Clarification No. 1 dated 23/11/2026 to the Bidding Documents of Package-C1: DWDM Equipment Package under 'Augmentation of Telecom Backbone Network and associated infrastructure Project'; Spec. No. CC/NT/W-TELE/DOM/A01/26/12493					
Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
1	Volume-II	6.8 Technical Specification_Package-C1.pdf	The Transponder/ Muxponder (or coherent pluggable) shall be able to support flexible line rates i.e. line rates higher than the rates in offered solution. Example: Example: If the Transponder is configured @ 400G line rate in the solution, the same can also be configured @ 400G to 1200G with step value of 100G. Further, bidders need to specify the used baud rate for each line rate. The bidder must quote the license cost on a per-100G basis for line rate configuration. For example: A single port has a line rate of 400G. To enable this, four 100G licenses are required (4 × 100G). Thus: Port capacity: 400G License unit: 100G Licenses needed: 4 PowerTel can scale the line rate in increments of 100G by purchasing additional licenses. Using the per-100G license cost, the line rate can be extended to 500G, 600G, 700G, 800G, 900G, 1000G, 1100G, and 1200G.	Request to PowerTel please also allow line rate increment as 100G/200G.	Refer S.No.6 of Amendment- 1
2	Volume-II	6.15 l Technical Specification_Package-C1.pdf	Sub-rack/Chassis for Electrical layer & Optical Layer Sub-rack/ Chassis shall support redundant power modules, fan modules and shelf controller modules	We understand that sub-rack/chassis shall have redundant shelf controller module at ILA location as well. Please confirm.	Provision of Bidding document is amply clear
3	Volume-II	6.16 ii Technical Specification_Package-C1.pdf	Transponder/ Muxponder All Transponder/ Muxponder shall have minimum 1x400G+4x100G client ports.	We understand clause is asking "transponder module" must have client interface in the form of 100G/400G of equal capacity to Line interface and PGCIL is free to ask 100G/400G client interface as per their requirement. Please confirm.	Provision of Bidding document is amply clear
4	Volume-II	6.16 iii Technical Specification_Package-C1.pdf	Traffic module shall provide full support for Dense Wavelength Division Multiplexing (DWDM) transponding and muxponding functions. It shall be designed to operate independently of the end-use application, ensuring agnostic compatibility across deployment scenarios including, but not limited to, metro networks and backbone infrastructure. Also, Tranponder/Muxponder offered in metro and backbone network must be interoperable(Line side of both module must able to communicate with each other)	Here we understand, PowerTel intent to avoid standard or low-power ZR/ZR+ Coherent line optics in Backbone and intracity network. Please confirm.	Provision of Bidding document is amply clear The Metro and Backbone module shall be interoperable. The line-side interfaces & line rate of the respective modules shall be capable of communicating with each other, irrespective of whether the modules are of the same type or different types.
5	Volume-II	6.16 vi Technical Specification_Package-C1.pdf	In case, the Transponder/ Muxponder has more than one (01) no of 400G client ports and all of the ports are used to deliver the 400G client services, the Transponder/ Muxponder shall have sufficient 100G client ports equivalent to the capacity delivered using 400G client ports. PowerTel reserve the right to use either client 400G or client 100G against the line capacity offered by the bidder.	We understand clause is asking "transponder module" must have client interface in the form of 100G/400G of equal capacity to Line interface and PGCIL is free to ask 100G/400G client interface as per their requirement. Please confirm.	Provision of Bidding document is amply clear
6	Volume-II	6.28 Technical Specification_Package-C1.pdf	The proposed system shall support third-party optics (MSA Compliant) at the client side with no cost to PowerTel. Bidder can propose fully compatible third party optics.	Here we understand, PGCIL is asking no vendor lock-in for the client optics. Please clarify.	Provision of Bidding document is amply clear
7	Volume-II	6.30 v Technical Specification_Package-C1.pdf	ADD/DROP Structure : Colorless directionless contention less: Shall be inserted in Separate sub-rack.(Not with optical modules such as ROADM, amplfiers etc and electrical module)	Here CDC drop structure requirement for metro network looks fine. In case of Backbone network, CDC implementation will limit drop capacity as 32T for all the directions. Where as if we make this architecture as colourless directional by using R&S ROADMs, we can enable drop capacity as 32T in each direction thereby enhancing the node capacity multiple times. Request to incorporate the same for backbone network.	Provision of Bidding document is amply clear
8	Volume-II	17 Technical Specification_Package-C1.pdf	Annual Maintenance Services The scope of work under maintenance services includes management & assisted operations, support services, preventive maintenance and breakdown/curative maintenance including spare management, repair/replacement of all the equipment/modules/cards and other hardware & software etc. being supplied under this Package. The Bidder shall provide software updates for all supplied equipment complying with NCCS guidelines during the AMC, as applicable.	We understand that if modules/cards/SFP/CFP declare non repairable during AMC due to high power, power fluctuation, water seepage, physical damage or any force majeure reason, ADR will be not applicable for the same	Provision of Bidding document is amply clear
