

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 02, Dt:30.04.2019**

SNo	RFP Part No.	Section No.	Page no.	Content of the RFP requiring clarification	Clarification Sought	Clarifications by APSFL
1	Clarification pdf	row#36	3	it is mentioned "All 13 district shall be connected to NOC 1 and NOC 2"	Should it be "All 11 district shall be connected to NOC 1 and NOC 2, NOW-1 and NOC-2 are also acting as DHQs"? Please confirm if our understanding is correct.	Clause is clear
2	Technical Requirements	requirement #8	14	It shall support fiber fault monitor by in line or embedded OTDR without any additional instrument	Kindly allow OTDR as standalone unit. Though standalone, it will be managed by same NMS as of DWDM. This is due to our leaf an spine architecture we are proposing for APSFL, which gives practically unlimited ports on fabric chassis.	No change
3	Corrigendum_3	row#11	2	Temperature requirement - For District: 0-45oC For Zonal: 0-65 oC	Kindly change the temperature of zonal dwdm node to 45+ degree. It is class B equipment and it should be in controlled environment, where the temp can go max up to 45+	Refer corrigendum
4	Clarification pdf	row#117	8	One of the vendor has suggested - kindly add that the turnover for OEM & its Indian group company should be more than INR 5000 cr in last 3 financial years and APSFL response is "YES"	We understand that it is only desirable but not mandatory for OEM's to have 5000 Cr. Turnover in last 3 years. Please confirm.	No change
5	Corrigendum_3	row#4	1	Presently PQ asked as - The bidder/any consortium member should have at least three OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references.	Kindly modify the above clause as below - 2 Domestic OTN/DWDM with relevant management solution in place 3 International OTN/DWDM with relevant management solution in place At least one reference of OTN/ASSON based network.  In tender please ask complete ASON requirements.	Refer corrigendum
6	Clarification pdf	row#89	6	Under APSFL clarification, it is mentioned - 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.	Kindly confirm redundant node are only required at DHQs. Keeping redundant node at zonal will push the cost very high. Also since we have right spare policy, changing 1U unit will not take much time. Please confirm at Zonal, redundancy is not required. We would like to propose 1U unit for zonal OTN, which is cost effective and environment friendly.	Refer corrigendum
7	Clarification pdf	row#100	7	Zonal shared bandwidth will be 200 G, ring bandwidth shall be more than 50 G considering 4 nodes in one zonal ring,	It is not very clear if zonal node should be on different lambda to support 50G traffic from each zonal pop or it is 200G shared OTN. Both will have different design and hardware requirement. Kindly confirm what is to be considered.	It is 200G shared OTN and each node should be able to drop at least 50G from DHQ in addition to other point to point demands.

8		Clarification - Sr no. 141		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.	The switching capacity currently available should not be less than 3.5T in the backbone network	Refer corregendum
9		Clarification - Sr no. 7		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	Update the district diagram to include districts Srikakulam and Vizianagaram. And provide distances for Vizag to Vizianagaram, Vizianagaram to Srikakulam and Srikakulam to Kakinada	Refer corregendum
10				New clarification	At zonal nodes, can we still propose distributed OTN XC with a muxponder (AR-XPE) for STM1/4/16/GE traffic	No change
11		RFP Annex IV Price Bid		Annex IV - Price Bid SFP pluggable section	Request you to remove requirement to have 40km and 80km reach support for STM-64 and 10GE LAN.	Refer corregendum
12	<Corrigendum3_DWDM.pdf>	Annexure I - APSFL District Nodes with Distances and Losses	3	Mudunur and Madanapalli	Please confirm that Mudunur and Madanapalli is the same location in State Ring?	Clause is clear
13	<Corrigendum3_DWDM.pdf>	Annexure I - APSFL District Nodes with Distances and Losses	7	VISAKHAPATNAM	VISAKHAPATNAM (Page 7 marked in blue) is a Zonal Ring which has no DHQ site. But has NOC site same as COSTAL RING. Is that two zonal ring accessing state ring via NOC location?	The given diagram is the as-is. In TO-BE, both Vizianagaram and Srikakulam will be part of the state ring
14	<Corrigendum3_DWDM.pdf>	Annexure I - APSFL District Nodes with Distances and Losses	7	COSTAL RING and WEST GODAVARI	COSTAL RING and WEST GODAVARI has some link missing the exact loss.Please check and give.	Wherever exact losses are mentioned, take 0.3 db/Km loss along with extra 3db margin
15	<Corrigendum3_DWDM.pdf>	Annexure I - APSFL District Nodes with Distances and Losses	/	General	Many link has the same distance but different loss. As per our understand, we will design as per the largest loss instead of considering different links.	Wherever exact losses are mentioned, take 0.3 db/Km loss along with extra 3db margin
16	<Corrigendum3_DWDM.pdf>	Annexure I - APSFL District Nodes with Distances and Losses	/	General	Zonal ring and state ring is the different layer, the same relationship as Metro and Collector/NLD. Data will aggregate in DHQ site in zonal ring and then access state ring. In network design, they will be seperated network..... 1 state ring and 12 zonal ring. So totally 13 networks. And 400 line rate in state ring and 200G line rate in zonal ring.	Clause is clear

