

यू पी इलेक्ट्रानिक्स कारपोरेशन लिमिटेड U.P. Electronics Corporation Limited

(A U P GOVT. UNDERTAKING)

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Date: 08 MAY 2014

Corrigendum-II

RFP for Selection of System Integrator for Implementation of e-Governance in Registration Offices across the State of Uttar Pradesh (e-bid reference no. UPLC/HW/2014/04)

This is reference to invitation of Bid (e-bid reference no. UPLC/HW/2014/04) for Selection of System Integrator for Implementation of e-Governance in Registration Offices across the State of Uttar Pradesh published in News Papers and on e-tender portal http://etender.up.nic.in

As per the provisions mentioned in the Tender Document vide Bid reference no. UPLC/HW/2014/04, the corrigendum-II is issued on following points :-

S.N.	Particulars	
1	Corrigendum to RFP for Selection of System Integrator for	Attached
	Implementation of e-Governance in Registration Offices	
	across the State of Uttar Pradesh.	a
2	Revised BOQ	

The above Corrigendum-II will be an integral part of the e-bid reference no. UPLC/HW/2014/04.

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Deputy General Manager



Corrigendum to RFP for Selection of System Integrator for Implementation of e-Governance in Registration offices across the State of Uttar Pradesh

eBid reference no. UPLC/HW/2014/04

Issued by:

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UPLC published the RFP for selection of System Integrator for Implementation of e-Governance in Registration offices across the State of Uttar Pradesh on 03.03.2014. The Pre-bid conference for the same was held on 20.03.2014 at UPLC's office in Lucknow. UPLC have reviewed the queries received so far. This Corrigendum will become an integral part of RFP and all the terms and conditions / clauses shall be read keeping both the documents accordingly.

S. No.	Section in	Page	Existing clause	Modified Clause
	RFP	no.		
1.	2.2 & 11.3,	24&	The Bidder (Prime Bidder in case of a	The Bidder (Prime Bidder in case of a Consortium) should have a
	point 5	187	Consortium)should have a positive Net Cash	positive Net Cash Accruals of at least INR 30 crores (PAT +
			Accruals of at least INR 30 crores (PAT +	Depreciation – Dividends) in at least one of the last two financial
			Depreciation – Dividends) for the last financial	<u>years</u> i.e. (2011-2012 & 2012-13).
			years i.e. 2010-2011, 2011-2012 & 2012-13).	
2.	2.2 & 11.3	24&	The Bidder (Prime Bidder in case of a	The Bidder (Prime Bidder in case of a Consortium) should have
	point 6	187	Consortium) should have successfully	successfully implemented/implementing two projects worth a
			implemented/implementingat least ONE IT project	combined value (sum of project value of 2 projects) of at least
			with value of at least INR 75 Crores in the last 5	INR 75 Crores in the last 6 financial years (i.e. 2008-09, 2009-
			financial years (i.e. 2008-09, 2009-10, 2010-11,	10, 2010-11, 2011-12, 2012-13&2013-14), in India for any Central
			2011-12 & 2012-13), in India for any Central /	/ State Government / PSUs / Banks from multiple locations
			State Government / PSUs / Banks from multiple	(minimum 150). Thescope of such projects shall include
			locations (minimum 150). The scope of such	hardware supply / IT system integration / networking system
			projects should include hardware supply,	integration.
			deployment / development / customization of	
			application software, networking, and system	Out of the aforementioned 2 projects, at least one project
			integration.	shall be of minimum project value of INR 50 Crores.
			Note: Multiple work orders against individual	
			Project for the delivery of services / products	Note: Multiple work orders against individual Project for the

S. No.	Section in	Page	Existing clause	Modified Clause
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			during the last 5 years shall be considered.	delivery of services / products during the last 6 years shall be
				considered.
3.	2.2 & 11.3,	25&	The Bidder (Prime bidder in case of consortium)	As on 31 st March 2014, the Prime Bidder and the Consortium
	point 9	188	shall have on their rolls as on 31 st March 2013 at	member collectively shall have at least 800 technically qualified
			least 800 technically qualified professionals on its	professionals on their rolls. Out of which, Prime Bidder shall have
			rolls in the area of networking, systems	at least 450 technically qualified professionals on its rolls.
			integration, infrastructure maintenance support &	(Technically qualified professionals would mean professionals in
			services, connectivity etc. Out of which:	the area of networking, systems integration, infrastructure
			for large scale IT projects.	maintenance support & services, connectivity etc.)
				One of the Consortium members shall be able to provide all the
				following resources:
				for large scale IT projects.
4.	3.6.4, 3 rd	39	The existing SWAN bandwidth at Tehsil level is 2	A backup connectivity of L3 MPLS VPN has been envisaged for
	bullet point		Mbps on sharing basis and the uptime of SWAN is	the project.
			not very good especially at Tehsil level, hence a	
			backup connectivity of L3 MPLS VPN has been	
			envisaged for the project.	
5.	3.7, Point 1	43	Enterprise Management System	SI have the option of extending the Client licenses of the EMS
				already available in UP-SDC with 5 year support for updates, OR,
				Supply a new EMS tool with support for 5 years updates.
				Thetechnical specificationsof EMS toolhave been provided in
				Annexure 15.
6.	4.3, point e	50-51	The data centre is to be connected on a minimum	The data centre is to be connected on a minimum 50 Mbps Layer

S. No.	Section in	Page	Existing clause	Modified Clause
	RFP	no.		
			50 Mbps Layer 3 MPLS cloud preferably on Fibre.	3 MPLS cloud preferably on Fibre. The bidder is required to quote
			The bidder is required to quote for 50 Mbps Layer	for 50 Mbps Layer 3 MPLS cloud at Data Centre and dedicated
			3 MPLS cloud and dedicated bandwidth of 02	bandwidth of 02 MBPS at category 'A' SRO and 'B' SRO
			MBPS at category 'A' SRO offices and 512 KBPS	offices and 512 KBPS at 'C' category SRO offices.
			at 'B' and 'C' category SRO offices.	
7.	4.3 (f)	51	The locations for primary & secondary	The locations for primary & secondary connectivity have been
			connectivity have been specified in section	specified in the Annexure 1 of this Corrigendum to RFP. It also
			11.11.2 of the RFP.	specifies the type of Primary connectivity already available at
				some of the SRO locations.
8.	4.3(j)	51	Client expects the bidder MPLS links for the	DR site has been removed from the clause.
			IGRS Data Centre, DR-site and the	
			branches/offices identified by the Department	
			State Data Centre.	
9.	4.3.3	52	Service level agreement (SLA) for connectivity	The revised Service level agreement (SLA) for connectivity has
			• Data centre: 99.5%	been described in Annexure 2.
			All IGRS Offices/Locations: 98%	
10.	4.4	54	Requirement of Database Administrator = 1	Requirement of Database administrator = 2
11.	-		-	Following Technical Field Staff is required in addition to
				manpower mentioned in RFP:
				• From start of operations in a district till end of 1 st year from Go-
				Live – One resource at each district
				• From 2nd year start till completion of project - One resource at
				each Mandal
				Technical resource will assist in supervising the issues at the field

S. No.	Section in	Page	Existing clause	Modified Clause
	RFP	no.		
				level and will provide support in resolving technical issues related
				to software application, system software, Hardware & Networking.
				The minimum qualifications & experience requirements of
				Technical Field Staff will remain same as specified on Page 177 of
				RFP.
12.	4.5	55	The selected SI will be required to set up a	The selected SI will be required to set up a Central Helpdesk,
			Central Helpdesk, through an outsourced third	through an outsourced third party agency or through internal
			party agency,business process related	resources, business process related queries /
			queries / grievances.	grievances.
13.	4.7	60	SI shall ensure Vulnerability assessment done by	NIC will hand over the IGRS software application to SI after
			any CERT-IN empanelled agency designated by	conducting the necessary audits (STQC or through CERT-IN
			the Registration Department as pe	empanelled agency) and after fixing all the non-conformances
			SLAs.	highlighted during audits.
				The requirement of Vulnerability Assessment Toolhas been
				removed from Scope of work of SI.
14.	4.7.2	60	SI will be required to make following consumables	"Consumables for scanners" has been removed from scope of
			available from time to time to ensure smooth	work of SI.
			operations. The SI shall maintain an inventory	,
			adequate for one month's operation at each SRO.	
			Consumables for scanner	
			UPS Batteries	
15.	5.2.3, point	70	Service Measurement Target Penalty	The service level for "Repair / replacement of any faulty
	4		metric basis	component or equipment or system software at data centre" has
			Repair / Time taken in Any issue Rs. 50,000/- replacement repairing or at the per hour of	been modified as follows:

S. No.	Section in	Page	Existing clause				Modifi	ed Clause		
	RFP	no.								
			of any faulty component or equipment or system software at data centre	replacement	data centre shall be resolved within 4 hrs. of reporting of fault	delay in resolution of issue subject to a max. of Rs. 5,00,000/-	Service metric parameter Repair / replacement of any faulty component or equipment or system software at data centre	Measurement basis Time taken in repairing or replacement	Target Any issue impacting services at SRO offices – shall be resolved within 4 hrs. of reporting of default Any other issues at the data centre – shall be resolved within 24 hrs. of reporting of fault	Penalty Rs. 50,000/- per hour of delay in resolution of issue subject to a max. of Rs. 5,00,000/- Rs. 25,000/- per hour of delay in resolution of issue subject to a max. of Rs. 5,00,000/-
16.	5.3	71	i. The tota 10% of beyond contract	I penalty in a the total o 10% of the t with SI.	a year sha contract v total t	Il not exceed alue. Default termination of	The clause has b i. The total pe <u>10% of the</u> total contrac	een modified a enalty to be im Total Contract t value term	s follows: posed on Bidder <u>Value</u> . Default be ination of contract	will be <u>limited to</u> yond 10% of the with SI.
17.	5.4 and	71&	-				Following clause	has been adde	ed to existing claus	es:
	7.35	115					"The total liability RFP will be <u>limite</u>	v of the bidder	towards UPLC / of the contract val	IGRS under this <u>ue".</u>
18.	7.19	104	-				Following clause	has been adde	ed to existing claus	es:
							"h. Confidentialis publicly av	Information do	bes not include info ime of its disclosu	ormation which: re; or
							 is made pub or 	licly available b	by Department follo	owing disclosure;
							 is already kr 	nown to or was	in the possession	of recipient party
							prior to discl	osure under th	is Agreement; or	
							 is or has been 	en independen	tly developed by th	ne recipient Party

S. No.	Section in	Page	Existing clause	Modified Clause
	RFP	no.		
				without using the Confidential Information;
				• is required to be disclosed in accordance with Court order or
				any other statutory or regulatory authority, but the same shall
				be done with consent from Department / UPLC.
19.	7.23	105	-	Following clause has been added to existing clauses:
				"c. In case of Suspension of work, due to reasons not attributable
				to SI, as defined in Points a & b:
				 An extension of time for completion corresponding with the
				delay caused by any such suspension of the works as aforesaid
				shall be granted to the SI on receipt of request by SI. In case SI
				decides to not submit such request, then no extension of
				timelines shall be granted."
20.	7.25	106	Payment schedule	The revised payment schedule is as provided in Annexure 3.
21.	7.34, point	114	i. Any dispute or difference whatsoever arising	i. Any dispute or difference whatsoever arising between the parties
	b — i		between the parties to the Agreement out of	to the Agreement out of or relating to the construction, meaning,
			or relating to the construction, meaning,	scope, operation or effect of the Agreement or validity of the
			scope, operation or effect of the Agreement or	breach thereof, which cannot be resolved through negotiation
			validity of the breach thereof, which cannot be	process, shall be referred to a sole Arbitrator. The sole Arbitrator
			resolved through negotiation process, shall be	for the project shall be the "Principal Secretary of Department of
			referred to a sole Arbitrator to be mutually	Stamps and Registration, GoUP". The decision of the arbitrator
			agreed by both the parties. In the event of	shall be final and binding on the parties to this contract. The
			disagreement between the parties the sole	Arbitration shall be held in Lucknow, India and the language shall
			Arbitrator shall be the Principal Secretary of	be in Hindi only.
			Department of Stamps and Registration,	

