

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
1	Definitions	Definitions - Service Centre	6	"Service Centre" The centre or place, wherein the Bidder, inter alia undertakes and performs the service activities relating to tendered items and shall include a direct service centre or authorized dealer or franchisee service centre of the bidder in 13 Districts of Andhra Pradesh:	DWDM is core-network boxes and does not warrant multiple service centres unlike mass commodity. We request to rationalize the service centre definition as, 'Bidder to have at least one service centre in AP or Undertaking to establish the same within the timelines stipulated by APSFL.'	Spares should be maintained in all the districts so that SLA can be met As per RFP conditions and OEM support center should be present in Andhrapradesh and Service Centre should be present in India.
2	1.1 Key Events and Dates	1.1.11 Performance Bank Guarantee	7	10% of the Contract Value in the form of Bank Guarantee issued by one of the Nationalized / Scheduled Commercial Banks in India drawn in favour of Andhra Pradesh State FiberNet Ltd, payable at Vijayawada. • Should be valid for contract period + 3 months	We request you to rationalize the PBG value as 5% in line with the other PSUs	No Change
3		1.1 Key Events and Dates	7	Bid Processing Fee: INR 1,00,000 (Rupees One Lakh Only) in the form of Demand Draft issued by one of the Nationalized / Scheduled Banks in India drawn in favour of Andhra Pradesh State FiberNet Ltd', payable at Vijayawada.	Sir, in the RFPs floated by various other departments with high valued projects too, a maximum bid processing fee of Rs.30,000/- only is being asked. So, we request the department to please reduce the Bid Processing Fee accordingly.	No change
4		1.1 Key Events and Dates	7	Bid Security / EMD: INR 1,00,00,000 (INR One Crore Only) in the form of Bank Guarantee issued by one of the Nationalized / Scheduled Commercial Banks in India drawn in favour of Andhra Pradesh State FiberNet Ltd, payable at Vijayawada.	Sir, for high valued projects, a bid security (EMD) of 1% only is being asked in most of the tenders. Hence, we request the department to kindly reduce the Bid Security (EMD) and amend the criteria as follows: Bid Security / EMD : INR 50,00,000 (INR Fifty Lakhs Only) in the form of Bank Guarantee issued by one of the Nationalized / Scheduled Commercial Banks in India drawn in favour of Andhra Pradesh State FiberNet Ltd, payable at Vijayawada.	No change
5		1. Inviting Auth/Key Events	7	1.(1.6). Last date and Time for submission of Proposal (Proposal Due date)	Request kindly amend the Proposal submission date as 4 weeks from date of Publishing the PB Clarifications	Refer Corregendum
6	1.1 Key Events & Dates,	1.1, Serial No 6	7	Last date and time for submission of proposal (Proposal Due Date)	We request for Extension of Bid submission by 30 days	Refer Corregendum
7	2	2	11		Total number of DWDM Nodes are 31 in number as per the topology shared. Please confirm	We have only 13 districts in AP and the topology is showing both district nodes and OLA nodes also. Capacity in State ring is expected in the district nodes. DWDM and OTN nodes should be present in districts and amplifier nodes will be as per the vendor solution
8	2	2	11		Is this the topology to be considered for network design assuming all zonal rings, state rings & Cross connectivity is included.	Yes
9	2	2	11		Please share the topology diagram of zonal rings as well, if separate from 31 node topology.	Refer Corregendum
10	2	2	11		What is the loss coefficient to be considered in dB/km?	Refer Corregendum
11	2	2	11		Any span margins in dB?	Refer Corregendum
12	2	2	11		Please specify the traffic requirement with clarity on type of traffic, its capacity & with Start & end nodes. Else please specify the type of interfaces to be populated in each node. Accordingly transponder/muxponder cards shall be proposed.	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR
13	2	Introduction	11	Each of the districts in APSFL network has its own zonal ring , these zonal rings have 4 -5 nodes in each zonal ring.	Request APSFL to kindly share list of zonal nodes in each Zonal Ring as final SoR.	Bidder has to consider 90% zonal level sites shall have 4 nodes and 10% zonal sites shall have 5 nodes that includes District Headquarter Sites.
14	2	Introduction	11			
15	2	Introduction	11	APSFL currently have a transmission network connecting all the districts to the network operations centre and all zonal to respective districts using a PSM protected ring with 100G capacity from NOC to each district and 20g capacity from district to each zonal with a 40 channel DWDM system using Cisco's NCS 2006.	Please clarify the meaning of PSM. The 100G capacity means 10 channels of 10G or a single channel of 100G? What is the location of NOC? Please clarify	The PSM (protection switch module) provides trunk fiber based protection for existing Cisco DWDM nodes configured in point-to-point topologies. Location of NOC 1 is Vizag and Location of NOC 2 is Amaravati (Guntur).
16	2	Introduction	11	Each of the districts in APSFL network has its own zonal ring , these zonal rings have 4 -5 nodes in each zonal ring. Following is an indicative diagram of the zonal ring having 4 nodes and the respective distances	Please provide the details about the zonal rings connected to every district. How many total Zonal Rings are there and how many nodes are there in each zonal rings and what are the fiber parameter of zonal rings? Please clarify.	Yes There shall be all zonal ring connected to District Headquarter ring. In New Network there shall be thirteen zonal ring shall be provisioned, those shall be interconnected with neighboring zonal ring nodes.
17	2	Introduction	11	Diagram 1	Please clarify, which District nodes are part of zonal rings and their count?	In New Network there shall be thirteen zonal ring shall be provisioned, those shall be interconnected with neighboring zonal ring nodes.

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18	2	Introduction	11	APSFL is planning to upgrade the transmission network to support OTN functionality in the network a 400G capacity across the state ring and upgrade the capacity in zonal rings with a 200G OTN capacity for each ring with an overlapping connectivity across the zonal rings and state ring to serve various cross district and cross zonal capacity demands	Does 400G capacity across state ring means, that between two adjacent districts in below diagram should have 400G Bandwidth and in the the zonal rings two adjacent sites should have 200G Bandwidth available. Is separate OTN DXC required at every district and zonal node? Please confirm	It is clarified in the Tender District Headquarter shall have 400 G shared bandwidth, traffic matrix shall be placed as per actual requirement during field deployment, Bidder needs to provide port interface as per mentioned in the below. OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR And in between zonal ring connectivity 100G Bandwidth should be available from day 1.
19	2	Introduction	11	Diagram 2	Does this diagram indicate all the districts in AP and the degrees of each district? We could not find Amaravathi node in the network diagram. Also, please provide the following parameters: 1) Loss values for each span in Zonal and State rings 2) Margins required 3) Traffic matrix for current services in Zonal and State rings 4) Traffic Matrix for new services in Zonal and State rings 5) Port Count of 10GE SFP+ and 100GE CFP/QSFP28 Client pluggables in Zonal and State rings 6) Port Count of Line/Trunk side 100G CFP/CFP2 pluggables in Zonal and State rings	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR Amaravathi is Guntur Site.
20	Introduction	2	11	Each of the districts in APSFL network has its own zonal ring , these zonal rings have 4 -5 nodes in each zonal ring. Following is an indicative diagram of the zonal ring having 4 nodes and the respective distances.	It is requested to provide detail about: 1. How many zonal rings are in the network 2. It is suggested to create the Bill of Quantity considering 4 Node in one zonal ring. 3. What's the length and fiber loss between zonal sites (or if OLA-Line Amplifiers needs to be inserted).	Bidder has to consider 90% zonal level sites shall have 4 nodes and 10% zonal sites shall have 5 nodes that includes District Headquarter Sites.
21	2	Introduction	11	Each of the districts in APSFL network has its own zonal ring , these zonal rings have 4 -5 nodes in each zonal ring. Following is an indicative diagram of the zonal ring having 4 nodes and the respective distances	Its requested to share the list of zonal sites and complete network diagram considering the services to be offered using this planned network	Refer Corregendum
22	APSFL/OLA/284-2/2018	2(Introduction)	11	Each of the districts in APSFL network has its own zonal ring , these zonal rings have 4 -5 nodes in each	Please share exact topology of network for District and Zonal ring with fiber length and span loss	Refer Corregendum
23	APSFL/OLA/284-2/2018	2(Introduction)	11	APSFL is planning to upgrade the transmission network to support OTN functionality in the network a 400G capacity across the state ring and upgrade the capacity in zonal rings with a 200G OTN capacity for each ring with an overlapping connectivity across the zonal rings and state ring to serve various cross district and cross zonal capacity demands	Please share exact topology of network with clear distinction between District Node and zonal Node	Refer Corregendum
24	APSFL/OLA/284-2/2018	2(Introduction)	11	APSFL is planning to upgrade the transmission network to support OTN functionality in the network a 400G capacity across the state ring and upgrade the capacity in zonal rings with a 200G OTN capacity for each ring with an overlapping connectivity across the zonal rings and state ring to serve various cross district and cross zonal capacity demands	Please share Traffic detail for Zonal and cross zonal demands with client rate and client interface type	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR
25	2	Introduction	11		Please confirm whether DWDM Nodes are 31 in number as per the topology given in the RFP. Please share the topology diagram of zonal rings as well, if separate from 31 node topology.	We have only 13 districts in AP and the topology is showing both district nodes and OLA nodes also. Capacity in State ring is expected in the district nodes. DWDM and OTN nodes should be present in districts and amplifier nodes will be as per the vendor solution
26	2	2	11	APSFL currently have a transmission network connecting all the districts to the network operations centre and all zonal to respective districts using a PSM protected ring with 100G capacity from NOC to each district and 20g capacity from district to each zonal with a 40 channel DWDM system using Cisco's NCS 2006.	Please confirm if following understanding is correct : NOC-District Ring is having 100G capacity. So, is it 10x10G line or 1X100G line. District-Zonal rings : 20G capacity. Please confirm if it is having 2X10G capacity with 10G as line rate for the ring.	DHQ to NOC Bandwidth of 200G need to be distributed as : Dedicated 100G bandwidth with ASON protection (Switch within 50ms) for each of the two NOC(DC) location. For District Headquarter shared bandwidth will be 400 G, Sharing mechanism shall be based on individual Bidders/OEMs solution.
27	2	2	11	APSFL is planning to upgrade the transmission network to support OTN functionality in the network a 400G capacity across the state ring and upgrade the capacity in zonal rings with a 200G OTN capacity for each ring with an overlapping connectivity across the zonal rings and state ring to serve various cross district and cross zonal capacity demands	Please confirm what does 400G capacity and 200G OTN capacity refers to. Is it OTN XC capacity or ring capacity or line rate? Also confirm if state ring and district rings are same?	DHQ to NOC Bandwidth of 200G need to be distributed as : Dedicated 100G bandwidth with ASON protection (Switch within 50ms) for each of the two NOC(DC) location. For District Headquarter shared bandwidth will be 400 G, Sharing mechanism shall be based on individual Bidders/OEMs solution.
28	2	2	11	Introduction	Please share the list of District and Zonal nodes	Refer Corregendum

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29	2	2	11	Introduction	Please share the topology with District and Zonal nodes	Refer Corregendum
30	2	2	11	Introduction	Please share the OLR/LA Locations	Refer Corregendum
31	2	2	11	Introduction	Please share the traffic matrix along with clients	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR
32	2	2	11	Introduction	Please share the fiber losses, distances between nodes.	Refer Corregendum
33	2	2	11	Introduction	Kindly share Link engineering details amplifier / osnr details	Bidder/OEM needs to derive from Planning tool.
34	2	2	11	Introduction	Kindly share Bay face layout of deployment equipment	Bidder/OEM needs to derive from Planning tool.
35		2. Introduction	11	APSFL currently have a transmission network connecting all the districts to the network operations centre and all zonal to respective districts using a PSM protected ring with 100G capacity from NOC to each district and 20g capacity from district to each zonal with a 40 channel DWDM system using Cisco's NCS 2006.	How many network operations centre are there?	There shall be 2 Network operation centers.
36		2. Introduction	11	APSFL currently have a transmission network connecting all the districts to the network operations centre and all zonal to respective districts using a PSM protected ring with 100G capacity from NOC to each district and 20g capacity from district to each zonal with a 40 channel DWDM system using Cisco's NCS 2006.	How many districts are connected to the NOC?	All 13 district shall be connected to NOC 1 and NOC 2
37		2. Introduction	11	APSFL currently have a transmission network connecting all the districts to the network operations centre and all zonal to respective districts using a PSM protected ring with 100G capacity from NOC to each district and 20g capacity from district to each zonal with a 40 channel DWDM system using Cisco's NCS 2006.	How many zones for each districts?	In New Network there shall be thirteen zonal ring shall be provisioned, those shall be interconnected with neighboring zonal ring nodes.
38		2. Introduction	11	Following the diagram of the current state ring and the sites in the network with indicative distances.	Which diagram is referred here?	State ring including all OLA sides
39		2. Introduction	11	APSFL is planning to upgrade the transmission network to support OTN functionality in the network a 400G capacity across the state ring	What is data rate of the DWDM Lambda? Is it 400G or 100G?	Based on OEM solution, the offered DWDM/OTN network shall be based on OTN structure with separate client side board and DWDM/OTN side board with a common backplane
40		2. Introduction	11	upgrade the capacity in zonal rings with a 200G OTN capacity for each ring with an overlapping connectivity across the zonal rings	What is data rate of the DWDM Lambda? Is it 200G or 100G?	Based on OEM solution, the offered DWDM/OTN network shall be based on OTN structure with separate client side board and DWDM/OTN side board with a common backplane
41	2. Introduction	2	11	Following the diagram of the current state ring and the sites in the network with indicative distances.	As per provided topology, link distance is mentioned so please provide attenuation coefficient, Link & OSNR margin detail as well. Please also give detailed service matrix.	Refer Corregendum
42	2. Introduction	2	11	Each of the districts in APSFL network has its own zonal ring, these zonal rings have 4 -5 nodes in each zonal ring.	As per understanding there are total 31 districts and 4 or 5 nodes in each zonal ring and each of the districts has its own zonal ring so total nodes quantity are 31*4=124/31*5=155, Please confirm	In New Network there shall be thirteen zonal ring shall be provisioned, those shall be interconnected with neighboring zonal ring nodes.
43	2	2	12		Please provide the connectivity details to the DC site Amaravati. The topology diagram doesn't include this site.	Amaravati can be considered as a GUNTUR
44	2	2	12		Please confirm if the necessary hardware is available in existing Cisco equipment to support additional wavelengths. It would be helpful to propose optimum design if we get complete network details.	The equipment details and the number of channels supported is already given in tender.
45	3.1	Functional Requirement.	12	The bidder solution should make sure that at least 400G of OTN capacity is factored in for any district to any district communication in the state ring and there should be possibility to make use of the same for the inter zonal OTN traffic across districts.	We understand there would be two OTN core Rings, Ring#1 & Ring#1 among all the 12 District node with shared capacity of 400G in each ring. Request APSFL to kindly confirm if above understanding is correct.	Total Number of OTN node in District Head quarter shall be 13 nos. In between Nodes, OLA shall be placed if distance is more than Standard. In New Network there shall be thirteen zonal ring shall be provisioned, those shall be interconnected with neighboring zonal ring nodes.
46	3.1	Functional Requirement.	12	The bidder solution should have at least 200G of OTN capacity for any zonal to any zonal communication within one zonal ring with at least two alternate paths from each zonal to adjacent zonal rings of other districts	We understand there would be OTN zonal ring of 200G shared capacity with 4 nodes per zonal ring. Request APSFL to kindly confirm if above understanding is correct.	Zonal shared bandwidth will be 200 G, ring bandwidth shall be more than 50 G considering 4 nodes in one zonal ring, and it shall support both the functionality of L1 - OTN and L2 - Ethernet. Zonal to zonal direct link capacity should atleast be 100G to be used for restoration of services.
47	3.1	Functional Requirement.	12	The bidder solution should have inline OTDR functionality in every node with integration with the fault management functionalities of node.	Request APSFL to confirm if inline OTDR is required only for district(DHQ) nodes rings.	OTDR is mandatory for all the links in District Headquarter and Zonal Nodes.
48	3.1	Functional Requirement.	12	Bidders can reuse the existing NCS 2006 chassis in the APSFL network, or bidder may propose extra chassis for supporting the requirements or can propose completely different chassis in addition to the existing ones or completely provide a new vendor solution all together meeting all the existing and the new requirements mentioned as part of this RFP	We understand that the Bidder can consider existing NCS 2006 chassis along with Transponders etc. to fulfil RFP requirements. Request APSFL to confirm if above understanding is correct. Also request APSFL to share the exiting HW details for planning the network with existing NCS 2006 equipment.	It is a 40 channel node with one 100G running to one NOC with 10x10G client interfaces.
49	3.1	Functional Requirement.	12	The bidder solution should make sure that each district is equipped with a dedicated capacity of at least 200G running across the two DCs in Vizag and Amaravathi.	We Understand that 200G capacity(Protected) should be planned from Every DHQ Node to Vizag and Amaravath(Guntur). The Switching From working to protection Path should be in less than 50ms. Request APSFL to kindly confirm	DHQ to NOC Bandwidth of 200G need to be distributed as : Dedicated 100G bandwidth with ASON protection (Switch within 50ms) for each of the NOC(DC) location.