17	<APSFL Clarifications_D WDM.pdf>	26	2	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.	We consider NOC sites are NOC1 and NOC2 for network management equipment, 10Mbit rate is enough for monitor path . Why proposed 100G? if there is any other service need to transmission from DHQ to NOC 1 and NOC2, please clarify the exact service matrix in attached excel.	Clause is clear
18	<APSFL Clarifications_D WDM.pdf>	18	2	General	We consider line side rate : 200G on State ring and 100G rate on Zonal ring, if wrong please give give the right rate on line side , or we can propose the best solution for line side rate according to the access service.	Clause is clear. 400G OTN capacity in state ring and 200G OTN capacity in zonal ring.
19	<Corrigendum3_DWDM.pdf>	/	/	General	Please fill in the service matrix as the attachment excel <Service Matrix.xlsx>.	Service matrix will only be provided to selected bidder during design phase.
20	<Corrigendum3_DWDM.pdf>	Annexure I - APSFL District Nodes with Distances and Losses	4	Visakhapatnam	Please confirm NOC1 is NOC-DHQ site and NOC2 is" Gunter " site	Yes
21	Clarifications 01, Dt: 27.03.2019	SNO 37 &46	3	In New Network there shall be thirteen zonal ring shall be provisioned, those shall be interconnected with neighboring zonal ring nodes. & 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	As per clarification 01 Zonal to zonal interconnectivity with 100G need to plan with neighboring zonal ring. Span losses shared by APSFL as per annexure -II (APSFL ZONAL Nodes along with span losses) not having any such Zonal interconnectivity details. Span losses as per annexure contains span losses specific to individual Zonal ring. Request APSFL to share missing span losses so that we can design the network as per actual network topology.	Wherever exact losses are mentioned, take 0.3 db/Km loss along with extra 3db margin. Wherever exact distance is not mentioned, it is to be take as 80 Km.
22	Corrigendum 03 Dt:27.03.2019	4 PreQualification Criteria :Sno4		The bidder/any consortium member should have at least three OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references	The bidder/any consortium member should have at least one OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references	Refer corrigendum
23	Corrigendum 03 Dt:27.03.2019	3.2 Technical Requirement Temperature requirements		Zonal 65 degrees	We suggest that it should be the same as District 45 degrees as 100G/200G transmission require temperature controlled close environment	Refer corrigendum
24	4	S.No.2	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 understand Bidder/ consortium member can be a group company of OEM in India which have 3 references as required in India & the OEM can have global OTN ASON based references . Please confirm	Clause is clear

25	4	4	19	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 be in Profit in each of last 3 financial years (FY15-16,16-17&17-18)	No change
26	4	4	19	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.(FY15-16,16-17&17-18)	No change
27	4	4	19	Pre-Qualification Criteria ( New Clause Addition )	We understand these project should be handled by OEM who have experience in India for handling such projects & are well versed with India Market ,So kindly add that the OEM or its group company should have presence in India for more than 15 Years	No change
28	4	4	19	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.	Refer corregrndum
29	4	4	19	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 provide long term 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.	No change
30	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 consider PBG submission in 2 parts (in line with the other PSUs) as: 1) Implementation PBG: 5% of the PO value with the validity till 'Project Go-live'. PBG to be initially issued for 6 month with provision of extension/s if Go-live is delayed. PBG shall be released after Go-live and submission of Maintaince PBG. 2) Maintainance PBG: 5% of the PO value to be submitted at the time of start of warranty. PBG may initially be issued for 3 years and shall be renewed and maintained by the SI for the remaining term of the resultant Agreement, and extension if any.	No change

31	7. Instructions to the Bidder	7.10 Bid Prices	24	<p>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.</p> <p>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.</p>	<p>1) RFP is silent in defining 'Minor revision'. We request to define and quantify the 'minor revision'.</p> <p>2) We request to define /cap the deviation as RFP is silent on quantifying 'any deviation has a major impact on the Project Cost'.</p> <p>3) We request to clarify that deviation if any is applicable only for product supply.</p> <p>4) 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.</p>	As bidder have to propose end-to-end solution it is bidder responsibility to carry out revisions within proposed prices
32	7. Instructions to the Bidder	7.32 Liquidated Damages	29	<p>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.</p>	<p>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</p> <p>2) Kindly clarify 'deemed late delivered'</p>	No change
33	7.33 Termination of Contract	Termination for Convenience	30	<p>..... On termination, the successful Bidder is not entitled to any compensation whatsoever</p>	<p>We request to reconsider rephrasing 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, 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.</p>	No change