9	Volume-II	19.2 Technical Specification_Package-C1.pdf	The 400G Ethernet Tester shall be a modular platform with field- replaceable 400G & 100G interface modules & shall support coherent optical transceivers, including 100G ZR and 100G ZR+ pluggables (QSFP28 form factor).The solution shall support generation, analysis, and validation of coherent optical Ethernet interfaces operating over DWDM metro and long-haul fiber networks. The tester shall support end-to-end performance validation, beyond traditional client-side Ethernet testing, suitable for router-to-router and transport network deployments	Based on the high-speed Ethernet market trend, most of the Available 400G tester are upgradable to 800G with no hardware changes, this ensures investment protection and readiness for future high-bandwidth network requirements., therefore proposed tester shall be upgradeable to 800G testing.	Provision of Bidding document is amply clear
10	Volume-II	19.2 V Technical Specification_Package-C1.pdf	Optical Time Domain Reflectometer (OTDR) Dynamic Range: a) >46dB at 1310nm b) >45dB at 1550nm	We understand the Dynamic Range requirement to be at least 46 dB @ 1310 nm and at least 45 dB @ 1550 nm. offered value meeting or exceeding these limits shall be considered. Please confirm.	Refer S.No. 10 of Amendment- 1

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
11	Volume-II	19.3 I Technical Specification_Package-C1.pdf	Fibre Probe Inspect Patch cords, bulkheads and Connectors	Please define type of connectors to be inspect, we understand it should be SC-UPC (Patchord and Bulhead) , LC-UPC (Patchord and Bulkhead) , FC-UPC (Patchord and Bulkhead)	Details will be shared with the Contractor after contract award during the detailed engineering stage.
12			***Queries in Appendix-C***	Table_C1_route_Backbone_Part-1 1.In NLD network, for the Delhi-Mumbai circuits/route. Padghe node is common in both the routes (single point of failure). Its looks there should be one more link from "Boiser to Mumbai. 2.ILA335 node is repeated in topology, one as ILA and other one is 3D-ROADM, so need clarity remains two different nodes or can be merge as single node as 4D ROADM node. 3.There is one connectivity from ILA335 to ILA578 where loss and distance is missing. 4.Fibre span between Hyderabad to N'Sagar loss and distance is not available, so please provide. 5.Link between Birpara to Alipurduar loss and distance is not available. 6.Silliguri and Binagudi nodes are part of both the network, so we must consider two different nodes or common for both the networks (Part-1 and Part-2), and how traffic will be handover from "Part-1 network to Part-2 network". 7.In the backbone traffic matrix, there are two services "Chennai to Guwahati and Mumbai to Guwahati". Both the services are part of network 1 and2. In network part-2 both the paths to reach at Guwahati go via Bongaigaon there is no other connectivity. Hence, Bongaigaon is part of both the paths main as well as protection for this service. 8.Delhi to Imphal as per traffic matrix 0.5T traffic to be carry, which is distributed in both the bands "C as well as L" 400G and 100G respectively. But as per tender condition minimum line rate should be 400G, so please allow to carry this traffic via C-Band only. 9. In traffic matrix client interfaces are mentioned and client optics are also part of the BoQ, so need clarification both the client optics will be part of the BoQ or only BoQ client optics to be quoted. 10.In the metro network connectivity/topology chassis type is mentioned. In the Beta network topology having 13 nodes however AC/DC type detail is given for the 11 locations only, please clarify type of power supply in rest two nodes. 11.In the metro network connectivity/topology chassis type is mentioned. In the Gamma network topology having 12 nodes however AC/DC type detail is given for the 11 locations only, please clarify type of power supply in rest two nodes. 12.Delhi to Imphal total bandwidth requirement is 500G, and as per traffic matrix 100G is asked on L-Band. Min. bandwidth per lambda is 400G so can we carry traffic from Delhi to Imphal on single lambda of C-Band. Please confirm.	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
13	Vol-II	6.15.iv Technical Specification_Package-C1	Backbone: Maximum permissible size Equipment shall fit in ETSI Rack 2200mm (Height) x 600mm (Width) x 600mm (Depth)	The proposed equipment Depth is 600mm, such equipments can be fit in racks with higher depth, request to allow the OEM to use the same specifications of Metro Rack (Metro: Maximum permissible size Equipment shall fit in ETSI Rack 2200mm (Height) x 600mm (Width) x 800mm (Depth)) for Backbone as well.	Refer S.No. 1 of Amendment-1
14	Vol-II	6.16.iii Technical Specification_Package-C1	Traffic module shall provide full support for Dense Wavelength Division Multiplexing (DWDM) transponding and muxponding functions. It shall be designed to operate independently of the end-use application, ensuring agnostic compatibility across deployment scenarios including, but not limited to, metro networks and backbone infrastructure. Also, Tranponder/Muxponder offered in mtero and backbone network must be interoperable(Line side of both module must able to communicate with each other)	Request you to clarify whether Metro and Backbone transponders has to be same or we can use different cards	Provision of Bidding document is amply clear The Metro and Backbone module shall be interoperable. The line-side interfaces & line rate of the respective modules shall be capable of communicating with each other, irrespective of whether the modules are of the same type or different types.
