2.21 PQ 6	18	The Bidder providing the application development/customization, deployment and maintenance as described in of scope of work, should have an active SEI CMMI Level 3 or its higher version certification as on date of submission of Bid	we request you to kindly consider the ISO certification of the organization.	As per RFP
10	2.5	10	The consortium, joint venture, subcontracting & outsourcing are not allowed.	this RFP being the multitasking RFP, we request you to allow consortium bids which will help to get specialized organization in bidding	Consortium of max. 2 members is now allowed
11	2.21	17	Initial Filter / technical capability (PQ4)	Can the criteria of implementation in Government project be replaced with any other sector	Clause modified. Pls. refer clarification No. 2
12	2.5	10	Consortium and Sub- Contracting Conditions	can consortium / subcontracting be allowed for hardware and networking	Clause modified. Pls. refer clarification No. 10
13	2.5	10	Consortium and Sub- Contracting Conditions	The consortium, joint venture, subcontracting & outsourcing are not allowed.	Clause modified. Pls. refer clarification No. 10
14	2.17	14	Submission of Bids	2.17.1 Complete bidding process will be online (e-Tendering) in two envelope system. Submission of bids shall be in accordance to the instructions given in the Table. Do we need Digital Signtaure to sibmit the bid through On-Line.below:	Yes. Class II DSC is required. Pls. refer section 1.3 in the RFP.

ı	İ	İ		We understand that the	l I
				requirements and the set	
				up of Government	
				organizations is different,	
				however, w.r.t. technical	
				capability, implementaion	
				of the solution would be	
				the same irrespective of	
				whether it has been	
				implemented in a	
				Government or non-	
				Government organisation.	
				We would humbly	
				request to modify the	
				criteria of implementation	
				in Government project	
			Taikini Filan / tarkat	with implemented similar	Clause mandified Di
1 -	2 21	17	Initial Filter / technical	solution in any other	Clause modified. Pls.
15	2.21	17	capability (PQ4)	sector	refer clarification No. 2
				Would consortium/	
			Consortium and Sub-	subcontracting be allowed for hardware and	Clause modified. Pls.
16	2.5	10	Contracting Conditions	networking	refer clarification No. 10
10	2.3	10	Contracting Conditions	As per CVC guideline the	refer clarification No. 10
				annual turnover of bidder	
				must be 30% of the	
				estimated project value.	
				On what basis 30 crores	
				turnover is required by	
				MMRC?	
				We request MMRC to	
				change the clause as	
				follows -	
				"The bidder should have	
				average turnover of INR	
				15 crore in last three	
				financial years (FY 12-13,	
				FY-13-14, FY-14-15) as	
				on 31st March 2015 from	
				IT/ ITeS"	
				Or	
				"The bidder should have	
			The bidder should have	average turnover of 30%	
			average turnover of INR 30	of project value in last	
			crore in last three financial	three financial years (FY	
			years (FY 12-13, FY-13-14,	12-13, FY-13-14, FY-14-	
	2.21,	Page	FY-14-15) as on 31st March	15) as on 31st March	
17	PQ2	17	2015 from IT/ ITeS	2015 from IT/ ITeS"	As per RFP

18	2.21, PQ6	Page 18	The Bidder providing the applicationdevelopment/custo mization, deployment and maintenance as described in of scope of work, should have an active SEI CMMI Level 3 or its higher version certification as on date of submission of Bid	We request this clause to be relaxed in case the software product OEM is bidding directly. We request the change in clause as follows - "The Bidder providing the applicationdevelopment/c ustomization, deployment and maintenance as described in of scope of work, should have an active SEI CMMI Level 3 or its higher version certification as on date of submission. Not required to be submitted if the bidder/implementing agency is the proposed ERP OEM"	No Change
19	2.21	17	Technical Capability The Bidder should have experience of implementing in similar government organizationwith atleast one project of proposed ERPsolution with order value not less than 2.4 Cr.	Request you to remove the condition of the experience of the Proposed ERP solution in this clause and modify the same to: The Bidder should have experience of implementing in similar government organization with atleast one project of ERP solution with order value not less than 2.4 Cr.	Clause modified. Pls. refer clarification No. 2

				Since project is of turnkey in nature requiring supply	
				& maintenance of hardware, hosting of ERP	
				application together with	
				ERP implementation	
				services.	
				All these services require	
				niche expertise and	
				hence we request that	
				Consortium of at least 2 Partners is allowed for	
				this project so that	
				partners having suitable	
				skills / expertise for this	
				project can come	
				together and bid which	
				will make bidding process	
				more competitive.	
				As regards to Consortium, MMRC can keep Lead	
				Bidder as single point of	
				contact for the project	
				and make all Consortium	
				Partners (including Lead	
			Consortium and Sub-	Bidder) joint & several	Clause modified. Pls.
20	2.5	10	Contracting Conditions	liable for this project.	refer clarification No. 10
				While good attempt is made by MMRC by	
				defining Eligibility Criteria	
				which will ensure that	
				bidders having requisite	
				experience will only bid in	
				this process.	
				RFP says that basic	
				documents pertaining to PQ will be checked which	
				means there is no formal	
				technical evaluation of	
				bidders based on their	
				financial stability,	
				technical competence and	
				availability of manpower that needed for	
				successful completion of	
				this project	
				So by not defining	
				technical evaluation	
				parameter, the main	
				purpose of filtering	
				bidders based on their experience / expertise will	
21	2.2	16	Evaluation Process		As per RFP
21	2.2	16	Evaluation Process	be defeated and we	As per RFP

				request MMRC to define technical evaluation parameter.	
				a) We request MMRC to define "Similar" Government Organisation clearly. We request experience of implementing ERP / integrated business application solution in Govt dept / PSU / Urban bodies be considered so as to have wider	
				competition b) Past experience of Similar ERP solution There are many ERP applications available in the market. Bidder decide to quote a particular ERP solution based on Scope of ERP application and functionalities asked in the RFP and other relevant technical	
22	2.21	17	Initial Offer PQ4 – Bidder should have experience of implementing in similar government organisation with proposed ERP solution	parameters etc. These are parameters that vary from RFP to RFP. It may be possible that bidder might have done COTS ERP implementation in large organisation for similar modules in past. However, based on your RFP requirement, bidder may like to offer some	Clause modified. Pls. refer clarification No. 2

				smaller yet equally capable ERP COTS that meets functional requirement to MMRC under this RFP. While we understand that bidder should have past experience of ERP implementation. However restricting this experience to "proposed" ERP only will limit the competition. So we request MMRC to remove word " Proposed" from PQ-4 c) Project completion certificate as past experience criteria We request MMRC to consider ongoing projects also as ERP implementation cycle in large Organisation is very long normally	
23	2.23	18	Financial Bid Evaluation MMRC shall award the contract to the qualified bidder who has quoted the least.	Project being turnkey in nature requiring specific skillset, we request MMRC to do bid evaluation based on QCBS method ie technical & financial bid evaluation and winner should be selected based on its composite scoring only. This way, MMTC will get bidder who has best technical expertise and is also cost-wise cheapest	As per RFP

24	2.13.2	13	Authentication of Bid - In case of consortium, only the person from Lead Member is authorised to sign the bid documents and no other person is permitted. 6) Bidder shall provision integration with Primavera (Project Management tool) and Document management and collaboration system through standard APIs.	Clause 2.10 states that Consortium is not allowed but the Authentication of Bid clause states that consortium is allowed. We request you to please consider allowing consortium of atleast 2 partners that allows more competitive bidding Please elaborate on existing Document Management System (OEM/Technology) and other legacy applications being used, which needs integration.	Clause modified. Pls. refer clarification No. 10 The DMS solution is not yet implemented. Tender has been just released.
26	3.1.7.2 .1.1	24	3.1.7.2.1.1 Seamless integration with MMRC's Project Management and Document Management/ Collaboration System based on MMRC's operations	Please elaborate on existing Document Management System (OEM/Technology) and other legacy applications being used, which needs integration.	The DMS solution is not yet implemented. Tender has been just released.
27	3.1.4	21	3.1.4 Warranty and Annual Maintenance Contract (AMC) Scope of services to be provided under Warranty and AMC is as follows: Support shall include technical and functional support and maintenance of ERP licenses, Databases and all other standard third party software which form the part of the proposed solution for AMC of 4 years.	As per these clauses the support required on COTS/third party s/w is 4 years and warranty from OEM is 5 years. The two statements are contradictory. Please clarify how much is warranty and AMC period? There is no provision for quoting AMC charges in your commercial format given in clause 7.2	Hardware warranty is for 5 years from date of installation. Project Support (O&M) is for 4 years after Go live.
28	3.1.7.2 .1.3	24	3.1.7.2.1.3 Data migration for each of the applications, functions into the proposed COTS solution.	Please elaborate on data migration activity like volume, availability of date in soft form and no of years of data to be migrated	Data in Tally and Excel to be migrated. Data since 2011
29	3.1.7.2	24	3.1.7.2.4.1 MMRC may use the services independent third party expertise to assess, review and quality control of the project artifacts and deliverables	Please clarify whether MMRC will take care of expenses related to third party audit?	Yes

					Total users envisaged: around 250.
					Current users : around 70-80. Users to increase
					in a span of next 1-2
					years. Batch size: 25-30.
				Please clarify total no of users to be trained /	Location: MMRC. No. of Days: To be
				Batch Size / No of days	proposed by Bidder and
30	3.1.7.2 .5.1	25	3.1.7.2.5.1 Training all the users	training expected on deployed application and location of training.	to be finalised in consultation with MMRC during SRS/FRS.
			3.6 Project Timelines		To be proposed by Bidder for the O&M
			8. Operations and maintenance a. Application		period based on MMRC's User count. Man Month
			support and Maintenance for		rates have been asked
			modules b. Operational support for modules c.	Please indicate the minimum manpower /	for in the Financial format. Pls. refer
31	3.6	37	Maintenance support for modules	skill set required during O&M period.	clarification no. 30 for details.
			3.7 Payment Milestone		
			40% of Total project cost To		
			be paid in 16 Equated Quarterly instalments (every		
			three months) during O&M 4 year (48 months) of	We request if the O&M and Hardware/COTS	
32	3.7	37	operation and maintenance period	payment be delinked with payment terms.	No Change
32	0.7	37	If required, bidder shall be	payment termor	no enange
			required to setup and configure at no additional		The existing office might
33	3.1.3.1	22	cost in case MMRC moves to different location.	Please elaborate	get shifted to a new building in BKC.
					Support shall include technical and functional
					support and
					maintenance of ERP licenses, Databases and
			Support shall include		all other standard third party software which
			technical and functional support and maintenance of	Hope our understanding	form the part of the proposed solution for
			ERP licenses, Databases and	is correct that the AMC /	AMC of 5 years (i.e
			all other standard third party software which form the part	Warranty for 4 years after completion of 6 months	Hardware warranty) 2. Post
	3.1.4 &		of the proposed solution for AMC of 4 years Vs Post	of implementation duration proposed in RFP	implementation support is for 4 years
34	3.1.7.6 .1	22 & 27	implementation support for 5 year at MMRC office	and section 3.1.7.6.1 will be read out as 4 years	at MMRC office Post Go-Live.

			User Adoption Support: The Bidder shall provide User adoption support, by deputing technical and functional consultants at the client site after implementation of COTS	The one month stabilization period will	
35	3.1.7.6 .15	29	Solution at that site for 1 month as stabilization period.	start after Declaration of "Go Live"?	Yes
36	3.1.7.6 .15 & 3.1.7.7		In our understanding 1 month off stabilization period and 1 month of support are the same .		Yes
37	3.2 Integra tion	33	Bidder shall ensure seamless integration with MMRC's other applications like Project Management, Document Management/ Collaboration System, etc.based on MMRC's operations. Data from other systems/ applications should be flow to and from ERP systems based on MMRC's operations. The bidder shall ensure integration of Payment and SMS gateway, and use of digital signature (class II sign and encryption) with its proposed COTS ERP Product. Also, ERP system shall be integrated with Automatic Fare Collection system.	Please give more technical information such as technology / database / architecture etc	Project Management: Primavera Document Management: Not yet implemented. Tender has been just released.
38	3.7	38	Hardware / License procurement and software installation	We request for 100 % payment of OEM Payments on delivery of the product i.e Hardware and Software.	As per RFP
39	3.6.10	39	Number of resources may vary based on project requirements by MMRC. Payment will be made on actual deployment of resources as per the quotations submitted by the bidder.	Since the project will be fixed bid cost so Please give more clarity	Man month rates have been asked for. Changes in the financial format has been made.
40	3- Scope of work – point 6	Page No 20	Bidder shall provision integration with Primavera (Project Management tool) and Document management and collaboration system through standard APIs.	 Which Document management is being used? Need for one way integration or two way integration with Primavera? Up to which 	1.Document Management: Not yet implemented. Tender has been just released. 2. Two way but to be finalized in consultation

				level integration is required?	with MMRC during SRS and FRS stage
			MMRC reserves the right to amend/ add/ delete/ edit any	This clause should be	
41	3- Scope of work	Page No 20	of the following items of the scope of work at the cost of the bidder which shall be binding on the bidder.	deleted. It would be difficult to estimate project size with open ended scope.	Clause removed
42	3.1- Scope for Enterpr ise Resour ce plannin g	Page No 20	The Proposed COTS ERP Solution should enable single Sign on and have Compliance to Indian laws, taxation requirements, legal requirements like Tax Deducted at Source (TDS), Service Tax, Value Added Tax (VAT), and other taxation, accounting, payroll, GOF, Salary, TDS certificates.	What is the meaning of GOF?	Word removed
43	3.1- Scope for Enterpr ise Resour ce plannin g	Page No 20	ERP system shall support integration with Automatic Fare Collection Module as required by MMRC.	The integration is limited to capture consolidated day end accounting balance in proposed ERP? Please confirm scope as stated above.	Should be able to accept data from external source, maybe through web services or any means. But Automatic Fare Collection Module to come up only at the time of operationalization of Metro.
44	3.1.3.1	Page No 21	The required infrastructures to run the application shall be appropriately configured by the Bidder.	 Is bidder responsible to setup data centre? Is bidder responsible for LAN cabling also? Is bidder supposed to install & configure operating system? Request confirmation. 	1. Bidder is supposed to setup, install and configure server and all related components in the proposed server room at MMRC. 2. No. 3. Yes.
45	3.1.5.3	Page No 21	System-driven compliance to Indian regulatory requirements(IGAAP, IFRS, GST)	At present GST is not operational, & requirements are not clear. Request to delete this word.	The system should be able to support when ever it is implemented down the line.
46	3.1.7.2 .1.3	Page No 24	Data migration for each of the applications, functions into the proposed COTS solution.	What is the volume of data migration?	Data in Tally and Excel. Data since 2011. Data volume is not too big.

Payment for Hardware & License procurement should be 100% upfront post-delivery/ installation. 1. Is bidder expected to provide Database license. 2. Is bidder expected to provide operating system license for project. 37 Project Cost Project C	47	3.4 Man power Requir ement	Page No 33	Project Manager/ Functional Lead/ Technical Lead / Project Support Languages known (Read, Write and Speak): Hindi, English, Marathi	The clause should be revised to (Marathi should be deleted) Languages known (Read, Write and Speak): Hindi, English	As per RFP
Payme nt No - 1 shiesto No 2 style project Cost					Payment for Hardware & License procurement should be 100% upfront post-delivery/ installation. 1. Is bidder expected to provide Database	
Milesto No installation - 30% of Total Project Cost Project Cost		Payme			2. Is bidder expected	
As per RFP As per RFP				•		1. Yes
Project Timelin No - The rollout of ERP is maximum of Six(6) months Help desk operations - Initial Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for usage related and other minor problems. Dial-in support for usage related and other minor problems. Dial-in support for usage related and other minor problems. Dial-in support for usage related and other minor problems. Dial-in support for handling, minor bug fix. 3.1.7.5 1. 26 bug fix. Help desk operations - Initial Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for usage related and other minor problems. Dial-in support for usage related and other minor problems. Dial-in support for usage related and other minor problems. Dial-in support for usage related and other minor problems. Dial-in support for handling, minor bug fix. 3.1.7.5 3.1.7.5 3.1.7.5 2. 26 Onsite support - On-site support for hand holding the users, database recovery and data synchronization after crash, performance tuning, bug fix, update for all critical functions. Time line should be revised to Nine Months. As per RFP Working hours from Monday to Friday. What is the support window expected for helpdesk operations? Ex - 24x7, 8x5, etc. There is no need for any Toll free number for helpdesk service or will MMRC provide toll free number to its employees? Help desk operations? Ex - 24x7, 8x5, etc. Three is no need for any Toll Free number f	48	ne -2				
Help desk operations - Initial Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for handling, minor bug fix. 3.1.7.5 3.	40	Project Timelin	No -			As now DED
telephonic response and support for usage related and other minor problems. Dial-in support for handling, minor bug fix. 3.1.7.5 26 bug fix. Help desk operations - Initial Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for handling, minor bug fix. 3.1.7.5 1 26 bug fix. Do we have to provide toll free number for helpdesk service or will MMRC provide toll free number to its employees? 1 1 26 bug fix. Help desk operations - Initial Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for usage related and other minor problems. Dial-in support for handling, minor bug fix. 3.1.7.5 3.1.7.5 Onsite support - On-site support for hand holding the users, database recovery and data synchronization after crash, performance tuning, bug fix, update for all critical functions. What is the support window expected for helpdesk operations? Ex - 24x7, 8x5, etc. Working hours from Monday to Friday. There is no need for any Toll Free number. The ERP support team to be deployed at MMRC shall be provided with a landline. Help desk operations? Ex - 24x7, 8x5, etc. There is no need for any Toll Free number for helpdesk service or will MMRC provide toll free number to its employees? Helpdesk support is required for which level? L1, L2, L3? As per RFP Person to be deployed on MMRC premises for day to day support. As a part of post implementation support for 4 Years What is the support	49	es	35		revised to Nine Months.	As per RFP
support for usage related and other minor problems. Dial-in support for handling, minor bug fix. 1 26						
3.1.7.5 50 .1 26 support for handling, minor bug fix. Help desk operations - Initial Response Immediate telephonic response and support for handling, minor bug fix. 3.1.7.5 51 .1 26 bug fix. Help desk operations - Initial Response Immediate telephonic response and support for handling, minor bug fix. Help desk operations - Initial Response Immediate telephonic response and support for handling, minor bug fix. 3.1.7.5 52 .1 26 bug fix. Help desk operations - Initial Response Immediate telephonic response and support for handling, minor bug fix. 3.1.7.5 52 .1 26 bug fix. Onsite support - On-site support for hand holding the users, database recovery and data synchronization after crash, performance tuning, bug fix, update for all critical functions. 3.1.7.5 53 .2 26 working hours from Monday to Friday. Help desk operations - Initial Response Immediate toll free number for helpdesk service or will MMRC provide toll free number. The ERP support team to be deployed at MMRC shall be provided with a landline. Help desk operations - Initial Response Immediate toll free number for helpdesk service or will MMRC provide toll free number to its employees? Help desk operations - Initial Response Immediate toll free number for helpdesk service or will MMRC provide toll free number to its employees? Help desk operations - Initial Response Immediate toll free number for helpdesk service or will MMRC provide toll free number to its employees? Help desk service or will MMRC provide toll free number to its employees? Help desk service or will MMRC provide toll free number to its employees? Help desk service or will MMRC provide toll free number to its employees? Help desk service or will MMRC provide toll free number to its employees? Help desk service or will MMRC provide toll free number to its employees? Help desk service or will MMRC provide toll free number to its employees? Help desk operations - Initial Response Immediate toll free number to its employees? Help desk service or will MMRC provide toll fre				support for usage related and		
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Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for handling, minor bug fix. 3.1.7.5 51 .1 26 Begin for handling, minor bug fix. Help desk operations - Initial Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for handling, minor bug fix. 3.1.7.5 52 .1 26 Down have to provide toll free number for helpdesk service or will MMRC provide toll free number to its employees? Help desk operations - Initial Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for handling, minor bug fix. Onsite support - On-site support for hand holding the users, database recovery and data synchronization after crash, performance tuning, bug fix, update for all critical support? 3.1.7.5 53 .2 26 functions. Response Immediate toll free number for helpdesk service or will MMRC provide toll free number to its employees? Helpdesk support is required for which level? L1, L2, L3? As per RFP Person to be deployed on MMRC premises for day to day support. As a part of post implementation support for 4 Years Will the end user training be applicable to BI as	50		26	bug fix.		
Help desk operations - Initial Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for handling, minor bug fix. 3.1.7.5 52 .1 26 bug fix. Onsite support - On-site support for hand holding the users, database recovery and data synchronization after crash, performance tuning, bug fix, update for all critical 53 .2 26 functions. Helpdesk support is required for which level? L1, L2, L3? As per RFP Person to be deployed on MMRC premises for day to day support. As a part of post implementation support for 4 Years Will the end user training be applicable to BI as	51		26	Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for handling, minor	toll free number for helpdesk service or will MMRC provide toll free	Toll Free number. The ERP support team to be deployed at MMRC shall be provided with a
support for hand holding the users, database recovery and data synchronization after crash, performance tuning, bug fix, update for all critical functions. Support for hand holding the users, database recovery and data synchronization after crash, performance tuning, bug fix, update for all critical by Onsite Support? What does MMRC mean by Onsite Support? Will the end user training be applicable to BI as		3.1.7.5		Help desk operations - Initial Response Immediate telephonic response and support for usage related and other minor problems. Dial-in support for handling, minor	Helpdesk support is required for which level?	
Will the end user training be applicable to BI as	53		26	support for hand holding the users, database recovery and data synchronization after crash, performance tuning, bug fix, update for all critical		on MMRC premises for day to day support. As a part of post implementation support
	55		20	Tanctions	Will the end user training	TOT T TOUTS
54 .10 29 End-User Training	54	3.1.7.6 .10	29	End-User Training	be applicable to BI as well?	Yes