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50	3	3	12	The selected bidder shall be responsible for the supply, installation and commissioning of the required DWDM Equipment to support all the existing functionality and the new requirements which are part of this tender (or) Integrate with existing DWDM equipment and support the new requirements which are part of the network. The bidder may choose to buy back all the existing equipment and propose altogether a completely new solution also with a clear plan of the rollout strategy to have minimal service impact to the live services.	Please provide the technical details of existing network in terms of network diagram, distances, losses, margins and existing traffic for estimating the integration effort and proposing a new solution.	Refer Corregendum
51	3	3	12	The network shall be deployed over existing aerial fibre network of APSFL and designed to cater to all the running services along with the new services which are part of this RFP.	Please provide the detailed traffic matrix of running services.	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR Traffic Matrix shall be provided by APSFL during the deployment planning period
52	3	3.1	12	The bidder solution should make sure that each district is equipped with a dedicated capacity of at least 200G running across the two DCs in Vizag and Amravathi.	Please elaborate the requirement: Does this mean the following: Every District to Vizag: 200G Capacity Every District to Amravathi: 200G Capacity Or does this mean the following: Vizag to Amravathi: 200G Capacity Also, please share the client services at every district and DCs. Please clarify	DHQ to NOC Bandwidth of 200G need to be distributed as : Dedicated 100G bandwidth with ASON protection (Switch within 50ms) for each of the NOC(DC) location.
53	3	3.1	12	The bidder solution should make sure that at least 400G of OTN capacity is factored in for any district to any district communication in the state ring and there should be possibility to make use of the same for the inter zonal OTN traffic across districts.	We understand that, 400G fiber capacity should be there between any two adjacent nodes in the state ring and this requirement is over and above bandwidth required between two DCs Vizag and Amravathi. Please share the traffic matrix of State Ring Please confirm.	District Headquarter ring For District Headquarter shared bandwidth will be 400 G, Sharing mechanism shall be based on individual Bidders/OEMs solution.
54	3	3.1	12	The bidder solution should have at least 200G of OTN capacity for any zonal to any zonal communication within one zonal ring with at least two alternate paths from each zonal to adjacent zonal rings of other districts	We understand that, at any given time 200G fiber capacity should be there between any two given nodes in a single zone. Please share the details and fiber topology of every Zonal ring. Please share the traffic matrix of Zonal ring Please confirm	Zonal shared bandwidth will be 200 G, ring bandwidth shall be more than 50 G considering 4 nodes in one zonal ring, and it shall support both the functionality of L1 - OTN and L2 - Ethernet.
55	3	3.1	12	The bidder solution should have capability to run services from any zonal to any other zonal in another district anywhere across the state at optical level.	We understand that inter zonal communication will be through OTN DXC. Please share the traffic matrix of inter-Zonal communication. Please confirm	Based on each Bidder/OEM solution. Traffic Matrix shall be provided during deployment planning.
56	Scope of Work	3	12	The network shall be deployed over existing aerial fibre network of APSFL and designed to cater to all the running services along with the new services which are part of this RFP.	It is requested to provide detail about: 1, Fiber type (ITU T Standard) 2, Distance and fiber loss between all sites (including DHQ to DHQ, Zonal to Zonal Sites, and interconnecting different zonal sites).	Refer Corregendum
57	Functional Requirement	3.1	12	The bidder solution should make sure that each district is equipped with a dedicated capacity of at least 200G running across the two DCs in Vizag and Amravathi.	Please clarify, 200G dedicated bandwidth to NOC and back up NOC. Resuest to you please provide traffic matrix for entire network.	DHQ to NOC Bandwidth of 200G need to be distributed as : Dedicated 100G bandwidth with ASON protection (Switch within 50ms) for each of the NOC(DC) location.
58	Functional Requirement	3.1	12	The bidder solution should make sure that at least 400G of OTN capacity is factored in for any district to any district communication in the state ring and there should be possibility to make use of the same for the inter zonal OTN traffic across districts.	It is requested to provide information that complete ring is of 400 G or any district to any district is 400 G OTN capacity. Resuest to you please provide traffic matrix for entire network. It is requested to provide detail information of the site type for each sites?(RODAM or OLA).	For District Headquarter shared bandwidth will be 400 G, Sharing mechanism shall be based on individual Bidders/OEMs solution. Please check Network Diagram for Fiber length, OLA shall be considered based on individual OEMs solution.
59	Functional Requirement	3.1	12	The bidder solution should have at least 200G of OTN capacity for any zonal to any zonal communication within one zonal ring with at least two alternate paths from each zonal to adjacent zonal rings of other districts.	Please clarify 200G OTN any zonal to any zonal communication means, total zonal ring bandwidth is 200G. It is understood from the given clause, each zonal rings shall have 2 sites along with 3 direction, so It is recommended to supply 100 G bandwidth in between zonal rings. It is requested to clarify, any zonal site to any zonal site (Access Layer) equipment supplied should support MPLS - TP and its features.	Zonal shared bandwidth will be 200 G, ring bandwidth shall be more than 50 G considering 4 nodes in one zonal ring, and it shall support both the functionality of L1 - OTN and L2 - Ethernet.
60	Functional Requirement	3.1	12	The bidder solution should have at least 200G of OTN capacity for any zonal to any zonal communication within one zonal ring with at least two alternate paths from each zonal to adjacent zonal rings of other districts.	It is Suggested to create hybrid & Unified switching and provide OTN layer portection that include L2 Layer protection also at Zonal Layer.	OK, based on Bidder/OEM solution.
61	3	Scope of Work	12	Scope of Work	The scope of work does not cover the Training requirement to APSFL project and maintenance team. Suggest APSFL to clearly define the training requirements so that the same can be included in the overall package	Training shall be provided to APSFL staff which should cover complete Planning & Design for one batch of people and Operations & Maintenance for another batch of people. The same need to be recorded and made available for future use.
62	APSFL/OLA/284-2/2018	2(Introduction)	12	Bidders can reuse the existing NCS 2006 chassis in the APSFL network. or bidder may propose extra chassis	Please clarify whether it is possible to upgrade existing Cisco NCS 2006 equipment to 96 optical channel system by addition of extra hardware in case we want to use the existing optical layer equipment	Bidders need to check with the existing OEM as we have a 40 channel capacity only deployed

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64	APSFL/OLA/284-2/2018	2(Introduction)	12	The bidder solution should make sure that each district is equipped with a dedicated capacity of at least 200G running across the two DCs in Vizag and Amaravathi	Please clarify whether 200G capacity between two DCs to each district node s are unprotected/1+1 protected/1+1+R(restoration)	DHQ to NOC Bandwidth of 200G need to be distributed as : Dedicated 100G bandwidth with ASON protection (Switch within 50ms) for each of the NOC(DC) location.
65	APSFL/OLA/284-2/2018	2(Introduction)	12	The bidder solution should have at least 200G of OTN capacity for any zonal to any zonal communication within one zonal ring with at least two alternate paths from each zonal to adjacent zonal rings of other districts	Please share traffic matrix with exact service start and end points to calculate the restoration path capacity for alternate paths from each zonal to adjacent zonal rings of other districts or please specify the capacity to be provision on alternate paths	Traffic Matrix shall be provided durign deployment planning phase.
66	APSFL/OLA/284-2/2018	2(Introduction)	12	The bidder solution should have inline OTDR functionality in every node with integration with the fault management functionalities of node.	Please clarify whether OTDR is a mandatory requirement	OTDR is mandatory for all the links in District Headquarter and Zonal Nodes.
67			12		The topology diagram doesn't include amaravati site.Please provide the connectivity details.	Please consider GUNTUR as Amaravati
68			12		Based on the complete network details we will be able to propose optimum design which will help to reduce the cost per se. Please confirm if the necessary hardware is available in existing Cisco equipment to support additional wavelengths.	Bidder/OEM has to provide New Equipments offered to support all technology compliance & Specifications ask in the tender.
69	3.1	Functional Requirement	12	Bidders can reuse the existing NCS 2006 chassis in the APSFL network. or bidder may propose extra chassis for supporting the requirements or can propose completely different chassis in addition to the existing ones or completely provide a new vendor solution all together meeting all the existing and the new requirements mentioned as part of this RFP	Reuse of existing chassis in the APSFL network gives advantage to one particular vendor in terms of cost and implementation , this should be modified accordingly.	The existing nodes only have 40 channel nodes deployed with no OTN functionality support. There is no specific advantage for the vendor.
70	3.1	Functional Requirement	12	The bidder solution should make sure that each district is equipped with a dedicated capacity of at least 200G running across the two DCs in Vizag and Amaravathi.	Please share traffic matrix so that exact designing for OTN network may be done	Traffic Matrix shall be provided during deployment planning phase.
71	3.1	Functional Requirement	12	The bidder solution should make sure that at least 400G of OTN capacity is factored in for any district to any district communication in the state ring and there should be possibility to make use of the same for the inter zonal OTN traffic across districts.	Please share traffic matrix so that exact designing for OTN network may be done	Traffic Matrix shall be provided during deployment planning phase.
72	3.1	Functional Requirement	12	The bidder solution should have at least 200G of OTN capacity for any zonal to any zonal communication within one zonal ring with at least two alternate paths from each zonal to adjacent zonal rings of other districts	Please share traffic matrix so that exact designing for OTN network may be done	Traffic Matrix shall be provided durign deployment planning phase.
73	3.1	Functional Requirement	12	The bidder solution should have capability to run services from any zonal to any other zonal in another district anywhere across the state at optical level.	Please share traffic matrix so that exact designing for OTN network may be done	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR
74	3	Scope of Work	12	The network shall be deployed over existing aerial fibre network of APSFL and designed to cater to all the running services along with the new services which are part of this RFP.	Please share fiber parameters for link designing	Please refer corrigendum
75	2	2	12	The bidder solution should have at least 200G of OTN capacity for any zonal to any zonal communication within one zonal ring with at least two alternate paths from each zonal to adjacent zonal rings of other districts	In tender, it is asked about the connectivity across zonal rings to adjacent zonal ring of other district. This means, every zonal pop should have 200G OTN with every other zonal pop in all adjacent districts. we should ask this confirmation as with this caluse OTN capacity required will be 200G* number of zonal pops in adjectent districts. with total 2 adjectent districts and considering 5 zonal pop in each district will require total 2*5*200G i.e. approximately 2 tbps OTN b/w per zonal pop excluding 200G for local OTN ring. In total 2.2tbps OTN b/w on each zonal node. Also since all zonal OTN circuits will pass through DHQ, DHQ will still require higher OTN capacity. Just to add on, with such OTN capacity required at zonal POP, with 5 pop in each district and it's own OTN circuit to NOC and 400G capacity will take district pop to 5*2+200G+1.2tbps i.e. approximately 12 tbps. This does not match with the 3 tbps tender requirement. 1.2 tbps = 400G east + 400G west + 400G drop	For District Headquarter shared bandwidth will be 400 G, Sharing mechanism shall be based on individual Bidders/OEMs solution. Please check Network Diagram for Fiber Length, OLA shall be considered based on individual OEMs solution. Zonal shared bandwidth will be 200 G, ring bandwidth shall be more than 50 G considering 4 nodes in one zonal ring, and it shall support both the functionality of L1 - OTN and L2 - Ethernet.
76	2	2	12	Functional requirements	NOC/DR XC capacity is coming 4T and Router ports requirements are 4T. Please confirm if our understanding is correct. Trib DC_DR 1*200 11-Districts 11*200 State Ring 2*400 Zonal Ring 2*200 Adj Zone 2*200 4T	For District Headquarter shared bandwidth will be 400 G, Sharing mechanism shall be based on individual Bidders/OEMs solution. Please check Network Diagram for Fiber length, OLA shall be considered based on individual OEMs solution. Zonal shared bandwidth will be 200 G, ring bandwidth shall be more than 50 G considering 4 nodes in one zonal ring, and it shall support both the functionality of L1 - OTN and L2 - Ethernet.
77		3.1 Functional Requirement	12	The bidder solution should make sure that each district is equipped with a dedicated capacity of at least 200G running across the two DCs in Vizag and Amaravathi.	Is the 200G capacity from the district to DC over and above the capacity of 400G between the district?	For District Headquarter shared bandwidth will be 400 G, Sharing mechanism shall be based on individual Bidders/OEMs solution. Please check Network Diagram for Fiber length, OLA shall be considered based on individual OEMs solution. Zonal shared bandwidth will be 200 G, ring bandwidth shall be more than 50 G considering 4 nodes in one zonal ring, and it shall support both the functionality of L1 - OTN and L2 - Ethernet.