15	Vol-II	6.17.v Technical Specification_Package-C1	System shall support Integrated ASE (Amplified Spontaneous Emission) for smooth channel addition with predictable performance from day 1 for both C-Band and L-Band.	The New Generation Products / Solution doesn't require ASE Support for C+L band network deployments. Request to make this feature as Optional requirement as per the Capabilities of the OEM. This also helps to optimize the costing.	Refer S.No. 2 of Amendment-1
16	Vol-II	6.18 Technical Specification_Package-C1	Protection Type	As per the 13-Schedule-1 BoQ (unpriced) Table_C2_Traffic Matrix_Backbone & Table_C4_ traffic Matrix_Metro, mentioned Main and protection dedicated paths. Do you mean it is like what it is shown in the Diagram like Line side protection. Please confirm whether L0 restoration is required or not.	Line-side 1+1 protection is required in the Backbone Network as per the traffic matrix. However, the Backbone hardware configuration shall be L0-ready from Day 1, including support for a dual-drop architecture. The Metro Network shall be designed with line-side 1+1+R protection based on the L0 WSON architecture.
17	Vol-II	6.18 Technical Specification_Package-C1	Protection Type	Please confirm whether MxN WSS ADD/DROP ROADM Protection is required or not.	Refer S.No. 3 of Amendment-1
18	Vol-II	6.20.ii Technical Specification_Package-C1	The Colorless Channel Mux/ Demux configuration shall support dropping of same channel from minimum 8 directions and provision of dropping of minimum 24 channels.	Request you allow OEMs to use Optimal MxN Coniguration based on Traffic Matrix with 8 Directions with Ch. Add/drop 8 / 12/16/24.	Refer S.No. 3 of Amendment-1
19	Vol-III	13-Schedule-1 BoQ (unpriced)	BackBone Network (for Details ref Appendix C (BoQ)_Table C1 and C2 for Backbone)	Fiber Details - Distnace & Losses are not mentioned for the below Links, Please do provide the details - 1. Hyderabad-N'Sagar 2. Alipurdur-Birpara 3. ILA335-ILA578	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
20	Vol-III	13-Schedule-1 BoQ (unpriced)	BackBone Network (for Details ref Appendix C (BoQ)_Table C1 and C2 for Backbone)	Please correct the fiber details for the link Gamma7-Gamma8 727 Km	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
21	Vol-III	13-Schedule-1 BoQ (unpriced)	Table_C4_ traffic Matrix_Metro	It is noticed that many of the Metro networks are overdimensioned with C+L . There is no need of L Band capacity. Request you to clarify whether "L" band is mandatory in such networks as well.	Provision of Bidding document is amply clear

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Sl. No.	Section	Clause Ref.	Description	Bidder's Queries	Clarification(s)
22	Vol-III	13-Schedule-1 BoQ (unpriced)	Table_C3_Route_Metro - Beta Network	As per the network drawing there are 13 Sies are mentioned. Please provide the Type of Power Source requirement of Site-12 & 13.	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
23	Vol-II	6.29 Technical Specification_Package-C1	System shall support alien wavelength for 3rd party OEM and must support provisioning/ monitoring of optical channel, wherever applicable. The Alien Lambda support shall be available without any additional financial implication to PowerTel.	1. Please confirm the third-party OEM platforms and alien wavelength interfaces to be supported. 2. Request to provide optical specifications of the Line Modules to check for the Optical Design. 3. It is assumed that OLS Suppolier will do Provisioning or Mintoring as Alien Lambda in the OLS. The actual Provisioning & Monitoring of Alien Lambda will be done on its own EMS/NMS Platform. Request to confirm the responsibility for end-to-end performance when the line system and transponder are from different OEMs.	1.Line rates of 100 Gbps or higher shall be supported. Details of the proposed third-party OEM platforms, will be shared with the Contractor after contract award during the detailed engineering stage. 2. Details will be shared with the Contractor after contract award during the detailed engineering stage. 3.The offered DWDM system shall support the provisioning of Alien Channels/OCh channels without any additional financial implication. The system shall also provide optical-layer monitoring and performance monitoring capabilities for all provisioned Alien Channels/OCh channels.
24	Vol-II	12.2.ii Technical Specification_Package-C1	The link shall be tested continuously for a period of 24 hours, covering the equipment under test. In case any link does not meet the performance requirements during the 24-hour period, the cause of the failure shall be investigated, and the test shall be repeated after rectification of the defects.	1) Test will be done for Working path only and stability test only for one OCH. 2) OSNR reports will be provided	The links shall be tested over both the main and protection paths continuously for a period of 24 hours.