55	3.1.7.8 .5	31	I. No issues pending at the end of support period "on-line" transactions of all implemented modules – No backlog / offline transaction	Can this be reworded as "No critical issues"? SI can only provide commitment for the enhancements delivered. Product issues will be ownership of Principal vendor This depends on MMRC. SI won't enter any transaction in the PROD instance. It can be an	Request accepted
56	.5	31	data entry during the last month of support.	internal success criteria.	As per RFP
57	3.2	32	Bidder shall ensure seamless integration with MMRC's other applications like Project Management, Document Management/ Collaboration System, etc. Based on MMRC's operations. Data from other systems/ applications should be flow to and from ERP systems based on MMRC's operations. The bidder shall ensure integration of Payment and SMS gateway, and use of digital signature (class II sign and encryption) with its proposed COTS ERP Product. Also, ERP system shall be integrated with Automatic Fare Collection system.	How many banks, telecom, Digital sign service providers are required to be integrated? Real time or batch mode integration? Auto fare collection system – Real time or batch mode integration?	The system should be able to support integration with Class-II DSC. Integration with atleast one Payment Gateway solution should be supported. Automatic Fare Collection Module to come up only at the time of operationalization of Metro.
58	3.3	33	In lien of the ERP implementation, MMRC envisages reports over and above the standard reports which will enable MMRC Management to analyze, report and take suitable decisions. Advanced reports are required by MMRC where additional data can be sourced from different applications and create reports ad-hoc/ on the fly by MMRC which should be viewable and may be extracted in standard formats. The bidder may suggest, if any additional reporting tool may be required to create these ad-	As we understand there is a requirement of extracting the reports in different formats, can we know what are the different format expected?	To be finalized in consultation with MMRC during SRS and FRS

			hoc reports apart from standard available reports. The reports should be accessed as per the roles and responsibilities of the respective functions.		
59	3.6	37	To be started from successful implementation of modules till a period of 4 years.	This is contradictory with statement mentioned on page number 26 specifying support to be required for 5 years. Please confirm on support duration	Post implementation Support is required for 4 years
60	3.6	37	Data Entry, digitization, and conversion of the records available in the paper files and migration of the data available in the existing databases	How much % of data are in paper files? What is the existing Database Oracle/SQL Server etc.?	Data in Tally and Excel. Data since 2011. No data in paper files.
61	3.6	37	Project Timelines	As seen from the timelines, development has to be finished by 4th month, is BI a part of it?	No No
62	3.7	38	1: SRS & FRS Sign off : 10% of Total Project Cost	First milestone payment should be done on award of contract.	As per RFP
63	3.1.7.2 .1.1	24	Seamless integration with MMRC's Project Management and Document Management/ Collaboration System based on MMRC's operations	Request to provide details about existing Project Management and Document Management/ Collaboration System	Primavera for Projetc Managemnet and DMS- Tender just released.
64	3.1.7.2 .1.3	24	Data migration for each of the applications, functions into the proposed COTS solution.	Request to provide the volume of current data which need to be migrated with the COTS solution	Data in Tally and excel. Data since 2011. Volume is not too big.
65	3.1.7.2 .1.3	24	Data migration for each of the applications, functions into the proposed COTS solution.	Is MMRC expecting bidder to do data cleansing, digitization also?	Data in Tally and Excel. Also since data is not much, Bidder is expected to do data

]			cleansing where ever
					required.
66	3.1.7.2 .5	24	Training and documentation	Request to provide the approximate number of users breakup for training (Core/power/end/manage ment/super users)	25-30 users in a batch. Pls. refer clarification No. 30 for details. 10-15 : Management 200-250: End users 40-50: Power users
	3.1.7.5		Onsite support - On-site support for hand holding the users, database recovery and data synchronization after crash, performance tuning, bug fix, update for all critical	Is MMRC expecting onsite support for whole five	Post implementation On Site Support is required
67	.2	25	functions.	years?	for 4 years
68	3.3	32	In lien of the ERP implementation, MMRC envisages reports over and above the standard reports which will enable MMRC Management to analyze, report and take suitable decisions.	Request to provide the additional reporting requirement in approximate numbers?	To be finalized in consultation with MMRC during SRS and FRS
	240	25	Changes or Substitutions of the Project Manager shall not be considered and may lead to disqualification of the Bidder or termination of the	Request to modify this requirement to "In case, replacements required, the Selected Bidder shall notify MMRC in writing at least 15 (Fifteen) days in advance, for prior approval, stating: the reason for replacing the person(s), originally assigned to the project the names and signed curriculum vitae (CV)of the proposed	The clause to be read as: "In case, replacement is required, the Selected Bidder shall notify MMRC in writing at least 30 (Thirty) days in advance, for prior approval, stating: the reason for replacing the person(s), originally assigned to the project the names and signed curriculum vitae (CV)of the proposed replacement having
69	3.4.9	35	contract	replacement" It is mentioned that	equivalent credentials."
70	3.4		Manpower requirement	'Languages known (Read, Write and Speak): Hindi, English, Marathi' for manpower requirement mentioned in the RFP. Can it be changed to "Languages known (Read, Write and Speak): Hindi & English mandatory and Marathi as optional"?	As per RFP

72	3.6	37	Project Timelines	"Post implementation support for 5 year at MMRC office". need to consider for four or five years?	Post implementation support for 4 years at MMRC office The application needs hosted on MMRC premise by the Bidder. COTS: Commercial Of the Shelf i.e. packaged
73	3	21	Scope of work - Manage application hosting bidder shall be required to	Please clarify in detail about managing the application hosting Clarify COTS	software solutions that are designed to be implemented easily intexisting systems withouthe need for customization The existing office migget shifted to a new building in BKC. The Bidder is expected to
			setup and configure at no	in same city ? Clarify	install the configure th
73	3	21		about managing the application hosting	existing systems we the need for customization The existing office get shifted to a ne

	3.1.7.6		Core implementation services	Clarify support contract tenure - 4 or 5 years ? Please clarify duration of	Post implementation support for 4 years at
75	.1	27	- AMC support for 5 years	contract	MMRC office
76	3.1.7.6 .4	27	Identification: trial run of customised system with MMRC data and will be rolled out to other locations post approval	What is the duration,criteria and completion for trial run?	To be discussed with successful bidder
70	.7	21	арргочаг	MMRC to ensure that	Successiui biddei
77	3.1.7.6 .12	29	Readiness for GO live - setting up help desk	required infrastructure for setting up a helpdesk is available	MMRC can only provide space
70	3.1.7.8	20	The Bidder should plan for following developments as a part of the normal effort for implementing the COTS	No list of developments mentioned in RFP below	Clause removed
78	.4	30	Solution	this point	Clause removed Supply, installation,
79	3	20	Scope of work - hardware	What is the scope for supply of hardware as per the document?	Configuration and maintenance of hardware required for ERP implementation
			Financial statement		F
80	3.1.5.1 2	22	generation for regulatory complianceparallel-ledger, profit-center/ cost-center/ project accounting	please clarify on generating report	Reports in formats required by GOI, GOM and MMRC
81	3.1.7.2 .1.1	25	solution integration and implementation	What document manageent system do you curerently use? Whay do you need this system to have document manageent separately?	The DMS is not yet implemented. Tender has been just released.
82	3.1.7.6 .7	28	Developing a Test Plan to support Function Testing and System/ Integration Testing and ensuring that the testing of the software is comprehensive and auditable and preparing test cases for User Acceptance Testing (UAT).	Where will the test artifacts be stored	Bidder to propose
83	3.1.7.6 .7	28	Developing a Test Plan to support Function Testing and System/ Integration Testing and ensuring that the testing of the software is comprehensive and auditable and preparing test cases for User Acceptance Testing (UAT).	Is Automation considered in functional testing or is it only manual testing	Bidder to propose

84	3.1.7.6 .7	28	On the basis of these tests, a report would be submitted by the Bidder for review and approval by MMRC. The test results and response times should be demonstrated by the Bidder during the testing phases (System, integration & Stress and Load testing)	What is the peak load expected in the application? Need this to conduct the stress/load test	No. of users have been mentioned
			Scope for Enterprise Resource planning. MMRC envisages to create robust and flexible solution which can cater to Finance Accounting & Controlling and Human Resource and Payroll	We would like to know the number of License in each area of Finance and Human Resource and Payroll. PwC would facilitate the licensing process, the actual licensing agreement would need to be entered into directly between the software suppliers and Client. All third party software / h/w responsibilities, obligations and liabilities should be directly borne by the software /ware supplier to the Client. Also the details of the existing hardware (OS, DB with versions) and scalability expected would	Pls. refer section 3.1.7.1
85	3.1 3.17.2. 5	25	Training and documentation 3.1.7.2.5.1 Training all the users 3.1.7.2.5.1 Preparation of user manuals 3.1.7.2.5.1 Training the key executives for monitoring the performance and using the reports effectively	be needed. We would like to know number of users to be trained in each Business Area including System Adminstration Training, End User Training, Technical Training . Also Do we need to provide Hard copy document of Training Manual .	Pls. refer clarification No. 66 and 30. No, hard copy is not required to be provided.
87	3.1.7.8 .3	32	Deliverables acceptance criteria	The acceptance criteria for each phase is the submission and acceptance of all deliverables specified for that phase. The formal acceptance by MMRC of the phase deliverables constitutes completion of the phase and approval	The acceptance would be given as early as possible if the activities and deliverables as completed as per SRS and FRS.

				to launch the next phase and invoice MMRC for payment. Would like to know the duration for accepatnce of each delieverable. Pls clarify	
88	3.1.7.8	32	Deliverables acceptance	Bidder is free to propose any additional deliverable, based on their experience of delivering similar projects, which can enhance the quality of work. It is expected that the project will move from one phase to the next only when the deliverables of that phase are accepted. The work and the deliverable to be frozen and pre agreed before start of the engagement to avoid any scope creep issues.	Yes. It would be finalised during SRS and FRS stage.
89	3.2	33	Integration: Bidder shall ensure seamless integration with MMRC's other applications like Project Management, Document Management/ Collaboration System, etc.based on MMRC's operations. Data from other systems/ applications should be flow to and from ERP systems based on MMRC's operations. The bidder shall ensure integration of Payment and SMS gateway, and use of digital signature (class II sign and encryption) with its proposed COTS ERP Product. Also, ERP system shall be integrated with Automatic Fare Collection system.	Pls clarify about the current systems that are proposed to integrate. Pls provide the details of the systems.	1. Project Management: Primavera 2. Document Management: Tender just released 3. SMS and Payment gateway 4. MMRCL Portal which is developed in PHP and mySQL. 5. email: MS Exchange
90	3.6	36	Project Timelines:The rollout of ERP is maximum of Six(6) months and One (1) months of stabilization period.	We request MMRC to consider extending the implementation period to at least 10 months	No Change

91	3.6	37	Project Timelines -4. Data Entry: Data Entry, digitization, and conversion of the records available in the paper files and migration of the data available in the existing databases	It was mentioned in the RFP page number 28 " 3.1.7.6.8 Data Migration Migration of data in the new system is responsibility of Bidder from the cutoff date after the date of tender allocation. MMRC along with Bidder will jointly decide on what data will be migrated and MMRC will take the responsibility of collecting and making the data available in digitized form as per the format suggested by the bidder." We assume MMRC is responsible for Data Digitisation.	Data is available in Tally and excel which the Bidder is expected to migrate. Data cleansing if required is expected to be done by Bidder so that only proper data is fed into the system. Data volume is not much. Data since 2011 available.
<u> </u>	5.0	37	databases	We request MMRC to	avallabic.
				modify the payment	
92	3.7	38	Paymont Milostono	Terms. Is deviation allowed.	No Change
92	3.7	36	Payment Milestone	Kindly clarify in detail	The application needs to
			Scope of work: Manage	about managing the	hosted on MMRC
93	3	21	application hosting	application hosting	premise by the Bidder.
0.4	3.1.5.1	22		Kindly do elaborate on	N. Cl
94	7	22		what you mean by COTS Kindly do clarify if the	No Change The existing office might
				client plans to move	get shifted to a new
				premises within the same	building in BKC. The
				city. Also we would like to	Bidder is expected to
			bidder shall be required to	understand the roles and	install the configure the
			setup and configure at no additional cost in case MMRC	responsibilities of MMRC and the bidder in such	system in the new building in case of
95	3.1.3	22	moves to different location	case.	shifting.
			Core implementation services		
		27	- AMC support for 5 years	Please clarify duration of	
		27	O&M 4 year (48 months) of	contract w.r.t. O&M. There is confusion if O&M	
	3.1.7.6		operation and maintenance	phase is for 4 years or 5	
96	.1	38	period	years.	O&M phase in 4 years
				Kindly do define the	
				timeline, criteria for	
				carrying out the trial run and the criteria to	
			Identification: trial run of	measure the correctness	To be mutually decided
			customised system with	and completeness. Would	by MMRC and the
			MMRC data and will be rolled	MMRC be testing with	Bidder. Sample data
	3.1.7.6		out to other locations post	sample data or entire	would be used for
97	.4	27	approval	data.	testing.

