

CLARIFICATIONS TO TENDER No. Nagapattinam/OT/DeGS/LAN/2015-16

SI No	Page No	Clause No	Actual Clause in RFP	Clarification Sought	Clarifications
1	9	4.1 Eligibility & Clause No.4	The Bidder should have an Average Annual Turnover of <b>Rs. 50 Lakhs</b> and above in the last successive three Audited Financial years.	Considering the nature of work involved, and to allow competent companies only to take part in the tender , can the qualification criteria may be modified as "The Bidder should have an Average Annual Turnover of Rs.1.0 crore and above in th last successive three Audited Financial Years."	Tenders terms remains unaltered.
2	9	4.1 Eligibility & Clause No.5	Bidder should have executed orders worth of atleast <b>Rs. 1.0 Lakh</b> for the supply installation and commissioning of LAN Cabling / UPS Cabling and Wiring for any State/Central Government Dedpt/organisations / PSU in Tamil Nadu in one or more years of 2015-16/2014-15/2013-14/2012-13.	Considering the nature of work involved, and to allow competent companies only to take part in the tender , can the qualification criteria may be modified as "Bidder should have executed orders worth of atleast Rs.3.0 Lakhs for Supply installation and commissioning of LAN Cabling/ UPS Cablingand wiring for any State/Central Government dept/ Organisations/ PSU in Tamil Nadu in one or more years of 2015-16, 2014-15/ 2013-14/ 2012-13.	Tenders terms remains unaltered.
3	47	Price Bid	Item 50 Fiber patch Panel(9LIU)	Whether 6Ports or 12 Ports or 24 Ports	In the Annexure-3 Revised Price Bid to LAN Tender it is

					clearly mentioned.
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**AMMENDMENT to LAN TENDER REF:  
Nagapattinam/OT/DeGS/LAN/2015-16**

S N	Page No	Tender Clause	Clause No	Existing in Tender Document	To be Read as
1	11	5.Specification s. Active Components	1. Specifications of 8 Port 10/100 Switch	<p><b><u>1. Specifications of 8 Port 10/100 Switch</u></b></p> <ul style="list-style-type: none"> <li>• Shall support 8# 10/100Mbps</li> <li>• Shall support Data forwarding rate 14,880 pps per port at 100% of wire speed for 10Mbps speed &amp; 148,800 pps per port</li> <li>• Shall support Non-blocking 1.6 Gbps back plane bandwidth</li> <li>• Shall support Broadcast storm control</li> <li>• Shall support auto learning with minimum Aging Time: 300 seconds</li> </ul>	<p><b><u>1. Specifications of 8 Port 10/100/1000 Switch</u></b></p> <ul style="list-style-type: none"> <li>• Shall support 8# 10/100/1000Mbps</li> <li>• Shall support Data forwarding rate 14,880 pps per port at 100% of wire speed for 10Mbps, 148,800 pps per port for 100Mbps and 1,488,000 pps per port for 1000 Mbps</li> <li>• Shall support Non-blocking 16 Gbps back plane bandwidth</li> <li>• Deleted</li> <li>• Deleted</li> </ul>
2	11	"	2.	<b><u>2. Specifications of 16</u></b>	<b><u>2. Specifications</u></b>