S. No.	Section in	Page	Existing clause	Modified Clause
	RFP	no.		
			GoUP. The Provision of Arbitration and	
			Conciliation Act 1996 shall apply. The	
			Arbitration shall be held in Lucknow, India and	
			the language shall be English only.	
22.	7.35	115-	Limitation of the bidder's liability towards UPLC /	Following clause has been added in the Section 7.35 - Limitation
		116	IGRS	of the bidder's liability towards UPLC / IGRS:
				g. Liability for Content – Departmentshall be fully responsible for
				the content of the data provided to the Bidder for use during the
				project and data entry carried through the resources (hardware
				etc.) provided by Bidder at SRO and other Departmental offices.
				Department shall use the same in accordance with all applicable
				statutory or regulatory rules, regulations and guidelines.
				Department shall not use the resources for sending any data or
				messages which is/are offensive, abusive, indecent and obscene
				or in violation of any Applicable Law. Department shall be solely
				liable and responsible for any breach of the aforesaid obligation(s)
				and no liability arising from such breach shall be imposed on the
				Bidder. Department shall indemnify and keep the Bidder
				indemnified against all costs, claims, damages or proceedings
				arising out of breach of this clause.
23.	7.41.3	120	The Bidder shall not assign to others, in whole or	"The Bidder shall not assign to others, in whole or in part, their
			in part, their obligation to perform under this	obligation to perform under this Agreement, except with UPLC's /
			Agreement, except with UPLC's prior written	Department's prior written consent. Sub-contracting will only
			consent. Bidder (Prime bidder in case of	be limited to Site preparation and Connectivity activities.

S. No.	Section in	Page	Existing clause	Modified Clause
	RFP	no.		
			Consortium) will remain solely liable for all work /	Bidder (Prime bidder in case of Consortium) will remain solely
			obligations under this agreement	liable for all work / obligations under this agreement."
24.	10.2	154	Bill of material for Client locations	The revised Bill of Material for Client Locations has been provided
				in Annexure 4.
25.	10.3	155	Annexure – Bill of material for State Data Centre	The revised Bill of Material for State Data Centre has been
				provided in Annexure 5.
26.	10.4.1	156	Minimum technical specifications of Blade	The revised minimum technical specifications of Blade Chassis
			Chassis	have been provided in Annexure 6.
27.	10.4.2	158	Minimum technical specifications of Blade Server	The revised minimum technical specifications of Blade Server
				have been provided in Annexure 7.
28.	10.4.3, (5)	161	The switch shall support different port types such	The switch shall support different port types such as FL_Port,
			as FL_Port, F_Port, E_Port, EX_Port	F_Port, E_Port / EX_Port
29.	10.4.4	161	Minimum Technical Specifications of SAN Storage	The revised minimum Technical Specifications of SAN Storage
				have been provided in Annexure 8.
30.	10.4.5	163	Technical specifications of Tape Library	The technical specifications of Tape Library have been DELETED.
				Instead of Tape Library only cartridge shall be supplied by the
				bidder for LTO6 tape drive available in UP-SDC
31.	10.4.6	164	Technical specifications of Backup Software	The technical specifications of Backup software have been
				DELETED.
32.	10.4.7	165	Minimum Technical Specifications of LCD	The revised minimum technical specifications of LCD signature
			Signature Tablet	tablet are as follows:
				Display – MonochromeReflective TFT LCD
				Size - 10.2 x 7.6 cm (diagonal 5")
1		1		 Resolution (max) - 640 x 480 pixels

S. No.	Section in	Page	Existing clause	Modified Clause
	RFP	no.		
				 Protective screen - Anti-glare Other - Real-time visualisation of the signature on screen Pen and tablet Reading method - Electromagnetic Resonance (EMR) Battery-free & cordless pen - Yes Data interfaces Full speed - USB Power management - USB BUS power Data cable - USB Device shall have drivers for Linux, Windows 7 & 8 operating systems Shall be from a reputed brand
33.	10.4.8 and	166-	Minimum Technical Specifications of Firewall and	Requirement of Firewall and IPS has been removed from Scope of
	10.4.9	167	IPS	work of SI.
34.	10.4.12	170	Minimum Technical Specifications of Server (to be used at Category A, B, C SRO offices)	The revised minimum technical specifications of Server (to be used at Category A, B, C SRO offices) have been provided in Annexure 9.
35.	10.4.14	172	Minimum Technical Specifications of Biometric device	The revised minimum technical specifications of Biometric Device have been provided in Annexure 10.
36.	10.4.15	172	Minimum Technical Specifications of Digital Camera	 The revised minimum technical specifications of Digital Camera are as follows: Digital Camera with 10 Mega Pixels or higher with minimum 3x optical zoom, 05 years on-site warranty Device shall have drivers for Linux, Windows 7 & 8 operating systems Shall be from a reputed brand like Samsung, Nikon, Canon, Sony, Fujifilm, etc. Hi-Speed USB 2.0 certified

S. No.	Section in	Page	Existing clause	Modified Clause
	RFP	no.		
				Digital Still Imaging & High-definition video
				Tripod / camera stand for holding camera in still position
37.	10.4.16	172	Network Laser Printer	Additional requirement:
				"The printer shall have Drivers available for Linux and Windows
				operating system"
38.	10.4.17	172	16 port 10/100/1000 unmanaged switch	The revised specifications for 16 Port 10/100/1000 unmanaged
				switch have been specified in Annexure 11.
39.	10.4.18	172-	The DG set shall be – "Air cooled"	The revised requirement shall be read as – "Air / Liquid Cooled"
		173		
40.	10.4.22	175	Min. technical specifications of "Offline / line	The technical specifications of "Offline / line interactive UPS" have
			interactive UPS"	been DELETED and requirement for Offline / line interactive UPS
				has been removed
41.	11.11.2.2	204	Detailed break up of Financial Bid	The revised format for "Detailed break up of Financial bid" has
				been provided in Annexure 12.
42.	-	-	Router	Router with necessary network security features to be deployed at
				SRO offices (354 locations). The OEMof router should be listed in
				any quadrant of independent technology and market research
				companies like Gartner and Forrester research.
43.	-	-	Load Balancer	Technical specifications of Load Balancer have been provided in
				Annexure 13.
44.	-	-	-	Technical Specifications of existing infrastructure at State Data
				Centre has been provided in Annexure 14.
45.	15	-	Abbreviations – IGRS	IGRS will mean – Inspector General of Stamps & Registration, UP,
				acting on behalf of Dept. of Stamps and registration, UP

Annexure 1 – Locationsfor Connectivity and status of availability

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
1	Meerut	Meerut	सदर—1	Completed	RF
2			सदर–2	Completed	RF
3			सदर–3		
4			सदर–4		
5			सरधना	Completed	RF
6			मवाना	Completed	RF
7		Ghaziabad	सदर—1	Completed	RF
8			सदर–2		
9			सदर–3		
10			सदर–4		
11			सदर–5		
12			मोदीनगर		
13		Hapur	हापुड़—1		
14			हापुड़–2		
15			गढ़मुक्तेश्वर		
16			घौलाना		
17		Baghpath	बड़ौत	Completed	Cat6
18			बागपत	Completed	RF
19			खेकड़ा	Completed	Cat6
20	G B Nagar	G B Nagar	नोयडा–1	Completed	Lease line
21			नोयडा–2		
22			नोयडा–3		
23			गौतमबुद्धनगर	Completed	RF
24			दादरी	Completed	Cat6
25			जेबर	Completed	RF
26		Bulandshehr	सदर–1	Completed	RF
27			सदर–2		
28			अनुपशहर	Completed	RF
29			खुर्जा	Completed	RF
30			सिकन्दराबाद		RF
31			शिकारपुर		RF
32			स्याना		RF

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
33			डिबाई	Completed	RF
34	Saharanpur	Saharanpur	सदर–1		
35			सदर–2		
36			सदर–3		
37			देवबन्द		
38			रामपुर मनि0		
39			नुकुड़		
40			बेहट		
41		Muzzafanagar	सदर–1		
42			सदर–2		
43			जानसट		
44			बुढ़ाना		
45			खतौली		
46		Shamli	शामली		
47			कैराना		
48	Muradabad	Muradabad	सदर–1		
49			सदर–2		
50			बिलारी		
51			ठाकुरद्वारा		
52			कांठ		
53		Sambhal	चन्दौसी		
54			सम्भल		
55			गुन्नौर		
56		Bijnor	सदर		
57			चॉदपुर		
58			धामपुर		
59			नजीबाबाद		
60			नगीना		
61		Rampur	सदर		
62			विलासपुर		
63			मिलक		
64			स्वार		
65			शाहाबाद		
66			टान्डा		

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
67		Amroha	अमरोहा		
68			हसनपुर		
69			धनौरा		
70	Bareli	Bareli	सदर–1		
71			सदर–2		
72			बहेड़ी		
73			ऑवला		
74			फरीदपुर		
75			नवाबगंज		
76			मीरगंज		
77		Badayun	सदर–1		
78			सदर–2		
79			विसौली		
80			दातागंज		
81			सहसवान		
82			बिल्सी		
83		Shahjahapur	सदर–1		
84			पुवायॉ		
85			तिलहर		
86			जलालाबाद		
87		Peelibeeth	सदर		
88			पूरनपुर		
89			बीसलपुर		
90	Agra	Agra	सदर–1		
91			सदर–2		
92			सदर–3		
93			सदर–4		
94			सदर–5		
95			एतमादपुर		
96			किरावली		
97			खैरागढ़		
98			फतेहाबाद		
99			वाह		
100		Mathura	सदर–1		

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
101			सदर—2		
102			छाता	Completed	RF
103			मॉट	Completed	RF
104			महावन	Completed	RF
105		Mainpuri	सदर		
106			भोगाव		
107			करहल		
108		Ferozabad	सदर–1		
109			सदर–2		
110			टूण्डला		
111			शिकोहाबाद		
112			जसराना		
113	Aligarh	Aligarh	सदर–1		
114			सदर–2		
115			सदर–3		
116			खैर		
117			अतरौली		
118			इगलास		
119			गभाना		
120		Hathras	हाथरससदर		
121			सादाबाद		
122			सिकन्दराराऊ		
123			सासनी		
124		Kasgunj	कासगंज		
125			पटियाली		
126			सहावर		
127		Etah	सदर		
128			अलीगंज		
129			जलेसर		
130	Kanpur	Kanpur city	सदर—1		
131			सदर–2		
132			सदर–3		
133			सदर–4		
134			घाटमपुर		