98	3.1.7.6 .12	29	Readiness for GO live - setting up help desk	We assume that MMRC would ensure that required infrastructure for setting up a helpdesk is available	Help desk means on site support required by end users in solving day to day queries at MMRC which shall be a part of O&M. MMRC can only provide space.
99	3.1.7.8 .4	30	The Bidder should plan for following developments as a part of the normal effort for implementing the COTS Solution	There is no list of developments (Reports/customizations) mentioned in RFP below this point. We would request that MMRC cap this requirement as it would be difficult for us to do the effort estimation.	Clause removed
10 0	3	20	Scope of work - hardware	Kindly elaborate on the scope for supply of hardware	Supply, installation and maintenance of hardware required for ERP implementation
10	3.1.5.1	22	Financial statement generation for regulatory complianceparallel-ledger, profit-center/ cost-center/ project accounting	Kindly clarify on generating report	Reports in formats required by GOI, GOM and MMRC
10 2	3.1.7.2 .1.1	25	solution integration and implementation	What document management & project management system do you curerently use? Kindly explain the need to have document management separately?	1. Project Management: Primavera 2. Document Management: Tender just released
10 3	3.2	33	Integration	Please provide technical details of all the different external solution to be integrated with.	1. Project Management: Primavera 2. Document Management: Tender just released 3. SMS and Payment gateway 4. MMRCL Portal which is developed in PHP and mySQL. 5. email: MS Exchange
3	3.2	33	Plan for customization /	integrated with.	J. email. MS Exchange
10 4	3.1.7.8 .4	30	development The Bidder should plan for following developments as a part of the normal effort for implementing the COTS Solution.	Kindly clarify – "which following" developments bidder should consider in their proposal	Clause removed

10 5	3.2	33	Integration	Kindly provide relevant technical details of these 3 rd party system that needs to be integrated with proposed ERP	1. Project Management: Primavera 2. Document Management: Tender just released 3. SMS and Payment gateway 4. MMRCL Portal which is developed in PHP and mySQL. 5. email: MS Exchange
10 6	3.7	38	Payment Milestone	We request MMRC to split payment towards Hardware / License procurement and software installation	As per RFP
10	3.7	38	Payment milestone	We request MMRC to separate out payment towards Training & Go Live	As per RFP
10 8	3.1.7.2 .4	24	Feedback, Monitoring and Adoption – engaging services of third party expertise	We request MMRC to let us know who shall bear the cost of engaging a third party expert for testing.	Bidder
10 9	3.1.7.2 .5	26	Training & Documentation	We request MMRC to let us know who shall arrange for and bear the cost of training infra like classroom, computers,	MMRC can provide room
11 0	3.2	32	Integration with MMRC's Project Management and Document Management/ Collaboration System based on MMRC's operations.	Please give details of the technology used for these systems	Project Management: Primavera Document Management: Tender just released
11 1	3.6	35	The rollout of ERP is maximum of Six (6) months and One (1) months of stabilization period.	It is very tight schedule and sounds impractical. Request please extend the duration of the project to 1 year.	No Change

			5.7 Hardware Warranty All		
			the supplied goods under this		
			RFP scope shall be new, unused, and of the most		
			recent or current models, and		
			that they incorporate all		
			recent improvements in		
			design and materials, unless provided otherwise in the		
			Contract. The supplied goods		
			under this RFP shall be free		
			from defects arising from any act or omission of the		
			successful bidder or arising		
			from design, materials, and		
			workmanship, under normal use in the conditions		
			prevailing in the country of		
			final destination. The		
			warranty from OEM shall		Clause modied as : "The
			remain valid for five years for active components		warranty from OEM shall remain valid for five
			and 20 years for passive		years for active
			component after the		components after the
			goods , or any portion thereof as the case may be,		goods, or any portion thereof as the case may
			have been delivered,	The terms "and 20 years	be, have been delivered,
11			installed, tested and accepted	for passive component"	installed, tested and
2	5.7	49	by MMRC. This performance bank	should be deleted.	accepted by MMRC.
		Page	guarantee will be for an	We request to PBG	
11		No.	amount equivalent to 10% of	should be excluding of	
3	5.4.3	48	the total contract value The warranty from OEM shall	taxes.	No Change
			remain valid for five years for		
			active components and 20		
	F 7		years for passive component		
	5.7 Hardw		after the goods, or any portion thereof as the case		
	are	Page	may be, have been delivered,	The terms "and 20 years	
11	Warran	No.	installed, tested and accepted	for passive component"	Clause modified. Pls.
4	ty	49	by MMRC.	should be deleted. The warranty from OEM	refer clarification No.114
				shall remain valid for five	
				years for active	
				components and 20 years for passive component	
				after the goods, or any	
				portion thereof as the	
				case may be, have been delivered, installed,	
11				tested and accepted by	Clause modified. Pls.
5	5.7	50	Hardware Warranty	MMRC.	refer clarification No.114

1				What are the	
				expectations from	
				Disaster Recovery Plan?	
11				Where will DR site be	
6	6.8	61	Disaster Recovery Plan	hosted?	DR not required
				Reports. There are 16	
				reports mentioned. We	
				assume these are	
				maximum reports requried. Any additional	
				reports other than this 16	
				will be considered as	To be finalized in
11		68-	Functional Requirements	Change Request. Pls	consultation with MMRC
7	6.9	FC -9	compliance-FC -9	clarify	during SRS and FRS
		70-	·		
11		FC -	Functional Requirements	Blank. Pls clarifyIs it	
8	6.9	11	compliance-FC.11.13	intentionally kept blank.	Yes
				Payroll Reports / MIS:	
				There are 16 reports mentioned. We assume	
				these are maximum	
				reports requried. Any	
				additional reports other	
		86 -		than this 16 will be	To be finalized in
11		HR-	Functional Requirements	considered as Change	consultation with MMRC
9	6.9	20	compliance-HR.20	Request. Pls clarify	during SRS and FRS
				MIS/Reporting	
				There are 6 reports	
				mentioned. We assume	
				these are maximum	
				reports requried. Any additional reports other	
		79-		than this 6 will be	To be finalized in
12		HR-	Functional Requirements	considered as Change	consultation with MMRC
0	6.9	11	compliance-HR.11	Request. Pls clarify	during SRS and FRS
			Financial Proposal Format We		
			request MMRC to be flexible		
			to amend the price bid format		
			because giving line item wise		
			and resource wise price for implementation may not be		
12			possible and more over it is		Financial Bid format
1	7.2	105	fixed bid price and time line,		revised
				We request MMRC to	
				relax this clause. IFS is	
				the leading ERP in the	
				world and have been	
			3. The COTS ERP product	ranked as leaders in	
			should be from among the	gartner's leader quadrant	
			top 5 companies in revenue as per "Total ERP software	for ERP for last 3 years. This clause is restrictive	
12	Section	Page	Revenue, worldwide, 2013-	in nature.	
2	7.2	105	2014" Gartner Report"	Hacarer	No Change

ī	l	i	I		
				We request the change in clause as follows-	
				"The COTS ERP product	
				should be in Gartner	
				Report"	
				report	
				We request MMRC to pls	
				make the capex payment	
12	Section	Page		of Icense and hardware	
3	3.7	38	Payment Milestone	on delivery	No Change
				There are many ERP	-
				products available in	
				Indian market that meet	
				MMRC's requirement	
				mentioned in the RFP.	
				However many of these Indian ERPs are not	
				enlisted in the Gartner	
				report. By insisting that	
				proposed ERP should be	
				as per Gartner report,	
				MMRC will deprive these	
				Indian yet capable ERP	
				products from even	
				participating in the	
				bidding process.	
				So we request MMRC to	
				remove the clause	
				regarding Gartner report	
				& allow the capable	
				Indian ERP products to	
				participate in your	
				bidding.	
				Rather than selecting ERP	
				merely based on the	
				Gartner report	
				(International standard),	
				based on our past	
				experience, we suggest	
				that MMRC should do	
				technical evaluation of	
				proposed ERP and in	
				doing so, MMRC should carry out technical	
			The COTS ERP product	evaluation of the bid &	
			should be from among the	proposed ERP.	
			top 5 companies in revenue		
			as per "Total ERP software	This can be done by	
12			Revenue, worldwide, 2013-	evolving technical	
4	7.2	104	2014" Gartner Report	evaluation process that	No Change

				will help MMRC to select the right bidder and the right ERP product for their ERP project. Bidder & ERP product selected by such way will have better success rate to the project and hence the suggestion.	
12			Annexure- Draft of	We request MMRC to make techno-commercial proposal submitted by bidder also a part of this	
12 6	13 Annexu re – Techni cal Specific ations	116	6 EMS Products belonging to Leaders, Challengers & Visionaries Quadrant in Gartner or equivalent Magic Quadrant for Application Performance Monitoring in Gartner Report for Q4 2013 or the 2014 Latest Report	agreement EMS is a broad area and detailed specs of EMS are not provided in Technical Specifications. It should cover all of the following work areas. It will ensure all bidders quote solution with equivalent capabilities 1 Network Management System 2 Server Performance Management System 3 Different Correlation capabilities including Topology Based Event Correlation 4 Application performance Management 5 SLA Management 5 SLA Management 6 Service Desk/helpdesk 7 Inventory and Asset	Technical Specifications modified. Pls. refer Corrigendum. Only basic Application performance management solution is required.

				Management 8 Server and Desktop Management 9 Workflow Automation 10 Log Management	
		Page	The proposed solution should support 4,000,000 concurrent		
12 7	25	No - 126	sessions & 150,000 new	Is the stated figures	Clause modified. Pls
/	25	120	connections per second	correct? Please confirm. For meetings and events, internal facilities within the office should be checked for the	refer corrigendum
				availability. Is this the availability of conference room/fixed assets like furniture etc. Please	
				elaborate the process in	
12				order to map the right module for these	For room bookings
8	AD.31	97	Admin: Events and Meetings	requirements. Do you want to handle	(internal) for meetings
				the end-to-end tendering process in system right	
				from creating RFP,	
				collaborating with prospective suppliers	
				online (tracking their response, quotes etc.,),	
				internal scoring/evaluation and	
				awarding the contract to vendor?	
				If Yes, Do you wish to provide access of your	
			If there are no empanelled	ERP system to the Prospective Suppliers	
			vendors, then the system should provide provision to	through external secure gateway in order for	
12	AD.31.	00	raise the alert for a fresh	them to respond to RFPs	No
9	6	98	tendering process	online?	No

			Concerned Vendor should be able to submit the invoice through the System, the concerned official should be able to verify the items	In order to map this requirement, please help us understand the volume of transactions, number of Suppliers and if the system should have the below capabilities as well? - Vendor Registration - Supplier Profile Management (Addresses, Sites, Contacts, Tax details etc.,) - Purchase Order Acknowledgement from Supplier - Real-time Purchase Order/Agreement visibility to Supplier - Advanced Shipment	To be finalized in
13	AD33.1 8	99	received and the items mentioned in the invoice	Notifications from Supplier	consultation with MMRC during SRS and FRS
13 1	FC.3.9	64	Should have the ability to make simulations to identify the Projects costs and Benefits using Simulation techniques and Trends analysis	We need to evaluate whether Profitability Cost management module is required	To be finalized in consultation with MMRC during SRS and FRS
13 2	FC.4.4	65	Should enable online tracking of expenditures vis-à-vis budget at any level	Do we need to push the Budget data from Planning system to ERP?	Would be in the same system
13 3	FC.8.5.	67	Should have the ability to run payment program for future date	Does this mean printing of Postdated cheques or making payment of invoices in advance (Invoices getting due on a future date)	To be discussed with successful bidder
13 4	FC.15.	72	Should have the ability to create departments / projects / functions etc. as flexible hierarchy to roll up cost	What are the costs or cost elements which are mapped to hierarchies? How the costs are rolled up and at what time? which are the Office	To be discussed with successful bidder
13 5	Genera I	Gene ral	Generic	automation desktop software's in use for 1. Spreadsheet 2. word Processing 3. Mail/ communication	MS Office, MS Exchange

1 1	Ī	Ì	1	ERP solution will be	1
				centrally deployed, Please	
				share under mentioned	
				details	
				1. total count of various	
				Static, temporary or mobile office	
				locations which will be	
				using ERP application	1. Pls. refer section
				2. Current connectivity &	3.1.7.1 : Tentative Users
				available bandwidth for	base
13	Genera	Gene	Caracia	ERP solution usages for	2. 10 Mbps leased line
6	l	ral	Generic	all above locations	and 4 Mbps broadband
				Please provide details of current	
				software/application used	
				for Document	
				Management,	
				Collaboration & Automatic	
				Fare collection Systems.	
				Also provide brief	Tender for Document
13	Genera			description of the system	Management has just
7		-	-	functionalities.	been released
				How many users for Procurement? Are they	
13	Genera			part of F&A users	Procurement module of
8	1	-	-	(25Nos?)	ERP is not in scope
					Data in Tally and Excel.
					Also since data is not
				Who would be	much, Bidder is
13	Genera			responsible for data	expected to do data cleansing where ever
9		_	_	digitization?	required.
				-	Yes, hardware
	Genera			Is hardware procurement	procurement is in
4.4	: 			in scope? If yes, any	Bidders Scope. Pls. refer
14	Infrastr ucture	_	-	particular OEM preference?	Annexure 13 for Min. Technical Specifications
U	ucture	_		Hardware AMC will be	rechinical opecinications
	Genera			managed by MMRC or SI?	
	l:			How many years of AMC	Hardware to be
14	Infrastr			should be provided in the	managed by SI. 5 years
1	ucture	-	-	proposal	on hardware AMC It is Bidders
					responsibility to host the
	Genera			Do we have to host the	application on MMRC's
	1:			application? Or will the	premises by procuring
14	Infrastr			application be hosted at	necessary hardware
2	ucture	-	-	MMRC DC/SDC?	infra
14	Genera			Expected number of Helpdesk engineers to be	To be proposed by
3	Genera I:	_	_	deployed?	To be proposed by Bidder.
		l	l .	acpiosea.	2.44011

	Infrastr				
	ucture			Con we was summent	
14	Genera I: Infrastr			Can we use current hardware available with MMRC for hosting the ERP? If Yes, can you share current available	Bidder is expected to visit the proposed server room at MMRC for the same. There is no
4	ucture Genera	-	-	infra?	hardware currently. Yes, to be proposed by
14 5	l: Infrastr ucture Genera	-	-	Do we have to provide network equipment's?	Bidder based on accessing current infra at MMRC.
1.4	1:			D h h	
14 6	Infrastr ucture	-	-	Do we have to propose a helpdesk ticketing tool?	No
14	Genera			Development need to be onsite or it may happen offshore? Kindly specify, as offsite development may happen faster than onsite development.	As proposed by Bidder.
14 8	Genera	_	Data Migration	Kindly let us know the volume/size of data need to migrate. And what are the technologies using for said application like type of database etc.	Only data from Tally and excel. Data since 2011. Volume not much.
14	Genera I	_	Sata i ligitation	How many forms will be submitted and processed in a day?	To be discussed with successful bidder
15	Genera			We request you to provide us the technical details of the existing systems from where the data has to be migrated. Details would include technology of the system, data architecture / structure, amount of data in each system (size wise) and other appropriate technical data to design our solution. We also request for a run-through of the same for better understanding	Only data from Tally and excel. Data since 2011.
0		_		and estimate	Volume not much.
15 1	Genera I	_		Integrated Bilingual methodology is needed at the Portal level only? Or it is extend up to application level?	Portal

1 1		İ	1	If It Is peeded up to	
				If It Is needed up to	
				application level then the	
				Bilingual methodology is	
				needed at the Label level	
				only? Or user needs to	
				get data entry done in	Data entry in english.
15	Genera			several languages? Kindly	Label level should be
2		_		clarify the same.	bilingual
				Does physical document	
				for data digitization also	
				contains other languages	Physical document
15	Genera			like Hindi or regional	digitization is not in
3	1			languages than English?	scope
			Should enable compilation of	Is any method followed	·
			employee numbers by grade /	for employee number	Yes, it shall be shared
15	HR.1.1		function / role band at any	generation in your	with the Bidder during
4	1	72	given time	organization currently?	implementation phase.
	-		J	Should be able to create	promote pridoci
				the various business	
				groups like Package wise.	Package in the context
			Should be able to create the	Please elaborate?	of metro rail
15	HR.1.1		various business groups like	Clarification required on	construction contracts
5	4	72		"Package Wise "	being awarded.
5	7	12	Package wise		being awarded.
				Currently do you follow	
				any automatic generation	
				routines for PF numbers	
				and Employee numbers?	
1				Would you like to have	
15	HR.3.2			automatic PF Number	To be discussed with
6	0	73	PF number	generation facility	successful bidder
				How is the HR data	
				maintained currently? Do	
				you have any system in	
				place? How is payroll	
				processed today? Which	
			Should be able to maintain	system or product is used	
15			employee information	today for payroll	
7	HR.3.1	73	including:	processing	Tally and Excel.
			Should be capable of		
			maintaining data on		
			continuous basis without		
15	HR.3.3		purging and without affecting	Do you follow any data	
8	5	74	system performance	retention Policy today?	No
				Employee self-service	
15			Self Service (Employee /	users count? Employee	
9	HR.6.1	75	Manager)	strength	200
				Do we have schedule	
				based working hours or	
				Normal working hours for	
				all employees? Do we	
16			Employee Time Management	have scenario for Shift	Normal working hours
	⊔D ∕I	75	Employee Time Management,		Normal working hours
0	HR.4	75	Leave, and Attendance	Based Working Schedule?	only.

				Should system able to	
			The system should Provide	reassign or delegate	
1			workflows. Accommodates	approval notification to	
16	HR.6.1	7.0	multiple levels of review and	anyone else within the	.,
1	1	76	approval	organization?	Yes
1.0			Should be able to record	How many appraisals	
16 2	LID E 1	76	employee performance	cycle do you follow in a	
	HR.5.1	76	appraisals Should be linked to	year? Do you have data for	1
16			competence and skills of the	competency and skills of	
3	HR.5.4	76	employee	employees?	Yes
	111(.5.1	/	Ciripioyee	How deputation and	163
			The system should have the	repatriation different from	
16	HR.10.		ability to handle deputation to	normal employment in	
4	3	77	and from other organizations.	your organization?	As per Govt. rules
				What time of retirement	
16			Should be able to handle	benefits given to	
5	HR.8.7	77	after Retirement benefits	employee currently?	As per Govt. rules
				Provide all t third Party or	
				in-house system with	
				which you want HR	
16				system to integrated/	
6	HR.13 HR.15.	79	Integration	interfaced.	Tally and portal
16 7	18, HR.15. 19, HR.15. 21, HR.15. 24, HR.15.	81	Basic/ Leave Encashment/ Joining Bonus, Special Pay/ Allowance/ Personal Pay, House Rent Allowance, Children's Education Allowance, All Loans & funds	Are these the only allowances? Can you provide us the entire list of allowance and deduction?	To be finalized in consultation with MMRC during SRS and FRS
				Do you need to store	J
16	HR.16.		Dependent info, CEA,	contact information e.g.	
8	11	82	Class/Hostel info, etc.	Emergency Contact?	Yes
16 9	HR.15. 77	83	Should have a report generated before posting of salaries at month end. This would ensure that the system allows checking of data prior to posting	What are distribution method for all the reports?	Should be available online
17 0	HR.19. 10	85	The system should Post salary payment advice including multiple payment methods such as bank, cash and cheque to General Ledger	What is the mode of Payment to employees like Bank, Cheque or Cash or do you require all.	All
17 1	HR.31. 2	97	Should be able to provide flexible budget hierarchy to define budgeting level	How are approvals done today , do you follow supervisor hierarchy or do you follow position	To be finalized in consultation with MMRC during SRS and FRS

				hierarchy or any other ad hoc hierarchy	
17 2	Sub- contrac ting	Page No:- 9 Page No. 103	Page No:- 9 The consortium, joint venture, subcontracting & outsourcing are not allowed. Page No:- 103 We undertake not to sub contract the work of more than 25% of the total value of the Contract.	Both are contradictory statement. Is sub-contracting allowed? Please confirm.	Consortium of max. 2 members is now allowed. Sub Contracting is not allowed
17	, and the second			Referring the RFP, we see there are requirements for Reports & Dashboards for Financials & HR. Is there is any KPI which MMRC will be interested	Ex.s like Time overrun,
3	-	-	-	in?	Cost overrun etc
17 4					
17 5	-	-	-	How many reports and dashboards are in scope in each functional area?	To be finalized in consultation with MMRC during SRS and FRS
17 6	-	-	-	Is there a requirement of Single Sign on in BI with any other application?	No
17 7	-	-	-	Is there a requirement of BI Project Start Date with the EBS?	No
17 8	-	-	-	If we are proposing Oracle, what is the BOM proposed by Oracle?	Invalid query
17 9	-	-	-	Is the BI project implementation at client place?	Yes
18 0	-	-	-	Adhoc reporting of BI will cater to what section of audience?	Top Management
18 1		43		Do we need to provide infrastructure Monitoring tool?	No
18 2	-	-	-	What is the Budgeting Forecasting cycle?	To be discussed with successful bidder
18	-	-	-	Do we need to refresh actuals in Planning from ERP?	To be discussed with successful bidder
18 4	-	-	-	How many years of historical period planning data to be loaded in the system?	Since 2011