25	Vol-II	18.8 Technical Specification_Package-C1	<table><tr><th>Severity Level</th><th>Initial Response* Time</th><th>Action Resolution Time**</th><th>Action</th></tr><tr><td>1</td><td>30 minutes</td><td>1 hour</td><td>An urgent or emergency requiring continuous attention from necessary support staff until system operation is restored – may be by workaround.</td></tr><tr><td>2</td><td>6 hours</td><td>12 Hours</td><td>Attempt to find a solution acceptable to Owner/ Employer (dependent on reproducibility), as quickly as practical or may be by workaround.</td></tr><tr><td>3</td><td>1 days</td><td>5 days</td><td>Evaluation and action plan. Resolution time is dependent on reproducibility, ability to gather data, and Owner/ Employer's prioritisation. Resolution may be by workaround.</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>**Maximum Time **Relaxation can be provided by Operations on case-to-case basis.*	Stanadrd SLA are applicable TL9000 SLA reference SeverityInitial Response[1]SR handling initiationInitial solution/restorationClosure Time Critical30 MinuteImmediate – 24x78Hours14 Days Major30 Minute3Hours – 8x548 Hours30 Days Minor/Standard30 MinuteNext Business Day – 8x5N/A180 Days	Provision of Bidding document is amply clear
26	Vol-II	18.4 Technical Specification_Package-C1	Remote support terms and conditions	1. RA (Remote Access) server procrument responsibilty should be under customer scope 2. RA (Remote Access) server connectivity and VPN should be under customer scope	Provision of Bidding document is amply clear However, the links required for connecting the DCN Hardware will be provided by PowerTel
27	Vol-II	12.3.ii Technical Specification_Package-C1	EndtoEndtestingofchannel(s)fromTMNsystemstodemonstrateproperoperationofchannelsoverthenetwork.OperationshallbecheckedintermsofmonitoringofBER,Packetloss,throughput,latency for Ethernet. End to End testing of services at 400G/100G/10G level.	There is no 10G Client requirement in the Traffic Matrix. Request to Remove the 10G Interface level testing.	End-to-end testing shall be carried out in accordance with the requirements specified in the Contract.
28	Vol-II	17.4 Technical Specification_Package-C1	Spares Management for advance replacement	Inorder to make the uniformity among the Bidders, request you to suggest 1. the Unified Spare Management Locations across the Country. 2. Standardize the % of Spares to be Quoted & Maintained in each Location.	Provision of Bidding document is amply clear
29	Vol-II	Technical Specification_Package-C1	"The Proposed Transponder/Muxponder solution shall also be supported over existing DWDM System by using Alien wavelength."; "System shall support alien wavelength for 3rd party OEM ... without any additional financial implication to PowerTel."	Please provide the Optical Parameters supported by Existing Line System. Also do confirm that the Existing OLS Vendor will check Optical design with Proposed Transponder / Muxponders Optical Parameters before Implementation.	Details will be shared with the Contractor after contract award during the detailed engineering stage.
30	Vol-II	1.2, 1.6, 6.22, 6.28, 6.29 Technical Specification_Package-C1	"integration with the existing NOC/OSS system by providing standard northbound APIs"; "Integration of with existing Telecommunications Management Network (TMN) system software, hardware and firmware with equipment supplied"; northbound "compliant to TMF 814 or any other internationally accepted standard".	Please proivde the Existing OSS System vendor details and make sure the OSS Vendor supports the proposed NBI Protocols & Interfaces.	Details will be shared with the Contractor after contract award during the detailed engineering stage.
31	Vol-II	TS 17.3 (a)(i); TS 17.5 (b)Technical Specification_Package-C1.pdf	"All modules except patch cords shall be considered while calculating Annual Failure Rate. The Annual Failure Rate (%) shall be less than 1%, else penalty will be levied as specified at clause 17."	Kindly confirm that failures, outages, downtime or service impacts directly attributable to site environmental conditions exceeding specified limits, including AC or cooling system failures at PowerTel sites, shall be excluded from Annual Failure Rate calculations, SLA commitments, liquidated damages and warranty/AMC obligations.	Provision of Bidding document is amply clear
32	Volume-II	TS 4.3 Technical Specification_Package-C1.pdf	"The Employer Responsibilities and Obligations... ii Source power at (nominal) -48 volts DC and/or AC power at (nominal) 220 volts, 50 Hz as required by the equipment to be supplied. iii Providing support and access to facilities at the sites. iv Implement the major civil works such as expansion or construction of rooms, trenches necessary for installation of proposed equipment."	Kindly confirm that PowerTel shall provide and maintain adequate environmental infrastructure, including air-conditioning, cooling systems, power supply for such infrastructure and site shelters where applicable, for all project locations throughout the contract duration.	Yes

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
33	Volume-II	TS 18.9 (5) Technical Specification_Package-C1.pdf	"Penalty of Rs 1,00,000/- per incident shall be levied."	Kindly define the terms "incident" and "improper implementation" under this clause. Further confirm that activities performed with PowerTel's prior approval shall be excluded from penalty assessment and consider establishing a reasonable monthly cap on such penalties.	Provision of Bidding document is amply clear
34	Volume-II	TS 17.3 (a)(ii)-(iii); TS 17.6 (v) Technical Specification_Package-C1.pdf	"...reach the PowerTel preferable location within 72 hours." (17.3) and "...within 72 hours from the time of declaration of equipment / module etc as faulty by Contractor / OEM." (17.6 v)	Kindly clarify the triggering event for commencement of the 72-hour replacement timeline and provide a clear definition of "preferred location". Additionally, confirm that delays attributable to customs clearance, regulatory approvals or force majeure events shall be excluded from the timeline calculation.	Provision of Bidding document is amply clear
35	Volume-II	12.2.i Technical Specification_Package-C1.pdf	The commissioning tests verify that communication can be performed over the fiber optic link under test. During this test, BER Test, RFC2544, Y.1564, Switching test etc. shall be made on the fibre optic to verify compliance with designed link performance as per technical specifications mention in the tender. PowerTel reserves the right to include test(s) to check the performance of link(s) in field to its satisfaction or satisfy customer's expectations.	Y.1564 validates Layer 2/Layer 3 Ethernet services and not the DWDM Links. Please remove this test from the Check list.	End to End testing will be performed as per the contract requirement.