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
135			बिल्हौर		,
136		Kanpur rural / Ramabai Nagar	अकबरपुर		
137			रसूलाबाद		
138			भोगनीपुर		
139			डेरापुर		
140			सिकन्दरा		
141		Farokabad	सदर		
142			कायमगंज		
143			अमृतपुर		
144		Etawah	सदर		
145			भरथना		
146			जसवन्तनगर		
147			चकरनगर		
148			सैफई		
149		Auriya	सदर		
150			बिधूना		
151		Kannonj	कन्नौज		
152			छिबरामऊ		
153			तिर्वा		
154	Lucknow	Lucknow	सदर–1	Completed	RF
155			सदर–2		
156			सदर–3		
157			सदर—4		
158			सदर–5		
159			मोहनलालगंज	Completed	Cat6
160			मलिहाबाद	Completed	RF
161			बख्शीकातालाब	Completed	RF
162		Unnao	सदर	Completed	Cat6
163			हसनगंज	Completed	RF
164			सफीपुर	Completed	RF
165			पुरवा	Completed	Cat6
166			बीघापुर	Completed	Cat6
167		Raebareily	सदर	Completed	Cat6

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
168			महराजगंज	Completed	RF
169			लालगंज	Completed	RF
170			ऊँचाहार		RF
171			डलमऊ	Completed	Cat6
172	Seetapur	Seetapur	सदर	Completed	RF
173			मिश्रिख	Completed	RF
174			बिसवॉ	Completed	RF
175			महमूदाबाद	Completed	Cat6
176			लहरपुर	Completed	RF
177			सिधौली	Completed	Cat6
178		Hardoi	सदर	Completed	RF
179			संडीला	Completed	RF
180			बिलग्राम	Completed	RF
181			शाहाबाद	Completed	RF
182			सवायजपुर	Completed	RF
183		Kheri	सदर	Completed	RF
184			मोहम्मदी	Completed	RF
185			गोला	Completed	RF
186			धौरहरा	Completed	RF
187			निधासन	Completed	RF
188			पलिया	Completed	RF
189	Jhansi	Jhansi	झांसी—1		
190			झांसी–2		
191			मऊरानीपुर		
192			मोठ		
193			गरौठा		
194			टहरौली		
195		Jalaun	उरई		
196			कोंच		
197			माधवगढ़		
198			जालौन		
199			कालपी		
200		Lalitpur	सदर		
201			मेहरौनी		

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
202			तालबेहट		
203	ChitrakootD	Chirakoot	सदर		
204	liaili		मऊ		
205		Hameerpur	सदर		
206			मौदहा		
207			राठ		
208			सरीला		
209		Banda	सदर		
210			अर्तरा		
211			बबेरू		
212			नरैनी		
213		Mahoba	सदर		
214			कुलपहाड़		
215			चरखारी		
216	Gorakhpur	Gorakhpur	सदर—1		
217			सदर–2		
218			गोला		
219			सहजनवॉ		
220			बॉसगॉव		
221			खजनी		
222			चौरी–चौरा		
223			कैम्पीयरगंज		
224		Devariya	सदर		
225			सलेमपुर		
226			रूद्रपुर		
227			भॉटपार		
228			बरहज		
229		Maharajgunj	सदर		
230			निचलौल		
231			नौतनवा		
232			फरेदा		
233		Kushinagar	सदर		
234			हाटा		
235			तमकुहीराज		

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
236			कसयॉ		
237	Azamgarh	Azamgarh	सदर		
238			सगड़ी		
239			फूलपुर		
240			लालगंज		
241			बूढ़नपुर		
242			निजामाबाद		
243			मेहनगर		
244		Baliya	सदर		
245			रसड़ा		
246			बॉसडीह		
247			बेल्थरारोड		
248			बैरिया		
249			सिकन्दरपुर		
250		Mau	सदर		
251			मो0 गोहना		
252			घोसी		
253			मधुबन		
254	Basti	Basti	सदर		
255			हरैया		
256			भानपुर		
257			रूधौली		
258		Siddharthnagar	नौगढ़		
259			बॉसी		
260			डुमरियागंज		
261			इटवा		
262			सोहरतगढ़		
263		Santkabeernag ar	खलीलाबाद		
264			मेहदावल		
265			घनघटा		
266	Faizabad	Faizabad	सदर		
267			रुदौली		
268			बीकापुर		
269			मिल्कीपुर		

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
270			सुहावल		
271		Sultanpur	सदर		
272			कादीपुर		
273			लम्हुआ		
274			जयसिंहपुर		
275		Barabanki	सदर		
276			फतेहपुर	Completed	RF
277			हैदरगढ़	Completed	RF
278			रामनगर	Completed	RF
279			रामसनेहीघाट	Completed	RF
280			सिरौली	Completed	RF
281		Ambedkar Nagar	अकबरपुर		
282		Hugui	जलालपुर		
283			टान्डा		
284			आलापुर		
285			भੀਟੀ		
286		Amethi	अमेठी		
287			मुसाफिरखाना		
288			सलोन	Completed	Cat6
289			गौरीगंज		
290			तिलोई		RF
291	Devipatan	Gonda	गोण्डा		
292			कर्नेलगंज		
293			तरबगंज		
294			मनकापुर		
295		Bahraich	कैसरगंज		
296			सदर		
297			महसी		
298			नानपारा		
299		Balrampur	तुलसीपुर		
300			उतरौला		
301			बलरामपुर		
302		Shravasti	भिनगा		
303			इकौना		

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
304	Varanasi	Varanasi	सदर–1		
305			सदर–2		
306			सदर–3		
307			सदर–4		
308			पिन्डरा		
309			गंगापुर		
310			रामनगर		
311		Jaunpur	सदर		
312			मछलीशहर	Completed	RF
313			शाहगंज	Completed	RF
314			केराकत	Completed	RF
315			मड़ियाहूँ	Completed	RF
316			बदलापुर	Completed	RF
317		Ghazipur	मुहम्मदाबाद		
318			सदर		
319			जमानिया		
320			सैदपुर		
321			जखनियाँ		
322		Chandouli	सदर		
323			सकलडीहा		
324			चकिया		
325	Vindhyachal	Mirzapur	सदर		
326			चुनार		
327			मड़िहान		
328			लालगंज		
329		Sonbadhra	सदर		
330			घोरावल		
331			दुद्धी		
332		Santravidasnag ar	ज्ञानपुर		
333			भदोही		
334			औराई		
335	Allahabad	Allahabad	सदर–1		
336			सदर–2		
337			सोराव	Completed	RF

S. No.	Mandals	District	SRO office	SWAN connectivity completed or not	Type of SWAN connectivity
338			फूलपुर	Completed	RF
339			हड़िया	Completed	RF
340			मेजा	Completed	RF
341			करछना	Completed	RF
342			बारा	Completed	RF
343			कोरॉव	Completed	RF
344		Fatehpur	सदर		
345			बिन्दकी		
346			खागा		
347		Pratagarh	सदर		
348			कुन्डा		
349			पट्टी		
350			लालगंज		
351			रानीगंज		
352]	Kausambi	मंझनपुर		
353			चायल		
354			सिराथू		

Annexure 2 - Service Level agreement (SLA) for connectivity

The revised service levels for Connectivity are as follows:

S. No.	Service metric parameter	Measurement basis	Target	Penalty
1.	Connectivity uptime at SRO offices	Uptime will be calculated on monthly basis as follows = (Total uptime of connectivity during office hrs.) / (Total office hrs. in a month)	98%	 Uptime till 98% at all offices – No penalty 95% =< Uptime < 98% - 5% of monthly bill per office having uptime between 95% and 98% Uptime < 95% - 10% of monthly bill per office with uptime below 95% to a maximum of overall penalty limits
2.	Connectivity uptime at Data centre (for connectivity provided by SI)	Uptime will be calculated on monthly basis as follows = (Total uptime of connectivity in hrs.) / (Total hrs. in a month) Downtime because of Data Centre Operator or DC components will not be accounted for penalty purposes.	99.5%	 Uptime till 99.5% at DC – No penalty 97% =< Uptime < 99.5% - 5% of monthly bill Uptime < 97% - 10% of monthly bill to a maximum of overall penalty limits

Annexure 3 – Revised Payment Schedule

The payment schedule has been revised as follows:

S. No.	Payment Schedule	Fee Payable	Documents
Data Cer	ntre – Installation and Commis	ssioning of hardware, net	work components and site preparation
and AMC	support		
1.	Successful commissioning	80% of (E-1) (as per	Payments against the following:
	of hardware, networking	actual deployment)	 Original Invoice (on actual basis)
	components, etc. with site		Insurance Certificate
	preparation at state data		 Pre–Dispatch Inspection Report
	centre (Except for		issued by UPLC / IGRS
	Application Software		Successful commissioning
	developed by NIC)		certificate
2.	Successful installation and	80% of F (as per actual	Penalties, if any,as per provisions of
	commissioning of all system	deployment)	RFP shall be deducted from
	software, database and		payments
	other software tools at Data		Copy of BG submitted to UPLC /
	centre		IGRS
3.	Successful deployment of	15% of (E-1) + 10% of F	Payment against:
	Software Application of	(as per actual	Original invoice
	IGRS (provided by NIC) at	deployment)	Acceptance certificate from IGRS /
	Data centre, OR, 6 months,		UPLC for successful deployment of
	whichever is earlier		Software at Data Centre to be done
			by NIC and facilitated by SI, OR,
			successful completion of 6 months
			Penalties, if any, as per provisions
			of RFP, shall be deducted from
			payments
			Copy of BG submitted to UPLC /
			IGRS
4.	Successful completion of 3	5% of (E-1) (as per	Payments against the following:
	years from Commissioning	actual deployment)	 Original Invoice along with
	of hardware		performance report
5.	Successful delivery of	(E-2 + 10% of F)	Certificate from UPLC / IGRS for the
	warranty services after 3	distributed in 4 equal	successful completion of services
	years of commissioning of	half-yearly instalments	Penalties, if any, as per provisions of
	hardware till completion of 5	(as per actual	RFP, shall be deducted from
	years	deployment)	payments
			Copy of BG submitted to UPLC /

S. No.	Payment Schedule		Fee Payable	Documents
			IGR	S
Client lo	cations / IGRS offices – For in	sta	allation, commissioning and A	MC support for Hardware at
client loo	cations, Primary Connectivity	an	d Site preparation (as per BO	M) for Client locations
6.	Successful commissioning of hardware, networking, connectivity with site preparation at Lucknow, Agra, Kanpur, Allahabad & Meerut Mandals of the IGRS offices and deployment of Technical resource at District level	•	80% of cost of hardware, site preparation and primary connectivity (one time charges) commissioned on actual no. of sites using unit rates provided in A-1 & C-1 10% on successful commissioning of IGRS software application at SRO offices of these Mandals, OR, 6 months from	 Payments against the following: Original Invoice Insurance Certificate Pre-Dispatch Inspection Report issued by UPLC / IGRS Successful commissioning certificate of hardware Successful commission certificate for software (as per BOM)
7.	Successful commissioning	•	commissioning of hardware, whichever is earlier 80% of cost of hardware, site	 Penalties, if any, as per provisions of RFP, shall be deducted from payments
	of hardware, networking, connectivity systems software (except Application software) with site preparation at Moradabad, Faizabad, Bareilly, Aligarh & Saharanpur Mandals of the IGRS offices and deployment of Technical resource at District level	•	preparation and primary connectivity (one time charges) commissioned on actual no. of sites using unit rates provided in A-1 & C-1 10% on successful commissioning of IGRS software application at SRO offices of these Mandals, OR, 6 months from commissioning of hardware, whichever is earlier	 List of resources and contact nos. of Technical Filed staff deployed at Districts Copy of BG submitted to UPLC / IGRS
8.	Successful commissioning of hardware, networking, connectivity, software (except application software) with site preparation at remaining Mandals of the IGRS offices (SI will play a role of facilitator to NIC)	•	80% of cost of hardware, site preparation and primary connectivity (one time charges) commissioned on actual no. of sites using unit rates provided in A-1 & C-1 10% on successful commissioning of IGRS software application at SRO	