18				Does Multi currency	To be discussed with
5	-	-	-	planning required?	successful bidder
				Do you have any unions	
18				attached with your	
6	-	-	-	Organization?	No
				How many legislation are	
				involved with respect to	
				this project (Need to	
				implement - Looks like in	
18				India only or expected in	
7	-	-	-	future)?	India only.
				How many years of	·
				history data do you have	
18				and need to be converted	since 2011. Volume not
8	_	_	_	and what is the volume.	much.
					Once every Quarter. To
					be finalized between
18				How many trainings are	MMRC and successful
9	_	_	_	conducted in a year	Bidder later.
				How many recruitment	
19				drive are conducted in a	As per MMRC's
0	_	_	_	Year	requirement
				How many different types	- 1
				of selection process do	
19				you have? Please	To be discussed with
1	_	_	_	elaborate?	successful bidder
				We had earlier requested	Successiul Siddel
			The bidder should have	for Rs.20 Crore as the	
			average turnover of INR 30	turnover.	
			Crores in last 3 Financial	Alternatively BAeHAL is a	
			Years(12-13,13-14,14-15) as	JV of BAE Systems -	
			on 31st Mar 2015 from	40%, HAL-49% and	
			IT/ITES;	Employee Trust-11%.	
			Copy of the audited Profit &	In view of these, we	
			Loss Statement	propose HAL turnover be	
			of the company duly	considered and allow us	
19	2.21		certified by statutory	to participate in the bid.	
2	PQ2	16	auditor	Please confirm.	No Change
<u> </u>	٠ - ٧ -			Request to extend the	c.iange
				duration till 31.12.2015	
	1.1 Key			as we need minimum 30	
	Events		Last date(deadline) for	days for preparing the bid	Last date of submission
19	and		Submission of bids.	from the date of above	has been extended to
3	dats		17/12/2015 till 5.00 pm	clarifications	30.12.2015
	340		,,,	Please specify if there	
	Section		Data from other systems/	any specific standards	
	- 3.2 -		applications should be flow to	Features & Protocol	System should be able
19	Integra		and from ERP systems based	requirements from the	to support all standard
4	tion	32	on MMRC's operations.	Integration Layer.	API's and connectors
	J. U				

19	Section - 3.2 - Integra		The bidder shall ensure integration of Payment and SMS gateway, and use of digital signature (class II sign and encryption) with its proposed COTS ERP Product. Also, ERP system shall be	Request MMRC, to elaborate on any other systems besides the one mentioned in the RFP document that we need to take into consideration from the Integration	1. Project Management: Primavera 2. Document Management: Tender just released 3. SMS and Payment gateway 4. MMRCL Portal which is developed in PHP and mySQL.
5	tion	32	integrated with AFCS.	perspective.	5. email: MS Exchange
19	Section - 3.2 - Integra tion	32	The bidder shall ensure integration of Payment and SMS gateway, and use of digital signature (class II sign and encryption) with its proposed COTS ERP Product. Also, ERP system shall be integrated with AFCS.	Please provide typical volume of messages that would pass through this layer inclusive of all the applications. These are required for sizing purposes.	No. of users have been mentioned
			The bidder shall ensure		
19 7	Section - 3.2 - Integra tion	32	integration of Payment and SMS gateway, and use of digital signature (class II sign and encryption) with its proposed COTS ERP Product. Also, ERP system shall be integrated with AFCS.	Could you please elaborate on technology details of AFCS (Automated Fare collection System) & also message Formats and Message size.	Automatic Fare Collection Module to come up only at the time of operationalization of Metro.
19	Section - 3.2 - Integra tion	32	The bidder shall ensure integration of Payment and SMS gateway, and use of digital signature (class II sign and encryption) with its proposed COTS ERP Product. Also, ERP system shall be integrated with AFCS.	Hosting of the Integration Layer and ERP application. Please provide it would be State Data Center or any other Private Datacentre or in- house data centre	In house Server room in MMRC premise
19	Section - 3.2 - Integra tion	32	The bidder shall ensure integration of Payment and SMS gateway, and use of digital signature (class II sign and encryption) with its proposed COTS ERP Product. Also, ERP system shall be integrated with AFCS.	Request MMRC to clarify, where would other applications asked for Integration in this RFP expected to be hosted.	No. only ERP.
20 0	Section - 3.7 - Payme nt Milesto nes	38	Payment milestones are based on % of Total project cost (TCO) that includes supply of licenses, Hardware, Installation, support and AMC charges of O&M 4 year (48 months) of operation and maintenance period	As discussed in pre-bid conference on 27th Nov 2015, request MMRC to split payment terms into separate structures such as for supply of licenses, supply of Hardware, implementation and AMC charges of O&M period	No Change

ı	1	1	Should support real Time		
			Posting from Sub Ledgers to	Please explain why MMRC	
20	FC.1.2	62/6	General Ledger and without	want to not use this	Posting is required on
1	0	3	the process of schedule	flexibile feature.	real time basis
			Should enable preparation of		
			consolidated Budget Book for		
20	FC.3.1	64/6	the MML-3 and various levels	Please explain the details	To be discused with
2	5	5	with detailed break-ups.	of MML-3 budget book	Successful Bidder
				Please explain the	
			Should allow linking of many	concept of group	
20	FC.5.2	65/6	Bidders to capture group	exposure to many	One Group contains
3	1.	6	exposure/transaction volume	bidders.	more than one Bidder
			Should allow defining		
			parameters to determine		
			whether default master data information can be changed		
			during processing and		
			changes are allowed only	Why master data should	
			based on this. The same can	be changed based on the	
20		66/6	be done only based on	information in the	
4	FC 6.8	7	authorization.	transactions	As per requirement
				Keeping Pilot roll out by	
				6th month end, rest	
				phases can be proposed	
				by bidder appopriately	
				keeping deliveable same	
				before Go live of the	
				project. By the end of	
				2nd month, solution design sign off, Data	
				entry by the end of 5th	
				month and rest same as	
				suggested keeping 6	
				month implementation	
				time.	
				Operation and	
				Maintenace phase to be	
				started post one month	
	Section		T 6555	of user adoptiop period	
	n 3.6/		The rollout of ERP is	post the day of user start	
20	Project timelin	Dage	maximum of Six(6) months and One (1) months of	doing transaction in the	
5	es	Page 36	stabilization period.	live(production) environment.	As per RFP
	CS	50	Stabilization period.	Bidder popose payment	7.5 pci Ki i
				against each milestone	
				as per OEM suggested	
				phase:	
	Section			Project preparation	
	n 3.7/			phase sign off: 10%	
	Payme			2) Hadware licence	
	nt	_		pocurement- 30%	
20	Milesto	Page		3) Solution Design Phase	
6	ne	38	As per table at page 38	sign off: 20%	As per RFP

			4) Completion of UAT: 10% 5) Training and Go live- 10% 6) 20% of total poject cost in equal 48 equated monthly installments	
			We request the addition of the following Limitation of Liability clause, this clause is standard in Indian contracts, and as per Indian Contract Act, the parties are liable for proportionate and reasonable direct damages. Other forms of damages which are remote and consequential are to be considered to be excluded.	
			"Other than Owner's obligations to make payments that are due and owing under the Contract, Contractor's aggregate liability in respect of all claims arising out of the Contract by way of indemnity, tort, breach of a warranty (if any) or otherwise including without limitation on account of performance or non-performance of obligations hereunder, regardless of the form of the cause of action,	
20 7	Additi onal Claus e	Additional clause to be incorporated under General Conditions of the Contract of the RFP Document.	whether in contract, tort (including without limitation negligence), statute or otherwise, shall in no event exceed the total amount paid or payable by the Owner to the Contractor under the Contract during the	No Change

twelve (12) month period prior to the date the liability first arose.

The Parties shall only be liable for direct damages. The Parties shall not be liable for any indirect, incidental, consequential, special or punitive damages in any cause of action arising under, out of, in relation to or in connection with the Contract (including tort), its negotiation, performance or termination. Either party shall also not be liable for loss of profits, data, revenue, business, savings (real or anticipated), data loss of and cost of reconstituting data from last backup.

If Contractor provides (or on the instruction of the Owner on the basis of any requirement, works upon or has access to) any third party hardware/ software, the terms of usage of such third party hardware/ software as provided by the owner/ licensor of such hardware/ software will be applicable. The ownership of such hardware/ software will remain with the third party. Any liability arising due to use of any third party hardware/ software shall be with the respective third party."

					Applicable during
					implementation phase. Clause has been relaxed.
					The clause to be read as
					: "In case, replacement
					is required, the Selected
					Bidder shall notify MMRC
					in writing at least 30
					(Thirty) days in advance, for prior approval,
					stating: the reason for
					replacing the person(s),
					originally assigned to the
			CV of key resoruces need to	To this continue to only to	project the names and
			submitted and cannot be changed - resoruces if	Is this applicable only to implementation phase	signed curriculum vitae (CV)of the proposed
20			changed leads to	alone or even during	replacement having
8	3.4	3.4	disqualification	support?	equivalent credentials."
			40% of Total project cost To be paid in 16 Equated		
			Quarterly instalments (every		
			three months) during O&M 4		
20	3.7(5)		year (48 months) of	We propose to bill	
20 9	, Pg 37	37	operation and maintenance period	monthly payment, instead of quaterly milestones.	No Change
9	37	37	If the Contract is terminated	or quaterry fillestories.	No change
			pursuant to GCC Clause		
			5.12.1 (10) or 5.12.2,		
	5.13.2		remuneration for Services satisfactorily performed prior	We propose for a termination fee, which	
21	, Pg		to the effective date of	will be mutually discussed	
0	51	51	termination.	between both the parties.	No Change
24	115.40	115.4		Can you provide a use	System should have
21 1	HR.19. 11	HR.1 9.11	Should have provision to	case ? Is "check" equivalent of a payslip?	provison to issue
1	11	7.11	issue third party checks - Should have the capability of	equivalent of a payship ?	cheques
			providing functionality to the		
			employees of a bill payment	We assume this is	
21	UD C 2	HR.6.	system which would also	equivalent to expense	Voc
2	HR.6.2	2	include reimbursements.	reports . Correct ? Qualification criteria	Yes
				mention for Application	
				and database server,	
				database, storage,	
	13 -			switches and routers, are Top 4 vendors as per	
	Annexu		11 - Server Load balancer -	Gartner or equivalent ,	
	re –		Products belonging to	Hence request you to	
	Techni		Leaders & Visionaries	change qulification	
	cal		quadrant in Q4 2013 or the	criteria for Server Load	Tochnical Chasifications
21	•			-	
3	117		Application Delivery Control	Gartner or equivalent	Corrigendum
21	Specific ations /		2014 Gartner's Magic Quadrant Report for	balancer also as "Top 4 Vendors as per	Technical Specifications modified. Pls. refer
	/	l	Application Delivery Control	-araici or equivalent	Saringeriadini

				for Application delivery controllers"	
21	13 - Annexu re – Techni cal Specific ations /117	117	10 - Link Load balancer - Products belonging to Leaders & Visionaries quadrant in Q4 2013 or the 2014 Gartner's Magic Quadrant Report for Application Delivery Control	Qualification criteria mention for Application and database server, database, storage, switches and routers, are Top 4 vendors as per Gartner or equivalent, Hence request you to change qulification criteria for Link Load balancer also as "Top 4 Vendors as per Gartner or equivalent for Application delivery controllers"	Technical Specifications modified. Pls. refer Corrigendum
21	Core Switch Specific ation / Page No. 120	120	Shall have minimum 8 payload slots and 2 CPU for redundancy	As per our understanding about the requirement, we recommend to ammend the clause as "Shall have minimum 6 payload slots and 2 CPU for redundancy"	Technical Specifications modified. Pls. refer Corrigendum
21	Core Switch Specific ation		Recommendations	Switch should support 40 G and 100 G interface Line cards from Day1	Technical Specifications modified. Pls. refer Corrigendum
21	Core Switch Specific ation / Page No. 121 Core	121	Chassis shall support - Minimum 384 Gigabit ports - Minimum 64 Nos. of 10-Gig non-blocking ports.	Request to ammend the clause as Chassis shall support - Minimum 200 Gigabit ports - Minimum 68 Nos. of 10-Gig non-blocking ports.	Technical Specifications modified. Pls. refer Corrigendum
21 8	Switch Specific ation / Page No. 122	122	Switch should be EAL 3+ or higher certified	Switch should be EAL 3+ / NDPP or higher certified	Technical Specifications modified. Pls. refer Corrigendum

21	Annexu re 13 Point No 6 EMS / Page No. 117	117	Products belonging to Leaders, Challengers & Visionaries Quadrant in Gartner or equivalent Magic Quadrant for Application Performance Monitoring in Gartner Report for Q4 2013 or the 2014 Latest Report	Although it is mentioned that EMS product needs to be in Gartner or equivalent Magic Quadrant, the specifications for the products is not provided. Request you to add the below specifications for EMS so as to set a benchmark for performance.	Technical Specifications modified. Pls. refer Corrigendum
22		Additi onal Requi reme nt		Application Performance Monitoring End to end Management of applications (J2EE/.NET based) with deep-dive diagnostics	No Change
22 1		Additi onal Requi reme nt		Determination of the root cause of performance issues whether inside the Java / .Net application in connected back-end systems or at the network layer.	No Change
22 2		Additi onal Requi reme nt		· Automatic discovery and monitoring of the web application environment and ability to monitor applications with a dashboard.	No Change
22		Additi onal Requi reme nt		Should have capability to monitor the third-party applications without any source code change requirements. Proactive	No Change
22 4		Additi onal Requi reme nt		monitoring of all end user transactions; detecting failed transactions; gathering evidence necessary for problem diagnose.	No Change
22 5 22		Additi onal Requi reme nt Additi		 Monitoring of application performance based on transaction type. The solution must 	No Change
6		onal		be able to scale to reflect	No Change

1 1	l Dogui	l i	noufoumance and	
	Requi		performance and	
	reme		availability from many	
	nt		geographical locations	
			where business services	
			are accessed without a	
			significant increase in	
			solution	
			 Should drill down 	
			from slow, end-user	
			transactions to the	
			bottlenecked component,	
	Additi		method or SQL	
	onal		statement, helping to	
	Requi		solve memory, exception	
22	reme		and other common	
7	nt		problems	No Change
			· Should	<u> </u>
	Additi		automatically detect all	
	onal		components touched by a	
	Requi		business process across	
22	reme		layers and traces them	
8	nt		with no user intervention	No Change
	Additi		· Should display the	110 Change
	onal		detailed call-tree that	
	Requi		pinpoints the exact slow	
22	reme		method within method	
9	nt		call stack	No Change
9	Additi		Call Stack	No change
	onal			
			. Chould support	
22	Requi		· Should support	
23	reme		J2EE, .NET, SAP, SOA or	No Change
0	nt		Siebel Applications	No Change
			Network Performance	
			Monitoring	
	A 1 1911		The NMS must	
	Additi		allow immediately	
	onal		determining the impact of	
	Requi		a component failure and	
23	reme		thus helping in prioritizing	-
1	nt		problem-solving efforts.	No Change
			 The NMS should 	
			provide very powerful	
			event correlation engine	
			and thus must filter,	
			correlate & process, the	
			events that are created	
			daily from network	
			devices. It should assist	
	Additi		in root cause	
	onal		determination and help	
	Requi		prevent flooding of non-	
23	reme		relevant console	
2	nt		messages	No Change
	ı		~	-

1	ı i	1	1		
				 Polling intervals 	
				should be configurable on	
		Additi		a need basis through a	
		onal		GUI tool, to ensure that	
		Requi		key systems are	
23		reme		monitored as frequently	
3		nt			No Chango
3		Π		as necessary.	No Change
				The topology of	
				the entire Network	
		Additi		should be available in a	
		onal		single map along with a	
		Requi		Network state poller with	
23		reme		aggressive/customizable	
4		nt		polling intervals	No Change
-				· The NMS	rto change
		Additi		performance system must	
		onal		provide out-of-the-box	
		Requi		and highly customizable	
23		reme		reporting across the	
5		nt		network domain.	No Change
				· The Network	
				performance operator	
				console should provide	
				operators with seamless	
				transitions from fault data	
				to performance reports	
				and back. For example -	
		Additi		select a node in NMS	
		onal		fault mgmt system and	
		Requi		cross launch it for	
23		reme		historical and near real	
6		nt		time data.	No Change
		Additi			
		onal		· Should have MIB	
22		Requi		browsing, MIB loading,	
23		reme		and MIB expression	N C
7		nt		collection features.	No Change
		Additi			
		onal		 NMS should be 	
		Requi		cloud ready, should have	
23		reme		dynamic Root Cause	
8		nt		Analysis capability	No Change
<u> </u>		Additi		· NMS should have	
		onal		Global Management	
1 22		Requi		capability, where in it can	
23		reme		work in distributed	
9		nt		environment.	No Change
		Additi			
		onal			
		Requi		· NMS should	
24		reme		support application based	
0		nt		failover over the WAN.	No Change
		TIL		TAHOVEL OVEL LITE VVAIV.	110 Change

24	Additi onal Requi reme nt	NMS should have support for SNMPv3 & IPv6, including dual-stack IPv4 & IPv6 to provide flexibility in protocol strategy and implementation.	No Change
1	TIL	· It should support	No Change
		discovery of virtual	
		switches and contexts.	
		Virtual switches and virtual contexts, like Cisco	
		FSWM and Cisco ACE	
		contexts, should be	
	Additi	discoverable from their	
	onal	physical hosted system,	
24	Requi	especially when they are	
24	reme nt	added and removed, for full network visibility.	No Change
	 Additi	Tall Fictivork visibility.	No change
	onal	· Network	
	Requi	Performance reporting	
24	reme	tool must provides the	
3	nt	following capabilities:	No Change
		Server Monitoring Should offer service	
		driven operations	
		management of the IT	
		environment to manage	
	Additi	distributed,	
	onal	heterogeneous systems -	
24	Requi	Windows, UNIX & LINUX	
4	reme nt	from a single management station.	No Change
•	110	Should provide a	No change
		centralized point of	
		control with out-of-the-	
		box policy-based	
		management intelligence	
		for easy deployment for the servers, operating	
		systems, applications and	
	Additi	services for correlating	
	onal	and managing all the IT	
	Requi	infrastructure	
24	reme	components of a business	No Chango
5	nt	service The system must be	No Change
	Additi	agent based for	
	onal	managing the nodes and	
	Requi	have the capeability of	
24	reme	storing events / data	
6	nt	locally if communication	No Change