34	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	a. Page 17 , clarification 254, Clause 7.24 states 6 weeks delivery at designated locations, Page 12, clarification 188, clause 7.24 states 2 months delivery at warehouse , please clarify	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
35	7.25	Delivery & Documents	27	Successful bidder should maintain adequate spares to support at least 10% of equipment supplied as part of this RFP.	We understand minimum 2% spares are to be incorporated in the proposal, so the same need to be quoted in the BoQ and in that case APSFL shall be the owner for spares	Clause is clear
36	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:	We understand APSFL asked spares to be maintained in every district, which means at 13 locations. We understand that total 2% spares are to be supplied & the same 2% are to be bifurcated in 13 locations Please confirm	Yes
37	2	2	11		It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer corrigendum
38	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 clarify, in Corrigendum 03, Dt:27.03.2019, Total 12 Zonal Ring is mentioned. Please provide detail about thirteen (13th) zonal ring sites detail  It is requested to provide, Interconnectivity detail with neighboring zones (Fiber Length & Loss) and interconnecting zonal sites names.	Refer corrigendum
39	2	Introduction	11	Diagram 1	Please clarify, in Corrigendum 03, Dt:27.03.2019, Total 12 Zonal Ring is mentioned. Please provide detail about thirteen (13th) zonal ring sites detail  It is requested to provide, Interconnectivity detail with neighboring zones (Fiber Length & Loss) and interconnecting zonal sites names.	Refer corrigendum
40	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	It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer Corrigendum
41	2	Introduction	11	Diagram 2	It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer Corrigendum

42	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	It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer Corregendum
43	2	2	11	Introduction	It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer Corregendum
44		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, in Corrigendum 03, Dt:27.03.2019, Total 12 Zonal Ring is mentioned. Please provide detail about thirteen (13th) zonal ring sites detail  It is requested to provide, Interconnectivity detail with neighboring zones (Fiber Length & Loss) and interconnecting zonal sites names.	Remaining will be finalized at the design phase. Consider standard 80Km distances and 0.3db/Km losses
45		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	It is Requested to modify the clause as, 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.	No change
46		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	It is Requested to modify the clause as, 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.	No change
47	2	2	12		Please clarify, in Corrigendum 03, Dt:27.03.2019, Total 12 Zonal Ring is mentioned. Please provide detail about thirteen (13th) zonal ring sites detail  It is requested to provide, Interconnectivity detail with neighboring zones (Fiber Length & Loss) and interconnecting zonal sites names.	Remaining will be finalized at the design phase. Consider standard 80Km distances and 0.3db/Km losses
48	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.	It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer Corregendum
49	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.	It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer Corregendum

50	3.2	Technical Requirements/ 3.2.1 General Requirements// 4	14	The equipment should implement synchronous multiplexing at ODUk/VC level and Ethernet synchronous.	Please clarify the meaning of the clarification is, Unified XC architecture should have ODUk and packet cross connect with support of Universal line card for multi-services carrier of maximum bandwidth efficiency.	No change
51	3.2.1	22	14	The 100G line card shall support any mixture of ODUk (K=0,1,2,2e,3,4) granular multiplexing into ODU4.	Request you to modify clause as, Unified XC architecture should have ODUk and packet cross connect with support of Universal line card for multi-services carrier of maximum bandwidth efficiency.	clause is clear
52	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 privilege provided to him from the central NOC/NMS.	Clause is clear
53	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.	It is Requested to modify the clause as, 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.	Refer corrigendum
54	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.	It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer Corrigendum
55		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.	It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer Corrigendum
56	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.	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 privilege provided to him from the central NOC/NMS.	clause is clear