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
78		3.1 Functional Requirement	12	The bidder solution should be built with WSON/ASON to provide the maximum protection for the services by making using of any of the available fibre paths to protect the traffic.	Is WSON/ASON centralized or distributed?	OEM/Bidder can provide optimize solution to full fill given requirement in the tender.
79		3.1 Functional Requirement	12	The bidder solution should be built with WSON/ASON to provide the maximum protection for the services by making using of any of the available fibre paths to protect the traffic.	Does the control plane require to support Layer-1 or Layer-0 or both?	OEM/Bidder can provide optimize solution to full fill given requirement in the tender.
80	3.Scope of Work	3.1	12	The bidder solution should be built with WSON/ASON to provide the maximum protection for the services by making using of any of the available fibre paths to protect the traffic.	As there are only two paths between district to District or Zonal to Zonal so no use of WASON ,so we recommend ODUk,Och or OMS protection based DWDM network. If WASON is required then specify ROADM & FOADM structure (Colorless/Directionless) and ASON type(Optical or Electrical) , please also specify every site's type (ROADM or FOADM). Please specify which service traffic needs ASON protection.	OEM/Bidder can provide optimize solution to full fill given requirement in the tender.
81	3.Scope of Work	3.1	12	The bidder solution should make sure that at least 400G of OTN capacity is factored in for any district to any district communication in the state ring and there should be possibility to make use of the same for the inter zonal OTN traffic across districts. The bidder solution should have at least 200G of OTN capacity for any zonal to any zonal communication within one zonal ring with at least two alternate paths from each zonal to adjacent zonal rings of other districts	Please provide below clarity 1. As per understanding max.bit rate 200Gbit/s is required at line for district to any district communication. 2.As per understanding max.bit rate 100Gbit/s is required at line for district to any district communication. 3.Please provide service matrix to understand the service type and level.	For District Headquarter shared bandwidth will be 400 G, Sharing mechanism shall be based on individual Bidders/OEMs solution. Zonal shared bandwidth will be 200 G, ring bandwidth shall be more than 50 G considering 4 nodes in one zonal ring, and it shall support both the functionality of L1 - OTN and L2 - Ethernet.
82	3.Scope of Work	3.1	12	The bidder solution should have inline OTDR functionality in every node with integration with the fault management functionalities of node	Please confirm OTDR functionality is required one pair(Tx&Rx) fiber or one fiber(Tx).	Based on individual OEMs Equipments/Solution, OTDR functionality is required for all the links in the network.
83	3.1	Functional Requirement.	13	The bidder should provide comprehensive network and services design and the necessary tools for planning and managing the services in the network and to monitor the service quality also	We understand that 01 Nos DWDM/Layer-1 OTN Network Planning tool Should be provided as a part of the RFP requirement . Request APSFL to kindly confirm	Yes
84	3	Scope of Work	13	The bidder solution should make sure that at OEM deploys 1 Network planner and 3 Network engineers during maintenance and support period at APSFL premises for handling all the updates and changes in the network.	Our understanding is that OEM engineers shall be supporting the APSFL operations (O&M) team from NOC at DC for carrying out any firmware updates and network changes. However APSFL shall carry out day to day Operations (O&M) on the network like service configuration, day to day network hygiene, network monitoring, day to day alarm management etc	OEM resources shall be deployed during maintenance and support period at APSFL premises for handling all the updates and changes in the network
85	3	Scope of Work	13	The bidder solution should make sure that at OEM deploys 1 Network planner and 3 Network engineers during maintenance and support period at APSFL premises for handling all the updates and changes in the network.	Kindly clarify wether OEM engineers are required to work dedicatedly from NOC for complete 5 years or required to be in NOC on need basis	OEM resources shall be deployed during maintenance and support period at APSFL premises for handling all the updates and changes in the network
86	3	Scope of Work	13	The bidder should provide comprehensive network and services design and the necessary tools for planning and managing the services in the network and to monitor the service quality also.	1) Kindly calrify in detail the purpose of such tools. 2) OEM EMS/NMS is capable for managing the services in the network and to monitor the service quality. We anticipate the same can fulfill this requirement of APSFL, kidly confirm	All the Required functions those are necessary to check Network quality and other operational parameters should be in built in the NMS from day 1.
87	3.2.1	Generic Requirements(Cl no.8)	14		Requirement of Inline monitoring can be skipped, as it has already been covered under the scope of APSFL Fibre tender.	As per RFP
88	3.2	Technical Requirements/3 .2.1 General Requirements// 4	14	The equipment should implement synchronous multiplexing at ODUk/VC level and Ethernet synchronous.	We understand the Bidder needs to be quote OTN based DXC solution which can carry any type of client traffic ODU/OTU, SDH/VC & Ethernet over OTN technology using ODUk cross connect. Request APSFL to confirm if above understanding is correct.	Unified cross connect architecture should have ODUk and packet corss connect with support of multi-services carrier of maximum bandwidth efficiency.
89	3.2	Technical Requirements/3 .2.1 General Requirements// 10	14	The supplier shall provide common parts of the chassis are redundant i.e. power supply redundancy, switch fabric redundancy (if any), shelf-controller redundancy and hitless switchover and hitless forwarding.	We understand that these requirements are for add/drop nodes but for LA/OLA sites propose box shall have power redundancy but controller redundancy is optional. Request APSFL to confirm.	It is clarified controller cards for all type of nodes shall be in redundant mode, i.e. if one hardware fails it can switch on to other immediately.
90	3.2.1	22	14	The 100G line card shall support any mixture of ODUk (K=0,1,2,e,3,4) granular multiplexing into ODU4.	For Zonal network since the traffic is limited, we suggest to use a smaller OTN solution like OTN on a blade which can sit in DWDM platform itself and provide 400G XC capacity. It can support ODU2 and ODU4 switching. This will be a more cost effective solution in terms of Capex and Opex	Unified cross connect architecture should have ODUk and packet corss connect with support of multi-services carrier of maximum bandwidth efficiency.
91	3	3.2.1	14	2. Proposed Network shall be scalable as per future requirement at Core Layer (DHQ to NOC DC&DR).	Please clarify the scalability needed at core layer in terms of traffic increase per year. We understand that proposed network should be based on Flexi Grid ROADM/WSS and Flexi Grid Coheret Amplifiers, since in order to scale the per channel bandwidth from 100G to 200G or from 200G to 400G, a flexible ROADM is required which can understand the adjust the spectrum width in intervals of 12.5GHz to accommodate the higher bitrate channels like 200G, 400G and 600G. This is necessary to make the network scalable. Please confirm	As per RFP
92	General Requirements	3.2.1.5	14	The NMS of the equipment should be web based and must support OTN, DWDM transmission equipment.	It is understood from the web based that need to install Local craft in the Machine (Laptop/Desktop) so that NE (Network Element) can be access locally and user can do the fault monitoring and other site/node basics work based on the previlage provided to him from the central NOC/NMS.	As per RFP
93	APSFL/OLA/284-2/2018	2(Introduction)	14	The solution shall support 400g transmissions over G.652, G.653 and G.655 LEAF fibre.	Please clarify whether 400G transmission support mean one channel of 400G line capacity or cumulative transmission capacity of 400G with 4x100G /2x200G	As per RFP
94	APSFL/OLA/284-2/2018	2(Introduction)	14	100G Span Budget - The system shall be able to support mixed operation of 10G/100G line rates sharing the same mux/de-mux hardware as well as be upgradeable in service (without traffic interruption) to carry 100 Gbit/s channels	100G system is coherent system which is DCM free. If we need 10G line rate on the same fiber we need to add additional DCM in optical layer which is service affecting .	As per RFP
95	3.2.1	Generic Requirements(Cl no.8)	14		Requirement of Inline monitoring can be skipped, as it has already been covered under the scope of APSFL Fibre tender.	As per RFP

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
96	3.2	3.2.1 (Pt No 17)	14	The solution shall support 400g transmissions over G.652, G.653 and G.655 LEAF fibre.	We understood that 400G transmission can be supported with 2 carriers also, kindly confirm.	As per RFP
97	3.2	3.2.1 (Pt No 20)	14	100G Span Budget - The system shall be able to support mixed operation of 10G/100G line rates sharing the same mux/de-mux hardware as well as be upgradeable in service (without traffic interruption) to carry 100 Gbit/s channels.	We recommend to separate 10/100G channels as combine operation reduce the reach of 100G channels. Instead of running a separate wavelenth for 10G we recommend to use Muxponder solution for 10G traffic. Kindly ammend the clause accordingly.	The offered DWDM/OTN network shall be based on OTN structure with separate client side board and DWDM/OTN side board, connecting through centralized electrical layer switch.
98	3.2	3.2.1 (Pt No 21)	14	The offered equipment shall support other service, such as STM-1/4/16, GE/FE, FC, FICON, ESCON, FDDI, SDI accessed by one tributary card, multiplexed into OTU2 / OTU4. The offered system shall support any-rate services such as STM64/OTU-2/10GbE, STM-1/4/16, GE/FE, FC, FICON, ESCON, FDDI, multiplexed into one OTU 2 / OTU4 channel.	No of Client ports for different traffic rate per Back bone node & per zonal node are required for finalizing the solution. Kindly share the same.	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR
99	3.2	3.2.1	14	The supplier equipment shall provide indications on each individual module to indicate a failure of the module. The equipment shall also have an alarm display showing at least major and minor summary alarms.	Alarm count can be displayed at NMS. Please change it to Indication, not the count.	As per RFP
100	3.2	3.2.1	14	The solution shall support 400g transmissions over G.652, G.653 and G.655 LEAF fibre.	Please confirm following : 1.what type of Fiber APSFL has in its network 2. what does 400g transmission means. Does it refer to 400G line rate or 400 Line capacity? 400G line is not a mature technology and supported by only 1-2 OEMs in the industry. If its 400G line then it should be amended to 200G/100G line.	For District Headquarter shared bandwidth will be 400 G, Sharing mechanism shall be based on individual Bidders/OEMs solution. Please check Network Diagram for Fiber length, OLA shall be considered based on individual OEMs solution. Zonal shared bandwidth will be 200 G, ring bandwidth shall be more than 50 G considering 4 nodes in one zonal ring, and it shall support both the functionality of L1 - OTN and L2 - Ethernet.
101		3.2.1 General Requirements	14	4. The equipment should implement synchronous multiplexing at ODUk/VC level and Ethernet synchronous.	What is meant by synchronous multiplexing at Ethernet synchronous.	As per RFP
102		3.2.1 General Requirements	14	7. Wavelength Grid and DWDM/OTN system should be as defined in ITU-T recommendation G.694.1, G.694.2.	G.694.1 defines both fixed grid and flex grid with channel spacings of 12.5 GHz, does the equipment needs to support flex grid?	As per RFP
103		3.2.1 General Requirements	14	11. Network shall support insertion, replacement and removal of modules whilst the equipment is powered up without affecting traffic and / or damaging any module.	Does it mean that removal of an optical module or transponder/muxponder or other optical card should not disturb the traffic	As per RFP
104		3.2.1 General Requirements	14	12. Equipment shall be based on modular chassis architectures, any service cards in any slots.	Does it mean that transponder/muxponder can be plugged into control card slot or cross connect card slot and vice versa?	As per RFP
105		3.2.1 General Requirements	14	15. The line interfaces should support the tuning of the carrier frequency or pluggable optical module on all the working channels defined in ITU-T Recommendation G.694.1.	Does it require tuning at central frequencies for spacings of 12.5 GHz, i.e. 1530.0413nm, 1530.1389nm, 1530.2365nm, etc.?	As per RFP
106		3.2.1 General Requirements	14	17. The solution shall support 400g transmissions over G.652, G.653 and G.655 LEAF fibre.	Does it mean that the equipment needs to support 400G over a single DWDM wavelenth?	As per RFP
107		3.2.1 General Requirements	14	21. The offered equipment shall support other service, such as STM-1/4/16, GE/FE, FC, FICON, ESCON, FDDI, SDI accessed by one tributary card, multiplexed into OTU2 / OTU4. The offered system shall support any-rate services such as STM64/OTU-2/10GbE, STM-1/4/16, GE/FE, FC, FICON, ESCON, FDDI, multiplexed into one OTU 2 / OTU4 channel.	How many client interface port of what data type is required per district node?	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR
108		3.2.1 General Requirements	14	21. The offered equipment shall support other service, such as STM-1/4/16, GE/FE, FC, FICON, ESCON, FDDI, SDI accessed by one tributary card, multiplexed into OTU2 / OTU4. The offered system shall support any-rate services such as STM64/OTU-2/10GbE, STM-1/4/16, GE/FE, FC, FICON, ESCON, FDDI, multiplexed into one OTU 2 / OTU4 channel.	How many client interface port of what data type is required per zonal node?	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR
109	3.2.2	Grooming/Switching Requirements/5	15	Solution shall support STM-1, STM-4, STM-16, STM-64 ports should be structured in VC-4 based on ITU-T G.707 recommendation.	We understand that the OTN DXC shall support client traffic as STM1/4/16/64 and map it over ODUk XC over OTN Line to carry to other destination district/Zonal nodes. Request APFSL to confirm if above understanding is correct.	As per RFP