			<p>Specifications of 16 Port 10/100 Switch</p>	<p><b>Port 10/100 Switch</b></p> <ul style="list-style-type: none"> <li>• Shall support 16# 10/100Mbps</li> <li>• Shall support Data forwarding rate 14,880 pps per port at 100% of wire speed for 10Mbps speed &amp; 148,800 pps per port</li> <li>• Shall support Non-blocking 3.2 Gbps back plane bandwidth</li> <li>• Shall support operating temperature of Operating: 0 ~ 55 degree C</li> <li>• Shall support Integrated address Look-Up Engine</li> </ul>	<p><b>of 16 Port 10/100/1000 Switch</b></p> <ul style="list-style-type: none"> <li>• Shall support 16# 10/100/1000Mbps</li> <li>• Shall support Data forwarding rate 14,880 pps per port at 100% of wire speed for 10Mbps, 148,800 pps per port for 100Mbps and 1,488,000 pps per port for 1000 Mbps</li> <li>• Shall support Non-blocking 32 Gbps back plane bandwidth</li> <li>• Shall support operating temperature of Operating: 0 ~ 40 degree C</li> <li>• Deleted</li> </ul>
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3	12	"	3. Specifications of 24 Port 10/100 Switch	3. <u>Specifications of 24 Port 10/100 Switch</u>	<u>Item Deleted</u>
4	12	"	4. Specification for 24 Port 10/100 Layer2 Managed Switch with GBIC Ports	4. <u>Specification for 24 Port 10/100 Layer2 Managed Switch with GBIC Ports.</u>	<u>Item Deleted</u>
5	14	"	5. Specification of 24 Port 10/100/1000 Mbps unmanaged Switch	5. Specification of 24 Port 10/100/1000 Mbps unmanaged Switch <ul style="list-style-type: none"> <li>• Data forwarding rate : <b>Not specified</b></li> <li>• Total Power Consumption 35W(Max)</li> <li>• Head of Line (HOL) blocking prevention</li> <li>• Broadcast Storm prevention</li> </ul>	5. Specification of 24 Port 10/100/1000 Mbps unmanaged Switch <ul style="list-style-type: none"> <li>• Shall support Data forwarding rate 14,880 pps per port at 100% of wire speed for 10Mbps, 148,800 pps per port for 100Mbps and 1,488,000 pps per port for 1000 Mbps</li> <li>• Deleted</li> <li>• Deleted</li> <li>• Deleted</li> </ul>
6	15	"	6. Specification for 24 port Layer 2 Web Managed Switch with GBIC Ports	6. Specification for 24 port Layer 2 Web Managed Switch with GBIC Ports <ul style="list-style-type: none"> <li>• Layer 2 Managed-24-port</li> </ul>	6. Specification for 24 Port <b>10/100/1000</b> Layer 2 Web Managed Switch with GBIC Ports Ports

				<p>10/100 TX</p> <ul style="list-style-type: none"> <li>• Shall have 2 fixed 1000 T Ports shared with 2 Mini GBIC ports.</li> </ul> <p>Performance</p> <ul style="list-style-type: none"> <li>• Switch shall support a backplane bandwidth of 12.8 Gbps.</li> <li>• Shall support throughput of 6.6 Mpps</li> <li>• (Nil)</li> <li>• (Nil)</li> </ul> <p>Standards</p> <ul style="list-style-type: none"> <li>• Nil</li> </ul>	<ul style="list-style-type: none"> <li>• Layer 2 Managed -24-port 10/100/1000TX</li> <li>• Shall have 4 SFP ports.</li> </ul> <p>Performance</p> <ul style="list-style-type: none"> <li>• Switch shall support a backplane bandwidth of 56 Gbps.</li> <li>• Shall support throughput of 41.7 Mpps</li> <li>• Should support min. 16K MAC address</li> <li>• IPv4/IPv6 Dual Stack</li> </ul> <p>Standards</p> <ul style="list-style-type: none"> <li>• IEEE 802.1x</li> </ul>
7	16	"	7.Specification of 24 port 10/100/1000 Layer2 Managed Switch with GBIC Ports	<p><b><u>7.Specification of 24 port 10/100/1000 Layer2 Managed Switch with GBIC Ports</u></b></p> <ul style="list-style-type: none"> <li>• Switch shall support maximum of 26-port 10/100/1000T ports simultaneous operational ports.</li> <li>• Shall support 4</li> </ul>	<p><b><u>7.Specification of 24 port 10/100/1000 Layer2 Managed Switch with GBIC Ports</u></b></p> <ul style="list-style-type: none"> <li>• Switch shall support 20# 10/100/1000T ports</li> </ul>