57	3.2	3.2.6	17	ASON/WSON should support the 96ch system	Please clarify, as nothing is mentioned in the Corrigendum 03, Dt:27.03.2019. 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 corrigendum. Minimum 80ch system to be considered.
58		General		Client interface rate, count & type is required at District and Core node	It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer corrigendum
59		General		Client interface rate, count & type is required at District and Core node	It is Requested to provide detail, For L2 packet Services how many ports required separately for 1G & 10G services. For DHQ to Primary and Secondary NOC, also please clarify how many L1 & L2 Services (no. of Ports).	Refer corrigendum
60		General			As per the shared sites detail (zpnal Level) only 47 Zonal Sites are given only but in price quotation customer is asking for 52 zonal sites price & Fiber detail (distance, loss and connectivity sites in between Zonal Nodes) is also missing. Please provide complete details and provide information is there any OLA require in between Zonal ring connectivity.	Remaining will be finalized at the design phase. Consider standard 80Km distances and 0.3db/Km losses
61		General			It is requested to provide (for SL No. 5 & 6) how many SFP require for L1 Services and How many Require for L2 Services	Port requirements already mentioned in last clarifications. SFPs as per ordered SOR.
62					Date extension till 7th May	Refer corrigendum
63	Corrigendum 3	S NO 4	1	The bidder/any consortium member should have at least three OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references.	As the bidder shall be taking complete responsibility for the execution and maintenance of the project, we kindly request you to modify the clause as: "The OEM should have at least three OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references."	No change
64	Corrigendum 3	S NO 7	2	Payment Terms	We understand that the 100% payment made as per the terms mentioned in the revised payment terms clause includes the payment for AMC for the project as well. Kindly confirm.	Refer Corrigendum
65	Corrigendum 3	S NO 7	2	Payment Terms	We kindly request you to provide 10% of the Contract Value as mobilization advance against submission of a Bank Guarantee of equivalent amount.	No change
66	Corrigendum 3	S NO 7	2	Payment Terms	We also request you to release the last 10% of the payment upon Go Live against submission of a Bank Guarantee of equivalent amount which shall be valid for 6 months from the date of Go Live.	No change

67	Clarification 1, S No 254	Clarification 1	Page 17 of 20	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.	The delivery timeline of 6 weeks mentioned here is in contrast to a timeline of 2 months as mentioned in Clarification 1, S No 188. We kindly request you to increase the timeliene of delivery to 4 months considering the fact that the lead time of the OEMs for delivery is a minimum of weeks.	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
68	Clarification 1, S No 188	Clarification 1	Page 12 of 20	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.	We understand that the existing timeline for delivery is 2 months. We kindly request you to increase the timeliene of delivery to 4 months.	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
69	7.24	7.24	27	The Successful Bidder shall complete the deliver the work order within in 6 weeks and complete the implementation within 2 months after delivery	1. We understand that the zero date for the SI for delivery would start after the day of contract signing with APSFL. Kindly confirm. 2. As there is dependency on existing APSFL network elements for the completion of implementation, we also request to modify the timelines for implementation to be within 5 months after delivery	1. Yes 2. No change
70	8.1	8.1	40	Unit Rate shall include all duties, levies, insurance, transport and other charges excluding Taxes	We understand that total price asked as per the price schedule (page 40, 8.14 , price bid form), refers to the total price (not unit rate) including all duties, levies, insurance, transport and other charges excluding Taxes.	Clause is clear
71	8.9	8.9	38	In case of violation of any of the conditions above, I/We understand that I/We are liable to be blacklisted by APSFL for a period of three years.	We request you to kindly remove this blacklisting clause from MAF.	No change
72	7.32	7.32	29	If the delay continues beyond 10 weeks, APSFL may terminate the Agreement.	If the delay happens due to considerable reasons or due to force majeure, we request APSFL to allow a minimum of 45 days time for rectification of any issue. Kindly co nfirm.	Clause is clear
73	7.19	7.19	25	As a condition precedent to execution of the Agreement, the Successful Bidder shall ensure submission of the requisite unconditional irrevocable Bank Guarantee, in the prescribed Format within 15 days of receipt of the LOA as a Performance Bank Guarantee (PBG) for 10% of the Contract Value for the services to be performed under the resultant Agreement.	We understand that PBG shall be submitted to the client within 15 working days from the date of PO . Please confirm	Clause is clear
74	7.1	7.1	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	We understand that as per the price bid form (pg 40, cluase 8.14-price bid form) only the total price needs to be submitted. Reuquest you to kindly confirm or give us a new price schedule as per the clarifications.	Clause is clear