36	Vol-III	13-Schedule-1 BoQ (unpriced)	BackBone Network (for Details ref Appendix C (BoQ)_Table C1 and C2 for Backbone)	Please check and confirm the connectivity between sites - 1. ILA335 - ILA578 . ILA335 is repeated twice. 2. ILA-335-ILA105, ILA-Seoni & Wardha-ILA105, ILA-Zodga. ILA105 is repeated in different Links.	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
37	Volume-II	7.5.ix Technical Specification_Package-C1.pdf	The response time for query/command on any operator terminal, local or remote shall be indicated by the vendor. For update on topological information on the terminals, the response time shall be indicated by the vendor. The response time shall be reviewed depending upon total NE load and topology by Employer during testing.	Request you to delete this compliance, as it is very difficutl to provide such numbers, it depends on too many variables (NE load, network load, user actions load, available compute resources, connectivity performance to the server etc.)	Provision of Bidding document is amply clear
38	Volume-II	9.6.i Technical Specification_Package-C1.pdf	Vibration: 60068-2-6	Request you to consider ETSI EN 200 019-2-3	refer S.No. 9 Technical Specification Type test for Environment and Mechanical Tests conducted as per equivalent Indian standards/ international standard shall also be acceptable. However, the technical requirements, performance parameters, and acceptance criteria demonstrated in such test reports shall be equivalent to or more stringent than those specified in the Technical Specifications of this tender.
39	Volume-II	9.6.ii Technical Specification_Package-C1.pdf	Shock: 60068-2-27	Request you to consider ETSI EN 200 019-2-3	refer S.No. 9 Technical Specification Type test for Environment and Mechanical Tests conducted as per equivalent Indian standards/ international standard shall also be acceptable. However, the technical requirements, performance parameters, and acceptance criteria demonstrated in such test reports shall be equivalent to or more stringent than those specified in the Technical Specifications of this tender.
40	Volume-II	9.6.iii Technical Specification_Package-C1.pdf	Free Fall: 60068-2-32	Request you to consider 60068-2-31 which is the correct Test.	refer S.No. 9 Technical Specification Type test for Environment and Mechanical Tests conducted as per equivalent Indian standards/ international standard shall also be acceptable. However, the technical requirements, performance parameters, and acceptance criteria demonstrated in such test reports shall be equivalent to or more stringent than those specified in the Technical Specifications of this tender.
41	Volume-II	6.25.Vii Technical Specification_Package-C1.pdf	Other Equipment/Server related etc.	Need Integration between Other OEMs Management Platform and RBBN Management Platform for Alarm Reporting. Need PGCIL to make sure that other OEM provides the relevant API to RBBN's Management platform.	The relevant API information, including interface specifications required for system integration, shall be shared by PowerTel during the detailed engineering stage.