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
110	3.2.1	26	15	The network shall support the clock transparency to Synchronous Ethernet PHY (SyncE) GE interfaces.	For zonal nodes, since the packet grooming is already done at the IP layer, can the requirement be relaxed and we can propose an OTN only solution ?	As per RFP
111		27	15	The equipment shall also support the Ethernet service L2 aggregation of FE/GE/10GE/100GE, and then mapped into ODUK(k=0,1,2,3,4,flex) to save the bandwidth	For zonal nodes, since the packet grooming is already done at the IP layer, can the requirement be relaxed and we can propose an OTN only solution ?	As per RFP
112	3.2.2	3	15	ODU 0,1,2,3,4,flex support	For Zonal network since the traffic is limited, we suggest to use a smaller OTN solution like OTN on a blade which can sit in DWDM platform itself and provide 400G XC capacity. It can support ODU2 and ODU4 switching. This will be a more cost effective solution in terms of Capex and Opex	As per RFP
113	3.2.2	5	15	VC4 support for SDH clients	For District nodes, the SDH clients shall be aggregated to ODU0/ODU1/2/3/4, and switching will be at ODUk level. Can the VC4 switching be relaxed ?	As per RFP
114	3.2.2	5	15	VC4 support for SDH clients	For Zonal nodes, are there any specific TDM requirements concerning VC4 ? We suggest to keep all STM services clearchannel at the zonal level	As per RFP
115	3.2.3	All	15	L2 support on OTN switch	For zonal nodes, the packet aggregation is happening at the zonal routers already and they are rich enough to provide all L2 services. Can this section be relaxed for zonal OTN switch ?	As per RFP
116	3.2.5	All	15	L2 support on OTN switch	For zonal nodes, the packet aggregation is happening at the zonal routers already and they are rich enough to provide all L2 services. Can this section be relaxed for zonal OTN switch ?	As per RFP
117	3	3.2.3	15	3. The equipment should comply to CE2.0 for E-LAN (E-LAN and EVP-LAN).	Please clarify in which applications these features are needed.	As per RFP
118	3	3.2.3	15	6. A Port can be configured to support service multiplexing (VLAN based). Precise the segregation fields (E.g. @C-VLAN, S-VLAN...).	Please clarify in which applications these features are needed.	As per RFP
119	3	3.2.3	15	7. EVPL service shall support C-VLAN ID preservation/translation.	Please clarify in which applications these features are needed.	As per RFP
120	3	3.2.3	15	8. The equipment must support flexible VLAN tag handling (inner/outer pop, push, swap, pop-swap, push-swap, swap-swap)	Please clarify in which applications these features are needed.	As per RFP
121	3	3.2.3	15	9. Multicast service with IGMP Snooping v3 should be supported.	Please clarify in which applications these features are needed.	As per RFP
122	3	3.2.3	15	10. The supplier shall detail end to end QOS for L2 switch including CAR, COS, 802.1q tag-based traffic	Please clarify in which applications these features are needed.	As per RFP
123	3	3.2.3	15	11. The equipment shall support the Ethernet service aggregation from GE to 10GE/100GE, 10GE, 100GE.	Please clarify in which applications these features are needed.	As per RFP
124	3	3.2.3	15	15. The equipment shall support mapping packet frames, VCs and other service carried by OTN to different sub-wavelength in one lambda.	Please clarify in which applications these features are needed.	As per RFP
125	3.2	3.2.1	15	The network shall support the clock transparency to Synchronous Ethernet PHY (SyncE) GE interfaces	APSFPL is envisaging the network as OTN network and OTN networks are transparent to the clock. OTN frames lock the clock which is present in the payload. So, this clause should be removed.	As per RFP
126		3.2.2 Grooming/Switching Requirements	15	3. The sub-wavelength cross connect fabric shall be based on ODUK(k=0,1,2,flex).	It should be possible to create/process minimum how many ODUK circuitry per node?	As per RFP
127		3.2.2 Grooming/Switching Requirements	15	6. Equipment shall support STM-64 interfaces with ITU-T G.691 recommendation.	The STM-64 interface should support what distance and wavelength?	As per RFP
128		3.2.2 Grooming/Switching Requirements	15	9. Solution shall support STM-1/4 optical ports configurable with removable SFP modules based on ITU-T G.957 recommendation.	The STM-1/4 SFP should support what distance and wavelength?	As per RFP
129		3.2.2 Grooming/Switching Requirements	15	10. Solution shall support STM-16 optical ports with SFP modules based on ITU-T G.957 recommendation	The STM-16 SFP should support what distance and wavelength?	As per RFP
130	3.2.6	Switching Fabric Requirements	16		OTN cross connect on the card with a distributed Cross Connect architecture shall also be acceptable. Please confirm	As per RFP
131	3.2.4	Protection Requirements// 8	16	The equipment shall support WSON / ASON from day one with all required software and hardware	We understand that OTN DXC solution is required on both District rings and zonal rings so Layer #1 Control plane based ASON functionality is required from day#1 & accordingly directional Photonics system needs to be quoted by Bidder. Request APSFL to confirm if above understanding is correct	Equipment shall support either WSON or Electrical ASON. WSON or Electrical ASON configuration for complete network (District and Zonal ring) shall be provisioned from day 1. If Electrical ASON is used in the network in that case optical level OTN switching is not required for that directionless & Colorless solution can be optional. If optical ASON is used in the network then it has to support directionless and colorless configuration.
132	3.2.6	Switching Fabric Requirements// 1	16	The equipment will be equipped with one centralized fabric that performs connections at ODUK(=0, 1, 2, 3, 4, flex) level.	We understand that OTN DXC solution is required on both District rings and zonal rings shall support centralized fabric at ODUK (=1,2,4,4 flex) Request APSFL to confirm if above understanding is correct	As per RFP
133	3.2.6	Switching Fabric Requirements	16	The switching capacity currently available should not be less than 3T in the backbone network.	We Understand that the 3T OTN DXC need to be planned for the entire network. i.e. Zonal and DHQ. Request APSFL to kindly Confirm.	Based on the Current & future expansions and keeping network secure (from service affecting outages and disturbing the operational network) clause is modified as switching capacity should not be less than 5T in the backbone network.
134	3.2.4	8	16	WSON/ASON support	For Zonal nodes, we have maximum 2 paths per circuit. Having WSON/ASON control plane here would be an expensive proposition. Can the same be relaxed for zonal nodes ?	As per RFP
135	3.2.6	All	16	Switch capacity	For zonal nodes, our recommendation is to use OTN on a blade rather than a space and power guzzling OTN box. The OTN on a blade can provide ODU2 and ODU4 switching for the traffic from the router and provide 400G XC capacity per card.	As per RFP

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
136	3.2.8	All	16	WSON/ASON support	For Zonal nodes, we have maximum 2 paths per circuit. Having WSON/ASON control plane here would be an expensive proposition. Request you to consider having restoration on IP / Optical. We can effectively restore more than 4 paths on IP .	Either WSON or Electrical ASON
137	3	3.2.5	16	1. The solution shall support LAG (Link Aggregation Group) which can protect port with LACP (Link Aggregation Control Protocol) applied for.	Please clarify in which applications these features are needed.	As per RFP
138	3	3.2.5	16	7. LSP and PW protection must be provided.	Please clarify in which applications these features are needed.	As per RFP
139	Protection Requirements	3.2.4	16	The equipment shall support WSON / ASON from day one with all required software and hardware	It is understood from the clause that Equipment shall support either WSON or Electrical ASON for District Headquarter ring only, Electrical ASON configuration shall be done from day 1 and supply shall be done accordingly.	Equipment shall support either WSON or Electrical ASON. WSON or Electrical ASON configuration for complete network (District and Zonal ring) shall be provisioned from day 1.
140	Switching Fabric Requirements	3.2.6.1	16	The equipment will be equipped with one centralized fabric that performs connections at ODUk(=0, 1, 2, 3, 4, flex) level.	From the clause it is understood that unified XC architecture should have ODUk, VC and packet, and support 10G/100G Universal line card for multi-services carrier of maximum bandwidth efficiency.	As per RFP
141	APSFL/OLA/284-2/2018	2(Introduction)	16	The switching capacity currently available should not be less than 3T in the backbone network	Please clarify whether we need to propose same box with 3T switching capacity at district and Zonal locations	Based on the Current & future expansions and keeping network secure (from service affecting outages and disturbing the operational network) clause is modified as switching capacity should not be less than 5T in the backbone network.
142	3.2.6	Switching Fabric Requirements	16		OTN cross connect on the card with a distributed Cross Connect architecture shall also be acceptable. Please confirm	As per RFP
143		3.2.6 Switching Fabric Requirements	16	1. The equipment will be equipped with one centralized fabric that performs connections at ODUk(=0, 1, 2, 3, 4, flex) level.	Does 'one' means one fabric card?	As per RFP
144		3.2.6 Switching Fabric Requirements	16	6. The switching capacity currently available should not be less than 3T in the backbone network.	What is currently available means?	Refer Corregendum
145		3.2.6 Switching Fabric Requirements	16	6. The switching capacity currently available should not be less than 3T in the backbone network.	Is there other network other than backbone network where the switching capacity can be less than 3T?	Refer Corregendum
146	3.Scope of Work	3.2.6	16	The switching capacity currently available should not be less than 3T in the backbone network	As 400G of OTN capacity factored in for any district to any district communication so maximum 7 wavelengths can use at line side. If two direction east and west direction is required then maximum 4 wavelengths can use at one direction. So we recommend switching capacity at least 4Tbit/s so that 5 wavelengths could be used at each direction and maximum utilization of switching capacity.	Refer Corregendum
147	3.2.6	Switching Fabric Requirements// 10	17	The Och switching should support Directionless and Colour less configuration and the vendor should depict the configuration with schematic diagram.	We understand that the requirement is of OTN DXC based switching platform at District and Zonal sites as per clause no 3.2.6, So Layer#1 control plane based ASON network would perform protection and restoration of traffic to handle multi path fiber failure in the network to keep the high uptime. Since Och switching/restoration is not required here, so directional Photonics system is right configuration for Layer#1 Control Plane network. Also directionless is not scalable solution, however Bidders needs to quote platform which can support OCH restoration as well with additional hardware incase if requires. Suggest APSFL to make the ROADM configuration as Directional & Colored configuration.	Equipment shall support either WSON or Electrical ASON. WSON or Electrical ASON configuration for complete network (District and Zonal ring) shall be provisioned from day 1. If Electrical ASON is used in the network in that case optical level OTN switching is not required for that directionless & Colorless solution can be optional. If optical ASON is used in the network than it has to support directionless and colorless configuration.
148	3.2.7	Synchronization Requirements	17	3. The equipment shall support at least two 2MHz interface for external synchronization input and output in conformity with G.703 and G.704 recommendations. 4. The equipment shall support at least two 2Mbit/s interface for external synchronization input and output in conformity with G.703 and G.704 recommendations. The equipment shall support at least two inputs & outputs interfaces for IEEE 1588V2, please indicate the detail of time synchronization including electrical specification, networking, etc.	OTN is Asynchronous transmission technology so don't require external Sync, Sync is required when we are using SDH system which are obsolete now, however bidder nodes to quote platform which shall support external sync 2 MHz , 2 Mbps and 1588 V2 as well incase if require. Request APSFL to confirm if above understanding is correct.	As per RFP
149	3.2.8	WSON/ASON Requirements	17	ASON/WSON should support the peer mode or overlay mode.	We understand the requirement is of OTN DXC based switching platform at District and Zonal sites so Layer#1 control plane based ASON network would responsible for protection and restoration of traffic to handle multi path fiber failure in the network. So WSON feature is not required on day#1 however offered equipment shall support this feature. Request APSFL to kindly confirm if above understanding is correct.	Equipment shall support either WSON or Electrical ASON. WSON or Electrical ASON configuration for complete network (District and Zonal ring) shall be provisioned from day 1. If Electrical ASON is used in the network in that case optical level OTN switching is not required for that directionless & Colorless solution can be optional. If optical ASON is used in the network than it has to support directionless and colorless configuration.
150	3.2.8	WSON/ASON Requirements	17	ASON/WSON should support the 96ch system	96 channels of 100G is equivalent of 9.6 Tbps capacity so Bidder needs to quote DWDM system with minimum End of life capacity of 9.6 Tbps with minimum 100G DWDM Line rate or higher in District/Core rings. If Bidders are quoting higher DWDM Line rate than End of life capacity should be equal or more than 9.6 Tbps accordingly DWDM system shall be quoted. In Zonal network since the requirement is carry 4-5 Zonal nodes only so bidder needs to quotes DWDM line rate of 100G only. Request APSFL to kindly confirm if above understanding is correct.	Refer Corregendum

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
151	3.2.8	WSON/ASON Requirements	17	The ODUK electrical-layer ASON/Optical layer WSON supports different kind of services so that Purchaser can get 99.999% network availability till fiber path is available/5	We understand Layer#1 control plane that is based on ODUK ASON is required on day#1. However the offered equipment shall also support the feature of WSON which can be implemented if required. Request APSFL to kindly confirm if this understanding is correct.	As per RFP
152	3	3.2.6	17	7. The equipment shall provide an OCh switching fabric.	We understand that clause is talking about Flexi Grid WSS/ROADM here. We suggest that minimum requirement is of 4 Degree Flexi Grid ROADM at each node with at least 1 spare degree in the ROADM Module for future expansion. At nodes having more than 4 degrees, a 9 Degree Flexi Grid module should be provided. Please confirm.	As per RFP
153	3	3.2.6	17	8. The OCh switching fabric should be strictly non-blocking for all implemented types of cross- connections.	We understand that clause is talking about Flexi Grid WSS/ROADM here. Please confirm.	As per RFP
154	3	3.2.6	17	9. The OCh switching fabric should be able to make cross connections driven by EMS/NMS, control plane and resilient mechanisms.	We understand that clause is talking about Flexi Grid WSS/ROADM here. Please confirm.	As per RFP
155	3	3.2.6	17	10. The OCh switching should support Directionless and Colour less configuration and the vendor should depict the configuration with schematic diagram.	We understand that the bidder's solution should support the colorless directionless configuration. However, the bidder is allowed to design the solution in any way as long as the network meets the requirements laid out in this RFP. Please confirm.	As per RFP
156	3	3.2.8	17	1. ASON/WSO should support the peer mode or overlay mode.	Please explain the peer mode and overlay mode and the application in which this will be used.	As per RFP
157	3	3.2.8	17	2. ASON/WSO should support the 96ch system.	We understand the requirement is of 96 channels of 100G or 96 channels of 200G or 96 channel combination of 100G and 200G. Also, the network can not be planned with ASON or WSON as of now, Traffic matrix is needed for planning the network with ASON or WSON. We suggest APSFL to provide the interface count to design the BoQ. Please confirm	Refer Corregendum
158	3	3.2.8	17	3. ASON/GMPLS should support the E-NNI.	Please elaborate the requirement of E-NNI application	As per RFP
159	Network Management Requirements	3.2.9.3	17	The NMS solution should be a web based application which should be scalable to support at least 500 DWDM and OTN network elements. The bidder has to factor in all the hardware and licensing costs associated for supporting the same.	Request to clarify, to support at least 500 DWDM and OTN network elements, NMS can be installed locally at any client side.	As per RFP
160	Switching Fabric Requirements	3.2.6.7 3.2.6.8 3.2.6.9 3.2.6.10	17	The equipment shall provide an OCh switching fabric. The OCh switching fabric should be strictly non-blocking for all implemented types of cross-connections. The OCh switching fabric should be able to make cross connections driven by EMS/NMS, control plane and resilient mechanisms. The OCh switching should support Directionless and Colour less configuration and the vendor should depict the configuration with schematic diagram.	Please clarify if Electrical ASON is used in the network in that case optical level OTN switching is not required in that case directionless & Colorless is not recommended solution so it is suggested to supply as directional & colored configuration.	Equipment shall support either WSON or Electrical ASON. WSON or Electrical ASON configuration for complete network (District and Zonal ring) shall be provisioned from day 1. If Electrical ASON is used in the network in that case optical level OTN switching is not required for that directionless & Colorless solution can be optional. If optical ASON is used in the network than it has to support directionless and colorless configuration.
161	3.2.9	Technical Requirements	17	The proposed NMS should have open integration interfaces on both southbound and northbound to integrate with external OSS/BSS and other provisioning systems. REST API is the bare minimum integration that should be supported	We understand that the proposed solution by the bidder/OEM shall support standard Southbound and northbound interfaces, however current RFP do not require the bidder to carry out the integration with 3rd party NMS / OSS / BSS. Any such integration shall be done by the 3rd party NMS / OSS / BSS vendor	As per RFP
162	APSFL/OLA/284-2/2018	2(Introduction)	17	The OCh switching should support Directionless and Colour less configuration and the vendor should depict the configuration with schematic diagram	In case bidder propose layer -1 ASON there is no need of Directionless and Color less configuration at optical layer. Please clarify whether we can propose directional configuration	Equipment shall support either WSON or Electrical ASON. WSON or Electrical ASON configuration for complete network (District and Zonal ring) shall be provisioned from day 1. If Electrical ASON is used in the network in that case optical level OTN switching is not required for that directionless & Colorless solution can be optional. If optical ASON is used in the network than it has to support directionless and colorless configuration.
163	APSFL/OLA/284-2/2018	2(Introduction)	17	ASON/WSO should support the 96ch system	Please clarify in case bidder propose 200G solution what shall be the minimum number of optical channels system shall support	Refer Corregendum
164	3.2	3.2.6 (Pt No 10)	17	The OCh switching should support Directionless and Colour less configuration and the vendor should depict the configuration with schematic diagram.	This clause is mentioning Colourless & Directionless configuration. Does this mean that bidder has to provide Colourless & Directionless DWDM architecture, please confirm.	Equipment shall support either WSON or Electrical ASON. WSON or Electrical ASON configuration for complete network (District and Zonal ring) shall be provisioned from day 1. If Electrical ASON is used in the network in that case optical level OTN switching is not required for that directionless & Colorless solution can be optional. If optical ASON is used in the network than it has to support directionless and colorless configuration.
165	3.2	3.2.6	17	The equipment shall provide an OCh switching fabric.	In OTN, generally switching happens in switching fabric at ODU level. Please amend the clause accordingly or confirm what does OCh switching fabric means?	As per RFP
166	3.2	3.2.8	17	ASON/WSO should support the 96ch system	There are very few OEMs in the DWDM industry who supports 96ch systems. Majority of OEMs support 80ch systems. So, this clause should be amended to support 80ch or 96ch system for maximum participation.	Refer Corregendum
167		3.2.8 WSON/ASON Requirements	17	1. ASON/WSO should support the peer mode or overlay mode.	Is Multi-Region and Multi-Layer Networks (MRN/MLN) (RFC-5212) acceptable instead of peer or overlay model which is more suitable?	As per RFP