S. No.	Payment Schedule	Fee Payable	Documents
		offices of these Mandals, OR, 6 months from commissioning of hardware, whichever is earlier	
9.	Successful completion of operations for 3 years after Go-Live of project	Remaining 10% for each of the above phases of deployment of hardware	 Payments against the following: Original Invoice along with performance report Certificate from IGRS/UPLC for the successful completion of 3 years from Go-Live of project Penalties, if any, as per provisions of RFP, shall be deducted from payments Copy of BG submitted to
10.	Completion of 1 st year of extended warranty	Cost of (A-2 + B-2 + C-2) to be paid over 4 half yearly equal instalments	UPLC / IGRS Payments against the following: • Original Invoice along with performance report
11.	Completion of 2 nd year of extended warranty		 Certificate from IGRS/UPLC for the successful completion of the 1st / 2nd year of extended warranty Penalties, if any, as per provisions of RFP, shall be deducted from payments Copy of BG submitted to UPLC / IGRS
Connect	ivity (Secondary)	1	1
12.	Payment for Bandwidth and O&M	On Quarterly basis for sites commissioned	 Payments against the following: Submission of original invoice by SI along with performance report Penalties, if any, as per provisions of RFP, shall be deducted from payments Copy of BG submitted to UPLC / IGRS

Annexure 4 – Revised Bill of Material for Client Locations

The revised BOM for Client Locations is as follows:

S. No.	IT Components	IG Offices	DIG	AIG	SRO		Total	
					А	B	С	
		3	23	92	60	165	109	
1.	Server	0	0	0	60	165	109	334
2.	Laptop	3	23	92	0	0	0	118
3.	Desktop	4	0	0	300	660	327	1366
4.	Digital Camera	0	0	0	240	495	218	953
5.	Biometric devices	0	0	0	300	660	327	1362
6.	LCD Signature Tablet	0	0	0	240	495	218	953
7.	Printers	4	23	92	240	495	218	1072
8.	LAN Switch – 16 Ports	1	0	0	60	165	109	335
9.	UPS 6 KVA	1	0	0	60	165	109	335
10.	LAN Cabling	7	0	0	585	1155	545	2292
11.	DG set – 10 KVA	0	0	0	0	165	109	274
12.	Network Rack	1	0	0	60	165	109	335

Note: One Desktop at each SRO and Laptop will be supplied with Windows 8.1 SL Operating System (with Microsoft Defender) while all remaining desktops at SRO offices will be supplied withRed Hat Linux / SUSE Linux / Ubuntu Linux based Operating System (OS).

Annexure5 - Bill of material at State Data Centre

The modified requirements are as follows:

The minimum quantities of Bill of material required at the data centre are as follows. The SI is required to propose a BOM suitable for meeting the requirements of project and SLAs as defined in the RFP / corrigendum for the project. In case any critical component of the solution is missed as a part of the bid, then the same shall be provided by SI during implementation at no additional cost to Department.

The revised BOM for hardware at Data centre is as follows:

Min. Hardware BOM for Data Centre Note: SI is bound to optimize line item 1 to 15 mentioned in this table as per space available within UP-SDC				
S.No.	Items	Quantity		
Blade Servers				
1.	Blade chassis	2		
2.	Web Server	2		
3.	Application Server	2		
4.	Database Servers	2		
5.	File Servers	2		
6.	Standby Server	1		

Min. Hardware BOM for Data Centre Note: SI is bound to optimize line item 1 to 15 mentioned in this table as per space available within UP-SDC				
S.No.	Items	Quantity		
7.	Staging and testing server	1		
Storage				
8.	Storage SAN Box (40 TB usable capacity after RAID 5)	1		
9.	24 Port SAN Switch for SAN Connectivity	2		
10.	Cartridge for LTO6 tap drive available in UP-SDC	10		
Network components				
11.	IP KVM Switch, LCD Monitor & keyboard	1		
12.	L2 Switch	4		
13.	Router module / card for existing router of SDC	2		
14.	Module for External firewall of SDC	2		
15.	Load Balancer	3		

The revised BOM for Software applications / tools required at Data Centre has been revised as follows:

Min. Software BOM for Data centre				
S. No.	Items	Item Description	Quantity	
1.	Enterprise Linux Server	For Server OS	10	
2.	Cluster Suit / High Availability		6	
3.	Oracle Database Enterprise Edition Processor with Real Application Cluster, Partitioning, Diagnostic Pack, Tuning Pack, and Data Vault	For Database	As per Sizing / Core Requirement	
4.	Oracle Web Logic Enterprise Edition	For Application server	As per Sizing / Core Requirement	
5.	SAN Storage Management Software	For SAN management including 3 years Support	1	
6.	Enterprise Management system (EMS)	SI have the option of either extending the Client licenses of the EMS already available in UP-SDC with 5 year support for updates, OR, Supply new EMS toolwith 5 year support for updates. The Technical specifications for EMS have been provided in Annexure 15.	As per Sizing of infrastructure	

<u>NOTE: In Bill of Quantity, please quote Single Entity for SN.3 & 4 as per Sizing / Core</u> <u>Requirement.</u>

Annexure 6 – BladeChassis

The revised minimum technical specifications for Blade Chassis are as follows:
--

S. No.	Item	Description	Compliance
			(Yes/No)
1.	Blade	Solution to house at least 14 Dual Socket Blade Servers or 7	
	Chassis	Quad Socket Blade Servers in enclosures. Industry standard	
		suitable for housing in Industry Standard Server Racks.	
		It should have support for Dual Socket and Quad Socket blades	
		in the same enclosure, occupying 9U-12U rack units.	
		Additional 2 nos. of minimum slots should be available within the	
		offered enclosures after populating 12 dual socket Blade	
		Servers for further scalability of servers.	
		Same enclosure should support Intel Xeon/AMD /	
		RISC/EPIC based blades	
		Should support Redundant Management Modules.	
		Dual network connectivity for each blade server for redundancy	
		should be provided	
		DVD ROM can be internal or external, which can be shared by	
		all the blades allowing remote installation of S/w and OS	
		Support simultaneous remote access for different servers in the	
		enclosure.	
2.	Interconnect	Should support housing of Ethernet, FC, iSCSI, IB interconnect	
		fabrics, offering Hot Pluggable & Redundancy as a feature.	
		Enclosure Should have No-Single-Point-of-Failure Architecture	
		with adequate numbers of Interconnect Bays.	
3.	Blade Server	Redundant 10 Gbps Ethernet modules should be provided each	
	Interconnect	with minimum 4 x 10Gbps SFP+ and minimum 4 x 1Gbps ports	
	to LAN/	(overall) along with minimum dedicated 10Gbps downlink	
	Network	connection to the blade chassis. Each Ethernet module should	
		support minimum 10 Nos. of 10Gbps or 1Gbps uplink ports.	
4.	Blade Server	Redundant Fibre channel modules each with minimum 4 x	
	Interconnect	8Gbps uplinks expandable to at least 6 uplink ports is to be	
	to ext. FC	provided. The modules should be configured to connect to	
	SAN	atleast one FC port of each blade FC HBA and at the same time	
		providing any or both card / port level redundancy.	
5.	Power	The enclosure should be populated fully with power supplies of	
	Supply	the highest capacity available with the vendor. Power supplies	
		should support N+N as well as N+1 redundancy configuration,	
		where N is greater than 1.	
		Should offer choice of a single phase or 3 phase power	
		subsystem for flexibility in connecting to data centre power	
		enabled with technologies for lower power consumption	
6.	Cooling	Each blade enclosure should have a cooling subsystem	
		consisting of redundant hot pluggable fans or blowers enabled	
		with technologies for improved power consumption and	
		acoustics.	
7.	Warranty	Onsite comprehensive warranty for 5 years with 24 x 7 support	
		with 4 hrs. response time.	
8.	System	Management/controlling software have to be from the OEM	
	Software	itself. Management software licenses for a fully populated blade	

S. No.	Item	Description	Compliance
		analogura aball ba provided	(res/NO)
		enciosure snall de provided.	
		It should provision for a single console to monitor multiple	
		enclosures and should support simultaneous remote access for	
		The management software should provide proactive notification	
		of actual or impending component failure alerts. Should support	
		automatic event handling that allows notification of failures via e-	
		mail.	
		Should be able to perform comprehensive system data	
		collection and enable users to quickly produce detailed inventory	
		reports for managed devices. Software shall save the reports in	
		some format for further analysis.	
		Should help to proactively identify out-of-date BIOS, drivers, and	
		Server Management agents and enable the remote update of	
		system software/ firmware components.	
9.	Deployment	Must have the capability of deploying multiple Operating	
		Systems on the servers simultaneously and also be able to	
		schedule deployment as and when needed	
		Must have the capability of capturing and deploying OS images.	
		Must have the capability of configuring the hardware and	
		changing system settings such as RAID level before the	
		deployment of the Operating System. Must also have the	
		capability of capturing the hardware settings and replicating it	
		across servers.	
10	Remote	Must have real time Virtual KVM functionality and be able to	
10.	Management	perform a remote Power sequence. Must provide both Java /	
	management	Java-free browsing ontions	
		Must have the ability to man the remote media to the server	
		Also must have the ability to transfer files from the user's	
		deskton/lanton folders to the remote server with only the	
		network connectivity	
		Must have the ability for multiple administrators across remote	
		locations to collaborate on the remote session even in a server	
11	Porformanco	Must have the ability to perform a bardware level (22 bit / 64 bit)	
	Management	monsurement Must also monitor CPU I/O Momony Storage 8	
	& Alerting	Network	
	a Alerting	Must have the ability to provide comprehensive	
		recommendations for the issue and the recolution	
		Must have the ability to automatically trigger events and alorts	
		house have the ability to automatically trigger events and alerts	
40	Intogratica	Must have the ability to get event and trans from the Deter	
12.	megration	Control aquipment. Also must integrate with the higher land	
	with Easternation	Centre equipment. Also must integrate with the higher level	
	⊏nterprise	management such as Open view, Tivoli & Uni-Centre. Must also	
	ivianagement	nave the ability to send the alerts to required administrator for	
	sonware		
13.	Contract &	I nere shall be an option to track warranty information of servers	
	vvarranty	and also send alerts when the warranty is about to expire	
	Management	through website or alerts. Necessary reports, if required, can be	
		generated.	

S. No.	Item	Description	Compliance (Yes/No)
14.	Power Management	Must be able to show the actual power usage and actual thermal measurements data of the servers. Must also show a historical trend of power and temperature and show comprehensive power reports.	
		Must be able to automatically shut down the servers if required, based on user policies and schedules.	
		Must be able to cap the power of individual server or a group of servers. Must be able to intelligently assign the power to the appropriate server in the pool based on policy settings.	
15.	Licenses	Should include all necessary licenses for management for a fully loaded chassis.	
16.	Additional requirements	All functionalities and software shall be available from day 1 of deployment.	
17.		Manufacturershould be listed in any quadrant of independent technology and market research companies such as Gartner and Forrester Research.	