				<p>Shared SFP slots to load 1000T / 1000SX/ 1000LX/1000LHX/1000ZX ports</p> <ul style="list-style-type: none"> <li>• Shall support Maximum of 4 # 100FX ports without using External media converter.</li> </ul> <p>Performance</p> <ul style="list-style-type: none"> <li>• Should support a minimum back plane bandwidth of <b>60 Gbps</b> with the available</li> <li>• Should support a minimum throughput of 38.6Mpps</li> <li>• Should support atleast 32 units per stack.</li> </ul> <p>Spanning Tree</p> <ul style="list-style-type: none"> <li>• Shall support IEEE 802.1 multiple spanning tree</li> </ul> <p>Quality of Services</p> <ul style="list-style-type: none"> <li>• Should Support SP, WRR, SWRR</li> <li>• IPv6 DSCP</li> </ul> <p>Security</p> <ul style="list-style-type: none"> <li>• Support 802.1X and MAC based authentication and IP+MAC+<b>VID</b> binding for different access clients</li> </ul>	<p>simultaneous operational ports</p> <ul style="list-style-type: none"> <li>• Shall support 4 combo 10/100/1000 BASE-T/SFP ports and 2 10G stacking ports.</li> <li>• Deleted</li> </ul> <p>Performance</p> <ul style="list-style-type: none"> <li>• Should support a minimum back plane bandwidth of <b>88 Gbps</b> with the available</li> <li>• Should support a minimum throughput of 65 Mpps</li> <li>• Should support 6units per stack</li> </ul> <p>Spanning Tree</p> <ul style="list-style-type: none"> <li>• Shall support IEEE 802.1s multiple spanning tree</li> </ul> <p>Quality of Services</p>
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					<ul style="list-style-type: none"> <li>• Should Support SP, WRR</li> <li>• Deleted</li> </ul> <p>Security</p> <ul style="list-style-type: none"> <li>• Support 802.1X and MAC based authentication and IP+MAC +Port binding for different access clients</li> </ul>
	19	Clause No 13	13.Fiber cable	13. Fiber Cable – AMP/ Krone/ Systimax	13. Fiber Cable – AMP/ Krone/ Systimax/ Dax/ D-Link/ Molex
	19	Clause No 12	12.Face Plate with Cat6 Keystone I/O – Single Socket	12. Face Plate with Cat6 Keystone I/O – Single Socket	12. Face Plate with Cat6 Keystone I/O and Back box – Single Socket
	25	7.5.4	Evaluation of L1 Bid	<ul style="list-style-type: none"> <li>• Cost of 24 port 10/100/1000 unmanaged switches</li> <li>• Cost of Cat6 cable Laying cost (Concealed in PVC Pipe)</li> <li>• Cost of Keystone Face plate I/O as per Tender</li> </ul>	<ul style="list-style-type: none"> <li>• Cost of 24 port 10/100/1000 unmanaged switches + 6U Rack with accessories</li> <li>• Cost of supply and laying of Cat6 cable + supply and laying of 20 mm PVC pipe (Concealed in PVC Pipe)</li> <li>• Cost of Face plate, I/O and back box as per Tender</li> </ul>
	44 - 49	Annexure-2	Annexure-2 Price Bid	Annexure-2 Price Bid – LAN Components <ul style="list-style-type: none"> <li>• Without Service Tax provision.</li> </ul>	Annexure-3 – Revised Price Bid – LAN Components <ul style="list-style-type: none"> <li>• With Service</li> </ul>

					Tax Provision
	18	OEM Criteria	OEM Criteria	<p><b><u>OEM Criteria</u></b></p> <ul style="list-style-type: none"> <li>• OEM should have a toll free no</li> <li>• OEM Should have service center in Chennai.</li> <li>• OEM should have direct presence in India atleast for 10 Years.</li> <li>• OEM should have ISO 14001 Certificate.</li> <li>• OEM should have warehouse in Chennai.</li> </ul>	<p><b><u>OEM Criteria</u></b></p> <ul style="list-style-type: none"> <li>• OEM should have a toll free no</li> <li>• OEM Should have service center in Chennai.</li> <li>• OEM should have direct presence in India atleast for 10 Years.</li> <li>• OEM should have ISO 14001 Certificate.</li> <li>• OEM should have warehouse in Chennai.</li> <li>• All Cables should be from single OEM and Manufacturer Authorisation Letter should be attached in TECHNICAL BID</li> <li>• All switches should be from</li> </ul>



									single OEM and Manufacturer Authorisation Letter should be attached in TECHNICAL BID
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**Annexure-3 - REVISED PRICE BID – LAN COMPONENTS**