ı	 ĺ	•		1
			to the management	
			server is not possible due	
			to some problem. This	
			capability will help to	
			avoid loosing critical	
			events.	
			EMS must support the	
			backup server concept,	
			which enables switching	
			management	
			responsibility from one	
	Additi		management center to	
	onal		another in case of system	
	Requi		failure. This eliminates	
24	reme		single points of failure in	
7	nt		the management system	No Change
			The System Should have	·
			automated service	
			discovery, policy	
			deployment and actions	
			to enable busy IT	
			personnel to focus on	
			more strategic initiatives	
			and manage business-	
			critical application	
			services from the end-	
			user perspective, and to	
	Additi		be immediately aware of	
	onal		the business impact of	
	Requi		lower level component	
24	reme		failures or performance	
8	nt		degradations	No Change
	_		Complex dependencies	
			between managed	
			elements must be	
			captured, allowing IT	
	Additi		management staff to	
	onal		interpret lower level data	
	Requi		in terms of its importance	
24	reme		to the higher-level	
9	nt		service.	No Change
			An advanced real-time	•
			status propagation	
			mechanism in the	
			Services view must	
			allows IT management	
			staff to immediately	
			determine the impact of a	
	Additi		component failure on the	
	onal		overall application	
	Requi		service. Problem-solving	
25	reme		efforts can then be	
0	nt		prioritized.	No Change
				J -

			Alarms with meaningful	
	Addit	ti	message text, instruction	
	onal		text, operator / automatic	
	Requ	ıi 📗 📗	actions / linked graphs,	
25	reme		duplicate message	
1	nt		suppression	No Change
			There should be a single	
			agent on the managed	
			node that provides the	
			system performance	
			data, and for event	
			management it should	
			be able to prioritize	
			events, do correlation &	
	Addit	±:	duplicate suppression	
	onal		ability to buffer alarms and provide automatic	
	Requ		actions with capability to	
25	reme		add nessacary	
2	nt		annotations	No Change
	113		The solution should	J -
			provide a single pane of	
			glass for IT availability,	
	Addit	ti	event and performance	
	onal		management, providing a	
	Requ		consolidated view across	
25	reme	e	all system, network and	
3	nt		application events.	No Change
			The system must support	
	Addit	+:	multiple built in discovery mechanisms for eg:	
	onal		Active Directory,	
	Requ		Windows Browser, DNS	
25	reme		with capability to discover	
4	nt		and services discovery	No Change
			The Discoverd services	
			should be displayed in	
			service dependency maps	
			automatically for	
			consolidating different IT	
			management views into a	
	Addit		single workbench, which	
	onal		ensures the health of	
25	Requ		end-to-end IT services across IT infrastructure	
5	reme nt	=	and domains	No Change
	IIL		Highly scalable, and can	TWO CHAINGE
			manage in excess of 1000	
	Addit	ti	managed nodes from a	
	onal		single server with ability	
	Requ		push deployment of	
25	reme		agents and monitoring	
6	nt		policies to a variety of	No Change

			heterogeneous platforms enabling fast and controlled roll out and maintenance	
25 7	Additi onal Requi reme nt		The agents should be extensible and customizable allowing incorporation of any required monitoring source not included in the extensive out-of-the-box monitoring policies. With Capabilites to collect and analyze performance data from the operating system and installed applications and use historical patterns to establish performance baselines.	No Change
25 8	Anne xure 13 Point No 7 Disas ter Mana geme nt Softw are / Page No. 117	Products belonging to Leaders & Challengers Quadrant in Q4 2013 or the 2014 Gartner Magic Quadrant or equivalent for Backup/Recovery Software or latest	Although it is mentioned that DRM product needs to be in Gartner or equivalent Magic Quadrant, the specifications for the products is not provided. Request you to add the below specifications for so as to set a benchmark for performance.	Technical Specifications modified. Pls. refer Corrigendum
25 9	Additi onal Requi reme nt		The proposed solution must offer a workflow based management& monitoring capability for the real time monitoring of a DR solution parameters like RPO (at DB level), RTO, replication status and should provide alerts on any deviations	No Change
26 0			The proposed solution should provide a single dashboard to track DR Readiness status of all the applications under DR	No Change

		The proposed solution should be capable of reporting important health parameters like disk space, password changes, file	
		addition/deletion etc to ensure DR readiness and	
		facilitate policy based	
26		actions for events with ability to cancel out polar	
1		events.	No Change
		The proposed should	
		have inbuilt ready to use library of recovery	
		automation action for	
		heterogeneous databases	
		and replication environment. This must	
		significantly reduce	
		custom development of	
		scripts and speedy	
26 2		deployment of DR solutions.	No Chango
		The proposed solution	No Change
		should facilitate out-of-	
		the-box, workflow	
		basedswitchover and	
		switchback for DR drills for standard applications	
26		based on industry best	
3		practices	No Change
		The proposed solution	
		should be capable of	
		doing executing drill/recovery workflows	
		in dry-run mode, without	
		causing any failover,to	
26		ensure conditions are met	
26 4		to ensure a successful DR Drill	No Change
•		The proposed solution	
		should facilitate	
		workflows for bringing up	
		the applications and all the components it	
		depends on at DR while it	
		is up at primary site	
26		without pausing/stopping	N. Cl
5		the replication	No Change

26		The proposed solution should have granular, role based administration and should use existing Active Directory/LDAP for identity management without the need of its	
6		own, separate identity management database.	No Change
26		The proposed solution should be capable of generating reports and email/SMS alerts on RPO deviation, RTO deviation and DR Drills from a	
7		centralized location The proposed solution should be able to manage hostsby either deploying agents or without deploying any agent and should seamlessly integrate with existing environment without the need to replace/change	No Change
26 8		configuration including existing clusters.	No Change
26		The proposed solution must support all major platforms including Linux, Windows, Solaris, HPUX, and AIX with native high availability options. It must support both physical and virtual	
9		platforms. The proposed solution should have file level replication for associated application servers and DB log replication which is supported on the commonly used OS	No Change
27 0		platforms and has inbuilt bandwidth compression.	No Change

27 1	Appli catio n Serve r /Web Serve r, Page No. 119 SI. No. 1, & 2	Minimum Intel® Xeon® 4600 series Processor 8 Core, 15MB Cache, 2.4 GHz. Populated with 2 Nos. of CPU and scalable to 4 CPU. If other than Intel platform is proposed then the server performance should be supported with TPCC/SPEC/SAP benchmark reports and also OEM certified reports can be given for the proposed server along with a comparison with minimum proposed server.	HDD and also share the required RAID type. 3. Is there HBA card required? If Yes what would be the number of ports and capacity of HBA i.e 8Gbps or 16 Gbps. also share the number of HBA card required on the single server. 4. The number of ethernet port is not asked so please share the required number of ethernet ports. The asked spec is not sufficient, please share the inputs on below points: 1. Intel Xeon 2600 v3 series does not come with 2 core. The core must be atleast 4 core.	Technical Specifications modified. Pls. refer Corrigendum
	A Data base Serve rs/ Appli catio n Serve r /Web Serve r, page no.11	Minimum Intel® Xeon® 2600 series Processor 2 Core, 15MB Cache, 2.0 GHz. Populated with 1 Nos. of CPU, scalable to 2. If other than intel platform is proposed then the server performance should be supported with TPCC/SPEC/SAP benchmark reports and also OEM certified reports can be given for the proposed server along	2. How many RAM is required? 3. What would be the capacity and quatity of HDD and also share the required RAID type. 4. Is there HBA card required? If Yes what would be the number of ports and capacity of HBA i.e 8Gbps or 16 Gbps. also share the quantity of HBA card required on the single server. 5. The number of ethernet port is not asked so please share the	Technical Specifications

1	Ì	140	ı	1	İ
		13 Anne			
		xure			
27 3		Tech nical Speci ficati ons page No. 118	3 Storage Top 4 Vendors, as per Gartner or equivalent Total Disk Storage Systems Factory Revenue, Q4 2013 Systems Tracker or the 2014 Year Report or latest	The storage spec is not asked in the whole RFP, so please conform its required or not for this project. If storage is required so please confirm about SAN switch quantity and spec.	Technical Specifications modified. Pls. refer Corrigendum
27 4		13 Anne xure Tech nical Speci ficati ons page No. 118	7 Backup/Recovery Software (Disaster Management Software) Products belonging to Leaders & Challengers Quadrant in Q4 2013 or the 2014 Gartner Magic Quadrant or equivalent for Backup/Recovery Software or latest	How does the backup to be taken? I would be the client based or capcity based? If it is on capacity based then share the capacity details. If on client based then share the number of clients that would be backed up. Backup Server, antivirus and Tape spec is not mentioned in the RFP. So please share the spec for the same.	Technical Specifications modified. Pls. refer Corrigendum
27	Append ix - Techni cal Specific ations (page 117)	117	Application & Database Servers - Top 4 Vendors as per Gartner or equivalent Server Systems by Factory Revenue, Full Year 2013 or Year 2014 Server Tracker or latest	@Application & Database Servers - Vendors in Gartner's leaders or Challenger's quadrant or equivalent Server Systems by Factory Revenue, Full Year 2013 or Year 2014 Server Tracker or latest	Technical Specifications modified. Pls. refer Corrigendum
27 6	Append ix - Techni cal Specific ations (page 118)	118	Specifications for A: Database Servers/ Application Server /Web Server	Request you to include some minimum technical specifications for servers. This would bring parity in terms of the solution offered by different OEMs and would also ensure that MMRC gets the best of breed solution with latest feature functionality	Technical Specifications modified. Pls. refer Corrigendum
27 7	Append ix - Techni cal Specific ations (page	119	Minimum back-plane capacity of 72-Gbps & forwarding performance of 51 Million packets per sec of 64 bytes packet. The performance is considered with IPv4 & IPv6	Router should have a minimum throughput of 5 Gbps. The Router should have minimum forwarding rate of 1 Mpps. 72 Gbps and 51 Mpps	Technical Specifications modified. Pls. refer Corrigendum

	119); Specific ations for B : Core Router			seems to be a extremely large performance number. Request you to change the same	
27 8	Append ix - Techni cal Specific ations (page 119); Specific ations for B: Core Router	119	Should have 2 X 10 GE- SR and Minimum 8 X 1 Gig Ports and 8 SFP based ports with SX trans-receivers.	Request you to remove this clause. Request you to provide the flexibility of including the interfaces as per the solution designed by Sis. Ideally so many 1G interfaces will not be required on Core Router and it should have 10G interfaces for 10G backbone connectivity	Technical Specifications modified. Pls. refer Corrigendum
27	Append ix - Techni cal Specific ations (page 119); Specific ations for B: Core Router	119	IPv6 features: VRRPv6	Request you to remove this specification. VRRPv3 supports both IPv4 and IPv6. Request you to add support for VRRPv3 instead	Technical Specifications modified. Pls. refer Corrigendum
28 0	Append ix - Techni cal Specific ations (page 120); Specific ations for B: Core Router	120	Should support at-least 128 K MAC addresses	Should support at-least 32 K MAC addresses. Request you to ask support for 32K MAC addresses only. 128K support for MAC addresses is not required in an environment like that of MMRC. Also the router capacity should ideally be defined by the throughput/MPPS rating and the number of routes it can support. Asking for MAC support of 128K addresses in a Core router is not justified as it is anyways the switch	Technical Specifications modified. Pls. refer Corrigendum

				which performs IP to MAC resolution.	
				resolution.	
	Append				
	ix - Techni				
	cal				
	Specific				
	ations				
	(page				
	120);				
	Specific			_	
	ations			Request you to remove	
	for B:			this specification.	Tachnical Chacifications
28	Core		Should support 15 logical	This is proprietary to single OEM. Request you	Technical Specifications modified. Pls. refer
1	Router	120	routers	to remove the same	Corrigendum
_	Append				
	ix -				
	Techni				
	cal			Request you to remove	
	Specific			this specification.	
	ations (page			Virtual Private LAN Service (VPLS) is a way	
	120);			to provide Ethernet-based	
	Specific			multipoint to multipoint	
	ations			communication over IP or	
	for			MPLS networks. 2K	
	®B:			seems to be a large	Technical Specifications
28	Core		Should support 2 K VPLS	number. Request you to	modified. Pls. refer
2	Router	120	instances	change it to 1K.	Corrigendum
	Append ix -			Router / Router's Operating System should	
	Techni			be tested and certified for	
	cal			EAL 4 or above or NDPP	
	Specific			certified.	
	ations			EAL4 is a higher level of	
	(page			certification so request	
	120);			you to include the same.	
	Specific			Also EAL will now be	
	ations for			replaced with NDPP certifications. Hence	
	™ B :			request you to add	Technical Specifications
28	Core		Router should be EAL 3+ or	support for NDPP	modified. Pls. refer
3	Router	120	higher certified	certification as well	Corrigendum

28 4	Append ix - Techni cal Specific ations (page 119); Specific ations for B: Core Router	119	Sender Policy Framework Protocol (SPF)	Request you to remove this specification. Sender Policy Framework (SPF) is a simple emailvalidation system designed to detect email spoofing by providing a mechanism to allow receiving mail exchangers to check that incoming mail from a domain comes from a host authorized by that domain's administrators. This functionality can be achieved using an IPS appliance or email security gateway appliance. Moreover this feature functionality is not required at the router level where we are going to terminate internet link for Public wifi services. Loading the router which such features would affect the performance of the routers and duplicate the work which is to be achieved via a security device such as IPS/Email	Technical Specifications modified. Pls. refer Corrigendum
28 5	Append ix - Techni cal Specific ations (page 121); Specific ations for C: Core Switch	121		Request you to change the specification. The specifications provided are that of high end Chassis based Core Switch. Looking at the requirements of MMRC chassis based switch may not be required. Request you to provide the specifications for fixed configuration 1/10G based switch instead.	Technical Specifications modified. Pls. refer Corrigendum
28 6	Append ix - Techni cal Specific ations (page	121	Shall support minimum 250K IPv4 and 250K IPv6 (both) unicast routes. Shall support minimum 100K IPv4 and 100K IPv6 (both) multicast routes.	Shall support minimum 32K IPv4 and 16K IPv6 unicast routes. Shall support minimum 32K multicast routes. 250K routes will actually not be required for the	Technical Specifications modified. Pls. refer Corrigendum

	121); Specific ations for ©C : Core Switch			core switch in this smart city design. Also, route summarization would be used which would furthur decrease the number of routes injected into core switch. Request you to please reduce the figures.	
28 7	Append ix - Techni cal Specific ations (page 122); Specific ations for C: Core Switch	122	Shall have SSHv1/ SSHv2, SNMPv1, SNMPv2, SNMPv3, SCP/SFTP /SNTP support	Shall have SSHv2, SNMPv1, SNMPv2, SNMPv3, SCP/SFTP /NTP support. We support SSHv2 and NTP. We don't support SNTP or SSHv1. Request to modify so that there is fair competition.	Technical Specifications modified. Pls. refer Corrigendum
28 8	Append ix - Techni cal Specific ations (page 120); Specific ations for ©C: Core Switch	120	Performance : Dual Redundant Switch Fabric/CPU shall offer minimum 1.2 Tbps	Performance: Dual Redundant Switch Fabric/CPU shall offer minimum 4 Tbps. Request you to increase the performance of the Core Switch as Core switch is the aggregation point of the DC. Due to virtualized DC landscape and the exponential increase in the east-west traffic flowing in DC it is recommended that the Core Switch performance is scalable enough to meet the present and future requirements of MMRC.	Technical Specifications modified. Pls. refer Corrigendum
28 9	Append ix - Techni cal Specific ations (page 120); Specific ations for	120	Minimum 900 Mpps performance or higher shall be supported for both IPv4 and IPv6	Minimum 900 Mpps performance or higher shall be supported for both IPv4 and IPv6 Request you to increase the performance of the Core Switch as Core switch is the aggregation point of the DC. Due to virtualized DC landscape and the exponential increase in the east-west	Technical Specifications modified. Pls. refer Corrigendum

	Core Switch			traffic flowing in DC it is recommended that the Core Switch performance is scalable enough to meet the present and future requirements of MMRC	
29	Append ix - Techni cal Specific ations (page 120); Specific ations for C: Core Switch	120	Shall be capable of 160Gbps switching capacity per slot and each module should offer non- blocking & wire speed forwarding for ipv4 & ipv6	Shall be capable of 400Gbps switching capacity per slot and each module should offer non- blocking & wire speed forwarding for ipv4 & ipv6. Request you to increase the performance of the Core Switch as Core switch is the aggregation point of the DC. Due to virtualized DC landscape and the exponential increase in the east-west traffic flowing in DC it is recommended that the Core Switch performance is scalable enough to meet the present and future requirements of MMRC.	Technical Specifications modified. Pls. refer Corrigendum
29	Append ix - Techni cal Specific ations (page 120); Specific ations for ©C: Core Switch	120		The Core switch should support Fiber Channel over Ethernet (FCOE) and Data Centre Bridging (DCB) Request Addition: Latest generation blade architectures support dual converged modules for IO connectivity for carry LAN and SAN traffic. This helps in simplification, lower cabling, power & cooling without compromising throughput. Having FCOE support on Core Switch will allow MMRC to have latest and most advanced technology available today	Technical Specifications modified. Pls. refer Corrigendum

	Append ix - Techni cal Specific ations (page 124); Specific				
	ations for App endix - Techni				
	cal Specifications Experimental Perimeter Firew				
29 2	all with Intrus ion Preve ntion Syste m	124	erimeter Firewall with Intrusion Prevention System	We assume that this would be the perimeter firewall (UTM). Request you to provide specifications for Core Firewall with IPS	Technical Specifications modified. Pls. refer Corrigendum
29 3	Append ix - Techni cal Specific ations (page 117); Qualific ation Criteria	117		It asks for Firewall with IPS and UTM separately. UTM will be the perimeter firewall in the internet segment and Firewall with IPS will be the core firewall protecting the server farm. Please provide the specs for core firewall.	Technical Specifications modified. Pls. refer to Corrigendum
29 4	3.7	38	Payment Milestones	Payment Milestones and Project milestones donot match. After the Second month there is not milestone until month 5. Request you consider monthly Project payment milestones.	No Change
29 5	3.7	38	Payment Milestones	Payment for Licenses and Hardware should be upfront in M1. And	No Change