42	Vol-II	6.17 Technical Specification_Package-C2	WSON Requirement	Can we propose SDN controller based centrally protected solution as a counter proposal to a distributed type protection method?	Refer S.No. 8 of Amendment-1
43	Vol-II	6.18 Technical Specification_Package-C2	1+1 Line-side protection	We belive 1+1 Client protection results in a end-to-end network with a higher availability. Therefore, we strongly recommend 1+1 Client protection for PGCIL network. We do not offer 1+1 Line protection.	Provision of Bidding document is amply clear
44	Vol-II	6.18 Technical Specification_Package-C2	Network Topology for Metro (intra-city) Network	Can we propose R (Restoration) as the protection scheme?	Provision of Bidding document is amply clear Refer Clause 6.33 WSON Technical Specification

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
45	Vol-II	8.1 Technical Specification_Package-C2	"high number of Rack Unit"	Please define "high number"? What is the maximun Rus we can propose without being penalized?	Provision of Bidding document is amply clear
46	Vol-II	BOQ Technical Specification_Package-C2	I(Training) J(Manpower Support) K(Maintenance Service during ...) L(Maintaenance Service after...) in the BOQ	In Stage 1, please advice us on how to complete Appendix-C BoQ for items given in left.	Provision of Bidding document is amply clear
47	Vol-II	Volume II - Technical Specification_Package-C1-Introduction point 1.2	The Proposed Transponder/Muxponder solution shall also be supported over existing DWDM System by using Alien wavelength. The system must be programmable and highly intelligent, robust and based on open architecture.	Kindly confirm that solutions based on coherent pluggable optics integrated with an open optical line system shall be considered compliant, provided all functional, capacity, interoperability, performance, management and protection requirements specified in the tender are fully met.	Provision of Bidding document is amply clear
48	Vol-II	Volume II - Technical Specification_Package-C1-Introduction point 1.5	The bidder is requested to design the DWDM system (C+L Band) with minimum line rate of 400Gbps (single carrier) or more per channel .	The specification stipulates support for a minimum 400 Gbps single-carrier wavelength. Kindly clarify whether solutions delivering equivalent bandwidth through multiple coherently managed carriers, while meeting all performance and interoperability requirements, shall also be considered compliant.	Provision of Bidding document is amply clear
49	Vol-II	Volume II - Technical Specification_Package-C1-Point - 6.16 Transponder/ Muxponder	Traffic module shall provide full support for Dense Wavelength Division Multiplexing (DWDM) transponding and muxponding functions. It shall be designed to operate independently of the end-use application, ensuring agnostic compatibility across deployment scenarios including, but not limited to, metro networks and backbone infrastructure. Also,Tranponder/Muxponder offered in mtero and backbone network must be interoperable(Line side of both module must able to communicate with each other)	Please clarify whether interoperability between Metro and Backbone optical layers may be achieved through standards-based coherent interfaces and open optical protocols, without requiring identical transponder hardware across all network segments.	Provision of Bidding document is amply clear The Metro and Backbone module shall be interoperable. The line-side interfaces & line rate of the respective modules shall be capable of communicating with each other, irrespective of whether the modules are of the same type or different types.
50	Vol-II	Volume II - Technical Specification_Package-C1-Point 6.27	The proposed system shall be managed by a single unified system/Controller with DC & DR (active and standby) for all the active components. Bidder shall also propose Open Controller based Management System for managing system with DC & DR (active and standby). All licenses required for Northbound and Southbound interface (API) should be equipped with offered solution at no additional cost to PowerTel.	Kindly clarify the applicable Recovery Time Objective (RTO) and Recovery Point Objective (RPO) criteria that shall be considered for compliance evaluation.	Provision of Bidding document is amply clear Refer Clause 7.4 TMN Architecture Technical Specification
51	Vol-II	Volume II - Technical Specification_Package-C1-6 Technical Requirement Point - 6.8	PowerTel can scale the line rate in increments of 100G by purchasing additional licenses. Using the per-100G license cost, the line rate can be extended to 500G, 600G, 700G, 800G, 900G, 1000G, 1100G, and 1200G.	The technical specification requires scalability of transponder capacity up to 1.2 Tbps. Kindly confirm whether such scalability may be achieved through software licensing, pluggable upgrades, or coherent optics enhancements without replacement of the base transponder hardware.	Refer S.No. 6 of Amendment- 1
52	Vol-II	Volume II - Technical Specification_Package-C1-6 Technical requirement Point -6.29	System shall support alien wavelength for 3rd party OEM and must support provisioning/ monitoring of optical channel, wherever applicable. The Alien Lambda support shall be available without any additional financial implication to PowerTel.	Please clarify whether alien wavelength interoperability is required only with the Employer's existing deployed optical network infrastructure or whether interoperability demonstration with third-party OEM optical platforms is also required.	1.Line rates of 100 Gbps or higher shall be supported. Details of the proposed third-party OEM platforms, will be shared with the Contractor after contract award during the detailed engineering stage. 2. Details will be shared with the Contractor after contract award during the detailed engineering stage. 3.The offered DWDM system shall support the provisioning of Alien Channels/OCh channels without any additional financial implication. The system shall also provide optical-layer monitoring and performance monitoring capabilities for all provisioned Alien Channels/OCh channels.