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
168	3.3	Interface Requirements	18		Please specify the interfaces to be supported at each node & how many in numbers. This will help us to quote appropriate cards.	As per RFP
169	3	3.3.3	18	• ITU-T G.709 OTUC2	We understand that this clause is talking about OTUC2, 200G channel. To support the 200G channel, the WSS/ROADM should be flexgrid capable. Hence we understand that all the WSS/ROADM to be offered in the bid should be flexi grid capable. Please confirm	As per RFP
170	3.3	Interface Requirements	18		The number of cards depend on the interfaces to be supported at each node & how many in numbers. This will help us to quote appropriate cards.	As per RFP
171		4. Pre-Qualification Criteria	19	The Bidder / Consortium should have Cumulative Annual Turnover of INR 100 Crores and above in last Three audited financial years. In case of Consortium the prime bidder should contribute at least 50% of the turnover.	Referring to OLA RFP floted by APSFL for the similar technology with lesser project value compared to this RFP, the department has asked for the IT Turnover in the OLA RFP , which was not asked in this Rfp. With this present clause of annual turnover, any Non IT Company who does not have any experience in the Technology also can bid. As the Scope of work of this tender is part of the AP FiberGrid core Network and its related IT Network services, we request the Department to ask for participation of similar experienced bidders with IT network related services and amend this criteria as follows: The Bidder/Consortium should have Average Annual Turnover of INR 100 Crores and above in the last Three audited financial years from activities relating to IT Systems Integration services / IT services / Network services / Telecom services in India. In case of Consortium the prime bidder should contribute at least 50% of the turnover.	As per RFP
172	4 Pre-Qualification Criteria S.No. 1	4	19	The Bidder/consortium members should be a Company registered in India under the Indian Companies Act. 1956/2013 or a Registered Partnership Firm or a Sole Proprietary Firm or LLP and should be in business for 3 FYs by the time of submission of the Bid. • Foreign companies can be a consortium member provided they are manufacturer/OEM of the products being supplied.	We would request your confirmation whether a Foreign OEMs can form consortium with their local Indian subsidiary.	clause is clear
173	4 Pre-Qualification Criteria S.No. 2	4	19	The Bidder/ any consortium member should have at least 3 Financial Years of existence in manufacturing or supply of Equipment or similar products as on date of submission of RFP.	We request APSFL to add this point under the heading "Documentary Proof to be Submitted" namely: • In Case of bidder being wholly owned subsidiary of Foreign Manufacturer/OEM/ Parent Company, the credentials of Parent company can be taken into consideration	Refer Corregendum
174	4 Pre-Qualification Criteria S.No. 4	4	19	Bidder / Consortium (all partners) should have positive net worth for the last 2 audited financial years.	We request APSFL to add this point under the heading "Documentary Proof to be Submitted" namely: • In Case of bidder being wholly owned subsidiary of Foreign Manufacturer/OEM/ Parent Company, the financial credentials of Parent company can be taken into consideration	Refer Corregendum
175	4	Pre-Qualification Criteria	20	OEM should have experience in at least 5 similar service provider projects involving at least 100 DWDM/OTN node deployments	We understand that the OEM should have an experience in at least 5 similar Service Provider projects in India involving at least 100 Nos OTN-DXC ROADM enabled DWDM system which exudes ILA/OLA system. Request APSFL to kindly Confirm.	As per RFP
176	4	4	20	Pre-Qualification Criteria	We Strongly feel that the OEM & its Indian company should be a major industrial player with sound financials in last 3 years in order to provide top class support with best quality & resources . So kindly add that the OEM & its Indian group company should have positive net worth in last 3 financial years	yes
177	4	4	20	Pre-Qualification Criteria	We Strongly feel that the OEM & its Indian company should be a major industrial player with sound financials in last 3 years in order to provide top class support with best quality & resources . So kindly add that the turnover for OEM & its Indian group company should be more than INR 5000 cr in last 3 financial years	yes
178	4	4	20	Pre-Qualification Criteria	We understand these project should be handled by OEM who have experience in India for handling such projects ,So kindly add that the OEM should have presence in India for more than 15 Years	yes
179	4	2. Pre-Qualification Criteria	20	The Bidder/ any consortium member should have at least 3 Financial Years of existence in manufacturing or supply of Equipment or similar products as on date of submission of RFP.	Please clarify for Supply of equipment's , PO's are required for each years in last 3 years or any single PO in last 3 years	As per RFP
180	4 Pre-Qualification Criteria S.No. 10	4	20	Existing service centres of OEM/ Authorized Distributors or Dealers in Andhra Pradesh	We request APSFL to modify: Existing service centres of OEM/ Authorized Distributors or Dealers in India	Yes
181	5	5.5	21	OEM should have experience of supplying, commissioning and providing support services for at least 100 Nos. DWDM nodes in last 3 years.	We request you to kindly consider following for wider participation - "OEM should have experience of supplying, commissioning and providing support services for at least 100 Nos. DWDM nodes in last 5 years"	Refer Corregendum
182	5	5.5	21	OEM should have experience of supplying, commissioning and providing support services for at least 100 Nos. DWDM nodes in last 3 years. >100 Nos & <150 Nos 5 >150 Nos & <200 Nos 10 >200 Nos 15	We request to amend technical bid evaluation criteria of section 5.5 as follows - >=50 nos <=100 nos - 5 marks >=100 nos <=150 nos - 10 marks >=150 nos <=200 nos - 15 marks	As per RFP

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
183		5. Technical Bid Evaluation	21	Request For Additional Clause: in Technical Bid Evaluation	Hence, to have similar experienced bidders who can provide qualitative network to the prestigious AP FiberGrid project, we request the Department to incorporate the following experience criteria in the Pre-Qualification and Technical Bid Evaluation of the tender as: "The bidder/ consortium shall have experience of supplying, commissioning and providing support services for at least 50 Nos. of DWDM nodes in last 3 FYs in India" and thus add this clause in technical marking system too.	As per RFP
184		5. Technical Bid Evaluation	21	SI No 1 - Cumulative Annual Turnover in last Three audited financial years. (FY 15-16, FY 16-17 & FY 17-18)	To have strong bidders with similar Network related services against this RFP, we request the Department to amend this clause and ask for the Annual Turnover as follows in the Technical Bid Evaluation and allocate the Marks accordingly. "Average Annual Turnover of the Bidder from IT Systems Integration services / IT services / Network services / Telecom services in last Three audited financial years. (FY 15-16, FY 16-17 & FY 17-18)"	As per RFP
185	7. Instructions to the Bidder	7.8 Tender Validity	24	The offer submitted by the Bidders should be valid for a minimum period of 180 days from the date of opening of the Tender. The Contract will be valid for 5 year from the date of signing of the contract or agreement/date of release of the first Purchase order. However, APSFL reserves the right to extend or short close the Tender validity period if situation warrants to benefit the Government.	We request to clarify that change in Tender vailty period (of 180 days) shall have no bearing on the Contract validity period (5 years from the date of signing of the contract or agreement/date of release of the first Purchase order)	Clause is clear
186	7. Instructions to the Bidder	7.10 Bid Prices	24	The Bidder shall indicate in the proforma prescribed, the unit rates and total Bid Prices for the equipment / services, it proposes to provide under the Contract. Prices should be shown separately for each item as detailed in this document. If during the course of execution of the project any minor revisions to the work requirements like technical specifications, equipment sizing, etc. are to be made to meet the goals of the Project; such changes shall be carried out within the proposed price. If any deviation has a major impact on the Project Cost, the Authority shall take appropriate decision and such decisions would be binding on the Bidder.	1) Please quantify the 'major impact on the Project Cost'. 2) We request to clarify that deviation if any is applicable only for product supply. 3) We request to cap the deviation, if any, in the project cost as 0.5% of the total Project cost over the period of the project. Subsequent to the cap, APSFL shall pay to bidder as per the quoted unit rates.	As bidder have to propose end-to-end solution it is bidder responsibility to carry out revisions within proposed prices
187	7. Instructions to the Bidder	7.19 Performance Bank Guarantee	25	Performance Bank Guarantee (PBG) for 10% of the Contract Value for the services to be performed under the resultant Agreement. The Performance Bank Guarantee shall be valid for the term of the resultant Agreement + 3 months and shall be renewed and maintained as necessary by the SI for the term of the resultant Agreement, and extensions if any.	We request you to split the PBG requirement in line with the other PSUs as: 1) Supply & Installation PBG: 5% of the PO value with the validity till "Project Go-live". PBG shall be released after submission of O&M PBG 2) O&M PBG: 5% of the quoted O&M value to be submitted at the time of start of warranty with the validity till completion of O&M period + 3 months	No change
188	7.24	Delivery Timelines	27	The Successful Bidder shall complete the deliver the work order within in 6 weeks	1) We assume that APSFL shall be assigning the central warehouse where all equipment under this RFP shall be delivered as per the timelines. 2) We propose all the deliveries shall be after the site survey report signed by APSFL after the LOA and we request APSFL to consider the delivery timelines to 10 weeks from the survey approved date	OEM/Bidder shall supply the amterial to APSFL state warehouse in 2 months after that delivery to Sites and deployment timeperiod shall be considered in the deployment phase.
189	7.24	Delivery Timelines	27	..... complete the implementation within 2 months after delivery. If the Successful Bidder fails to commence the assignment, the LOA may be, cancelled /terminated	1) We request APSFL ro clarify that 'Implementation' means as "successful delivery of equipment and it's Installation and Commissioning" 2) We understand that the proposed network deployment is going to be a green field deployment and there shall not be any integration or swap or migration involved with the existing network under this RFP 3) Further we assume that the OFC fiber, space and power is available with APSFL for the new network and there shall not be any dependency on the existing network for their availability. Any dependency of OFC Fiber, space and power may lead to delays in the Implementation and shall not be counted towards the bidder.	Yes Agreed.
190	7.24	Delivery Timelines	27	The Successful Bidder shall complete the deliver the work order within in 6 weeks and complete the implementation within 2 months after delivery. If the Successful Bidder fails to commence the assignment, the LOA may be, cancelled /terminated. However, in case of specific reasons for delay in supply beyond the periods specified herein the bidder should obtain specific written approval from APSFL citing the reasons. The decision of APSFL is final on the issue of extension of the delivery period.	We assume APSFL to issue the single Purchase order for the complete offering and take complete deliveries at one go	MSA itself consists of workorder/purchase order.
191	7.25	Delivery & Documents	27	Corresponding documentation shall be submitted to APSFL along with delivery.	Kindly clarify the "Corresponding Documentation"	Every document that are related to delivery like Delivery chalanos, Invoices.
192	7.25	Delivery & Documents	27	Successful bidder should maintain adequate spares to support at least 10% of equipment supplied as part of this RFP.	1) As per Product MTTR and MTBF the Spares of approx 1% shall be adequate for the maintenance of the network. 2) we request to clarify: 1% Spares need to be billed to APSFL to be maintained in APSFL warehouse	To maintain uptime of the network minimum 2% of spares needs to be incorporated in the proposal to maintain the network
193	7.29	Service Levels and Warranty & Maintenance	27	Comprehensive Onsite upfront warranty and Maintenance of Five years	We understand that under Comprehensive Onsite upfront warranty and Maintenance of Five years, APSFL shall carry out the site level field maintenance like replacement of faulty cards / OFC Fiber hygiene / Power & earthing maintenance etc	Equipment provided by Successful bidder under solution needs to be maintained by Bidder
194	7.29	Service Levels and Warranty & Maintenance	27	The warranty shall be counted from the date of Go-Live	As "Go-Live" is an important milestone, we request APSFL to clearly define "Go-Live". Our Suggestion is to define "Go-Live" as when the network is put on use for the traffic / commercial usage or the acceptance testing has been signed by APSFL, which ever is earlier	"Go-Live" as when the network is put on use for the traffic or acceptance testing has been signed by APSFL, which ever is earlier