1		1		Project Milestones should	
				be Monthly in Arears.	
				50 : 10:10:11, 11:11:11	
				Payment Terms are	
				recommended for	
				monthly in arears instead	
29				of quartely in arears for	
6	3.8	38	Payment Terms	Operation & Maintenance.	No Change
			,	Request you to provide	<u> </u>
				total number of	
				employees permanent/	
				temporary/ contractual/	
				on deputation or ex-	
				employees retired on	
				superannuation,	
				voluntarily retired,	
29				resigned, dismissed,	
7	3.1.7.1	22	Tentative Users base	opted for pension etc.	No Change
29				request for deletion of	_
8	2	12	Earnest Money Deposit	2.12.6.3 and 2.12.6.4	No Change
				We request that bidders	
				should be allowed to	
				provide their deviations	
				to Tender conditions	
				which should be	
				discussed and agreed	
				upon before the commercial bids are	
				opened and bidder is	
				shortlisted. A clear	
				process for such	
				discussion should be	
				provided in the tenders to	
				avoid any preferred	
				treatment to a bidder. If	
				parties are unable to	
				converge on the	
				deviations, the bidder	
				should be declared as	
				unsuccessful bidder	
				without any commercial	
				implications like EMD/	
				PBG forfeiture or	
				otherwise like	
				blacklisting/debarment.	
			Fallows to a 20 of	We request you to	
30			Failure to agree with the	appropriately modify the	
29	2244	10	Terms and Conditions of the	text of any related	No Change
9	2.2.4.4	18	RFP/Contract	sections.	No Change
30				Any change to SLAs shall	
	12	41		be as per mutual	No Chango
0	4.3	41		agreement	No Change

ĺ	İ	I	I	Dec., set t tl-	
				Request you to cap the	
				aggregate of all LD's at 10% of TCV. LD should	
				be imposed only when	
				the Contractor is solely	
				liable for the delay of the	
				Service Level and	
				imposition of such LD shall constitute exclusive	
				remedy of Client for such	
				delays. LDs shall	
				aggregate under the	
30				Liability Cap as agreed	
1	4.4	41	Liquidated Damages	between the parties.	Agreed
	7.7	71	Liquidated Damages	Client will own the	Agreed
				copyright in works of	
				authorship that IBM	
				develops for Client under	
				a Statement of Work	
				(SOW) (Project	
				Materials). Project	
				Materials exclude works	
				of authorship delivered to	
				Client, but not created,	
				under the SOW, and any	
				modifications or	
				enhancements of such	
				works made under the	
				SOW (Existing Works).	
				Some Existing Works are	
				subject to a separate	
				license agreement	
				(Existing Licensed	
				Works). A Program is an	
				example of an Existing	
				Licensed Work and is	
				subject to the Program	
				terms. IBM grants Client	
				an irrevocable (subject to	
				Client's payment	
				obligations),	
				nonexclusive, worldwide	
				license to use, execute,	
				reproduce, display,	
				perform and prepare	
				derivatives of Existing Works that are not	
				Existing Licensed Works.	
				IBM retains an	
				irrevocable, nonexclusive,	
				worldwide, paid-up	
30	5.6			license to use, execute,	
2	GCC	48	Software Rights	reproduce, display,	No Change
<u></u>			1 Sereman Chagnillo	i epi oddee, diopidy,	change

1				perform, sublicense,	
				distribute, and prepare	
				derivative works of	
				Project Materials.	
				-	
				OUR STANDARD	
				POSITION FOR	
				MACHINES ARE "IBM	
				warrants that Machines	
				used in their specified	
				operating environment	
				conform to their official	
				published specifications.	
				For a Machine or Appliance, the warranty	
				period is specified in the	
				Attachment or TD.	
				During its warranty	
				period, IBM will repair or	
				exchange the Machine	
				without charge, as	
				specified in the	
				Attachment. Client may	
				purchase warranty	
				service upgrades and	
				post warranty support	
				where available. For	
				Appliances, post warranty support includes	
				maintenance and S&S.	
				If a Machine or Program	
				does not function as	
				warranted during its	
				warranty period and IBM	
				is unable to repair or	
				replace it with a	
				functional equivalent,	
30	5.7			Client may return it to	
3	GCC	49	Hardware warranty	IBM for a refund of the	No Change

				amount Client paid (for recurring charges, up to twelve months' charges) and Client's license or right to use it terminates."	
30 4	5.9	49	Force majeure	We request you to clarify that irrespective of the nature of Force Majeure event, Client shall continue to make payments for the services in accordance with the terms of the Agreement. Each party would bear its own costs and expenses arising out of a Force Majeure event.	No Change
30 5	5.1	49	Change Order and Amendments	All amendments and change orders shall be executed as per mutual agreement between parties. In the event of termination or suspension, Client shall pay Contractor for all products and services provided up to the effective date of termination. Termination should be triggered only	No Change
30 6	5.12	50	Termination	for a material breach of agreed obligations and should be triggered post 30 days of cure period which should be provided so that the breach can be cured. Termination should be in whole and	No Change

				part termination cannot be agreed to.	
				All other additional terms	
				and conditions which have not been	
				addresssed like Limitation	
				of Liability and IP	
				Indemnity etc shall be as	
30			CLARIFICATION FROM	mutually agreed in the	
7			BIDDER	contract by the parties.	No Change
				Specification for UTM are	
20				not given , Please clarify	Technical Specifications
30 8	13	118	UTM	if Firewall with IPS & UTM specifications are same?	modified. Pls. refer Corrigendum
0	13	110	0114	Training mentioned here	Corrigeriaani
				is training during	
				implementation phase of	During implementations
			3) Training and Capacity	engagement or it is	as well as at regular
			building for all MMRC officials	expected to be at regular	Quarterly/ haf-yearly
30	_		on the system(s)	intervals during entire	intervals if required as
9	3	20	implemented	engagement period.	desired by MMRC
				We assume the single sign on mentioned in	
				paragraph 2 of section	
			The Proposed COTS ERP	3.1 is for SAP application	
31			Solution should enable single	only and is not aplicable	
0	3.1	20	Sign on and	for Non SAP systems.	No Change
				Setting up the systems at	
				other location will involve	
			If required, bidder shall be	efforts and time. In case	Dhysical mayamant of
			required to setup and configure at no additional	there is change in location, we will have	Physical movement of systems is not in scope
31			cost in case MMRC moves to	estimate and provide you	on Bidder. No Change
1	3.1.3.1	21	different location.	the commercial impact.	otherwise
				To guide IBM team for	
				system compliance to	
				internal policies and	
31			The Finance system should	procedures will be	
2	3.1.5	21	be compliant to all rules and policies of MMRC.	MMRCL project team responsibility.	Yes
	5.1.5		policies of Fill INC.	Please specify other	1.00
31	3.1.5.1		completely integrated with	operational areas	
3	0	21	other operational areas	mentioned here.	HR & Finance
31	3.1.5.1		The account module will have	Please specify budget	
4	7.3	22	integration with all the	provisioning system or	Proposed ERP

			departments for budget provisioning.	systems used by all the departments	
31 5	3.1.5.1 7.3	22	The accounts module will also have the integration with the all revenue generation.	Please specify system used / to be used for revenue generation.	AFCS : proposed 5 years down the line
31	3.1.6	23	The HR system should be compliant to all rules and policies of MMRC	To guide IBM team for system compliance to internal policies and procedures will be MMRCL project team responsibility.	Yes
31 7	3.1.6	23	I. Automate core HR processes(e.g. staff administration, payroll, organization structure & Hierarchy)	Please specify the list of HR processes that require automation	To be finalized in consultation with MMRC during SRS and FRS
31 8	3.1.6	23	IV. Automate HR transactions and payroll processing	Please specify the list of HR processes that require automation	To be finalized in consultation with MMRC during SRS and FRS
31 9	3.1.6	23	Payroll Scope - VII. Generation of bills / reports for various remittances for paymentsand other disbursements	We need more details on Generation of Bills mentioned here.	To be finalized in consultation with MMRC during SRS and FRS
32 0	3.1.6	23	Payroll Scope - XI. Employees Service record keeping	We assume that this line item is related to upload of historical documents in system. Please specify extent and scope of such historical data upload.	Data since 2011
32	3.1.6	23	II. Workflow based processing (medical/ travel expense claims like vehicle booking, ticket booking, leaves management, training programs, approvals, etc.)	Applicability of SAP Travel Management to be verified.	Invalid
32 2	3.1.6	23	VII. HR Budgeting and Payroll section	Applicability of Employee Compensation Management,to be verified.	As per RFP
32 3	3.1.6	23	Payroll section - IX. Maintaining the record and Generation of CPF slips.	Applicability of PF trust accounting be verified.	As per MMRC
32 4	3.1.7.2 .1.1	24	Seamless integration with MMRC's Project Management and Document Management/ Collaboration System based on MMRC's operations	Does Project Management includes project procurement, project service management and Project inventory? If yes, which systems are in place or	No

				Which systems are	
				expected to be in place?	
	3.1.7.2				
	.1.1			Which are MMRCL's	
	2nd			current IT applications in	
	point with		Business design based on the	use / to be used? Which of these are to be	
	same		assessment of the operations	replaced by COTS ERP	
32	numbe	2.4	of MMRC and the current IT	and which ones will	- "
5	r	24	applications in use Plan for	continue?	Tally
			customization/development		
			The Bidder should plan for		
			following developments as a part of the normal effort for	Details / List of	
32	3.1.7.8		implementing the COTS	developments not	
6	.4	29	Solution.	available in this section.	Clause removed
				Please indicate whether	
				SAP Solution Manager is prefered choice for this or	
				regular use of MS office	
32	3.1.7.8	20	Use of the native Project	(Word, Power point	No preferred choice. To
7	.7	30	management tool	excel) is sufficient. This section referes to 5	be proposed by Bidder
				systems to be integrated	
				Project Management	
				System - Primavera, 2.	
				Document Management / Collaboration System, 3.	
				Payment gateway, 4. SMS	
				gateway,	
				5. Automatic fare collection system.	
			Section mentions "Data from	Which are the other	
			other systems/ applications	systems mentioned here?	N 11
32			should be flow to and from ERP systems based on	Are these in addition to 5 systems mentioned in this	No other systems. Also AFCS is proposed 5
8	3.2	32	MMRC's operations"	section?	years down the line.
				What would be the scope	
				of the helpdesk? We assume that the helpdesk	
				will be operational only	
				for issues related to ERP	
				system & other	
				application & infrastructure issues will	
32	3.1.7.6			be out of scope for this	Yes. Only issues related
9	.11	29	Cutover Strategy	helpdesk.	to ERP application

33	4.6	40	Standard Definition used in	What is the Service Management Platform currently used at MMRC? Can Bidder leverage the	
0	4.6	40	SLA	same? What is the requirement	No system in place
				of MMRC under EMS?	
				Please specify. Does	Taskaisal Cassifications
33			Annexure - Technical	MMRC require Application Transaction Monitoring	Technical Specifications modified. Pls. refer
1	13	118	Specifications	tools as well?	Corrigendum
				What are the	
33			Annexure - Technical	infrastructure monitoring tools currently deployed	
2	13	118	Specifications	at MMRC?	No Tools available
				Are there any Patch	
33	4.8	42	Scheduled Downtime	Management tools being used at MMRC?	No
	1.0	12	Scheduled Downtime	This level shall cover any	110
				server related issues like	
				hardware failure, OS failure etc. A critical	
				problem, which affects	
				large number of users /	
				prioritized users /	
				networks / servers e.g. Server UPS, Gateway	
				Routers, Layer-3 and 2	
				core switches, networked	
				printers, messaging servers, domain servers	
				and other mission critical	
				server, including their	
				power supplies for servers, routers etc.	
				affecting any segment of	
				the LAN network or	
				connectivity between any	
				two segments including security breach Bidder	
				understands that only	
				infrastructure related to	
				ERP solution will be considered under SLA	
				calculation of this	
33	4.7	42	Criticality of Services -	engagement. Please	V
4	4.7	42	Criticality Level - 1	clarify	Yes

				A major problem, which	
				affects the individual	
				user, e.g. PCs, desktop	
				printers, UPS, edge switches hubs etc. Denial	
				of services/ Standard	
				Compliance due to partial	
				breakdown/ failure of any	
				one of the equipment/	
				component installed in	
				MMRC. However, if the	
				partial denial of services	
				is impacting critical users	
				like Hon'ble CM, Hon.	
				Ministers, Secretaries,	
				Managing Director	
				(MMRC) and other senior officials the incident will	
				come under Criticality	
				level 1. Apart from this	
				Spamming will also come	
				under severity level 2	
				Bidder understands that	
				only infrastructure related	
				to ERP solution will be	
				considered under SLA	
22			Cuitianlih e of Countings	calculation of this	
33 5			Criticality of Services - Criticality Level - 2	engagement. Please clarify	Yes
-			Criticality Level - 2	On Warranty of	165
				hardware, please confirm	
				if Vendor need to	
				consider the same in our	
				proposal or they will take	
33				the same every year from	Vendor needs to
6	3.8	38	Payment Terms	the respective OEMs.	consider
			Ciamina at Cant	We understand that there	
			Signing of Contract	will be a discussion on	
			MMRC shall notify the successful bidder that its bid	the contractual legal terms. Request MMRC to	
			has been accepted. The	kindly allow bidder to	
			Successful Bidder shall enter	provide deviations to the	
			into contract agreement with	key legal terms in the	
			MMRC within the time frame	draft contract agreement,	
			mentioned in the Letter of	which shall be mutually	
			acceptance to be issued to	discussed and agreed	
33			the successful bidder by	between the successful	To be discussed with
7	2.24.3		MMRC.	bidder and MMRC.	successful bidder

33 8	2.15	PATENT CLAIMS: In the event of any claim asserted by a third party of infringement of copyright, patent, trademark or industrial design rights arising from the use of the Goods or any part thereof, the bidder shall expeditiously extinguish such claim. If the bidder fails to comply and MMRC is required to pay compensation to a third party resulting from such infringement, the Biddershall be responsible for such compensation, including all expenses, court costs and lawyerfees. MMRC shall give notice to the successful bidder of any such claim and recover it fromthe bidder if required.MMRC will have the Intellectual Property rights of the customization work which will be taken up during SRS Stage. SLA: For any delay in installation and commissioning of the Hardware, MMRC shall charge penalty @ 0.5% of the	Considering that there would be hardware and softwares forming part of the SOW that would be supplied by third party OEMs, hnece we propose amendment of clause 2.15 by including the following points. 1. Any usage of third party hardware/software for the Services hereunder shall be governed by the terms of such third party. 2. Bidder disclaims any liability arising out of usage of any third party hardware/software. 3. In all cases, Atos (and/or its licensor) retains sole ownership of all pre-existing IPR and background IPR and all developments, variations and enhancements thereto. 4. Customer receives ownership of customer-specific foreground IPR. Atos is granted a non-exclusive, royalty-free, perpetual, worldwide back-license for unlimited commercial use of customer-specific foreground IPR. 5. All non-customer specific foreground IPR, against and enhancement specific foreground IPR, against additional consideration.	No Change
33 9	4.4	corresponding milestone value per week or part	(i) Delay is solely attributable to Bidder	No Change

		thereof, subject to a maximum of 10%.		
34	Page 45 of 142	SLA Review Process and Penalty: f. The total deduction should not exceed 10% of the QGR. g. Three consecutive quarterly deductions of more than 10% of the applicable fee on account of any reasons will be deemed to be an event of default and termination.	Will update after confirmation from Bids team	No Change
34			We propose that the any dispute shall be referred to and finally resolved by arbitration administered by the Singapore International Arbitration Centre ("SIAC") in accordance with the Arbitration Rules of the Singapore International Arbitration Centre ("SIAC Rules") for the time being in force, which rules are deemed to be incorporated by reference in this clause. The seat of arbitration shall be Mumbai and language shall be English.	
1	5.5.2.1	ARBITRATION		No Change

34 2	5.6(II)	SOFTWARE RIGHTS: Bidder hereby grants MMRC license to access and use the Software, including all inventions, designs, and marks embodied in the Software. Such license to access and use the Software shall be: I. Nonexclusive. For Supply, Installation and Commissioning of Enterprise Resource Planning (ERP) in Mumbai Metro Rail Corporation (MMRC) by System Integrator including associated Hardware, Software and Licenses along with its implementation, integration and II. Perpetual, fully paid up and irrevocable. III. Valid throughout India.	We propose that the condition be modified to include that MMRC shall be bound by the respective EULA/ license terms and conditions of the respective third party software service provider	No Change
34		Hardware Warranty: All the supplied goods under this RFP scope shall be new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract. The supplied goods under this RFP shall be free from defects arising from any act or omission of the successful bidder or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination. The warranty from OEM shall remain valid for five years for active components and 20 years for passive component after the goods, or any portion thereof as the case may be, have been delivered, installed, tested and accepted	We propose that the condition be modified to include that "MMRC shall be bound by the respective warranty and related terms and conditions from the OEMs w.r.t. the equipment forming party of the SOW, including any embedded software."	