Annexure 7 – BladeServer

The revised minimum Technical Specifications of Blade server are as follows:

S. No.	Item	Description
1.	Processor	Latest generation x86-64 processor, 4 nos. of Intel 8 Core E5-4620
		processor or Higher, based on Intel C600 or higher series chipset, offering
		16 MB shared L3 cache (Depends on processor)
2.	Memory	Min. 256 GB DIMMS scalable to at least upto 1TB, using DDR3 Load
		Reduced DIMM (LRDIMM) memory modules.
3.	Memory	Data bus ECC protection
	Protection	Rank sparring (on line spare)
		 DIMM address/control bus parity protection
		Failed DIMM isolation
		 Demand / Memory scrubbing (optional)
		Memory thermal control (optional)
4.	Hard disk drive	2 * 300 GB hot plug SFF SAS drives.
5.	Storage Controller	Integrated PCIe 3.0 SAS Raid Controller with RAID 0/1/5with at least
		512MB of cache onboard.
6.	Networking	 Server should support 4 port 1Gpbs network adaptor along with
	features	dedicated 1Gbps Management port
		 Embedded two Dual Port 10GbE Ethernet ports
7.	Interfaces	Minimum of 1 * internal USB 2.0 port and / OR 1* internal SDHC card slot
8.	Blade Server	Should be capable of supporting / configured with a 8Gbps Dual port Fiber
	Connectivity to	Channel HBA internal to the Server Blade.
	SAN	
9.	Bus Slots	Minimum of 2 Nos. of PCIe 3.0 based mezzanine slots supporting
		Ethernet, FCadapters and should be x16 slots
10.	Graphics	Integrated G200 / equivalent

S. No.	Item	Description
11.	Industry Standard	ACPI 2.0
	Compliance	Microsoft® Logo certifications
		USB 2.0 Support
		IMPI 2.0
		Secure Digital 2.0
		TMP 1.2 Support
		IEEE (specific IEEE standards depending on Ethernet adapter card(s)
		installed)
		Advanced Encryption Standard (AES)
		SNMP
		SSL 2.0
		Active Directory V1.0
- 10		
12.	OS Support	Microsoft Windows 2008 R2
		Microsoft Windows 2008 (32 bit / 64 bit)
		Microsoft Windows Server 2008 Standard Edition (32 bit / 64 bit)
		Red Hat Enterprise Linux (latest version $-5.7/6.0$ etc.) (32 bit / 64 bit)
		SUSE LINUX Enterprise Server 11 (32 bit / 64 bit)
		SUSE LINUX Enterprise Server 10 (32 bit / 64 bit)
		VMware ESX 4.1
		VMware ESXi 5.0
13.	Warranty	Onsite comprehensive warranty of 5 years with 24x7 support and 4 hour
		response
14.	Provisioning	Essential tools, drivers, agents to setup, and deploy the server should be
		embedded inside the server. There should be a built -in Update manager
		that can update firmware of system by connecting online.
15.	Remote	System remote management should support browser based graphical
	Management	remote console along with Virtual Power button, remote boot using
		USB/CD/DVD Drive. It should be capable of offering upgrade of software
		and patches from a remote client using Media/image/folder; It should
		support server power capping and should have support for multilactor
		Authentication.
		remote management port
		The server should support Active Health System which monitors and
		records changes in the server hardware and system configuration. It
		assists in diagnosing problems and delivering rapid resolution when
		system failures occur.
		Applications to access the server remotely
		Should support remote console sharing with users as per requirements.
		Should provide remote firmware update functionality. Should provide
		support for Java free graphical remote console.
16.	Server	The Systems Management software should provide Role-based security
	wanagement	Should help provide proactive notification of actual or impending
		component failure alerts on critical components like CPU, Memory and
		HDD.

S. No.	Item	Description					
		Should provide an online portal that can be accessible from anywhere.					
		The portal should provide one stop, online access to the product, support					
		information and provide information to track warranties, support contracts					
		and status. The Portal should also provide a Personalized dashboard to					
		monitor device heath, hardware events, contract and warranty status.					
		Should provide a visual status of individual devices and device groups.					
		Should support scheduled execution of OS commands, batch files, scripts,					
		and command line apps on remote nodes					
		Should be able to perform comprehensive system data collection and					
		enable users to quickly produce detailed inventory reports for managed					
		devices. Should support the reports to be saved in HTML, CSV or XML					
		format.					
		Should help to proactively identify out-of-date BIOS, drivers, and Server					
		Management agents and enable the remote update of system					
		software/firmware components.					
		The Server Management Software should be of the same brand as of the					
		server supplier.					
17.	Additional	Manufacturershould be listed in any quadrant of independent technology					
	requirement	and market research companies such as Gartner and Forrester Research.					
		All functionalities shall be available from day 1					

Annexure 8 – SANStorage

The revised minimum Technical Specifications for SAN storage are as follows:

S. No.	Description	Compliance (Yes/No)
	The proposed Storage array should have at least Dual active-active storage	
1.	controllerswith ballery backed cache supporting to At least 24hrs of more for of	
	should be in an end-to-end minimum 4 GBPS architecture.	
2.	 The Storage should be configured with 40TB usable capacity with RAID 5 configuration as follows: 30% of capacity shall be available on 600 GB, 10K/15K RPM SAS disks 40% of capacity shall be available on 600 GB / 900 GB, 10K/15K RPM SAS disks 	
	 Remaining 30% of capacity can be made available on 900 GB of higher SAS / SATA disks 	
3.	The storage array shall be configured with at least 32 GB of mirrored/protected cache scalable to 64 GB cache or more in the storage arrayfor disk I/O operations	
4.	The Storage subsystem should have at least 4 nos. of front-end host ports and at least 4 nos. of back-end drive ports. Also the storage system should support internal/external iSCSI ports.	
5.	The storage system should be scalable to Minimum 250 TB using SAS drives.	
6.	Must be able to support intermix disk capacity 300 GB or higher FC/SAS and SATA/FATA or equivalent disks.	
7.	All the necessary management software to be supplied to configure and manage the storage subsystem, RAID configurations, logical drives allocation & snapshot for the configured capacity of the array.	

8.	Dynamic Features should include – Dynamic Array/Volume and LUNs expansion. All features should be available while the system/applications are online.					
9.	Redundant power supplies, batteries and cooling fans and data path and storage controller.					
10.	Multipath & Load balancing software for all SAN connected servers shall be provided.					
11.	All the offered controllers shall be interconnected either in FC/Crossbar/Direct Matrix/Meshed architecture for maximum performance.					
12.	Offered Storage Array shall support distributed Global/local hot Spare for offered Disk drives per enclosure.					
13.	Offered Storage Array shall support distributed Global/local hot Spare for offered Disk drives per enclosure.					
14.	Storage should support RAID level 0, 1, 5 and 6. All RAID shall be hardware based RAID.					
15.	Should support multi OS like Windows, LINUX, AIX, HP-UX, SUN Solaris etc.					
16.	The Storage shall have functionality to take point-in time copy and full volume copy and license for the same should be supplied.					
17.	 The proposed SAN storage should supply with SAN storage management software with following specifications:- Shall provide highest version of Storage Array configuration and Managementsoftware. Should support storage virtualization, i.e. Easy logical drive expansion Should support hot-swappable physical drive raid array / storage pool expansion with the addition of extra hard disks Should be able to allocate logical spaces to multiple operating Systems in the same storage facility Offered storage shall support non-disruptive online firmware upgrade for all the Controllers and disk drives. Offered storage shall support non-disruptive dynamic migration of Volume from one Raid set to another set. Should be able to support clustered and individual servers at the same time Should be able to take "snapshots" of the stored data. Vendor should also offer storage performance monitoring and management software 					

Annexure 9 – Server(to be deployed at SRO offices – 334 locations)

The revised minimum Technical Specifications for Server (to be deployed at SRO offices) are as follows:

S. No.	Item	Description of Requirement			
1.	Cabinet	Tower Model			
2.	CPU	Intel Xeon E3-1220v2 or higherQuad Core processor, 3.1GHz better, with 8 MB L3 cache Memory or better.			
3.	Motherboard	Intel® C200 or higherSeries Chipset, OEM / Intel original Motherboard			
4.	Memory	Minimum 8 GB ECC 1333 MHz DDR3 RAM and min. 4 DIMM slots			
5.	Drive Bays	Minimum 4 hot swap HDD Bays (Minimum 2 Internal)			
6.	TFT Monitor	43 cm (17")or larger TFT/wide TFT/LED, TCO-03 or TCO-99 Certified.			
7.	Optical drive Bay	One optical drive bay to install DVD-ROM or DVD-RW / Virtual DVD support			
8.	Hard disk drive	2 x 2 TB or higher Enterprise Class Hot pluggable SATA HDD 7200			

S. No.	ltem	Description of Requirement			
		RPM or higher			
9.	Controller	Four Port RAID Controller for RAID 0/1			
10	Networking features	Dual LAN (10/100/1000) Network Card with asset features tracking and			
10.	Networking reatures	security management, remote wake up			
11.	Ports	Min. 4 USB Port, 1 Serial Port			
12.	Bus Slots	4 PCI/ PCI Express			
13.	Optical drive	DVD-RW drive			
14.	Graphics Card	Integrated MatroxG200 / equivalent			
15.	Keyboard	101 Keys Keyboard			
16.	Mouse	Optical Mouse			
17.	Power Supply	Redundant & Hot Plug Power Supplies			
18.	Fans	Minimum one Fan			
10	Security	Screen blanking, hard disk and system idle mode in power on, set up			
19.		password, power supply surge protected.			
		Microsoft Windows Server			
20.	OS Support	• Linux			
		Vmware			
		05 year on-site comprehensive warranty. Pre failure warranty on CPU.			
21.	Warranty	Memory and Hard disks			
22.	Certification	ISO 9001 certified			
-	Server OS &	Enterprise Linux with Postgres SQL. Tomcat and Apache to be			
23.	database	installed by Bidder			

Annexure 10 – Biometric Device

The revised minimum Technical specifications for Biometric device are as follows:

S. No.	Item Description	Compliance
		(Yes/No)
1.	Pixel Resolution: 500 DPI (Native) with margin of 5%	
2.	Pixel Resolution:1000 DPI (Interpolated)	
3.	Min. Platen area: Minimum 12.8mm (w) x 16.5mm (h)	
4.	Reader Size: 72 mmx 39 mm x 21.7 mm	
5.	USB 2.0 (High Speed) at least	
6.	High Quality Fingerprint Image	
7.	Counterfeit Finger Rejection	
8.	Latent Finger Rejection	
9.	Compatible with Windows 7& 8 and Linux operating systems	
10.	Verification time – less than 1 sec.	
11.	IP64 STQC certified sensor and extractor	Provide certificate
12.	5 years on-site warranty	

Annexure 11 - Minimum technical specifications for 16 port unmanaged switch

The minimum technical specifications for 16 Port unmanaged switch has been revised as follows:

S. No.	Feature	Specifications	Compliance
			(yes /no)
1.	Standards	IEEE 802.3 10 Base-T Ethernet	
		IEEE 802.3u 100 Base-TX Fast Ethernet	
		ANSI / IEEE 802.3 auto negotiation or Equivalent	
2.	Protocol	CSMA / CD	
3.	Data transfer	Ethernet:	
	rates	10 Mbps (half-duplex)	
		20 Mbps (full-duplex)	
		Fast Ethernet:	
		100 Mbps (half duplex)	
		200 Mbps (full duplex)	
4.	Number of ports	16 x 10/100 Mbps ports	
5.	Twisted pair Rx	Auto correction for each port	
	Reverse Polarity		
6.	MAC address	Automatic update	
	learning		
7.	RAM buffer	256 MB per device	
8.	Power supply	100-240 VAC, 50/60 Hz 0.3 A internal power supply	
9.	IPv6 features	Shall support IPv6	
10.	Temperature	0 degree C to 50 degree C	
11.	Humidity	5% to 95% (non-condensing)	
12.	Network cables	As per specifications mentioned in RFP	

Annexure 12 – Revised Detailed Break up of financial bid

The format of "Detailed break of financial bid" as provided in the RFP has been revised as follows:

S. No.	Category	Component	Units of Components (X)	Rate (per unit including the standard 3 years warranty) (Y)	VAT / Service tax (T)	Total Cost {X*(Y+T)}		
(A-1) Clie	(A-1) Client locations Hardware Costs with 3 years on-site warranty (from the date of commissioning) from OEM							
1.	Hardware at client	Server						
	locations – including	Printers						
	delivery, installation &	Digital Camera						
	successful	LCD signature Tablet						
	commissioning	Biometric device						
		Desktops						
		Laptop						
		UPS – 6 KVA						
		DG Set						
		Others						
		То	tal A-1:					
(B-1) Site	e preparation and Network	ing Related Costs						
2.	Site preparation cost	Average cost for LAN						
		cabling per office						
		Average cost for electrical						
		cabling per office						
	-	Tot	tal B-1:					

S No	Catogory	Component	Units of Components	Extended warranty	VAT / Service	Total Cost
3. NO.	Calegory		(X)	for 2 years (Y)	tax (T)	{X*(Y+T)}
(A-2) Cli	ent locations Hardware -	- Extended Warranty Costs	-			
1.	Hardware at client	Server				
	locations – extended	Printers				
	warranty	Digital Camera				
		LCD signature Tablet				
		Biometric device				
		Desktops				
		Laptop				
		UPS – 6 KVA				
		DG Set				
		Others				
Total A-2:						
(B-2) Maintenance of Sites						
2.	Maintenance of Sites	Per office maintenance cost				
Total B-2:						

(C-1) Prim	(C-1) Primary Connectivity – One time charges						
S. No.	Category	No. of locations (X)	Per Location One Time Charges (including 3 yrs. warranty) (Y)	Taxes (T)	Total Cost {X * (Y+T)}		
1.	Connectivity of SRO office with nearest SWAN POP (Last mile connectivity)	For Connectivity – 260					
		То	tal C-1:				

*Note – 3 yrs. Of OEM warranty will start from successful commissioning of connectivity at SRO location. The requirements for "any other equipment" will depend on actual availability / non-availability / functioning of SWAN last mile connectivity.

(C-2) Prim	(C-2) Primary Connectivity – AMC charges						
S. No.	Category	No. of locations (X)	AMC charges per year (Y)	Taxes (T)	Total Cost {X * (Y*+T)}*2		
1.	Connectivity of SRO office with nearest SWAN POP (Last mile connectivity)	For connectivity - 260					
		Total C	C-2:				

*Note – Extended warranty of 2 years will commence after successful completion of 3 years of OEM warranty. The requirements for "any other equipment" will depend on actual availability / non-availability / functioning of SWAN last mile connectivity.

(D) Secondary Connectivity (L3 MPLS VPN)						
S. No	Category	No of Locations (X)	Per Link Per Annum Charges (Y)	Per link one time charges (Z)	Taxes (T)	Total Cost {X * (Y*5 + Z + T)}
1.	Connectivity at SRO Category 'A' Offices with 02 MBPS Line	60				
2.	Connectivity at SRO Category 'B' Offices with 02 MBPS Line	175				
3.	Connectivity at SRO Category 'C' Offices with 512 KBPS Line	119				
4.	Connectivity at State Data Centre (SDC) with 50 MBPS Line	01				
	Total D:					

(E-1) Data Centre Infrastructure

S. No.	Component	Units of	Unit rate (inclusive for 3 years OEM	VAT / Service tax	Total Cost
		Components (X)	warranty) (Y)	(T)	{X*(Y+T)}
1.	Blade chassis				
2.	Blade servers				
2.1	Web server				
2.2	Database server				
2.3	Application server				
2.4	File server				
2.5	Standby server				
2.6	Staging and testing server				
3.	SAN storage box (40 TB usable				
	capacity)				
4.	24 Port SAN switch				
5.	Cartridge for LTO6 tap drive				
	available in UP-SDC				
6.	IP KVM switch, LCD monitor &				
	keyboard				
7.					
8.	Others				
		Tot	al (E-1)		

	(E-2) Data Centre Infrastructure – Extended Warranty				
S. No.	Component	Units of Components (X) Extended warrant		VAT / Service tax	Total Cost
1			for 2 years (Z)	(T)	{X*(Z+T)}
1.	Blade chassis				
2.	Blade servers				
2.1	Web server				
2.2	Database server				
2.3	Application server				
2.4	File server				
2.5	Standby server				
2.6	Staging Server				
3.	SAN storage box (40 TB usable capacity)				
4.	24 Port SAN switch				
5.	IP KVM switch, LCD monitor & keyboard				
6.					
7.	Others				
		Total E-2			

	(F) Cost for Software components at Data Centre						
S. No.	Component	Cost per license	Total licenses	Taxes	Total		
1.	Enterprise Linux Server		10				
2.	Cluster Suit / High Availability		6				
3.	Oracle Database Enterprise Edition Processor with Real Application		As per Sizing				

	(F) Cost for Software components at Data Centre					
S. No.	Component	Cost per license	Total licenses	Taxes	Total	
	Cluster, Partitioning, Diagnostic Pack, Tuning Pack, and Data Vault			1		
4.	Oracle Web Logic Enterprise Edition		As per sizing			
5.	SAN Storage Management Software		1			
6.	EMS					
6.1	Application performance management (1 IGRS application to be monitored)					
6.2	Helpdesk management tool (refer sec. 4.5 of RFP for requirements of helpdesk)					
6.3	Network monitoring system (NMS) (to monitor input ports of routers deployed at all SRO offices)					
6.4	Server performance management (refer SDC BOM and specifications. Not required for Staging & testing and Standby servers)					
6.5	Other components of EMS as per technical specifications					
6.6						
	Total F:					

Note: Purchase of Oracle Database and Web logic Licenses through SI may depend on the suitability of rates quoted by SI considering the standard rates available with NICSI / DGS&D and discounts available to Department as a Government organization. In case the rates quoted by SI are found to be detrimental to the smooth running of the project, then the Department / UPLC will be free to purchase the Oracle Licenses separately instead of purchasing through SI.

Annexure 13 – Technical Specifications of Load Balancer

The minimum technical specifications of Load Balancer are as follows:

S. No. Specifications Compliance Features (Yes / No) 1. Hardware Should be appliance based solution with high performance purpose built hardware. 2. The appliance should have 8 GB RAM for support for multiple load balancing functions 3. The appliance should have minimum 4 triple speed 10/100/1000 Mbps gigabit copper ports and 2* 10G SFP+ fiber ports from day one The appliance should have 10 Gbps of throughput from day 4. one 5. Should have minimum 4M concurrent connections 6. Appliance should provide full IPv6 support. OEM should be listed vendor for IPv6 certification. 7. Load The appliance should support layer 2 to layer 7 load balancing balancing Extensible policies (e-policies) scripts to implement business 8. features logic on network without any changes in application code. The appliance should support server load balancing 9. 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. 10. Should support one arm, reverse and transparent proxy mode deployment scenarios and should support nested layer7 policies. 11. Should maintain server persistency based on source IP and destination IP, HTTP header, URL, Cookie and SSL ID. 12. The appliance should support multi-port, scripted and custom health check with content verification 13. Should provide application & server health checks for wellknown protocols i.e. ARP, ICMP, TCP, DNS, RADIUS, HTTP/HTTPS, RTSP etc. 14. The appliance should have and/or relationship to check various dependencies for the application delivery 15. should support layer4 and layer 7 load balancing for HTTP/HTTPS, FTP/FTPS, SIP, RTSP, RDP, TCP, TCPS and UDP protocols 16. Clustering Should provide comprehensive and reliable support for high and Failover availability and N+1 clustering with active-active and activestandby support. 17. Stateful session failover with Connection mirroring support 18. Should support automated configuration synchronization from primary unit to secondary unit without any manual intervention by administrator 19. Support for multiple communication links for realtime configuration synchronizations including HA group, gateway health check, decision rules, SSF sessions etc. and heartbeat information. For heartbeat there should be support for secondary communication link for backup purpose 20. Should support floating MAC address to avoid MAC table updates on the upstream routers/switches and to speedup the failover 21.

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Should support floating IP address and group for

S. No.	Features	Specifications	Compliance (Yes / No)
		statefulfailover support. Appliance should have support 256 foating IP address for a floating group	
22		Should support built in failover conditions including CPU	
22.		overheated SSI card failure system memory process	
		health check, unit failover, group failover and reboot	
23.		Should also have option to define customized rules for	
		gateway health check - the administrator should able to	
		define a rule to inspect the status of the link between the unit	
		and a gateway	
24.		Configuration synchronization at boot time and during run	
		time to keep consistence configuration on both units.	
25.		The appliance should have software based site selection	
		feature to provide global load balancing features on same	
		appliance	
26.		Should support global load balancing algorithms like global	
		round robin, VIP based weighted global round robin, global	
		connection overflow, global least connections, IP overflow,	
	-	Proximity etc.,	
27.	SSL	Should provide Secure online application delivery using	
	Features	hardware-based high performance SSL acceleration with	
		minimum 3Gbps of SSL throughput and 25,000 SSL TPS	
28.		The appliance should support Certificate format as	
		"OpenSSL/Apache, ".PEM", "MS IIS, ".PFX", and "Netscape,	
20		".UB".	
29.		I ne appliance should have additional hardware card to	
		bit contification	
30		The appliance should support use of password protect	
50.		Certificate/Private Key backup/restore to/from local disk or	
		remote TETP server, and through WebI II	
31		The appliance should support Self generates CSR	
011		(Certificate Signing Request), self-signed Certificate and	
		private key for specified host.	
32.		The appliance should support customization for SSL Error	
_		pages.	
33.		The appliance should support HTTP to HTTPS location	
		header rewrite for enhanced application delivery support	
34.		The appliance should have end to end ssl support to act as a	
		SSL Server and/or as SSL Client	
35.		Should support client certificate verification, certificate bases	
		access control, CRL's (HTTP, FTP, LDAP) and OSCP	
		protocol	
36.	Security and	Should provide performance optimization using TCP	
	Application	connection multiplexing, TCP buffering and IEEE 802.3ad	
	Acceleration	link aggregation.	
37.		Should support TCP optimization options including windows	
		scaling, intestamp & Selective Acknowledgement for	
20	{	TCP optimization option configuration should be defined on	
30.		per virtual service basis not globally	
39	1	Appliance should provide real time Dynamic Web Content	
		Compression to reduce server load.	
40.	1	Should provide selective compression for Text. HTML. XML.	
		DOC, Java Scripts, CSS, PDF, PPT, and XLS Mime types.	
41.	1	Should provide have provision to define policy to skip	
		compression for selected trouble URL for the specified	
		Virtual.	