"RATE CONTRACT REF NO : Nagapattinam /OT/DeGS /LAN /2015-16

S. N	Product Code	Description	Initial approx Qty & the future on RC	Unit Price inclusive of Excise Duty, Packing & Forwarding, Insurance & Installation & Commissioning charges & other charges if any	Sales Tax in %	Sales Tax in INR	Service Tax in %	Service Tax in INR.	Grand Total inclusive of Sales Tax and Service Tax In INR. (5+7+9)
1	2	3	4	5	6	7	8	9	
<b>RACKS</b>									
1	RACK – 001	6 U Rack (Wall mounting) Depth(450mm)	1 No.						
2	RACK – 002	9 U Rack (Wall mounting) Depth(450mm)	1 No.						
3	RACK – 003	12 U Rack (Wall mounting) Depth(450mm)	1 No.						

4	RACK Power Strip Strip – 01	Power Strip 5A & 5 Socket	1 No						
5	RACK Power Strip Strip – 02	Power Strip 15A & 5 Socket	1 No						
6		Fan for the above Racks	1 No						
<b>CABLES &amp; PIPE</b>									
7	CAB – 01	Supply CAT 6 cable	1 Meter						
8	CAB – 02	Fiber Cable 6 core MM50 / 125 micron	1 Meter						
9	CAB – 03	Fiber Cable 12 core MM50 / 125 micron	1 Meter						
10	CAB – 04	Fiber Cable 6 core SM	1 Meter						
11	CAB – 06	Fiber Cable 12 core SM	1 Meter						
12	CAB – 07	Supply of 20mm PVC pipet / Channel	1 Meter						
13	CAB – 08	Cable laying without conduit / Channel	1 Meter						
14	CAB – 09	Digging Soft earth / mtr	1 Meter						
15	CAB – 10	Digging RCC / Black tar / mtr	1 Meter						
16	CAB- 11	Supply of HDPE pipe 32mm for encapsulating	1 Meter						

		the fiber cable							
17	CAB – 12	Fiber Cable laying charges outdoor / Indoor & HDPE pipe laying	1 Meter						
18	CAB – 13	Fiber Termination Charges rate for each	1 Core						
19	CAB – 14	G.I. Pipe 1”supply	1 Meter						
20	CAB– 15	Charges for Rack Fixing	1 No						
21	CAB- 16	Charges for Patch Panel Fixing	1 No						
22	CAB– 17	Charges For I/O Termination (SMB)	1 No						
23	CAB- 18	Charges for diagnosing and rectifying the issues on existing network	1						
24	CAB- 19	Fluke Test (Per Node)							
25	CAB- 20	G.I. Pipe 1” laying							
<b>Ethernet Card &amp; Patch Cords &amp; I/O outlet</b>									
26	CARD S -01	32 Bit 10/100 Mbps Ethernet Card	1 No.						
27	CARD S -02	32 Bit 10/100/1000 Mbps Ethernet Card	1 No.						

28	CARD S - 03	64 Bit 10/100/1000 Mbps Ethernet Card	1 No						
29	CARD S -05	Cat 6 24 Port Patch Panel	1 No.						
30	CARD S -06	CAT 6 3Ft patch Cord	1 No.						
31	CARD S -07	CAT 6 7Ft patch Cord	1 No.						
32	SWIT- 08	Face plate with cat6 key stone I/O and Back box – Single Socket	1 No.						
33	CARD S -10	MM Fiber patch cord PIGTAIL- 1 meter (Factory made)	1 No.						
34	CARD S -11	SM Fiber patch cord PIGTAIL- 1 meter (Factory made) SC/LC	1 No.						
35	CARD S -12	MM Fiber patch cord- 3 meter SC – LC / SC-SC	1 No.						
36	CARD S -13	SM Fiber patch cord- 3 meter SC – LC / SC-SC	1 No.						
<b>SWITCH &amp; SOCKETS</b>									
37	SWIT - 001	8 Port Switch 10/100/1000 Mbps – Unmanaged	1 No.						
38	SWIT	16 Port Switch	1 No.						