75	7	7.8	24	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.	As the contract date shall start from the date of signing of the MSA, kindly request you to modify this clause as below: The Contract will be valid from the date of signing of the MSA and shall be valid until 5 years from the date of Go Live.	Clause is clear
76	7	7.1	22	5. It must be clearly understood that the Terms and Conditions and specifications are intended to be strictly enforced. No escalation of cost in the Tender by the Bidder will be permitted throughout the period of Agreement or throughout the period of completion of contract whichever is later on account of any reasons whatsoever.	Kindly confirm if the Bidder is entitled to extension of time and increase in contract price for the reasons: a) Change Order b) default by the Authority or its agencies to comply with the obligations of the Authority c) Force Majeure event d) delays caused by the Authority or any of its third party agencies.	Clause is clear
77	7	7.11	24	The Price Bid should clearly indicate the price quoted without any ambiguity / qualifications whatsoever and should include all applicable duties, fees, levies, and other charges as may be applicable in relation to the activities proposed to be carried out. Taxes as applicable shall be paid by APSFL.	We understand that increase in costs towards such duties, levies etc by a change in law entitle the Bidder for reimbursement of the additional costs incurred. Kindly confirm.	Clause is clear
78	7	7.12	24	7.12 Letter of Authorization A letter of Authorization from the Board of Directors / appropriate authority authorizing the Tender submitting authority or a Power of Attorney should be scanned and submitted in the Tender, otherwise the Bids will be summarily rejected.	Please clarify the required Letter of Authorisation in case of a Consortium.	clause is clear
79	7	7.18	25	The EMD of the unsuccessful Bidders will be returned at the expense of the Bidders within a reasonable time consistent with the rules and regulations in this behalf. The EMD amount held by APSFL till it is refunded to the unsuccessful Bidders will not earn any interest thereof	Please confirm that the EMD of unsuccessful bidders shall be returned on the date of issue of LOA to the successful bidder.	Clause is clear
80	7	7.19	26	In case of any delay/ non-submission of PBG, decision of APSFL shall be final & binding on the bidder.	Please remove the underlined words and replace with: "the Parties shall amicably resolve the issues"	Clause is clear

81	7	7.22	26	7.22 Concessions permissible under statutes Bidder, while quoting against this RFP, must take cognizance of all concessions permissible, if any, under the statutes and ensure the same is passed on to the Authority, failing which it will have to bear extra cost. In case Bidder does not avail concessional rates of levies like customs duty, excise duty, sales tax, etc. APSFL will not take responsibility towards this. However, the Authority may provide necessary assistance, wherever possible, in this regard.	Please clarify whether bidder shall be entitled to seek for additional costs incurred if due to a change in law, the concessions/ exemptions are removed post the submission of the bid.	Clause is clear
82	7	7.24	27	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	Kindly confirm if the Bidder is entitled to extension of time and increase in contract price for the reasons: a) Change Order b) default by the Authority or its agencies to comply with the obligations of the Authority c) Force Majeure event d) delays caused by the Authority or any of its third party agencies.	Clause is clear
83	7	7.26	27	7.26 Third Party Claims The selected bidder shall indemnify APSFL against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.	Notwithstanding the foregoing, bidder will have no liability or obligation for third party infringement allegations or claims hereunder to the extent that the claim of infringement arises from or is based upon (i) unauthorized modifications to the Services, Work, or Deliverables by the Authority, its employees and subcontractors, (ii) Bidder's compliance with Authority's specifications, designs or instructions, but, the Services, Work, or Deliverables are being used by the Client or its representatives in combination with other services, products or materials not furnished or approved in writing by Service Provider, where such combination is the source of the alleged infringement. The indemnitees will give prompt notice of any Claim to the Indemnitor, and allow the Indemnitor to have sole control over the defense/ settlement. Please confirm.	Clause is clear
84				Consortium Agreement	Kindly provide us a format of consortium agreement	Please refer corrigendum
85	7	7.31	29	APSFL will make the payments due for Services rendered till the occurrence of Force Majeure.	We understand that the definition of Force Majeure include all events related to weather & other natural calamities, acts of government, strikes, riots, political unrest and other similar events specific to the project site. Further, the payment obligations shall not be affected by a Force majeure event unless the Commercial dealings in Banks are shut. Kindly confirm.	Clause is clear