34 4	5.12.1. 2	Termination by MMRC: If the successful bidder does not remedy a failure in the performance of its obligations under the Contract, within thirty (30) days after being notified or within any further period as MMRC may have subsequently approved in writing.	We propose that the failure should be a substantive/material in nature and not just any failure, hence the clause be modified to that extent	No Change
34 5	5.12.1. 4	If the successful bidder, in the judgment of MMRC has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.	We propose that such termination be based on valid proof hence the clause be modified accordingly	No Change
34	5.12.1. 8	If the successful bidder fails to provide the quality services as envisaged under this Contract, MMRC may make judgment regarding the poor quality of services, the reasons for which shall be recorded in writing. MMRC may decide to give one chance to the successful Bidder to improve the quality of the services.	We propose that this clause be linked to "SLA Review Process and Penalty" in page 45 of 142 considering that criterion for quality of services is mentioned under this section.	No Change
		If MMRC, in its sole discretion	We propose to amend the clause by inserting "MMRC shall not terminate the contract for convenience during Transition and Transformation period. Further in case of such termination, the bidder should be paid for all services rendered and expenses incurred upto the date of termination plus a termination fee.	
34 7	5.12.1. 10	and for any reason whatsoever, decides to terminate this Contract.	F.3.2 & 3	No Change

			Would also request to kindly consider the	
			following points with respect to Assignment:	
			1. Escalation to Bidder's	
			management before exercising such rights.	
			2. In the event any	
			similar agency is appointed then, Bidder	
			shall not liable for SLAs or	
			quality of service of step- in services;	
			3. Conditions for	
		In the event MMRC	termination of step-in defined (e.g. services	
		terminates the Contract in	being restarted by Bidder	
		whole or in part, pursuant to GCC Clause 5.12.1, MMRC	properly, etc.);	
		may procure, upon such	Proivded that any cost	
		terms and in such manner as it deems appropriate, services	and liability related to such activity shall not	
		similar to those undelivered	exceed the Annual	
		or not performed, and the successful bidder shall be	Contract Value. Further Bidder shall not be liable	
		liable to MMRC for any	for any additional cost	
		additional costs for such similar services. However, the	wherein termination is on account of any Force	
		successful bidder shall	Majeure event, since such	
34	5.12.1.	continue performance of the Contract to the extent not	events are beyond reasonable control of	
8	11	terminated.	Bidder	No Change
		Termination by Bidder: If MMRC fails to pay any		
		money due to the Successful	Please clarify which	
		bidder pursuant to this Contract and not subject to	clause number under GCC is referred to herein. We	
		dispute pursuant to GCC	could not locate the	
		Clause 4.8 hereof, within 30	reference clause 4.8	
		days after receiving written notice from the successful	under GCC. As per the RFP document Clause 4.8	
34 9	5.12.2.	bidder that such payment is	refers to "Schedule Downtime"	To be read in F.9
9	1	overdue.	Internal:	To be read is 5.8
25			Finance Team to	
35 0	5.13	Payment upon Termination	comment on the payment upon termination clause.	Not Valid Query

35 1	5.14	Assignment: If successful bidder fails to render services in stipulated timeframe and as per schedule, MMRC, at its discretion and without any prior notice to successful bidder, may discontinue or minimize scope of work or procure/board any other similar agency to render similar services to complete project in stipulated timeframe.	We suggest that this clause be deleted since the intent i.e. is covered under clause 5.12.1.11	No Change
35 2		Clauses to be added under the General Condition of Contract	1. The aggregate liability of the Bidder under this contract, shall not exceed the Annual Contract Value (ACV) 2. Penalties/LDs/Service Credits are sole remedy. 3. Bidder shall not be liable for any consequential, indirect and incidental damages excluded including liability for loss of profits, revenue, goodwill, savings (real or anticipated), data loss and cost of reconstituting data (except reconstitution from last backup). 4. For all third party hardware/software, the usage of such hardware/software shall be governed by the terms of third party and will be applicable on IIFCL.	No Change

Annexure-I

Annexure-1: Key Dates and Events

Amended Section 1.1: Key Dates and Events

S.	Particular	Details
No.		
1.	Advertising Date	03.11.2015
2.	Name of the project	"RFP For Supply, Installation and Commissioning of Enterprise Resource Planning (ERP) in Mumbai Metro Rail Corporation (MMRC) by System Integrator including associated Hardware, Software and Licenses along with its implementation, integration and maintenance support"
3.	RFP Document Download Start Date & Time	From 03.11.2015 at 11.00 am (IST) to 30.12.2015 till 5.00 pm(IST)
4.	Website for downloading Tender Document, Corrigendum's, Addendums etc.	https://etendermmrda.maharashtra.gov.in
5.	Last date for Submission of Queries	All the queries should be received on or before 30/10/2015 till 5:00 pm, through email only with subject line as follows: "Pre-Bid queries - <agency's name="">". The queries should be submitted as per the format prescribed in Annexure 6.5. The Pre-Bid queries to be sent to the Email Id – itpmo.mmrc@gmail.com</agency's>
6.	Pre-Bid Conference	27/11/2015 at 3:00 pm Address: Conference Room, 2 nd Floor, MMRC, BKC, Mumbai-400051
7.	Last date (deadline) for Submission of bids	30/12/2015 till 5.00 pm
8.	Online Control Transfer Of Bid	30/12/2015 from 6.01 pm to 31/12/2015 6.00 pm
9.	Date and time of opening of Initial filter bids	01/11/2016 after 11 am (IST)
10.	Date and time for opening of Commercial bids	Will be intimated later to the qualified bidders
11.	Detail of the contact person and Address at which sealed bids are to be submitted	Shri. R. K Sharma, Executive Director (Electrical) 4th Floor, Namttri Building Bandra Kurla Complex Bandra (East) Mumbai—400-051 E-mail: itpmo.mmrc@gmail.com

Annexure-2: Initial Filter

Amended Section 2.21:

S No	Basic Requirements	Eligibility Criteria	Document to be submitted
PQ1	Legal Entity	The Bidder (All members in case of Consortium) should be registered company in India under the Companies Act, 2013, OR the Companies Act, 1956, and should be in existence in India for at least the last 3 years as on date of submission of the bid.	Certificate of Incorporation/ Registration
PQ2	Turnover from IT/ITeS	The bidder (Prime bidder in case of a consortium) should have average turnover of INR 30 crore in last three financial years (FY 12-13, FY-13-14, FY-14-15) from IT/ ITeS;	Copy of the audited Profit & Loss Statement of the company duly certified by statutory auditor/ Certificate from the Statutory Auditor clearly stating the Turnover
PQ3	Net worth	The Bidder (All Members in case of a consortium) should have positive net worth (measured as paid-up capital plus free reserves) for each of the last three audited financial years(FY 12-13, FY-13-14, FY-14-15) as on 31 st March 2015	Certificate from the Statutory Auditor clearly stating the net worth
PQ4	Technical Capability	The Bidder should have experience of implementing in Government/ PSU /Urban Local bodies with atleast one project of ERP solution with order value not less than 2.4 Cr. or should have experience of implementing in Government/ PSU /Urban Local bodies with atleast two project of ERP solution with order value not less than 1.8 Cr. or should have experience of implementing in Government/ PSU /Urban Local bodies with atleast three project of ERP solution with order value not less than 1.2Cr.	Copy of Work Order & Project Completion Certificate should be attached

PQ5	Blacklisting	The Bidder (All members) should not be debarred/blacklisted by any Government / PSU in India as on date of submission of bid.	A self-certified letter signed by the Authorized Signatory of the Bidder.
PQ6	Certification	The Bidder (Prime Bidder) providing the application development/customization, deployment and maintenance as described in of scope of work, should have an active SEI CMMI Level 3 or its higher version certification as on date of submission of Bid	Valid Copy of the Certificate

Annexure-3: Consortium and Sub-Contracting Conditions

Amended Clause 2.5:

The Bidders are allowed to form Consortium. In case of Consortium, both the Lead Member and consortium partner would be jointly and severally responsible for the project.

- 2.5.1 The number of Consortium members cannot exceed two, including the Lead Member.
- 2.5.2 Only the Lead Member will submit the Proposal and sign the Contract with MMRC.
- 2.5.3 The lead bidder and the consortium partner shall be jointly and severally responsible to MMRC for the fulfilment of the provisions of the contract
- 2.5.4 Only one Bid will be allowed from a Consortium. The partners of a Consortium are not allowed to bid individually or jointly with others.
- 2.5.5 In case of a Consortium Bid, the Lead Member would also need to submit the Agreement letter between the Consortium members clearly indicating their scope of work, relationship and declaration on association and being jointly responsible. The Composition and constitution shall not be altered without prior consent of MMRC. Each consortium member shall execute and submit along with the proposal at least the following information in the Consortium Agreement.
 - a. A registered power of attorney in favour of the Lead Member which shall inter-alia, authorize the Lead Member to act for and on behalf of such member of the Consortium and do all acts as may be necessary to or for the performance under the contract
 - b. Brief description of nature of products/services to be provided by Consortium member;
 - c. Head and Branch offices (if responsible for work under the contract) (provide mailing addresses, phone, fax and email);
 - d. Date, form and state of incorporation of each Consortium member;
 - e. Contract Administrator (Name, business address, fax, phone and email address of individual responsible for administering any Contract that might result from this RFP);
 - f. Company Principals (Name, title and business address); and,
 - g. Current or prior successful partnerships with proposed Consortium member including Client reference (Contact name, phone number, dates when services were performed).

- h. Turnover of each consortium members, including the lead bidder
- 2.5.6 The Consortium Agreement concluded by the Lead Member and Consortium member(S) should also be addressed to MMRC clearly stating that the Agreement is applicable to this RFP.
- 2.5.7 The Lead Member shall be solely liable to and responsible for all obligations towards MMRC for performance of works/services including that of its partners/associates under the contract.
- 2.5.8 Sub-Contracting is not allowed.

Annexure-4: Financial Proposal Format & Instructions

Amended Section 7.2:

7.2 Financial Proposal Format

A. Consolidated Cost Summary (Inclusive of all Taxes except Service Tax)

Sr. No.	Particulars	Total Amount in Figure (Rs.)
A.	ERP License Cost	
В.	Implementation Cost (Manpower for Installation, Customization, Integration and Implementation)	
C.	Training and Capacity Building Cost	
D.	On-Premise Hosting Cost inclusive of Hardware and related software	
E.	Hosting, Operation and Maintenance Cost for a period of 5 years (AMC)	
F.	Operation and Maintenance Cost of ERP system for a period of 4 years (Manpower for Support) post Go-Live	
Grand	total in words (A+B+C+D+E+F):	

B. Break up of Consolidated Cost Summary

Particulars	Specifications	No of Users	No of units/Man Months	Cost/ Unit or (INR)	Man Month Rate	Total (INR) (inclusive of taxes)
			proposed		(INR)	
License	HR					
	Finance					
Implementation	Project					
•	Manager					
	Functional					
	Lead					
	Technical Lead					
	Others (If any					
	Required)					
Training and UAT						
On-Premise Hosting	Server					
Cost inclusive of						
Hardware and related	Database					
software (One Time)	Database					
	Others (If any					
	Required)					
Hosting, Operations and	Server					
Maintenance (On	Database					
Premise Hosting) per	Others (If any					
year	Required)					
Operations and	Project					
Maintenance	Manager					
(Manpower) per year	Functional					
	Lead					
	Technical Lead					
	Others (If any					
	Required)					

Annexure-5: Technical Specification

Amended Clause:

Sr. No.	Component Qualification	Criteria
1	Application & Database Servers	OEM should be part of Leaders or Challengers quadrant in the latest Gartner report for modular servers or Top 4 in latest IDC's Server Tracker report
2	Database	OEM should be part of Leaders or Challengers quadrant in the latest Gartner report for Operational Database Management Systems or equivalent
3	Storage	OEM should be from Top 4 vendors in terms of revenue and market share as per latest IDC quarterly report for respective category or Leaders/Challengers of the latest Gartner quadrant for the respective category
4	Switches & Routers	OEM should be from Top 4 vendors in terms of revenue and market share as per latest IDC quarterly report for respective category or Leaders/Challengers of the latest Gartner quadrant for the wired and wireless LAN access infrastructure
5	Firewall with IPS	OEM should be from Top 4 vendors in terms of revenue and market share as per latest IDC quarterly report for respective category or Leaders/Challengers of the latest Gartner quadrant for Enterprise Network Firewalls
6	Antivirus Solution	OEM should be from Top 4 vendors in terms of revenue and market share as per latest IDC quarterly report for respective category or Leaders/Challengers of the latest Gartner quadrant for Endpoint protection
7	Server Load Balancer	OEM should be from Top 4 vendors in terms of revenue and market share as per latest IDC quarterly report for respective category or Leaders/Challengers of the latest Gartner quadrant for respective category

Sr. No.	Component Qualification	Criteria
1	Application & Database Servers	OEM should be part of Leaders or Challengers quadrant in the latest Gartner report for modular servers or Top 4 in latest IDC's Server Tracker report
2	Database	OEM should be part of Leaders or Challengers quadrant in the latest Gartner report for Operational Database Management Systems or equivalent
3	Storage	OEM should be from Top 4 vendors in terms of revenue and market share as per latest IDC quarterly report for respective category or Leaders/Challengers of the latest Gartner quadrant for the respective category
4	Switches & Routers	OEM should be from Top 4 vendors in terms of revenue and market share as per latest IDC quarterly report for respective category or Leaders/Challengers of the latest

		Gartner quadrant for the wired and wireless LAN access infrastructure
5	Firewall with IPS	OEM should be from Top 4 vendors in terms of revenue and market share as per latest IDC quarterly report for respective category or Leaders/Challengers of the latest Gartner quadrant for Enterprise Network Firewalls
6	Antivirus Solution	OEM should be from Top 4 vendors in terms of revenue and market share as per latest IDC quarterly report for respective category or Leaders/Challengers of the latest Gartner quadrant for Endpoint protection
7	Server Load Balancer	OEM should be from Top 4 vendors in terms of revenue and market share as per latest IDC quarterly report for respective category or Leaders/Challengers of the latest Gartner quadrant for respective category

A	Database Servers/ Application Server / Web Server
S. No	General features:
1.	Each blade shall have a minimum of two (2) Intel E5 2600 v3 series CPUs and supports all Intel CPUs , including the highest performance Intel E5-2699 v3 18 core 2.3 GHz CPUs
2.	The server should support SAS, SATA and SSD hard disk drives with minimum of 2*300GB 6G SAS or higher
3.	Must support booting hypervisors through an internal SD card/ USB boot device slot
4.	The Blade should have support for Boot from SAN
5.	Should support minimum 12 DIMM slots per blade. Vendor to propose min 8 GB memory per core.
6.	Support for RAID 0, 1
7.	Should support Converged Network Adapter for FC/ FCoE support
8.	Should support minimum 20 Gbps connectivity per server, expandable up to 80 Gb.
9.	Should support at least two adapters per server
10.	Should support adapter and QoS policy creation and defining for each vNICs or vHBAs created in the adapter
11.	Should be capable to support remote KVM capability, up to 4 active sessions, through an external keyboard, mouse and video monitor to all blades installed in the chassis through the management controllers
12.	The Blade should be hot pluggable

13.	The chassis density should be better than those offered by the typical 1 U rack server
14.	Minimum Operating Temperature from 50° to 95°F (10° to 35°C) and Non-operating Temperature -22° to 140°F (-30° to 60°C)
15.	Minimum Operating Relative Humidity from 10% to 90% non- condensing and Non-operating Relative Humidity from 5% to 90% non-condensing
Blade C	hassis
16.	Blade chassis shall be 19" Electronic Industries Alliance Standard Width rack mountable and provide appropriate rack mount kit
17.	The power supply modules should be hot pluggable
18.	The power subsystem should support N+N or N+1 or grid mode of power redundancy
19.	The power subsystem should be support $N+N$ or at least $N+1$ power redundancy for a fully populated chassis with the 2 socket (CPU) servers
20.	Should be configured to provide full redundant cooling to all blade slots
21.	Should have redundant switch modules for fabric connectivity
22.	Min 8 Nos of 10Gbps uplink from the chassis to TOR/core switch should be provided
23.	The uplink from the chassis should support FCoE (Fibre Channel over Ethernet) technology
24.	The chassis should support redundant management modules
25.	It should support remote KVM capability from an external keyboard, video monitor and mouse to all blades installed in the chassis through the management controllers.
26.	Simultaneous KVM access to a single blade KVM by multiple users with different levels of access for each user
27.	Should be able to support the feature of virtual DVD to individual servers from remote systems
Manage	ement
28.	Management of both rack & blade form factor servers from the same console. Management software should support integration with popular virtualization platform management software like vCenter, SCVMM and RedHat RHEV
29.	Supports a stateless environment where server identity is created by the administrator who defines the server
30.	Management software should be capable of providing Role Based access control to the users and should be capable of supporting integration with Active directory
31.	Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the update of system software/firmware components. Management software should provide the capability to upgrade / rollback firmware
32.	Management software should be capable of defining power policies for server and capping the power if required.
33.	Safety Standards: • EN 60950-1 • IEC 60950-1

В	Core Router		
S. No	General features:		
1.	The router should be rack based/chassis based with minimum 1 payload slot for future expansion		
Archite			
2.	Should have internal redundant power supplies		
3.	Minimum back-plane capacity of 5-Gbps & forwarding performance of 1 Million packets per sec of 64 bytes packet. The performance is considered with IPv4 & IPv6		
4.	Should support 10/100/1000 ports and 10-Gig ports		
5.	Should have 2 X 10/100/1000 ports		
6.	Protocols to be supported: i. Border Gateway Protocol (BGP) V4 ii. Dynamic Host Configuration Protocol (DHCP) iii. IP Multicast, PIM SM, PIM SSM, IGMP, MLD, MSDP, RP, iv. Shall support multicast in L3 VPNs/ native IP using MPLS for QoS, reliability and resiliency. v. Features like TE, bandwidth reservation and FRR shall be available to multicast traffic. vi. Internet Protocol version 6 (IPv6) vii. Intermediate System-to-Intermediate System (IS-IS) viii. Label Distribution Protocol (LDP) ix. Open Shortest Path First (OSPF) x. Resource Reservation Protocol (RSVP) xi. The router shall support Virtual Router Redundancy Protocol (VRRP) IPv4 Features: i. Support for Routing Information Protocol ii. Support for RIP Version 2, OSPF, IS-IS, Border Gateway protocol iii. Support for BGP confederations & Route Reflectors		
7.	IPv6 Features: iv. IPv6 ping IPv6 trace route v. Stateless Auto configuration or equivalent vi. RIPng OSPF v3 vii. IS-IS viii. IPv6 L3 forwarding in HW		
	ix. VRRPv3, MLD , IPv6 ACL The supported features should include:		
8.	802.3ad , 802.3x , 802.1Q , VLAN , 802.1p , LACP STP, RSTP, MSTP (802.1d, 802.1s, 802.1w) L2 ACLs , IGMP Snooping (v1, v2, v3)		
9.	Should support at-least 50K IPv4 routing entries per system and 10k IPv6 routing entries per system		

10.	Should support VRF's
11.	Should support VPLS instances
Certific	ations
12.	Router should be EAL2/NDPP or higher certified
13.	Safety certifications UL 60950-1
14.	EMC certifications FCC Class A

С	Core Switch:
Features	
1.	Switching capacity - 1.2 Tbps
2.	Switch forwarding rates – 900 Mpps (64 byte packets)
3.	1/10 Gigabit Ethernet port - Minimum 48 nos (Fiber modules to be populated as per the solution)
4.	Non-blocking switch architecture
Connecti	ivity
5.	802.3ad based standard port/link aggregation, Jumbo frames, storm control
Switchin	g Features
6.	Support at least 2500 VLAN and 32,000 MAC Address
Security	
7.	802.1X Network Security and Radius/TACACS AAA authentication
8.	MAC Address filtering based on source and destination address
9.	Support for various ACLs like port based, VLAN based and L2- L4 ACL's
	Protocols
10.	Layer3 routing protocols like Static, RIP, OSPF, RIPnG, OSPFv3 from day 1 for the solution.
11.	Shall support FCOE, Datacenter bridging exchange, IEEE 802.1Qbb
Qos	
12.	Minimum 8 number of hardware queues per port
13.	DSCP, 802.1p
Multicas	t
14.	IGMP v1,v2,v3, IGMP snooping, PIM SM, MLD

Manage	ment
15.	SNMP v1, v2, v3, RMON/RMON-II enabled, SSH, telnet, GUI, Web management and should have out of Band Management port
16.	Switch should support port mirroring feature for monitoring network traffic of a particular port/VLAN.
17.	Switch should support Link Aggregation on two different switches
18.	Built-in real-time performance monitoring capabilities and at least two switches should be managed using single IP address
19.	Power Supply: Switch should have internal Hot Swappable redundant Power supply
20.	Cooling Fans: Should have redundant cooling FANS
Certifica	itions
21.	Should be minimum EAL 2 or NDPP certified