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
195	7.29	Maintenance	27	Service Levels and Warranty & Maintenance: Bidder is required to provide the Comprehensive Onsite upfront warranty and Maintenance of Five years. The warranty shall be counted from the date of Go-Live. It is also required to properly maintain sufficient spare parts for all supplied equipment to meet the required SLA. The details of the work to be undertaken are as follows: • Diagnosis of the fault • Repairing of defective parts/components. • Replacement of parts/components beyond repair with parts/components of same or better specifications ensuring compatibility.	1) We assume the on site hardware replacement shall be carried out by the APSFL maintenance team under the guidance of the NOC team or OEM TAC experts 2) Faulty part shall be sent to OEM spare warehouse by APSFL and new part shall be replaced by OEM to APSFL central location 3) Kindly confirm the central location where the spare parts shall be replaced by OEM	Equipment provided by Successful bidder under solution needs to be maintained by Bidder
196	1	7. Instructions to the Bidder	27	7.24 Delivery Timelines -The Successful Bidder shall complete the deliver the work order within in 6 weeks	We request the Department to extend the delivery clause for atleast 8- 10 Weeks from the date of LOA. The OEM will take at least 4-6 weeks for delivery of the equipment as this equipment will be manufactured on back-to-back basis after receipt of our purchase order and copy of end customer PO by the OEM and it will take atleast 1 week for customs clearance and Logistics also. So, extension in delivery date of the equipment is needed.	No change
197	1	7. Instructions to the Bidder	27	7.25 Delivery & Documents - Successful bidder should maintain adequate spares to support at least 10% of equipment supplied as part of this RFP.	As per the Clause we understand that we have to maintain 10% of the spares like Cards for the equipment, please clarify and confirm the same.	To maintain uptime of the network minimum 2% of spares needs to be incorporated in the proposal to maintain the network
198	7.29	Service Levels and Warranty & Maintenance	28	TTR Time to Repaired SLA	1) Need clarification on Time to Repair (TTR), whether TTR includes both Technical Resolution & hardware Replacement or only technical resolution. 2) Hardware replacement SLA shall be excluded from the TTR calculations 3) Further TTR will be based on the network downtime supplied under this RFP	As per RFP
199	7.29	Service Levels and Warranty & Maintenance	28	Day wise Penalties for SLA non Adherence	We suggest Quarterly handshake on the SLA adherence instead of Each case based, kindly confirm	As per RFP
200	7. Instructions to the Bidder	7.30 Payment Terms	29	1. 80% of the work order value payable against successful supply, Go-Live & Acceptance from APSFL. Supporting Documents – Acceptance certificate duly signed by APSFL 2. 20% of the total value will be given after 6 months from date of Go-Live and upon satisfactory certification from APSFL. Supporting Documents – Satisfactory certificate duly signed by APSFL	Please consider to release first payment linked to supply of equipment at APSFL warehouse. We propose payment terms as: 1. 30% payment of the work order payable against supply to centrally located warehouse /site (first point of delivery). 2. 50% of the work order value payable against Go-Live or Acceptance from APSFL. 3. 20% of the total value will be given after 6 months from date of Go Live or upon satisfactory certification from APSFL.	Refer Corregendum
201	7. Instructions to the Bidder	7.32 Liquidated Damages	29	Subject to clause for Force Majeure if the bidder fails to complete before the scheduled date or if bidder repudiates the agreement before completion of the Work, APSFL at its discretion may without prejudice to any other right or remedy available to APSFL the Contract recover a maximum of 5% (five percent) of the total value of the work order from the successful bidder as Liquidated Damages (LD). 1% of the late delivered or deemed late delivered/installed deliveries/installations goods for One week or part thereof, 1.5% for Two weeks or part thereof, 2% for Three weeks or part thereof, 2.5% for 4 weeks or part thereof and so on subject to maximum of 5%. If the delay continues beyond 10 weeks, APSFL may terminate the Agreement.	1) We request to simplify the quantum of LD as follows: Penalties shall be capped to maximum of 5% of total cost of Project. 0.5% of the late delivered portion each week or part thereof, up to 10 week 2) Kindly clarify 'deemed late delivered'	No change
202		7.30 Payment Terms	29	7.30 Payment Terms: 1. 80% of the work order value payable against successful supply, Go-Live & Acceptance from APSFL. Supporting Documents – Acceptance certificate duly signed by APSFL 2. 20% of the total value will be given after 6 months from date of Go-Live and upon satisfactory certification from APSFL.	The system integrator has to pay total 100% amount of the equipment value including 5 years warranty cost upfront to the OEMs or their distributors immediately after delivery of equipment by the OEMs. Hence, we request the department to amend the payment Terms as: 1. 90% of the work order value payable against successful supply, Go-Live & Acceptance from APSFL. Supporting Documents – Acceptance certificate duly signed by APSFL 2. 10% of the total value will be given after 6 months from date of Go Live and upon satisfactory certification from APSFL.	Refer Corregendum
203	Payment Terms	7.3	29	1.80% of the work order value payable against successful supply, Go-Live & Acceptance from APSFL 2.20% of the total value will be given after 6 months from date of Go-Live and upon satisfactory certification from APSFL	We request for change in the Payment terms to as mentioned below. 1) 50% payment of contract value shall be made against supply of equipment to centrally located warehouse /site (first point of delivery). 2): 30% payment of contract value shall be made 30 days of successful installation & commissioning of equipment at site. 3) 10% payment of the contract value on final acceptance of the product and submission of all relevant documentation and training. 4) 10% of the contract value on completion of warranty period or submission of PBG.	Refer Corregendum
204	7.33 Termination of Contract	Termination for Convenience	30	..... On termination, the successful Bidder is not entitled to any compensation whatsoever	We request to consider rephase Termination for Convenience clause as "APSFL may by written notice, with a notice period of seven days sent to the Successful Bidder, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for APSFL's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective. On termination, the successful Bidder is not entitled to any compensation whatsoever. Provided that such termination will not prejudice or affect respective rights and obligations of the Parties already accrued prior to the date of such termination and related costs."	No change

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
205	Definitions	Not covered in RFP	#	Go-Live is not defined	We request to define Go-Live. We suggest it as: "Project shall be considered as 'Go-Live' when the network is put on use for the traffic Or the acceptance testing has been signed by APSFL, which ever is earlier"	"Go-Live" as when the network is put on use for the traffic or acceptance testing has been signed by APSFL, which ever is earlier
206	1	4. Pre-Qualification Criteria	19-20	Request For Additional Clause: in Pre Qualification Criteria	Again referring to OLA RFP floated by APSFL for the similar technology with lesser project value compared to this RFP, the department has asked for the Bidder experience in supplying, Commissioning and Providing Support services for at least 50 Nos of DWDM Nodes in last 3 FYs in India, which is not asked in this Rfp though this is purely a DWDM Network tender only. Similarly In the RFP floated by Power Grid Corporation of India Limited for DWDM equipment, they have asked for the DWDM Experience for bidder as - "In case of Indian Bidder, they must have installed, tested and commissioned at least Twenty Five (25) add-drop nodes of 32 channel 10G or above DWDM system in one or more contracts in the last seven (7) years". The OEMs will only supply and provide the Warranty for the equipment. Whereas the Bidder (System Integrator) will be solely responsible for execution of the project, Installation and commissioning of the DWDM Network and thereby maintain the Network for the entire project period. We request the Department to incorporate the following criteria: "The bidder/ consortium shall have experience of supplying, commissioning and providing support services for at least 50 Nos. DWDM nodes in last 3 FYs in India".	Refer Corregendum
207	3.2.3	Service Requirements			It shall be allowed to support Layer 2 Switching features via separate layer 2 device , although managed by same NMS.Please confirm	As per RFP
208		General		What should be the Fiber Kms & Loss to be considered for Zonal rings	Request APFSL to kindly confirm if following DWDM link engineering criteria shall be considered for Zonal network Planning - 80km span distance between Zonal Nodes - 0.25dB/km span loss between Zonal Nodes - 3 dB fiber repair margin per span - 1 dB Connector loss per span	Refer Corregendum
209		General		What should be the Fiber Kms & Loss to be considered for District rings	Request APFSL to kindly confirm if following DWDM link engineering criteria/parameters shall be considered for Core/DHQ network planning. - 0.25dB/km span loss between DHQ Nodes - 3 dB fiber repair margin per span - 1 dB Connector loss per span	Refer Corregendum
210		General		Client interface rate, count & type is required at District and Core node	We understand that the Client interface at District and Zonal node would be 10G. Request APFSL to kindly confirm if above understanding is correct and also provide count of interfaces with type at each District and Zonal location/site -10G SR/LR/ZR	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR
211		General		NMS in 1+1 GR configuration	Since this OTN network would be the backbone of APFSL so we suggest to have NMS (Network Management system) shall be deployed in 1+1 GR configuration to have high availability. Request APFSL to confirm if above understanding is correct.	As per RFP
212		General		ROADM Configuration for DHQ & Zonal	We Under that the since the Network is supposed to be planned with Layer -1 OTN-DXC solution, the ROADM configuration required would be Directional-Colored for every Node. However the equipment shall have support/capability for the Colorless Directionless ROADM configuration if required. Request APFSL to kindly Confirm.	Equipment shall support either WSON or Electrical ASON. WSON or Electrical ASON configuration for complete network (District and Zonal ring) shall be provisioned from day 1. If Electrical ASON is used in the network in that case optical level OTN switching is not required for that directionless & Colorless solution can be optional. If optical ASON is used in the network than it has to support directionless and colorless configuration.
213		General		ROADM Configuration for DHQ & Zonal	In-order to have the uniform configuration across the network and to support the forklift upgrade in future network expansion, it is recommended to consider 9x1 WSS ROADM for every node in the APSFL DWDM network . Request APFSL to kindly confirm	As per given network in the tender.
214		General		Different/independent card for the Amplifier(Booster/Pre-amplifier) and for ROADM	As per the Global DWDM network deployment best practices, It is highly recommended to plan different/independent card for the Amplifier(Booster/Pre-amplifier) and for ROADM at terminal site/node. This will lead isolation of the network error more efficiently and would need less time to resolve any issue arising out of card failure (Whereas, if both the functionality is inbuilt in one card then at the time of HW failure, there would enormous amount of manual intervention required to remove and fix the cable, which further can increase the network down time) . Request APFSL to kindly confirm.	As per RFP
215	3.2.1	All		new	Request to consider OTN requirement only for District DWDM nodes, all the key functionalities needed by APSFL as part of Zonal OTN can be fulfilled by Zonal IP MPLS layer in terms of bandwidth capacity and interms of multi path protection across multiple layers. Request you to consider the same and give us a opportunity to explain the solution and the cost advantages it would bring to APSFL.	As per RFP

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
216		Not covered in RFP		Site Security	We assume APSFL sites are secured / guarded and once material is delivered to sites APSFL shall take responsibility of material safety after Open Box Inspection is done	Yes, Agreed
217		Not covered in RFP		Logistics from APSL warehouse to APSFL sites	We anticipate APSFL to take responsibility of material transportation from APSFL warehouse to APSFL sites	No, Its bidder responsibility as it is linked to end-to-end solution implementation
218		Not covered in RFP		Air Conditioning	We envisage all the sites for equipment deployment shall be airconditioned and dust free environment	Not all the sites
219		Not covered in RFP		OFC Fiber	We are assuming that separate fiber shall be provided for this proposed network	Please refer 3.scope in the tender
220		Not covered in RFP		IOT (Inter operability) test with existing vendor	IOT testing with existing vendor is not part of this RFP as this is a green field deployment	Please refer 3.scope in the tender
221				Define 1) Acceptance 2) Satisfactory Certification	We understand the following shall be as: 1) Acceptance - The acceptance shall be given based upon completion of delivery and I&C or the network is put on commercial traffic, whichever is earlier. In case of delay in issuance of acceptance certificate, the network acceptance shall be deemed accepted after 15 days of commercial traffic has been put on the network. 2) Satisfactory certification - It shall be issued after 6 months of commercial traffic put on the network or Acceptance Certificate, whichever is earlier	1) Acceptance - The acceptance shall be given based upon completion of 'delivery , Installation & Commissioning' and tnetwork is put on commercial traffic, whichever is earlier. 2) Satisfactory certification - It shall be issued after 6 months of commercial traffic put on the network and Acceptance Certificate signed by APSFL
222		Not covered in RFP		Acceptance Testing	We would like to know whether APSFL shall be conducting the Acceptance testing with APSFL employees or shall be appointing the consultant to carry out the Testing	APSFL or APSFL Authorized person
223	3.2.3	Service Requirements			Whether it will be allowed to support Layer 2 Switching features via separate layer 2 device , although managed by same NMS.Please confirm.	As per RFP
224				Under Make in India, GoI Policy	We would like to bring to your notice that Government of India has come up with a Gazette Preferential Market Access Policy vide notification no.8(78)/2010/IPHW dated 10th Feb,2012 which clearly mandates vide clause 2.2.2 that all central government funded projects would have to come under PMA policy. As per clause 3.0 of the DOT notification dated Oct 05, 2012 for providing Preference to Domestically manufactured Telecom products in Government procurement, National Optical Fibre Network (NOFN) which is renamed as Bharatnet is specially mentioned on which PMA should be applicable. In accordance to that, BSNL & BBNL has already implemented the PMA guidelines in all the tenders for Bharatnet Phase I project. In addition, the policy dated 23rd December,2013 vide clause 4.3.4 states that the tender conditions would ensure that domestically manufactured electronic products are encouraged and are not subjected to restrictive product specifications or mandatory requirement of prior experience. In view of above, we request you for Implementation GOI Preferential Market Access Policy to promote domestic manufacturing under Make in India- as per the following notifications a. DoT notification No.18-07/2010-IPdated 05 Oct 2012 b. Guidelines issued by DeitY vide No.8(78)/2010-IPHW dated 12Jun 2013. c. Notification issued by DeitY vide No.33(3)/2013-IPHW dated 23Dec 2013. d. Guidelines issued by DeitY vide No.33(7)/2015-IPHW dated 16th November,2015.	As per RFP
225	2	Introduction		Each of the districts in APSFL network has its own zonal ring,these zonal rings have 4 -5 nodes in each zonal ring.	Request APSFL to kindly confirm if each Zonal ring would have only 4 nodes as per topology shared in Point #2 (following)	Bidder has to consider 90% zonal level sites shall have 4 nodes and 10% zonal sites shall have 5 nodes that includes District Headquarter Sites.
226	3.1	Functional Requirement.		The bidder solution should make sure that each district equipped with a dedicated capacity of at least 200G running across the two DCs in Vizag and Amaravathi.	Is this 200G capacity is separate from the 400G shared rings capacity between District nodes. Also this 200G is basically 100G each for Vizag & Amaravathi DC from each District node. Request APSFL to kindly confirm if above understanding is correct.	DHQ to NOC Bandwidth of 200G need to be distributed as : Dedicated 100G bandwidth with ASON protection (Switch within 50ms) for each of the NOC(DC) location.
227	3.1	Functional Requirement.		The bidder solution should make sure that each district is equipped with a dedicated capacity of at least 200G running across the two DCs in Vizag and Amaravathi.	Request APSFL to confirm location of Amaravathi on the topology whether its part of District ring or Zonal ring as it had not been mentioned in the provided Topology information in the RFP .	Amaravathi is GUNTUR
228	3.1	Functional Requirement.		The bidder solution should make sure that at least 400G of OTN capacity is factored in for any district to any district communication in the state ring and there should be possibility to make use of the same for the inter zonal OTN traffic across districts.	We understand there would be two OTN core Rings, Ring#1 & Ring#1 among all the 12 District node with shared capacity of 400G in each ring. Request APSFL to kindly confirm if above understanding is correct.	We have only 13 districts in AP and the topology is showing both district nodes and OLA nodes also. Capacity in State ring is expected in the district nodes. DWDM and OTN nodes should be present in districts and amplifier nodes will be as per the vendor solution
229	3.1	Functional Requirement.		The bidder solution should have at least 200G of OTN capacity for any zonal to any zonal communication within one zonal ring with at least two alternate paths from each zonal to adjacent zonal rings of other districts	We understand there would be OTN zonal ring of 200G shared capacity with 4 nodes per zonal ring. Request APSFL to kindly confirm if above understanding is correct.	Bidder has to consider 90% zonal level sites shall have 4 nodes and 10% zonal sites shall have 5 nodes that includes District Headquarter Sites.
230	3.1	Functional Requirement.		The bidder solution should have inline OTDR functionality in every node with integration with the fault management functionalities of node.	Request APSFL to confirm if inline OTDR is required only for district(DHQ) nodes rings.	As per RFP
231	3.1	Functional Requirement.		Bidders can reuse the existing NCS 2006 chassis in the APSFL network. or bidder may propose extra chassis for supporting the requirements or can propose completely different chassis in addition to the existing ones or completely provide a new vendor solution all together meeting all the existing and the new requirements mentioned as part of this RFP	We understand that the Bidder can consider existing NCS 2006 chassis along with Transponders etc to fulfil RFP requirements. Request APSFL to confirm if above understanding is correct. Also request APSFL to share the exiting HW details for planning the network with existing NCS 2006 equipment.	Clause is clear
232	0	Technical Requirements/3 .2.1 General Requirements// 4		The equipment should implement synchronous multiplexing at ODUk/VC level and Ethernet synchronous.	We understand the Bidder needs to be quote OTN based DXC solution which can carry any type of client traffic ODU/OTU, SDH/VC & Ethernet over OTN technology using OUDk cross connect. Request APSFL to confirm if above understanding is correct.	As per RFP
233	3.2	Technical Requirements/3 .2.1 General Requirements// 10		The supplier shall provide common parts of the chassis are redundant i.e. power supply redundancy, switch fabric redundancy (if any), shelf-controller redundancy and hitless switchover and hitless forwarding.	We understand that these requirements are for add/drop nodes but for ILA/OLA sites propose box shall have power redundancy but controller redundancy is optional. Request APSFL to confirm.	As per RFP