	E f	Ourselffeetleurs	A
5. NO.	Features	Specifications	(Yes / No)
42.		Should provide Advanced high performance memory/packet	
		based Web cache; fully integrated with HTTP/HTTPS	
43.		Should provide support for customized cache rules including	
		max object size, TTL objects, refresh time interval etc	
44.		Should provide detailed cache access statistics based on ip	
		or http hosts	
45.		Should support cache refresh with CLI, XML-RPC input	
		commands and "PURGE" request	
46.		The appliance should support transparent, layer 7 proxy and	
		triangular mode support	
47.		Appliance should have security features like reverse proxy	
		firewall, SYN-flood and dos attack protection features from	
		the day of installation.	
48.	Management	Role based access control for granular authentication and	
	-	authorization. Administrator should able to define multiple	
		roles namely Admin, Security-admin, Network-Engineer,	
		Network Monitor, Network Manager on the appliance	
49.		The appliance should have extensive report and logging with	
		inbuilt TCP dump like tool and log collecting functionality	
50.		The appliance should have SSH CLI, Direct Console, SNMP,	
		Single Console per Cluster with inbuilt reporting.	
51.		Should support XML-RPC for integration with 3rd party	
		management and monitoring	
52.		The appliance should provide detailed logs and graphs for	
		real time and time based statistics	
53.		Appliance must support multiple configuration files with 2	
		bootable partitions for better availability and easy upgrade /	
		fallback.	
54.		The system should support led warning and system log alert	
		for failure of any of the power and CPU issues	

Annexure 14 – Technical Specifications of existing infrastructure at Data Centre

a. Existing Router at State Data Centre

Item	MSR 50-40
Number of Fixed Ethernet ports	MPUF :2GE Combo
	MPU-G2: 3GE Combo
	MPUF :4 SIC slots
Module slot	MPU-G2: null
	4 FIC slots
ESM slot	2
VPM slot	4
Fixed USB(USB1 1) ports	MPUF :2
	MPU-G2: null
AUX	1
Console	1
VCPM slot	1
Hardware encryption	Support (SNDE, ANDE)

Item	MSR 50-40		
IP Forward Performance(pps)	MPUF :1M		
renormance(pps)	MPU-G2: 2M		
DDR memory capacity	512MB/1G (DDR)		
(Default/Maximum)			
CF (default/maximum)	256MB/1GB		
Output Power(Maximum)	350W		
AC input voltage	100 to 240 VAC		
Frequency	50-60 Hz		
DC input voltage	-48 VDC to -60 VDC		
RPS	Internal RPS		
PoE Power	500W		
Max. port support	32		
(15.4W/port)			
Outline dimension (mm)	136 2×121×130 7mm		
(W×D×H)	430.224242130.711111		
Weight	18kg		
Environment temperature	32 to 104°F (0 to 40°C)		
Environment relative humidity	5 ~ 90% (Non-condensing)		

b. Existing Firewall at SDC

Device Specification	Part No.	Total No. of Slots/Part No.
H3C SEC-PATH F1000E,		2HIM SLOTS-
Comware version – 5.20	JDZIZA	4GBE(JC163A)/8GBE(JC164A)

c. Existing EMS available at State Data Centre

- CA Spectrum: Version-9.2.0.4.24
- CA E-health: Version-6.3
- CA UDCC: Version-r11.5.0
- CA Wily (APM & CEM): APM Version-Version-9.1, Release-9.1.0.2 And CEM Version-Version-581100, Release-9.1.0.2
- CA Service Desk Manager: Version-SDr12_6-165, Release-1

Annexure 15 – Minimum Technical Specifications of Enterprise Management System (EMS)

S. No.	Features	Compliance (yes / no)		
1	Basic Requirement :			
	Solution should provide for future scalability of the whole system without major architectural changes.	•	+	Formatted
1	Should be SNMP compliant.	•	+	Formatted
ĺ	Filtering of events should be possible, with advance sort option based on components, type of message, time etc.	•	+	Formatted
	Should support Web / Administration Interface.		F	Formatted
Ì	Should provide compatibility to standard RDBMS.	•	+	Formatted
	Solution should be open, distributed, and scalable and open to third party integration.	•	+	Formatted
	Should provide fault and performance management for multi-vendor TCP/IP networks.	•	+	Formatted
2	Security :			
	Should be able to provide secured windows based consoles / secured web based consoles for accessibility to EMS.	•	+	Formatted
	Should have web browser interface with user name and Password Authentication.	•	+	Formatted
	Administrator/ Manager should have privilege to create/modify/delete user.	•	+	Formatted
3	Polling Cycle:			
ļ	Support discriminated polling		•	Formatted
l	Should be able to update device configuration changes such as re-	•	+	Formatted
4	Indexing of ports			
	Should be able to get fault information in real time and present the same in			Formatted
	alarm window with description, affected component, time stamp etc.			l'offiatteu
	Should be able to get fault information from heterogeneous devices routers, switches, servers etc.	•	•	Formatted
	Event related to servers should go to a common enterprise event console where a set of automated tasks can be defined based on the policy.	•	•	Formatted
	Should have ability to correlate events across the entire infrastructure components of DC.			
	Should support automatic event correlation in order to reduce events occurring in DC.	•	+	Formatted
	Should support advanced filtering to eliminate extraneous data / alarms in Web browser and GUI.	•	•	Formatted
	Should be configurable to suppress events for key systems/devices that are down for routine maintenance or planned outage.	•	+	Formatted
	Should be able to monitor on user-defined thresholds for warning/ critical states and escalate events to event console of enterprise management system.	•	+	Formatted
	Should provide out of the box root cause analysis with multiple root cause algorithms inbuilt for root cause analysis.	•	•	Formatted
	Should have self-certification capabilities so that it can easily add support for new traps and automatically generate alarms.	•	• 	Formatted
	Should provide sufficient reports pertaining to asset and change management, alarms and availability of critical network resources as well as network response times for critical links.	•	•	Formatted

	The tool shall integrate network, server and database performance	*	Formatted
	information and alarms in a single console and provide a unified reporting		
	Interface for network and system components. The current performance state		
	on the entire network and system initiastructure shall be visible in an integrated		
I I	Should provide an integrated performance view for all the managed		Correction
1	systems and networks along with the various threshold violations alarms in		Formatted
	them. It should be possible to drill-down into the performance view to execute		
	context specific reports.		
	Should provide the following reports for troubleshooting, diagnosis,	•	Formatted
	analysis and resolution purposes: Trend Reports, At-a-Glance Reports, &		
	capacity prediction reports.		
]	Should be able to auto-calculate resource utilization baselines for the	•	Formatted
	entire managed systems and networks and allow user to set corresponding		
5	upper and lower threshold limits.		
5	Discovery.		Formatted
I	Should provide accurate discovery of layer 3 and heterogeneous layer 2	· · · · ·	Formatted
1	Meruel discours for the date for identified actuary contrast, single or		
l	Manual discovery can be done for identified network segment, single, or	•	Formatted
6	Prosentation:		
Ū	Should be able to discover links with proper colour status propagation for		Formatted
1	complete network visualization.		Formatted
I	Should support dynamic object collections and auto discovery. The		
1	topology of the entire Network should be available in a single map		Formatted
1	Should give user ention to create his /or her man based on certain group		
1	of devices or region		Formatted
7	Agents		Formatted
-	Should monitor various operating system parameters such as processors.	+	
1	memory, files, processes, file systems etc. where applicable using agents on		Formatted
	the servers to be monitored.		
	Provide performance threshold configuration for all the agents to be done	•	Formatted
	from a central GUI based console that provide a common look and feel across		
	various platforms in the enterprise. These agents could then dynamically		
	reconfigure them to use these threshold profiles they receive.		
8	System Monitoring		
	Should be able to monitor/manage large heterogeneous systems environment		
	continuously.		Formatted
	Should monitor / manage following:		Formatted
	Event log monitoring.		Cormottod
	Virtual and physical memory statistics	• ^ / ^ / ^	Formatted
	Paging and swap statistics	• */*	Formatted
	Operating system		Formatted
	Memory		Formatted
	Logical disk	· · · ·	Formatted
	Physical disk	•	Eormatted
	Process	+	
	Processor		rormatted
	Paging file	•·	Formatted
	IP statistics	•·	Formatted
İ	ICMP statistics	• ·	Formatted
İ	Network interface traffic	• •	Formatted
İ	Cache	+	Formattad
	Should monitor following with statistics:		roimatteo
			(_)
	CPU Utilization. CPU Load Averages		Formatted

_				
		System virtual memory (includes swapping and paging)	+ = =	- Formatted
		Disk Usage	•	- Formatted
ļ		No. of Nodes in each file system	* ~~	Formatted
		Network interface traffic	+	Formatted
		Critical System log integration	*	Formatted
ļ	9	Infrastructure Services	· · ·	
ļ		IIS / Tomcat / Apache / Web server statistics	· · ·	Formatted
ļ		HTTP service	· · · ·	Formatted
l		HTTPS services	· · · ·	Formatted
ļ		FTP server statistics	• • •	Formatted
ļ		POP/ SMTP Services		Formatted
		ICMP services		Formatted
		Database Services – Monitor various critical relational database	• . `	Formatted
		management system (RDBMS) parameters such as database tables / table		Formatted
ı	10	Application Performance Management		- Formatted
i		End to end Management of applications (J2EE/ NET based)		
i		Determination of the root cause of performance issues whether inside the		Formatted
1		Java / .Net application in connected back-end systems or at the network layer.		Formatted
1		Automatic discovery and monitoring of the web application environment		- Formatted
i		Ability to monitor applications with a dashboard.	+	- Formatted
İ.		Ability to expose performance of individual SQL statements within problem		
		transactions.		Formatted
ļ		Monitoring of third-party applications without any source code change	•	- Formatted
r		requirements.		
l		Proactive monitoring of all end user transactions; detecting falled	•	- Formatted
ı		Storage of historical data is for problem diagnosis, trend analysis ato		
i		Monitoring of application performance based on transaction type		Formatted
i		Ability to identify the potential cause of memory leaks		- Formatted
1	11	Reporting		Formatted
ĩ	<u> </u>	Should able to generate reports on predefined / customized hours.	+	- Formatted
i		Should be able to present the reports through web and also generate "pdf"		
1		/ CSV / reports of the same.		Formatted
1		Should provide user flexibility to create his /or her custom reports on the		Formattod
1		basis of time duration, group of elements, custom elements etc.		Formatted
1		Should provide information regarding interface utilization and error	•	- Formatted
		statistics for physical and logical links.		
		Should create historical performance and trend analysis for capacity	•	- Formatted
		planning.		
		Should be capable to send the reports through e-mail to pre-defined user	•	- Formatted
		with pre-defined interval.		
l		Should have capability to exclude the planned-downtimes or downtime	•	- Formatted
1		Ouiside SLA. Should be able to generate all sorts of SLA Reports		Formattad
ł		Should be able to generate web-based reports, historical data for the		
1		systems and network devices and Near Real Time reports on the local		Formatted
		management console.		
		Should be able to generate the reports for Server, Application.	•	- Formatted
		Provide Historical Data Analysis: The software should be able to provide a	+	Formatted
		time snapshot of the required information as well as the period analysis of the		
		same in order to help in projecting the demand for bandwidth in the future.		
	12	Availability Reports:		