D	Next Generation Firewall (Firewall with IPS)
Architec	ture
1.	Chassis based architecture
2.	Hot swappable module and power supplies
Interfac	es es
3.	4x10/100/1000 RJ45 and 2x10G interfaces
System	Performance
4.	Multiprotocol Firewall Throughput – 5 Gbps
5.	IPS Throughput – 2 Gbps
6.	IPSec VPN Throughput – 2 Gbps
7.	Concurrent Sessions – 500K
8.	Connections per Second – 75K
Layer 2	Switching
9.	VLAN 802.1Q
10.	Link Aggregation 802.3ad/LACP
11.	STP
12.	1000 VLANs
Routing	(Available from day 1)
13.	Static routes

1	
14.	RIPv2
15.	OSPF
16.	BGP
MultiCas	st end of the state of the stat
17.	IGMPv3, PIM
Traffic M	lanagement
18.	Policing of packets
19.	Class-based queuing with prioritization
Security	
20.	Firewall, zones, screens, policies
21.	Stateful firewall, stateless filters
22.	Network attack detection
23.	Prevent replay attack; Anti-Replay
24.	Trevent replay attack, And Replay
	Unified Access Control - TCP reassembly for fragmented packet protection - Brute force attack mitigation - SyN cookie protection - Zone-based IP spoofing - Malformed packet protection
	n Prevention System (IPS) Features
25.	Protocol anomaly detection - Stateful protocol signatures
26.	Intrusion prevention system (IPS) attack pattern obfuscation
27.	User role-based policies
28.	Customer signatures creation
29.	Daily and emergency updates
30.	Custom signatures
31.	Dynamic signature updates
32.	
Heen-Arri	User-based application policy enforcement
User Au	chentication

33.	
33.	Third-party user authentication RADIUS, RSA SecureID, LDAP
34.	
	RADIUS accounting
35.	
	PKI certificate requests
36.	Certificate Authorities: VeriSign, Entrust, Microsoft, RSA Keon, iPLanet, (Netscape), Baltimore, DoD PK
VPN	DOD FK
VI IV	
37.	
57.	IPSec Tunneling
38.	
	IPsec, DES, 3DES, AES encryption
	MD5 and SHA-1 authentication
High Ava	
	Active/active or Active/passive —L3 mode
	Dual Power
System I	Management
	Web UI
	Command line interface (CLI)

E	Storage	
S. No.	Feature	Description
1.	Architecture / Storage Controller	The Storage system must have at least two controllers running in an active- active mode with automatic failover to each other in case of one controller failure. The architecture should allow modular upgrades of hardware and software for investment protection and adding additional controllers.
2.	Cache	The system should have minimum 48 GB cache (Read and Write) across the two controllers which is available for Read-Write Operation and SAN. The storage array must have complete cache protection mechanism either by de- staging data to disk or providing complete cache data protection with battery backup for up to 72 hours or more. The cache should be upgradable by adding additional controllers.
3.	Protocols	The storage shall be provided with all NAS & SAN supported protocols for use with different applications and avoid any protocol related buying in future. Any hardware/software required for this functionality shall be supplied and external appliance should have high availability

		architecture for data and management. NAS & SAN functionality should be provided from Single Storage OS.
4.	Capacity	The storage shall support SAS, SSD and NLSAS based disks simultaneously in the same array. The storage should be provisioned with 15 TB of usable Capacity on PATD 5/6 or heatter using 10000 RPM SAS drives.
5.	Front-End & Back-End connectivity	RAID 5/6 or better using 10000 RPM SAS drives. The offered storage shall have minimum 8 * 8/16 Gig FC ports
6.	RAID	The storage shall support RAID levels single disk failure, dual disk failure, Stripping, Mirroring. The RAID implementation on the storage will be such that it is able to protect against two drive failing in the same RAID Group simultaneously or at an overlapping time without affecting the performance of the system.
7.	Scalability	The storage should be scalable to support at least another 15 TB usable space on Raid 6.
8.	Operating System	Storage should support industry leading operating system platforms and clustering including windows Server 2008, 2012, UNIX, Linux 2.6, RHEL and VMware etc.
9.	Storage built-in functionality	The storage shall have the ability to combine multiple RAID Groups into a single entity so as to create LUNS/Volumes using Multiple RAID Groups and hence from the single entity to give maximum performance to all the applications being served from these disks. The storage shall have the ability to expand and shrink LUNS/Volumes on the storage online and instantly. The storage shall support security features like LUN masking, Zoning etc. The storage shall support standard storage (SAN & NAS) security features.
10.	Hypervisor	The storage should be able to support different virtual servers like Microsoft HyperV and VMware etc. The storage should support replication in any case. Necessary software license for integration with any Virtualized platform should also be provided. The storage failover and failback should be supported with Virtualization platform.
11.	Replication	Storage should also support Asynchronous and Synchronous Data Replication (the changed block within the volume) to the DR Site in a heterogeneous
12.		Network through internet. Any additional hardware required for delivering the functionality must be provided.
13.	Licensing	Storage should be configured to support FC, ISCSI, FCoE, NFS v 4.0, CIFS (SMB 3.0) Protocols natively.
14.	Management	The storage management GUI should allow to manage more than one single system from the GUI and even remote systems. Performance monitoring tool or software should be provided and the same will need to be licensed for the full capacity and maximum servers supported by the array.

15.	OS support	Support for industry-leading Operating System platforms including: LINUX, Microsoft Windows, HP-UX, SUN Solaris, IBM-AIX, etc.
16.	Remote Diagnostics/	The proposed system should support Web based, Email facility for remote service & also support dial-in / dial-out to report errors and
	Maintenance	warnings.
17.	AC Power	200-240VAC, 50Hz
18.	Rack Mountable	The proposed system must be rack mounted (Adequate storage rack should be supplied)
19.	Redundancy	Storage should not have any single point of failure which includes storage controllers, disk drives, power supplies, cooling fans, data path and power cords that are fully redundant and hot-swappable to ensure maximum availability.
20.	Additional Feature	Storage should support servers to boot from SAN Storage must support hardware RAID and supported RAID levels must be Striping, Mirroring, Single Disk Failure and Double Disk Failure Should provision for LUN masking, SAN Security and fiber zoning. Should be able to take "snapshots" of the stored data. Storage Subsystem should have remote replication feature and also should be able to replicate within the same family. It should be able to replicate the changed volume. It Should support FCIP/IP replication. Storage should provide automatic rerouting of I/O traffic from the host in case of primary path failure. There should be 1 dedicated Management port.
		Should Support for native multi path, clustering & Interoperability
		Should Support for Storage virtualization

F. Serv	F. Server Load Balancer	
S. No.	Architecture	
1	Should be high performance purpose built next generation multi-tenant hardware with multicore CPU support. Platform should support multiple instances including link load balancing, application load balancing & SSL VPN functions with dedicated hardware resources for each virtual instance.	
2	The appliance should have minimum 10 Gbps of system throughput per virtual instance to support multiple load balancing and security functions	
3	The appliance should have minimum 8 x10G SFP+ interfaces from day one	
4	Hardware based SSL acceleration with upto 20Gbps of bulk SSL throughput. Minimum of 4,000 2k SSL transactions per second (TPS) per virtual instance	
5	Platform should support minimum 4 virtual instances and must have option to scale upto 16 virtual instance on same appliance. Each instance must have assigned dedicated hardware resource such as CPU, memory, SSL & I/O for guarantee performance	
Applica	Application Load balancing features	
6	Should able to load balancer both TCP and UDP based applications with layer 2 to layer 7 load balancing support	

Netwo	ork security
	Should support various deployment modes for seamless integration including reverse proxy (IPv6 to IPv4, IPv4 to IPv6) and IPv6 to IPv6 transparent and reverse proxy mode.
22	IPv6 gateway should provide compressive support for IPv6 functions to help with ipv4-to-ipv6 transition without business disruption and must provide support for dual stack, DNS64, NAT 64, DNS 46, NAT 46, IPv6 NAT
21	Should provide full ipv6 support and OEM should be IPv6 gold-certified. OEM should be listed vendor for ipv6 phase-2 certification.
20	Should support OCSP protocol to check the validity of the certificates online. Certificate bases access control, CRL's (HTTP, FTP, and LDAP) support.
19	The appliance should support Certificate format as "OpenSSL/Apache, *.PEM", "MS IIS, *.PFX", and "Netscape, *.DB".
18	Should support certificate parser and solution should integrate with client certificates to maintain end to end security and non-repudiation
17	Should provide secure online application delivery using hardware-based high performance integrated SSL acceleration hardware. SSL hardware should support both 2048 and 4096 bit keys for encrypted application access.
16	Should provide support for cache rules/filters to define granular cache policies based on cache-control headers, host name, file type, max object size, TTL objects etc
15	should provide advanced high performance memory/packet based reverse proxy Web cache; fully compliant with HTTP1.1 to enhance the speed and performance of web servers
14	Appliance should provide real time Dynamic Web Content Compression to reduce server load and solution should provide selective compression for Text, HTML, XML, DOC, Java Scripts, CSS, PDF, PPT, and XLS Mime types.
13	Should provide performance optimization using TCP connection multiplexing, TCP buffering and IEEE 802.3ad link aggregation. Support for TCP optimization options including windows scaling, timestamp & Selective Acknowledgement for enhanced TCP transmission speed TCP optimization option configuration should be defined on per virtual service basis not globally.
IPv6 g	ateway and Application acceleration
12	Should provide application & server health checks for well-known protocols such as ARP, ICMP, TCP, DNS, RADIUS, HTTP/HTTPS, RTSP etc.
11	Traffic load balancing using ePolicies should support algorithms including round robin, least connections, shortest response, persistence IP, hash IP, hash IP and port, consistent hash IP and SNMP
10	Script based functions support for content inspection, traffic matching and monitoring of HTTP, SOAP, XML, diameter, generic TCP, TCPS. Load balancer should support ePolicies to customize new features in addition to existing feature/functions of load balancer
9	Support for policy nesting at layer7 and layer4, solution should able to combine layer4 and layer7 policies to address the complex application integration.
8	Should support Multi-level virtual service policy routing – Static, default and backup policies for intelligent traffic distribution to backend servers
7	The appliance should support server load balancing algorithms i.e. round robin, weighted round robin, least connection, Persistent IP, Hash IP, Hash Cookie, consistent hash IP, shortest response, proximity, SNMP, SIP session ID, hash header etc.

based) including CPU overheated, SSL card, port health, CPU utilization, system memory, process health check and gateway health check to support the failover in complex application environment Should have option to define customized rules for gateway health check - administrator should able to define a rule to inspect the status of the link between the unit and a gateway Support for automated configuration synchronization support at boot time and during run tim to keep consistence configuration on both units. should support floating MAC address to avoid MAC table updates on the upstream routers/switches and to minimize the failover delay Support for multiple communication links for real-time configuration synchronizations including HA group, gateway health check, decision rules, SSF sessions etc and heartbeat information 2 Clustering function should support IPv6 VIP's (virtual service) switchover N+1 clustering support with active-active and active-standby configurations. Global Server Load Balancer The appliance should have feature of GSLB for future requirement Should support global load balancing algorithms like global round robin (grr), VIP based weighted global round robin, global connection overflow, global least connections, IP overflow, Proximity etc., Per host name TTL value control - TTL (Time to live) controls RTO failover and hence could be different for different services w ich needs to have TTL control per host name GSLB (Global Server Load Balancer) for Application Failover across Datacenter - GSLB to be supported on same appliance. The appliance should have ability to select Server F er Site for failover and BCP drills for server selection for application continuity, Should Suppor Topology. GSLB should be capable of monitoring health of application across data center example Primar y site and DR site - GSLB at the primary data center should have intelligence and visibility of application across Datacenter and DR	23	Should support advance ACL's to protect against network based flooding attacks. Administrator should able to define ACL's rules based on connections per second (CPS) and concurrent connections (CC), cookie value.
administrator should able to configure the security policies on per interface basis. Clustering and failover Should provide comprehensive and reliable support for high availability with Active-active & active standby unit redundancy mode. Should support both device level and VA level High availability should support built in failover decision/health check conditions (both hardware and software based) including CPU overheated, SSL card, port health, CPU utilization, system memory, process health check and gateway health check to support the failover in complex application environment Should have option to define customized rules for gateway health check - administrator should able to define a rule to inspect the status of the link between the unit and a gateway to keep consistence configuration synchronization support at boot time and during run tim to keep consistence configuration on both units. should support floating MAC address to avoid MAC table updates on the upstream routers/switches and to minimize the failover delay Support for multiple communication links for real-time configuration synchronizations including HA group, gateway health check, decision rules, SSF sessions etc and heartbeat information Clustering function should support IPv6 VIP's (virtual service) switchover N+1 clustering support with active-active and active-standby configurations. Clustering function should have feature of GSLB for future requirement Should support global load balancing algorithms like global round robin (grr), VIP based weighted global round robin, global connection overflow, global least connections, IP overflow, Proximity etc., Per host name TTL value control - TTL (Time to live) controls RTO failover and hence could be different for different services w ich needs to have TTL control per host name GSLB (Global Server Load Balancer) for Application Failover across Datacenter - GSLB to be supported on same appliance. The appliance should have ability to select Server F er Site for failover and BCP dril	24	
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to keep consistence configuration on both units. should support floating MAC address to avoid MAC table updates on the upstream routers/switches and to minimize the failover delay Support for multiple communication links for real-time configuration synchronizations including HA group, gateway health check, decision rules, SSF sessions etc and heartbeat information Clustering function should support IPv6 VIP's (virtual service) switchover N+1 clustering support with active-active and active-standby configurations. Global Server Load Balancer The appliance should have feature of GSLB for future requirement Should support global load balancing algorithms like global round robin (grr), VIP based weighted global round robin, global connection overflow, global least connections, IP overflow, Proximity etc., Per host name TTL value control - TTL (Time to live) controls RTO failover and hence could be different for different services w ich needs to have TTL control per host name GSLB (Global Server Load Balancer) for Application Failover across Datacenter - GSLB to be supported on same appliance. The appliance should have ability to select Server Fer Site for failover and BCP drills for server selection for application continuity, Should Suppor Topology. GSLB should be capable of monitoring health of application across data center example Primary site and DR site - GSLB at the primary data center should have intelligence and visibility of application across Datacenter and DR	28	Should have option to define customized rules for gateway health check - administrator should able to define a rule to inspect the status of the link between the unit and a gateway
support for multiple communication links for real-time configuration synchronizations including HA group, gateway health check, decision rules, SSF sessions etc and heartbeat information Clustering function should support IPv6 VIP's (virtual service) switchover N+1 clustering support with active-active and active-standby configurations. Global Server Load Balancer The appliance should have feature of GSLB for future requirement Should support global load balancing algorithms like global round robin (grr), VIP based weighted global round robin, global connection overflow, global least connections, IP overflow, Proximity etc., Per host name TTL value control - TTL (Time to live) controls RTO failover and hence could be different for different services w ich needs to have TTL control per host name GSLB (Global Server Load Balancer) for Application Failover across Datacenter - GSLB to be supported on same appliance. The appliance should have ability to select Server Fer Site for failover and BCP drills for server selection for application continuity, Should Suppor Topology. GSLB should be capable of monitoring health of application across data center example Primary site and DR site - GSLB at the primary data center should have intelligence and visibility of application across Data center and DR	29	Support for automated configuration synchronization support at boot time and during run time to keep consistence configuration on both units.
including HA group, gateway health check, decision rules, SSF sessions etc and heartbeat information Clustering function should support IPv6 VIP's (virtual service) switchover N+1 clustering support with active-active and active-standby configurations. Global Server Load Balancer The appliance should have feature of GSLB for future requirement Should support global load balancing algorithms like global round robin (grr), VIP based weighted global round robin, global connection overflow, global least connections, IP overflow, Proximity etc., Per host name TTL value control - TTL (Time to live) controls RTO failover and hence could be different for different services w ich needs to have TTL control per host name GSLB (Global Server Load Balancer) for Application Failover across Datacenter - GSLB to be supported on same appliance. The appliance should have ability to select Server Fer Site for failover and BCP drills for server selection for application continuity, Should Support Topology. GSLB should be capable of monitoring health of application across data center example Primary site and DR site - GSLB at the primary data center should have intelligence and visibility of application across Datacenter and DR	30	, , , , , , , , , , , , , , , , , , , ,
32 Clustering function should support IPv6 VIP's (virtual service) switchover 33 N+1 clustering support with active-active and active-standby configurations. Global Server Load Balancer 34 The appliance should have feature of GSLB for future requirement Should support global load balancing algorithms like global round robin (grr), VIP based weighted global round robin, global connection overflow, global least connections, IP overflow, Proximity etc., Per host name TTL value control - TTL (Time to live) controls RTO failover and hence could be different for different services w ich needs to have TTL control per host name GSLB (Global Server Load Balancer) for Application Failover across Datacenter - GSLB to be supported on same appliance. The appliance should have ability to select Server Fer Site for failover and BCP drills for server selection for application continuity, Should Support Topology. GSLB should be capable of monitoring health of application across data center example Primary site and DR site - GSLB at the primary data center should have intelligence and visibility of application across Datacenter and DR	31	including HA group, gateway health check, decision rules, SSF sessions etc and heartbeat
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TTL (Time to live) controls RTO failover and hence could be different for different services we ich needs to have TTL control per host name GSLB (Global Server Load Balancer) for Application Failover across Datacenter - GSLB to be supported on same appliance. The appliance should have ability to select Server For er Site for failover and BCP drills for server selection for application continuity, Should Support Topology. GSLB should be capable of monitoring health of application across data center example Primary site and DR site - GSLB at the primary data center should have intelligence and visibility of application across Datacenter and DR	35	weighted global round robin, global connection overflow, global least connections, IP
GSLB (Global Server Load Balancer) for Application Failover across Datacenter - GSLB to be supported on same appliance. The appliance should have ability to select Server F er Site for failover and BCP drills for server selection for application continuity, Should Suppor Topology. GSLB should be capable of monitoring health of application across data center example Prima y site and DR site - GSLB at the primary data center should have intelligence and visibility of application across Data ta center and DR	36	TTL (Time to live) controls RTO failover and hence could be different for different services wh
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39 Support DNS Rate Limiting and DNS DDOS Protection		GSLB at the primary data center should have intelligence and visibility of application across Da
	39	Support DNS Rate Limiting and DNS DDOS Protection

40	DNS report per host name - DNS report per host name provides usage trending patterns to help capacity planning	
41	Capable of handling complete DNS bind records including A,MX, AAAA etc.	
42	should support dynamic proximity rules instead of static proximity rules to direct the traffic to closest datacenter	
Management		
43	Centralized management appliance should have extensive reporting and logging with inbuilt tcpdump like tool and log collecting functionality	
44	The appliance should have SSH CLI, Direct Console, SNMP, Single Console per Cluster with inbuilt reporting.	
45	Should support XML-RPC for integration with 3rd party management and monitoring	
46	Should support role based access control with different privilege levels for configuration management and monitoring.	
47	The appliance should provide detailed logs and graphs for real time and time based statistics	