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
234	3.2.9	Technical Requirements		The proposed NMS should have open integration interfaces on both southbound and northbound to integrate with external OSS/BSS and other provisioning systems. REST API is the bare minimum integration that should be supported	We understand that the proposed solution by the bidder/OEM shall support standard Southbound and northbound interfaces, however current RFP do not require the bidder to carry out the integration with 3rd party NMS / OSS / BSS. Any such integration shall be done by the 3rd party NMS / OSS / BSS vendor	As per RFP
235	3.2.2	Grooming/Switching Requirements/5		Solution shall support STM-1, STM-4, STM-16, STM-64 ports should be structured in VC-4 based on ITU-T G.707 recommendation.	We understand that the OTN DXC shall support client traffic as STM1/4/16/64 and map it over ODUK XC over OTN Line to carry to other destination district/Zonal nodes. Request APSFL to confirm if above understanding is correct.	As per RFP
236	3.2.4	Protection Requirements//8		The equipment shall support WSON / ASON from day one with all required software and hardware	We understand that OTN DXC solution is required on both District rings and zonal rings so Layer #1 Control plane based ASON functionality is required from day#1 & accordingly directional Photonics system needs to be quoted by Bidder. Request APSFL to confirm if above understanding is correct	Equipment shall support either WSON or Electrical ASON. WSON or Electrical ASON configuration for complete network (District and Zonal ring) shall be provisioned from day 1. If Electrical ASON is used in the network in that case optical level OTN switching is not required for that directionless & Colorless solution can be optional. If optical ASON is used in the network then it has to support directionless and colorless configuration.
237	3.2.6	Switching Fabric Requirements//1		The equipment will be equipped with one centralized fabric that performs connections at ODUk(=0, 1, 2, 3, 4, flex) level.	We understand that OTN DXC solution is required on both District rings and zonal rings shall support centralized fabric at ODUk (=1,2,4,4 flex) Request APSFL to confirm if above understanding is correct	As per RFP
238	3.2.6	Switching Fabric Requirements//10		The Och switching should support Directionless and Color less configuration and the vendor should depict the configuration with schematic diagram.	We understand the requirement is of OTN DXC based switching platform at District and Zonal sites so Layer#1 control plane based ASON network would responsible for protection and restoration of traffic to handle multi path fiber failure in the network to keep the high uptime. So Och switching is not required and accordingly directional Photonics system is right configuration based on the requirement mentioend in the RFP . Also directionless is not scalable solution so we suggest APSFL to make the ROADM configuration as directional & colored configuration.	As per RFP
239	3.2.8	ASON/WSON should support the peer mode or overlay mode//1		ASON/WSON should support the peer mode or overlay mode.	We understand the requirement is of OTN DXC based switching platform at District and Zonal sites so Layer#1 control plane based ASON network would responsible for protection and restoration of traffic to handle multi path fiber failure in the network so WSON feature is not required on day#1 however offered equipment shall support this feature. Request APSFL to kindly confirm if above understanding is correct.	As per RFP
240	3.2.8	ASON/GMPLS should support the E-NNI/I-NNI //3 &4		ASON/GMPLS should support the E-NNI/I-NNI //3 &4	We understand Layer#1 control plane would be from one OEM only and traffic handover to Router etc would on client level that can be OTU/SDH/or Ethernet. Request APSFL to confirm if above understanding is correct.	As per RFP
241	3.2.8	The ODUk electrical-layer ASON/Optical layer WSON supports different kind of services so that Purchaser can get 99.999% network availability till fiber path is available/5		The ODUk electrical-layer ASON/Optical layer WSON supports different kind of services so that Purchaser can get 99.999% network availability till fiber path is available/5	We understand Layer#1 control plane that is based on ODUk ASON is required so optical ASON is not required on day#1 however quotes box shall support this feature. Request APSFL to kindly confirm if this understanding is correct.	Clause is clear
242		General		What should be the Fiber Kms & Loss to be considered for Zonal rings	Request APSFL to kindly confirm if following DWDM link engineering criteria shall be considered for Zonal network - 80km span distance between Zonal Nodes - 0.25dB/km span loss between Zonal Nodes - 4 dB fiber repair margin per span - 1 dB Connector loss per span	Refer Corregendum
243		General		What should be the Fiber Kms & Loss to be considered for District rings	Request APSFL to kindly confirm if following DWDM link engineering criteria shall be considered for Core network & also request APSFL to share fiber link distance and loss for District nodes - Actual distance and losses for DHQ Nodes - 4 dB fiber repair margin per span - 1 dB Connector loss per span	Refer Corregendum
244		General		Client interface rate, count & type is required at District and Core node	We understand that the Client interface at District and Zonal node would be 10G. Request APSFL to kindly confirm if above understanding is correct and also provide count of interfaces with type at each District and Zonal location -10G SR/LR/ZR	OTN Capacity requirements: 1. For L1 OTN services : Minimum 10 ports with flexibility to support any of the STM-1/4/16/64, 1/10G. 2. For L2 packet services : Minimum 10 port with 1/10G accessible ; At each zonal node, bidder has to provide client ports for access of L1 and L2 services based on the above. At each DHQ, bidder has to provide at least 20x10G client interfaces with preloaded 10G SR SFPs from day 1 to add/drop the capacity towards the primary and secondary NOCs in addition to OTN capacity requirements mentioned above. The cumulative SFP quantities are mentioned in the updated SOR
245		General		NMS in 1+1 GR configuration	Since this OTN network would be the backbone of APSFL so we suggest to have NMS (Network Management system) shall be deployed in 1+1 GR configuration to have high availability. Request APSFL to confirm if above understanding is correct.	Refer Corregendum

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
246	1.1 (Point No. 10)	Key Events and Dates		Bid Security / EMD (Refundable)	The details of Bank on which EMD is required to be drawn is Not given . Please Provide the same.	Name of Beneficiary: Andhra Pradesh State Fibernet Limited Name of Bank: Andhra Bank Bank address: Andhra Bank, Main Branch, RR Apparao street, Vijayawada, Andhra Pradesh Bank Account No: 000611100002032 IFSC CODE: ANDB0000606 MICR CODE: 520011025 BRANCH CODE: 000606
247	7.18	Instructions to the Bidder		Earnest Money Deposit	The details of Bank on which EMD is required to be drawn is Not given . Please Provide the same.	Name of Beneficiary: Andhra Pradesh State Fibernet Limited Name of Bank: Andhra Bank Bank address: Andhra Bank, Main Branch, RR Apparao street, Vijayawada, Andhra Pradesh Bank Account No: 000611100002032 IFSC CODE: ANDB0000606 MICR CODE: 520011025 BRANCH CODE: 000606
248	7.3	Instructions to the Bidder		Payment Terms - 1. 80% of the work order value payable against successful supply, GO-Live & Acceptance from APSFL. Supporting Documents – Acceptance certificate duly signed by APSFL	There is no provision for any advance payment to the successful Bidder and the first payment will be released only after successful supply, GO-Live & Acceptance from APSFL which at the minimum will be 14 weeks plus the time taken by APSFL in Processing the payment. This will put severe strain on the working Capital of the bidder. Please amend to provide for an advance of 10% of the value of contract against Bank Guarantee on signing of contract and further 40% of the value of contract on supply of Equipment.	Please refer corrigendum
249	7.32	Instructions to the Bidder		Liquidated Damages :1% of the late delivered or deemed late delivered/installed deliveries/installations goods for One week or part thereof,	How the deemed late delivered/installed deliveries/installations will be calculated. Please Clarify	Will be calculated considering the timelines mentioned in tender
250	7.32	Instructions to the Bidder		Liquidated Damages :1% of the late delivered or deemed late delivered/installed deliveries/installations goods for One week or part thereof,	Liquidated Damages provided in this clause are not as per the industry norms and may lead to unwarranted loading in the bid by the bidder. We request to keep Liquidated Damages to 0.5% per week subject to maximum of 5% as stipulated in other APSFL tenders. Please confirm.	No change
251	3.1	Financial Requirement		The bidder solution should make sure that at OEM deploys 1 Network planner and 3 Network engineers during maintenance and support period at APSFL premises for handling all the updates and changes in the network	We understand that the resources to be deployed during maintenance and support period as per the requirement of this clause may be the OEM resources or OEM certified resources deployed by OEM and/or the SI. Please confirm.	OEM resources shall be deployed during maintenance and support period at APSFL premises for handling all the updates and changes in the network
252	4	Pre-Qualification Criteria		The Bidder/Consortium should have Cumulative Annual Turnover of INR 100 Crores and above in last Three audited financial years	We understand that the Bidder and Consortium should have Cumulative Annual Turnover of INR 100 Crores and above in each of last three audited financial years. Further in case of Consortium the prime bidder should contribute at least 50% of the turnover. Please confirm.	As per RFP
253	4	Pre-Qualification Criteria		The Bidder/Consortium should have Cumulative Annual Turnover of INR 100 Crores and above in last Three audited financial years	Success of any project depends upon financial health of the Prime Bidder. We feel that the turnover requirement given here is much lower considering volume of work and after sales service required as per the RFP. We therefore request you to revise this clause as "Bidder and Consortium should have Cumulative Annual Turnover of INR 200 Crores and above in each of last three audited financial years. Further in case of Consortium the prime bidder should contribute at least 75% of the turnover". Please confirm.	As per RFP
254	7.24	Delivery Timelines		The Successful Bidder shall complete the deliver the work order within in 6 weeks and complete the implementation within 2 months after delivery	The timelines of 6 weeks for delivery of equipment and 2 months for implementation are too stringent and may not be practically feasible. This may lead to loading of Liquidated Damages cost by bidders resulting into inflated bids. We request you to revise timeline to 12 weeks for delivery of equipment from the survey approved date and further 12 weeks for installation to ensure active participation by the bidders with competitive quotes.	Clause is clear. Bidder has to deliver the equipments within 6 weeks directly to the APSFL designated locations and complete the installation within 2 months after the delivery.
255	7.24	Delivery Timelines		The Successful Bidder shall complete the deliver the work order within in 6 weeks	1) We assume that APSFL shall be assigning the central warehouse where all equipment under this RFP shall be delivered as per the timelines. 2) We propose all the deliveries shall be after the site survey report signed by APSFL after the LOA and we request APSFL to consider the delivery timelines to 12 weeks from the survey approved date	Clause is clear. Bidder has to deliver the equipments within 6 weeks directly to the APSFL designated locations
256	7.24	Delivery Timelines		..... complete the implementation within 2 months after delivery. If the Successful Bidder fails to commence the assignment, the LOA may be, cancelled /terminated	1) We request APSFL to clarify that 'Implementation' means as "successful delivery of equipment and it's Installation and Commissioning" 2) We understand that the proposed network deployment is going to be a green field deployment and there shall not be any integration or swap or migration involved with the existing network under this RFP 3) Further we assume that the OFC fiber, space and power is available with APSFL for the new network and there shall not be any dependency on the existing network for their availability. Any dependency of OFC Fiber, space and power may lead to delays in the Implementation and shall not be counted towards the bidder.	Yes Agreed.
257	7.24	Delivery Timelines		The Successful Bidder shall complete the deliver the work order within in 6 weeks and complete the implementation within 2 months after delivery. If the Successful Bidder fails to commence the assignment, the LOA may be, cancelled /terminated. However, in case of specific reasons for delay in supply beyond the periods specified herein the bidder should obtain specific written approval from APSFL citing the reasons. The decision of APSFL is final on the issue of extension of the delivery period.	We assume APSFL to issue the single Purchase order for the complete offering and take complete deliveries at one go.	As per Purchase order, bidder has to complete the deliveries inline with the RFP requirement
258		Not covered in RFP		Site Security	We assume APSFL sites are secured / guarded and once material is delivered to sites APSFL shall take responsibility of material safety after Open Box Inspection is done	Yes
259		Not covered in RFP		Logistics from APSL warehouse to APSFL sites	We anticipate APSFL to take responsibility of material transportation from APSFL warehouse to APSFL sites	No. It is bidder responsibility end to end till go live
260		Not covered in RFP		Air Conditioning	We envisage all the sites for equipment deployment shall be air-conditioned and dust free environment	No. Existing fiber need to be used.
261		Not covered in RFP		OFC Fiber	We are assuming that separate fiber shall be provided for this proposed network	No. Existing fiber need to be used.