53	Vol-II	Volume II - Technical Specification_Package-C1-6- Technical requirement Point 6.37	In case additional quantities, over and above the quantities estimated by the Contractor in BOM are required for successful completion of the scope of work as per Technical Specification, the contractor shall execute additional quantities of these items for which no additional payment shall be made over and above the lumpsum bid price (unless the scope of work is changed by the Employer).	In the event that additional quantities of equipment or materials are required due to variation in actual field conditions or route characteristics not expressly identified in the tender documents, kindly clarify whether such quantities shall be treated as a reimbursable variation or deemed included within the Contractor's scope.	Provision of Bidding document is amply clear
54	Vol-II	15 System Maintenance 15.1 During Defect Liability Period	Theone-year period commencing immediately after Takingover Certificate(ToC)or conditttional Takingover Certificate(ToC) is called the Defect Liability Period. The contractor shal lmaintain the Network as per the conditions specified for AMC.	Kindly clarify whether deployment of dedicated onsite OEM personnel is mandatory during the Defect Liability Period (DLP) and/or the AMC period. If mandatory, please specify the required number of OEM personnel, their minimum qualifications/certifications, deployment locations, and the minimum duration of onsite presence expected during DLP and AMC.	Provision of Bidding document is amply clear

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
55	Vol-II	Volume II - Technical Specification_Package-C1- Point no 17 Annual Maintenance Services (AMC)	Thescopeofworkundermaintenanceservicesincludesmanagement&assistedoperations, supportservices,preventivemaintenanceandbreakdown/curative maintenance including spare management,repair/ replacementofall the equipment/ modules/cards and other hardware&software etc. being supplied under this Package. The Bidder shall provide software updates for all supplied equipment complying with NCCS guidelines during the AMC, as applicable.	Please confirm whether remote technical support from the OEM's global Technical Assistance Center (TAC) shall be considered acceptable. Further, kindly confirm that the requirement for deployment of support personnel during the AMC period may be fulfilled through suitably trained and onsite engineers employed by the bidder organization, with escalation support available from the OEM's TAC and specialist engineering teams, provided all SLA, response time, restoration time, and support obligations specified in the tender are fully met.	Remote access shall be allowed during the project phase only. Following the commissioning of commercial traffic, any remote access (Within India only) by the Contractor shall be subject to prior approval from POWERGRID and through the Remote Access Solution (RAS) implemented under the scope of this Contract.
56	Volume-II	6.8 Technical Specification_Package-C1.pdf	The Transponder/ Muxponder (or coherent pluggable) shall be able to support flexible line rates i.e. line rates higher than the rates in offered solution. Example: Example: If the Transponder is configured @ 400G line rate in the solution, the same can also be configured @ 400G to 1200G with step value of 100G. Further, bidders need to specify the used baud rate for each line rate. The bidder must quote the license cost on a per-100G basis for line rate configuration. For example: A single port has a line rate of 400G. To enable this, four 100G licenses are required (4 × 100G). Thus: Port capacity: 400G License unit: 100G Licenses needed: 4 PowerTel can scale the line rate in increments of 100G by purchasing additional licenses. Using the per-100G license cost, the line rate can be extended to 500G, 600G, 700G, 800G, 900G, 1000G, 1100G, and 1200G.	The primary technical requirement specifies a minimum line rate of 400G, providing OEMs with the flexibility to propose solutions operating at 400G or higher, in accordance with the network requirements. However, Clause 6.8 appears to limit this flexibility by effectively mandating the use of a 1200G-capable module, irrespective of the actual capacity required. As this is a solution-based requirement, we request POWERGRID to retain 400G as the minimum line rate and permit OEMs to propose 400G or higher-capacity solutions based on the network design, traffic requirements, and technical feasibility. This would preserve the intended flexibility, promote technology neutrality, and enable the selection of technically appropriate and commercially optimized solutions without imposing unnecessary capacity or additional costs.	Refer S.No. 6 of Amendment- 1
57	Volume-II	6.1 Technical Specification_Package-C1.pdf	System shall support Integrated ASE (Amplified Spontaneous Emission) for smooth channel addition with predictable performance from day 1 for both C-Band and L-Band.	We understand that POWERGRID's primary objective is to ensure stable and uniform channel power across the C+L band, enabling seamless channel addition, predictable optical performance, and long-term network stability from day one. While integrated ASE noise loading is one established approach to achieving channel power equalization, advancements in optical networking technologies also enable effective power equalization through software-based dynamic power management. Mandating an ASE-based solution may increase CAPEX and OPEX and introduce additional network complexity due to dedicated hardware requirements, maintenance overheads, and potential points of failure. Considering the solution-oriented nature of this requirement and the advancements in optical technologies, we request POWERGRID to permit OEMs to achieve channel power equalization through either ASE noise loading or software-based dynamic power management, provided the proposed solution meets the specified optical performance, channel power uniformity, network stability, and operational requirements across both C- and L-bands. This approach would promote technology neutrality, encourage innovation, and enable OEMs to propose the most technically suitable and commercially optimized solutions without compromising network performance or reliability.	Refer S.No. 2 of Amendment-1