	- 002	10/100/1000 Mbps Unmanaged							
39	SWIT - 003	24 Port Switch 10/100/1000 Mbps Unmanaged	1 No.						
40	SWIT - 0	24 port 10/100/1000 Layer 2 Web Managed Switch with GBIC ports	1 No.						
41	SWIT - 015	24 port 10/100/1000 Mbps Layer 2 Managed Switch	1 No.						
<b>ADAPTOR &amp; CONNECTOR</b>									
42	CAB - 015	RJ 45 connector	1 No.						
43	CAB - 016	Fiber SC adapter -MM	1 No.						
44	CAB - 017	Fiber SC adapter -SM	1 No.						
45	CAB - 018	Fiber optic connector-MM	1 No.						
46	CAB - 019	Fiber optic connector-SM	1 No.						
47	CAB- 020	Fiber patch panel (LIU) 6 Port unloaded	1 No.						
48	CAB - 021	Fiber patch panel (LIU) 12 Port unloaded							
<b>Modules &amp; Media Converters</b>									
49	SWIT - 019	MGBIC 1000SX Transceiver	1 No.						

		for above switch							
50	SWIT - 020	MGBIC 1000LX Transceiver for above switch	1 No.						
51	SWIT - 021	10/100 Single Mode Media Converter	1 No.						
52	SWIT - 022	10/100 Multi Mode Media Converter	1 No.						
53	SWIT - 023	10/100/1000 Single Mode Media Converter	1 No.						
54	SWIT - 024	10/100/1000 Multi Mode Media Converter	1 No.						
<b>OTHERS</b>									
55		Site Survey, installation & Commissioni ng for structured Cabling per Site (< 20 Nodes)	Per Site						
56		Site Survey, installation & Commissioni ng for structured Cabling per Site (20-40 Nodes)	Per Site						
57		Site Survey, installation & Commissioni ng for structured Cabling per Site (> 40	Per Site						

		Nodes)							
58		Technical Support for Configuring the System with IP Address per System (one time cost)	Per Unit						
59		Electrical wiring from TNSWAN UPS to LAN Switch ( Phase, Neutral and Earth)	Per Meter						
<p><b>Note: 1) The Bidder shall submit the offer by filling up all the columns against each item. Bidders are not allowed to quote for a few products from the above list. Partial quote is not allowed. The Bidder has to clearly mention whether their product will attract VAT or CST.</b></p>									
<p><b>2) Warranty : 36 months</b></p>									
<p><b>3) Rate Contract : 1 Year from the date of issue of 1st Purchase order by DeGS</b></p>									

**Annexure-4 - Comprehensive Warranty cost for 4<sup>th</sup> and 5<sup>th</sup> Year for LAN COMPONENTS**

**"RATE CONTRACT REF NO : Nagapattinam /OT/DeGS /LAN /2015-16**

- Comprehensive warranty cost in percentage for the 4<sup>th</sup> year = ..... % + ..... %  
Sales (VAT or CST) / Service Tax
- Comprehensive warranty cost in percentage for the 5<sup>th</sup> year = ..... % + ..... %  
Sales (VAT or CST) / Service Tax

Note:

1. Comprehensive warranty cost means cost toward all the spares, service charge and all Taxes, excluding consumable cost if any
2. The 4<sup>th</sup> and 5<sup>th</sup> Year extended warranty cost may be included in the price bid evaluation, to arrive at the LIFE CYCLE COST of the LAN COMPONENTS. The Bidder has clearly mentioned whether their product will attract VAT or CST.