86	7	7.33	30	<p>APSFL may without prejudice to any other remedy for breach of contract, by written notice of default with a notice period of 7 days, sent to the Successful Bidder, terminate the contract in whole or part,</p> <p>(i) If the Successful Bidder fails to deliver any or all of the goods within the time period(s) specified in the Contract, or fails to supply the items as per the Delivery Schedule or within any extension thereof granted by APSFL; or</p> <p>(ii) if the Successful Bidder fails to perform any of the obligation(s) under the contract; or</p> <p>(iii) if the Successful Bidder, in the judgement of APSFL, has engaged in fraudulent and corrupt practices in competing for or in executing the Contract.</p>	<p>Please provide for 30 days' cure period and then issue the termination notice as stated in this clause. Further, please provide a clause for termination of the contract by the Bidder in case of default of the Authority. Further, in any event of termination the Bidder shall be entitled for payments towards works done till such date of termination. Please confirm</p>	No change
87	7	7.33	30	<p>Termination for Convenience</p> <p>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.</p>	<p>Please provide for the consequences of termination for convenience as follows:</p> <p>(a) return the Performance Security to the Contractor;</p> <p>(b) pay the Contractor for works performed till such date of termination; and</p> <p>(c) pay to the Contractor the amount of any loss of profit or other loss or damage sustained by the Contractor as a result of this termination.</p>	Clause is clear
88	7	7.34	30	<p>In case of any dispute, the matter will be referred to a Sole Arbitrator to be appointed by the Managing Director of APSFL in accordance with the "Arbitration and Conciliation Act 1996". The arbitration shall be held in Vijayawada, India and the language English only.</p> <p>Subject to the above, the Courts of AP alone only shall have jurisdiction in the matter.</p>	<p>Appointment of sole arbitrator shall be mutually done by both the parties. Further, propose arbitration to be held at Hyderabad or Mumbai for the sake of convenience of arbitrator and parties. Further, please clarify that Arbitration &amp; Conciliation Act 1996 shall be applicable as may be amended/reenacted from time to time.</p>	No change
89	8	8.2 Annexure I – Cover Letter	32	<p>I/We acknowledge the right of the Authority to reject our Proposal without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.</p>	<p>Kindly request to delete the underlined words.</p>	No change

90	8	8.2 Annexure I – Cover Letter	32	4. I/We to the best of our knowledge certify that in the last three years, we or any of our Associates have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Bidder, nor been expelled from any project or contract by any public authority nor have had any contract terminated by any public authority for breach on our part, as finally held by a competent court or arbitral tribunal.	Kindly request to add the underlined words.	No change
91	4	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.	Please clarify whether the consortium of bidders are jointly and severally liable to the Authority. We understand that the BG / security in favor of the Authority shall be furnished by the Leader of the Consortium and the payments shall be made directly to the leader of the consortium.	Clause is clear
92				Extension of time	Does the Contract allow compensation for indirect cost like extended stay? Kindly confirm.	No change
93				Consequential or indirect/ incidental losses.	We understand that consequential losses are excluded from the liability of the Parties. Kindly confirm.	No change
94				Limitation of liability	Is there a cap on the overall contractual liability & is there any adverse conditionality for determination and fixation of the overall liability ? What is the trigger point of the contractual liabilities?	No change
95				Variation/Change Order	Kindly confirm if the authority can order for change/ variation in the tendered quantity and whether the Contractor is entitled to Time and cost compensation in case of variation order.	No change
96				Change In Law	Kindly request to have a provision for reimbursement of additional costs incurred in case of change in the existing legislation or introduction of a new applicable law/ rule.	No change
97	11	Network Diagram	11	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	The Corrigendum shows only 12 District/ DHQ nodes as the name we extract from tender that -Kadapa, Ananthapur, Tirupathi, Eluru, Vijayawada, Guntur, Vijayawada, Kakainada, Eluru, Kurnool, Nellore, Ongole, Visakhapatnam-NOC. Request APSFL to provide information on the remaining One DHQ Nodes.	Refer corrigendum

98	16	The switching capacity currently available should not be less than 3T in the backbone network.	16	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.	Request APSFL to kindly confirm if backbone network mentioned in the clause referred to the District/ State rings with DHQ nodes. And kindly confirm the Zonal OTN node capacity.	Refer corrigendum
99	Corrigendum 03	Temperature requirements	Corrigendum 03	For District: 0-45OC For Zonal: 0-65OC	As per the market research and information collected from different operator, we can conclude that the none of the DWDM OEM/vendors in the industry supports OTN shelf with 0-65OC extended temperature range for 100G or above line cards. Request to kindly modify/amend this requirement.	Refer Corrigendum
100	Corrigendum 03	S NO 4	1	The bidder/any consortium member should have at least three OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references.	As this is the new requirement compare to the clause mentioned in the original RFP document, we request APSFL to kindly consider the press releases as a Global reference as a experience certificate.  The Press release are the public document published in the website and its 100% legit .  Seeing the tender submission timeline we request APSFL to kindly consider the same.	No change
101	Corrigendum 03	S NO 4	Corrigendum 03	The bidder/any consortium member should have at least three OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references.	We Understand that in total 10 network experience reference( 3 from Indian Network operator and 7 from Global Network operator) to be provided as a part of the Pre-Qualification Criteria. Request APSFL to kindly confirm.	Refer corrigendum
102	Corrigendum 03	What should be the Fiber Kms & Loss to be considered for District rings		APSFL District Nodes & Zonal Nodes	The losses provided in the Corrigendum for DHQ links should be used for network planning. Request APSFL to kindly confirm.	Yes...average loss /km to be taken as 0.3 db and the overall link margining should be 3db in addition to the calculated losses.
103	Corrigendum 03	What should be the Fiber Kms & Loss to be considered for Zonal rings		APSFL District Nodes & Zonal Nodes	The losses provided in the Corrigendum for Zonal links should be used for network planning. Request APSFL to kindly confirm.	Yes...average loss /km to be taken as 0.3 db and the overall link margining should be 3db in addition to the calculated losses.
104	Corrigendum 03	Annexure I & II		APSFL District Nodes & Zonal Nodes	Out of 13 DHQ nodes, information for only 11 DHQ nodes are provided in Corrigendum-3. The remaining two DHQ nodes are not depicted/mentioned in the Network Topology Diagram.  Request APSFL to Kindly provide connectivity, distance, losses and intermediate in-line amplifier (ILA) location for these two DHQ nodes.	Clause is clear