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
262		Not covered in RFP		IOT (Inter operability) test with existing vendor	IOT testing with existing vendor is not part of this RFP as this is a green field deployment	Refer Corregendum
263		Not covered in RFP		Define 1) Acceptance 2) Satisfactory Certification	We understand the following shall be as: 1) Acceptance - The acceptance shall be given based upon completion of delivery and I&C or the network is put on commercial traffic, whichever is earlier. In case of delay in issuance of acceptance certificate, the network acceptance shall be deemed accepted after 15 days of commercial traffic has been put on the network. 2) Satisfactory certification - It shall be issued after 6 months of commercial traffic put on the network or Acceptance Certificate, whichever is earlier	1) Acceptance - The acceptance shall be given based upon completion of 'Delivery , Installation & Commissioning' and network is put on commercial traffic, whichever is earlier. 2) Satisfactory certification - It shall be issued after 6 months of commercial traffic put on the network and Acceptance Certificate signed by APSFL
264		Not covered in RFP		Acceptance Testing	We would like to know whether APSFL shall be conducting the Acceptance testing with APSFL employees or shall be appointing the consultant to carry out the Testing	APSFL or APSFL Authorized person
265	7.25	Delivery & Documents		Corresponding documentation shall be submitted to APSFL along with delivery.	Kindly clarify the "Corresponding Documentation"	Every document that are related to delivery like Delivery chalans, Invoices.
266	7.29	Delivery & Documents		Successful bidder should maintain adequate spares to support at least 10% of equipment supplied as part of this RFP.	1) As per Product MTTR and MTBF the Spares of approx. 1% shall be adequate for the maintenance of the network. Please clarify OR 2) We request to clarify: 1% Spares need to be billed to APSFL to be maintained in APSFL warehouse	To maintain uptime of the network minimum 2% of spares needs to be incorporated in the proposal to maintain the network
267	7.29	Service Levels and Warranty & Maintenance		The warranty shall be counted from the date of Go-Live	As "Go-Live" is an important milestone, we request APSFL to clearly define "Go-Live". Our Suggestion is to define "Go-Live" as when the network is put on use for the traffic / commercial usage or the acceptance testing has been signed by APSFL, which ever is earlier	"Go-Live" as when the network is put on use for the traffic or acceptance testing has been signed by APSFL, which ever is earlier
268	7.29	Maintenance		Service Levels and Warranty & Maintenance: Bidder is required to provide the Comprehensive Onsite upfront warranty and Maintenance of Five years. The warranty shall be counted from the date of Go-Live. It is also required to properly maintain sufficient spare parts for all supplied equipment to meet the required SLA. The details of the work to be undertaken are as follows: • Diagnosis of the fault • Repairing of defective parts/components. • Replacement of parts/components beyond repair with parts/components of same or better specifications ensuring compatibility.	1) We assume the on site hardware replacement shall be carried out by the APSFL maintenance team under the guidance of the NOC team or OEM TAC experts 2) Faulty part shall be sent to OEM spare warehouse by APSFL and new part shall be replaced by OEM to APSFL central location 3) Kindly confirm the central location where the spare parts shall be replaced by OEM	The Bidder needs to own the O&M for all the equipment provided as part of this bid. Spares should be maintained in all the districts so that SLA can be met As per RFP conditions and OEM support center should be present in Andhrapradesh and Service Centre should be present in India.
269	7.29	Service Levels and Warranty & Maintenance		TTR Time to Repaired SLA	1) Need clarification on Time to Repair (TTR), whether TTR includes both Technical Resolution & hardware Replacement or only technical resolution. 2) Hardware replacement SLA shall be excluded from the TTR calculations 3) Further TTR will be based on the network downtime supplied under this RFP	As per RFP
270	7.29	Service Levels and Warranty & Maintenance		Day wise Penalties for SLA non Adherence	We suggest Quarterly handshake on the SLA adherence instead of Each case based, kindly confirm	As per RFP
271	3	Scope of Work		Scope of Work	The scope of work does not cover the Training requirement to APSFL project and maintenance team. Suggest APSFL to clearly define the training requirements so that the same can be included in the overall package	Training shall be provided to APSFL staff which should cover complete Planning & Design for one batch of people and Operations & Maintenance for another batch of people. The same need to be recorded and made available for future use.
272	3	Scope of Work		The bidder solution should make sure that at OEM deploys 1 Network planner and 3 Network engineers during maintenance and support period at APSFL premises for handling all the updates and changes in the network.	Our understanding is that OEM engineers shall be supporting the APSFL operations (O&M) team from NOC at DC for carrying out any firmware updates and network changes. However APSFL shall carry out day to day Operations (O&M) on the network like service configuration, day to day network hygiene, network monitoring, day to day alarm management etc.	OEM resources shall be deployed during maintenance and support period at APSFL premises for handling all the updates and changes in the network
273	3	Scope of Work		The bidder solution should make sure that at OEM deploys 1 Network planner and 3 Network engineers during maintenance and support period at APSFL premises for handling all the updates and changes in the network.	Kindly clarify whether OEM engineers are required to work dedicatedly from NOC for complete 5 years or required to be in NOC on need basis	OEM resources shall be deployed during maintenance and support period at APSFL premises for handling all the updates and changes in the network
274	3	Scope of Work		The bidder should provide comprehensive network and services design and the necessary tools for planning and managing the services in the network and to monitor the service quality also.	1) Kindly clarify in detail the purpose of such tools. 2) OEM EMS/NMS is capable for managing the services in the network and to monitor the service quality. We anticipate the same can fulfill this requirement of APSFL, kindly confirm	Clause is clear. Bidder need to supply the OEM network planning and design tools
275	Definitions	Definitions - Service Centre		"Service Centre" The center or place, wherein the Bidder, inter alia undertakes and performs the service activities relating to tendered items and shall include a direct service center or authorized dealer or franchisee service center of the bidder in 13 Districts of Andhra Pradesh:	DWDM is core-network boxes and does not warrant multiple service centers unlike mass commodity. We request to rationalize the service center definition as, 'Bidder to have at least one service center in AP or Undertaking to establish the same within the timelines stipulated by APSFL.'	Spares should be maintained in all the districts so that SLA can be met As per RFP conditions and OEM support center should be present in Andhrapradesh and Service Centre should be present in India.
276	Definitions	Not covered in RFP		Go-Live is not defined	We request to define Go-Live. We suggest it as: "Project shall be considered as 'Go-Live' when the network is put on use for the traffic Or the acceptance testing has been signed by APSFL, which ever is earlier"	"Go-Live" as when the network is put on use for the traffic or acceptance testing has been signed by APSFL, which ever is earlier
277	1.1 Key Events and Dates	1.1.11 Performance Bank Guarantee		10% of the Contract Value in the form of Bank Guarantee issued by one of the Nationalized / Scheduled Commercial Banks in India drawn in favour of Andhra Pradesh State FiberNet Ltd, payable at Vijayawada. • Should be valid for contract period + 3 months	We request you to rationalize the PBG value as 5% in line with the other PSUs	No change
278	7. Instructions to the Bidder	7.19 Performance Bank Guarantee		Performance Bank Guarantee (PBG) for 10% of the Contract Value for the services to be performed under the resultant Agreement. The Performance Bank Guarantee shall be valid for the term of the resultant Agreement + 3 months and shall be renewed and maintained as necessary by the SI for the term of the resultant Agreement, and extensions if any.	We request you to split the PBG requirement in line with the other PSUs as: 1) Supply & Installation PBG: 5% of the PO value with the validity till 'Project Go-live'. PBG shall be released after submission of O&M PBG 2) O&M PBG: 5% of the quoted O&M value to be submitted at the time of start of warranty with the validity till completion of O&M period + 3 months	No change

RFP No.: APSFL/OLA/284-2/2018, Dated 02/03/2019						
Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid						
Clarifications 01, Dt:27.03.2019						
SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
279	7. Instructions to the Bidder	7.8 Tender Validity		The offer submitted by the Bidders should be valid for a minimum period of 180 days from the date of opening of the Tender. The Contract will be valid for 5 year from the date of signing of the contract or agreement/date of release of the first Purchase order. However, APSFL reserves the right to extend or short close the Tender validity period if situation warrants to benefit the Government.	We request to clarify that change in Tender validity period (of 180 days) shall have no bearing on the Contract validity period (5 years from the date of signing of the contract or agreement/date of release of the first Purchase order)	Clause is clear
280	7. Instructions to the Bidder	7.10 Bid Prices		The Bidder shall indicate in the proforma prescribed, the unit rates and total Bid Prices for the equipment / services, it proposes to provide under the Contract. Prices should be shown separately for each item as detailed in this document. If during the course of execution of the project any minor revisions to the work requirements like technical specifications, equipment sizing, etc. are to be made to meet the goals of the Project; such changes shall be carried out within the proposed price. If any deviation has a major impact on the Project Cost, the Authority shall take appropriate decision and such decisions would be binding on the Bidder.	1) Please quantify the 'major impact on the Project Cost'. 2) We request to clarify that deviation if any is applicable only for product supply. 3) We request to cap the deviation, if any, in the project cost as 0.5% of the total Project cost over the period of the project. Subsequent to the cap, APSFL shall pay to bidder as per the quoted unit rates.	As bidder have to propose end-to-end solution it is bidder responsibility to carry out revisions within proposed prices
281	7. Instructions to the Bidder	7.30 Payment Terms		1. 80% of the work order value payable against successful supply, Go-Live & Acceptance from APSFL. Supporting Documents – Acceptance certificate duly signed by APSFL 2. 20% of the total value will be given after 6 months from date of Go-Live and upon satisfactory certification from APSFL. Supporting Documents – Satisfactory certificate duly signed by APSFL	Please consider to release first payment linked to supply of equipment at APSFL warehouse. We propose payment terms as: 1. 30% payment of the work order payable against supply to centrally located warehouse /site (first point of delivery). 2. 50% of the work order value payable against Go-Live or Acceptance from APSFL. 3. 20% of the total value will be given after 6 months from date of Go Live or upon satisfactory certification from APSFL.	Please refer corrigendum
282	7. Instructions to the Bidder	7.32 Liquidated Damages		Subject to clause for Force Majeure if the bidder fails to complete before the scheduled date or if bidder repudiates the agreement before completion of the Work, APSFL at its discretion may without prejudice to any other right or remedy available to APSFL the Contract recover a maximum of 5% (five percent) of the total value of the work order from the successful bidder as Liquidated Damages (LD). 1% of the late delivered or deemed late delivered/installed deliveries/installations goods for One week or part thereof, 1.5% for Two weeks or part thereof, 2% for Three weeks or part thereof, 2.5% for 4 weeks or part thereof and so on subject to maximum of 5%. If the delay continues beyond 10 weeks, APSFL may terminate the Agreement.	1) We request to simplify the quantum of LD as follows: Penalties shall be capped to maximum of 5% of total cost of Project. 0.5% of the late delivered portion each week or part thereof, up to 10 week 2) Kindly clarify 'deemed late delivered'	No change
283	7.33 Termination of Contract	Termination for Convenience		..... On termination, the successful Bidder is not entitled to any compensation whatsoever	We request to consider rephrase Termination for Convenience clause as "APSFL may by written notice, with a notice period of seven days sent to the Successful Bidder, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for APSFL's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective. On termination, the successful Bidder is not entitled to any compensation whatsoever. ,Provided that such termination will not prejudice or affect respective rights and obligations of the Parties already accrued prior to the date of such termination and related costs."	No change
284	4	4		Pre-Qualification Criteria (New Clause Addition)	We Strongly feel that the OEM & its Indian company should be a major industrial player with sound financials in last 3 years in order to provide top class support with best quality & resources . So kindly add that the OEM (Parent Company) & its Indian group company should have positive net worth in each of last 3 financial years .	No change
285	4	4		Pre-Qualification Criteria (New Clause Addition)	We Strongly feel that the OEM & its Indian company should be a major industrial player with sound financials in last 3 years in order to provide top class support with best quality & resources . So kindly add that the OEM(Parent Company) & its Indian group company should have turnover more than INR 5000 cr in each of last 3 financial years each.	No change
286	4	4		Pre-Qualification Criteria (New Clause Addition)	We understand these project should be handled by OEM who have experience in India for handling such projects ,So kindly add that the OEM should have presence in India for more than 15 Years	No change
287	4	2. Pre-Qualification Criteria		The Bidder/ any consortium member should have at least 3 Financial Years of existence in manufacturing or supply of Equipment or similar products as on date of submission of RFP.	Please clarify for Supply of equipment's,PO's are required for each years in last 3 years or any single PO in last 3 years	As per RFP
288	4	4		Pre-Qualification Criteria (New Clause Addition)	We understand these project should be handled by OEM who have experience in India for handling such projects so kindly add that OEM or Indian Group Company must have 24x7 hotline & toll-free help desk for service support in India with their own technical support in India and Abroad.	As per RFP
289	4	4		Pre-Qualification Criteria (New Clause Addition)	We understand these project should be handled by OEM who have experience in India for handling such projects & can support for trainings & services in India. So please add OEM or Indian Group Company must have multilevel certification courses & minimum 2 tier 1 training partner in India with training facilities.	As per RFP
290	3.Scope of Work	3.1	12	The bidder solution should have capability to run services from any zonal to any other zonal in another district anywhere across the state at optical level.	We request to clarify the connectivity & distance between any zonal to any other zonal in another district. Any zonal to any zonal in another district connectivity through Och or MS layer Please confirm	Refer Corregendum

Supply, Installation and Commissioning of DWDM Network Upgrade Equipment for AP Fiber Grid

Clarifications 01, Dt:27.03.2019

SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
291	2.Introduction	2	11	APSFL is planning to upgrade the transmission network to support OTN functionality in the network a 400G capacity across the state ring and upgrade the capacity in zonal rings with a 200G OTN capacity for each ring with an overlapping connectivity across the zonal rings and state ring to serve various cross district and cross zonal capacity demands	We request to mention ILA and district sites in network topology ,mean how many district and ILA sites are connected to each other in network.	Total Number of OTN node in District Head quarter shall be 13 nos. In between Nodes, OLA shall be placed if distance is more than Standard. In New Network there shall be thirteen zonal ring shall be provisioned, those shall be interconnected with neighboring zonal ring nodes.
292	3.2 General Requirements	3.2.1	14	The solution shall support 400g transmissions over G.652, G.653 and G.655 LEAF fibre.	Please clarify the channel bit rate(2*200G/1*400G) and total traffic capacity towards fiber in network	As per bidder solution