	Availability and Llating — Daily Martha Martha Martha - AVaraba Dail		
	Availability and Uptime – Daily, weekly, Monthly and Yearly Basis		Formatted
	I rend Report	+	Formatted
		*	Formatted
10	MIBF and MIIR reports		Formatted
13	Performance Reports:		
	Device Performance – CPU and Memory utilized		Formatted
	Interface errors	*	Formatted
]	Server and Infrastructure service statistics	*	Formatted
ļ	Trend report based on Historical Information	*	Formatted
ļ	Custom report		Formatted
]	SLA Reporting		
	Computation of SLA for entire DC Infrastructure	* ```	Formatted
	Automated Daily, Weekly, Monthly, Quarterly and Yearly SLA reports.		Formatted
14	Data Collection		Formatted
ļ	For reporting, required RDBMS to be provided with all licenses.	*	- Formatted
	Should have sufficient Storage capacity should to support all reporting	*	Formatted
15	Uala		
15	Should be able to receive and process SNMD trans from infrastructure		
	components such as router, switch, servers etc.	•	Formatted
1	Components such as router, switch, servers etc.		
	Should be able integrate with Helpdesk system for incidents.		Formatted
I	Should be able to seril e-mail or Mobile –SIMS to pre-defined users for		Formatted
	Should trigger automated actions based on incoming events / traps. These		Formatted
1	actions can be automated scripts/batch files.		Tornatted
16	Network Management :		
	The Network Management function must monitor performance across	*	Formatted
•	heterogeneous networks from one end of the enterprise to the other.		
	It should proactively analyze problems to improve network performance.	•	Formatted
Ì	The Network Management function should create a graphical display of all	+	Formatted
	discovered resources.		
	The Network Management function should have extensive reporting	+	Formatted
	facility, providing the ability to format and present data in a graphical and		
1	tabular display.		
	I he Network Management function should collect and analyze the data.	*	Formatted
	in a database. This enterprise-wide data should be easily accessed from a		
	central location and used to help with capacity planning, reporting, and		
	analysis.		
	The Network Management function should also provide information on	•	Formatted
	performance of Ethernet segments, including capacity utilization and error		
	statistics for the segment, WAN links and routers.		
	Alerts should be shown on the Event Management map when thresholds	•	Formatted
	are exceeded and should subsequently be able to inform Network Operations		
	center (NOC) and notity concerned authority using different methods such as		
	It should be able to automatically generate a notification in the event of a		Formattad
	link failure to ensure proper handling of link related issues.	[rormatted
	The Systems and Distributed Monitoring (Operating Systems) of EMS		Formattod
1	should be able to monitor:	ľ	Fuillatteu
	 Processors: Each processor in the system should be monitored 		Formatted
1	for CPU utilization. Current utilization should be compared against user-		- ormatted
	specified warning and critical thresholds.		

ļ		 File Systems: Each file system should be monitored for the amount of file system space used, which is compared to user-defined warning 	1		Formatted	
		and critical thresholds.				
1		 Log Files: Logs should be monitored to detect faults in the 			Formatted	
1		operating system, the communication subsystem and in applications. The			······)
		function should also analyze the files residing on the host for specified string				
		patterns.				
1		o System Processes: The System Management function should			Formattod	
1		provide real-time collection of data from all system processes. This should			Tormatted)
		identify whether or not an important process has stopped unexpectedly. Critical				
		processes should be automatically restarted using the System Management				
		function				
ı		A Memory: The System Management function should monitor			F	
1		memory utilization and available swap space	·		Formatted)
		Themory utilization and available swap space.				
l		o Event Log: User-defined events in the			Formatted	
	17	SLA Monitoring :				
		The SLA Monitoring component of EMS will have to possess the following				
		capabilities:				
		EMS should integrate with the application software component of portal	•		Formatted	
		software that measures performance of system against the following SLA				
		parameters:				
I		o Response times of Portal;	•		Formatted	
Ì		o Uptime of IT Infrastructure;			Formatted	
İ		o Meantime for restoration of services etc.				
i		EMS should compile the performance statistics from all the IT systems			Formatted	
1		involved and compute the average of the parameters over a quarter, and		_	Formatted	
		compare it with the SLA metrics laid down in the RFP.				
ı		The EMS should compute the weighted average score of the SLA metrics			-	
1		and arrive at the quarterly service charges payable to the Agency after			Formatted)
		applying the system of penalties and rewards				
		The OLA manifest and and total do.				
I		I ne SLA monitoring component of the EMS should be under the control of	Ĩ		Formatted	
		the authority that is nominated the client so as to ensure that it is in a trusted				
d		Environment.				
1		third party audit to you beafa its accuracy, reliability, and integrity	Ĩ		Formatted	
	10	third party addit to vouchsale its accuracy, reliability, and integrity.				
	18	THE based Helpdesk				
ļ		Helpdesk system would automatically generate the incident tickets and log	†		Formatted	
		the call. Such calls are forwarded to the desired system support personnel				
		deputed by the Implementation Agency. These personnel would look into the				
		problem, diagnose and isolate such faults and resolve the issues timely. The				
		helpdesk system would be having necessary workflow for transparent,				
		smoother and cordial DC support framework.				
l		The Helpdesk system should provide flexibility of logging incident	Ť		Formatted	
		manually via windows GUI and web interface.				
l		The web interface console of the incident tracking system would allow	•		Formatted)
		viewing, updating, and closing of incident tickets.				
ļ		The trouble-ticket should be generated for each complaint and given to	•		Formatted	
		asset owner immediately as well as part of email.)
		Helpdesk system should allow detailed multiple levels/tiers of			Formatted	
1		categorization on the type of security incident being logged.)
I		It should provide classification to differentiate the criticality of the security			Formatted	
1		incident via the priority levels, severity levels and impact levels.			· simated)
		It should allow SI A to be associated with a ticket based on priority			Formatted)
1		severity, incident type, requestor, asset, location or group individually as well			Tornatteu)
		as collectively.				

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	It should maintain the SLA for each item/service. The system should be able to generate report on the SLA violation or regular SLA compliance levels.		•	Formatted
	It should be possible to sort requests based on how close are the requests to violate their defined SLA's.		•	Formatted
	It should support multiple time zones and work shifts for SLA & automatic ticket assignment.			Formatted
	It should allow the helpdesk administrator to define escalation policy, with multiple levels & notification, through easy to use window GUI / console.		+ +	Formatted
	System should provide a knowledge base to store history of useful incident resolution.		+	Formatted
	It should have an updateable knowledge base for technical analysis and further help end-users to search solutions for previously solved issues.		+	Formatted
	The web-based knowledge tool would allow users to access his / her knowledge article for quick references.		+	Formatted
	It should provide functionality to add / remove a knowledge base solution based on prior approval from the concerned authorities.		+	Formatted
	Provide seamless integration to generate events/incident automatically from NMS / EMS.		•+	Formatted
	Each incident could be able to associate multiple activity logs entries manually or automatically events / incidents from other security tools or EMS / NMS.			Formatted
	Allow categorization on the type of incident being logged.			Formatted
	Provide audit logs and reports to track the updating of each incident ticket.	•	+	Formatted
	Proposed incident tracking system would be ITIL compliant.		+	Formatted
	It should be possible to do any customizations or policy updates in flash with zero or very minimal coding or down time.			Formatted
	It should integrate with Enterprise Management System event management and support automatic problem registration, based on predefined policies.	•	+	Formatted
	It should be able to log and escalate user interactions and requests.	•	+ +	Formatted
	It should support tracking of SLA (service level agreements) for call requests within the help desk through service types.		+	Formatted
	It should be capable of assigning call requests to technical staff manually as well as automatically based on predefined rules, and should support notification and escalation over email, web etc.			Formatted
	It should provide status of registered calls to end-users over email and through web.		+	Formatted
	The solution should provide web based administration so that the same can be performed from anywhere.		++	Formatted
	It should have a customized Management Dashboard for senior executives with live reports from helpdesk database.		+	Formatted
19	Client Management System			
	The proposed desktop management system should provide single integrated agent for asset management, remote software deployment and remote desktop control.			
20	Asset Management System:			
	The proposed Asset Management solution must provide inventory of hardware			
	and software applications on end-user desktops including information on			
	processor, memory, operating system, mouse, key board of desktops etc.			
	through agents installed on them.			
	The proposed Asset initial agement solution must have reporting capabilities;			
	data in the inventory database. Report results could be displayed as lists or			
	graphs.			

The proposed Asset Management solution must have the capability to export the reports to CSV, HTML and XML format.	
The proposed Asset Management solution must provide the facility for user defined templates to collect custom information from desktops.	
The proposed Asset Management solution must provide facility to recognize custom applications on desktops.	
The proposed Asset Management solution must support administrators to register a new application to the detectable application list using certain identification criteria's (Like executable, Date/time stamp etc.). The new application must be detected automatically from next time the inventory is scanned.	
The proposed Asset Management solution must provide facility for queries and automated policies to be set up and permit scheduling of collecting engines to pick up the data at defined intervals.	
The proposed Asset Management solution must be able to collect all the asset information.	
The proposed Asset Management solution must integrate with the helpdesk solution and allow ticket creation automatically on an event defined in asset management solution. It should also allow manual ticket creation also.	
The proposed Asset Management solution must support Software metering to audit and control software usage where launching of an application can be prevented based on centrally configured number of licenses for an application.	
Remote Software Deployment System:	
It should provide delivery, installation, and un-installation of software (ex. Patches of Anti-virus solution etc.) installed on end-user desktops by software delivery remotely through agents installed on them. It must allow pre- and post- installation steps to be specified if required & support rollback in the event of failure in installing software to end-user desktops.	
The tool should have the capability to install applications based on interdependencies i.e. to be installed in a particular order.	
It should support deployment of MSI based packages using drag and drop method.	
It should perform actual distribution of software remotely, not mere file transfer and manual installation at other end. Automated installation should be possible.	
It should include a Software packager for creating software packages to be delivered to end-user desktops which uses a snap-shot technology.	
It should support both push and pull software distribution modes. A catalog/advertisement option of the existing software delivery packages must be provided for end-user to download and install software of his / her choice.	
Users must be allowed to cancel jobs if they are launched at an inconvenient time. Cancelled jobs must be allowed to be reactivated. Forcing packages onto the computer must also be possible.	
Remote Desktop Control Management System:	
The proposed solution should allow remote control of end-user desktop for facilitating resolution of desktop issues without the need to go to the end-user desktop, through agents installed on them.	
It should provide the capability of taking Remote control of Linux systems also using Views sitting on Windows platform.	
It should provide Windows integrated authentication as well as application based authentication option to choose from for the agent installed.	
It should allow host enabled recording which allows the end user to initiate a recording session.	
It should have the ability to convert the recorded sessions in AVI/WMA format so it can be replayed using commonly available Windows media player.	

Centralized User Management should allow administrators to centrally manage	
remote control users' and their access rights. Administrators must be able to	
define preferences and capabilities different users or user groups have, as well	
as defining which targets they can control.	
It should support Seamless integration with management applications such as	
helpdesk, asset management and Software delivery.	
It should support remote Reboot & Chat functions between nodes.	
It should provide facility for encrypting the authentication traffic and support	
AES 256.	