105	Corrigendum 03	Annexure I & II		APSFL District Nodes & Zonal Nodes	Request APSFL to kindly confirm the End of Life channel capacity requirement in DHQ and Zonal nodes.	Refer corrigendum
106	Corrigendum 03	Annexure I & II		APSFL District Nodes & Zonal Nodes	Request APSFL to kindly provide the fiber details for Ananthapur, Costal Ring & Vishakhapatnam Districts and their Zonal Network.  Also request APSFL to kindly update the complete network topology and provide it with connectivity for all 13 DHQ nodes	Refer corrigendum
107	Corrigendum 03	Annexure I & II		APSFL District Nodes & Zonal Nodes	In Corrigendum-3 for fiber details for Zonal Network, there are 120 optical links (120 fibers). In case of 13 DHQ nodes each connecting 4 Zonal nodes, there should be 130 optical links. 13 DHQ Nodes x 10 Fibers in each Zonal Ring = 130. Kindly provide information on remaining 10 optical links.	Refer corrigendum
108		General		New Clause proposed - Assignment Clause	In order to have better working capital for the project we propose an Assignment clause as below to be included in the Payment Schedule, which shall allow us to factor the bill with financing institution, and therefore enable us to participate in the Tender. Assignment Clause (new Clause proposed) : “The Contractor shall not, without the express prior written consent of the Employer, assign to any third party the Contract or any part thereof, or any right, benefit, obligation or interest therein or there under, except that the Contractor shall be entitled to assign either absolutely or by way of charge any monies due and payable to it or that may become due and payable to it under the Contract to any Financial Institution(s) or Bank(s) or NBFC(s). In the event the Contractor assigns the monies due and payable to it or that may become due and payable to it, under the Contract, to any Financial Institution(s) or Bank (s) or NBFC(s), the Employer shall acknowledge the intimation letter it may receive from such financial institution(s) or Bank(s) or NBFC (s). If the Employer does not reply within 15 days of the receipt of the intimation letter, it can be considered as “acknowledged by the Employer”. Furthermore the Employer will provide an indicative date by when the funds will be released to the Contractor as a measure of comfort for the decisions of Financial Institution(s) or Bank(s) or NBFC(s)”. This clause will enable improvement in cash flow and hence encourage participation by more bidders.	No change
109	2	Introduction	11	Network Diagram	The Corrigendum shows only 11 District/ DHQ nodes. Request APSFL to provide information on the remaining two DHQ Nodes.	Refer corrigendum

110	3.2.6	Switching Fabric Requirements	16	The switching capacity currently available should not be less than 3T in the backbone network.	Request APSFL to kindly confirm if backbone network mentioned in the clause referred to the District/ State rings with DHQ nodes.	Refer Corregendum
111	3.2	Technical Requirement	Corrigendum 03	Temperature requirements	As per the market research and information collected from different operator, we can conclude that the none of the DWDM OEM/vendors in the industry supports OTN shelf with 0-65OC extended temperature range for 100G or above line cards. Request to kindly modify/amend this requirement.	Refer Corregendum
112		4 Pre-Qualification Criteria S.No. 2	Corrigendum 03		As this is the new requirement compare to the clause mentioned in the original RFP document, we request APSL to kindly consider the press releases as a Global reference as a experience certificate.  The Press release are the document published in the website and its 100% legit .  Seeing the tender submission timeline we request APSL to kindly consider the same.	No change
113		4 Pre-Qualification Criteria S.No. 2	Corrigendum 03		We Understand that in total 10 network experience reference (3 from Indian Network operator and 7 from Global Network operator) to be provided as a part of the Pre-Qualification Criteria. Request APSFL to kindly confirm.	Refer corrigendum
114		General	Corrigendum 03	What should be the Fiber Kms & Loss to be considered for District rings	The losses provided in the Corrigendum for DHQ links should be used for network planning. Request APSFL to kindly confirm.	Yes...average loss /km to be taken as 0.3 db and the overall link marging should be 3db in addition to the calculated losses.
115		General	Corrigendum 03	What should be the Fiber Kms & Loss to be considered for Zonal rings	The losses provided in the Corrigendum for Zonal links should be used for network planning. Request APSFL to kindly confirm.	Yes...average loss /km to be taken as 0.3 db and the overall link marging should be 3db in addition to the calculated losses.
116		Annexure I - APSFL District Nodes with Distances and Losses	Corrigendum 03		Out of 13 DHQ nodes, information for only 11 DHQ nodes are provided in Corrigendum-3. The remaining two DHQ nodes are not depicted/mentioned in the Network Topology Diagram.  Request APSFL to Kindly provide connectivity, distance, losses and intermediate in-line amplifier (ILA) location for these two DHQ nodes.	Clause is clear
117		General			Request APSFL to kindly confirm the End of Life channel capacity requirement in DHQ and Zonal nodes.	Refer Corregendum

118		General	Corrigendum 03		Request APSFL to kindly provide the fiber details for Ananthapur, Costal Ring & Vishakhapatnam Districts and their Zonal Network.  Also request APSFL to kindly update the complete network topology and provide it with connectivity for all 13 DHQ nodes	Refer Corregendum
119		General	Corrigendum 03		In Corrigendum-3 for fiber details for Zonal Network, there are 120 optical links (120 fibers). In case of 13 DHQ nodes each connecting 4 Zonal nodes, there should be 130 optical links. 13 DHQ Nodes x 10 Fibers in each Zonal Ring = 130. Kindly provide information on remaining 10 optical links.	The exact distances will be finalized at the time of design for the two new district spans
120	3.1	Functional Requirements	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.	Request APSFL to update whether 200G OTN capacity is required within Zonal Ring only or is it also required between Zonal to Zonal connectivity across two Zonal rings of different Districts as well.	It is for zonal to zonal connectivity between districts also
121		Annexure II - APSFL ZONAL Nodes along with Span Losses	Corrigendum 03		Some fiber losses are marked as N/A in Zonal Ring. Request APSFL to provide the pending finer losses.	Need to take standard losses of 0.3db/km for these spans.
122		Clarification - Sr no. 141		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.	The overall non-blocking capacity (combination of OTN and Lambda Switching) should not be less than 5T	The overall non-blocking capacity (combination of OTN and Lambda Switching) should not be less than 5T at both DHQ and Zonal nodes
123		Clarification - Sr no. 7		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	Update the district diagram to include districts Srikakulam and Vizianagaram. And provide distances for Vizag to Vizianagaram, Vizianagaram to Srikakulam and Srikakulam to Kakinada	Distances will be mentioned at the time of design for these. Bidder need to take standard distance of 80Km for the spans where distances are not mentioned
124				New clarification	At zonal nodes, can we still propose distributed OTN XC with a muxponder (AR-XPE) for STM1/4/16/GE traffic	No change
125		RFP Annex IV Price Bid		Annex IV - Price Bid SFP pluggable section	Request you to remove requirement to have 40km and 80km reach support for STM-64 and 10GE LAN.	Refer Corregendum

126		Corrigendum 3		The bidder/any consortium member should have at least three OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references.	The bidder/any consortium member/OEM should have at least Ten Global DWDM/OTN WSON/ASON Based references.	Refer Corregendum. "The bidder or OEM or consortium member should have at least one OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references"
127	Clarification pdf	row#98,107	7	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.	Kindly remove FE, ESCON, FICON, SDI, FDDI are not supported as either these are very old technologies or propriety one.	Refer Corregendum
128	RFP_DWDM_VF , General requirement	3.2.1.24	15	For the 100G OTN switch function, traffic should be groomed either by cross connection cards/cross connect on OTN card, and backplane, should not by bridge/auxiliary cards or external pigtails.	Since our architecture is leaf and spine, we have fabric in one unit and actual ports on another unit. Our solution has cable between Interface Shelf & Fabric Shelf to ensure we can scale very high number of ports in our solution. Kindly remove this caluse as our architecture is different and very scalable.	No change
129	4 - PreQualification Criteria :Sno4	03 Dt: 27.03.2019	4 PreQualification Criteria :Sno4	The bidder/any consortium member should have at least three OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references	The bidder or OEM or consortium member should have at least one OTN ASON based DWDM/OTN Indian network references & Ten Global OTN ASON Based references	Refer Corregendum
130	3.2 -Technical Requirement Temperature requirements	03 Dt: 27.03.2019	3.2 Technical Requirement - Temperature requirements	Zonal 65 degrees	As 100G/200G transmission require temperature controlled close environment hence temperature Reuirement should be the same as that of District.	Refer Corregendum