58	Volume-II	6.16 ix Technical Specification_Package-C1.pdf	Bidders are required to offer only higher-performance minimum 400G or higher line coherent modules and shall not allowed to use standard or low-power ZR/ZR+ variants, ensuring adequate reach,optical power, and interoperability.	High-performance, high-power ZR/ZR+ DCO pluggable transceivers are now widely available across the industry and can deliver optical performance comparable to CFP2-DCO solutions. Furthermore, the latest ZR/ZR+ pluggable technologies support line rates of up to 1.6T while meeting the required optical performance and service quality objectives. Considering the solution-oriented nature of this requirement and the advancements in pluggable optical technologies, we request that the use of ZR/ZR+ DCO pluggable transceivers be permitted as an alternative to CFP2-DCO. This would provide OEMs with the flexibility to propose the most suitable, technically compliant, and commercially optimized solution while meeting the specified network performance and service quality requirements.	Refer S.No. 7 of Amendment-1

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
59	Volume-II	6.17 iv Technical Specification_Package-C1.pdf	The platform must support Wavelength switched optical network control plan (distributed) based on ITU-T recommendation G.8080 switching.	We understand that POWERGRID's objective is to ensure reliable and automatic service restoration through an effective control-plane mechanism. This objective can be achieved through either a distributed or a centralized control-plane architecture, depending on the overall network design and solution capabilities. We therefore request POWERGRID to consider both distributed and centralized control-plane architectures, or equivalent solutions, thereby providing OEMs with the flexibility to propose the most appropriate and technically optimized solution while meeting the specified requirements for network reliability, service restoration, and operational efficiency.	Refer S.No. 8 of Amendment-1
60	Volume-II	6.16.iii Technical Specification_Package-C1.pdf	Traffic module shall provide full support for Dense Wavelength Division Multiplexing (DWDM) transponding and muxponding functions. It shall be designed to operate independently of the end-use application, ensuring agnostic compatibility across deployment scenarios including, but not limited to, metro networks and backbone infrastructure. Also, Tranponder/Muxponder offered in mtero and backbone network must be interoperable(Line side of both module must able to communicate with each other)	We understand that line-side interoperability between transponders/muxponders is required when operating within the same optical band and product series. However, different modules may be deployed in metro and backbone networks, provided they maintain the required line-side interoperability and meet the specified technical and performance requirements. Please clarify	Provision of Bidding document is amply clear The Metro and Backbone module shall be interoperable. The line-side interfaces & line rate of the respective modules shall be capable of communicating with each other, irrespective of whether the modules are of the same type or different types.
61	Volume-II	6.31.vTechnical Specification_Package-C1.pdf	ADD/DROP Structure : Colorless directionless contentionless	As per the requirement, 1+1 protection is mandatory. However, since no further direction is available in the network, we request that a ROADM- and fixed Mux/Demux-based solution be permitted for the backbone network. This approach would simplify network design and operations while optimizing overall solution cost and operational efficiency, without compromising the required protection functionality	Provision of Bidding document is amply clear
62	Volume-II	14.5 (i) Technical Specification_Package-C1	The project schedule shall consist of an implementation schedule, a documentation schedule and a training schedule.	The Technical Specification does not contain a separate training clause. Please provide number of batches and number of participants per batch.	Provision of Bidding document is amply clear
63	Volume-II	14.2, 14.3 and 14.4 Technical Specification_Package-C1	14.2 Contractors shall maintain the storage location for equipment at four major cities Delhi (NCR), Bangalore, Kolkata and Mumbai. 14.3 The bidder is responsible to transport equipment within the city and outside city transportation will take care by PowerTel. 14.4 The bidder shall store the equipment if required for maximum 3 months from the date of delivery date at storage location.	Our understanding is: (a) the Contractor will arrange and maintain storage locations (warehouses) in the four cities – Delhi (NCR), Bangalore, Kolkata and Mumbai; (b) the Contractor's scope of transportation is limited to delivery within the same city (from its storage location to the site, or to PowerTel's designated location, within that city); (c) transportation of equipment from the storage city to sites outside that city will be arranged by PowerTel	Provision of Bidding document is amply clear
64	Volume-II	4.3 (iii); 18.4 Technical Specification_Package-C1	4.3 The Employer Responsibilities and Obligations – (iii) Providing support and access to facilities at the sites. 18.4 Remote Support: The Remote Access (RA) to network would be provided only to approved locations abroad through approved location(s) in India. The approval for location(s) would be given by the DoT …	Please confirm that, during the project implementation phase (installation, commissioning, SAT and integration), the Employer will provide remote access to the network elements/NMS for the Contractor's and OEM's technical support team (TAC), through the remote-access arrangement under Clause 18.4, to resolve technical issues. Please also confirm the procedure and timeline for approval of the remote-access location(s), and that any delay in such approval will not be attributed to the Contractor for the purpose of completion time or LD.	Remote access shall be allowed during the project phase only. Following the commissioning of commercial traffic, any remote access (Within India only) by the Contractor shall be subject to prior approval from POWERGRID and through the Remote Access Solution (RAS) implemented under the scope of this Contract.
65	Volume-II	17 (ii); 17.1; 17.1 (iv)-(v) Technical Specification_Package-C1	The scope of work under maintenance services includes management & assisted operations, support services, preventive maintenance and breakdown/curative maintenance including spare management, repair / replacemen to fall the equipment/ modules/cards and other hardware & software etc. being supplied under this Package. The Bidder shall provide software updates for all supplied equipment complying with NCCS guidelines during the AMC, as applicable.	As we understand Bidder will assist PGCILs's L1 team to carry out on site activities. Pls confirm. L1 means 24x7 monitoring of network alarms, logging of faults, first fault isolation, and all physical activities at site: site access, visual checks, replacement of faulty modules with the advance replacement supplied by the Contractor, patch-cord cleaning or replacement, and dispatch of the faulty module. The Contractor shall provide second-level (L2) support through its maintenance engineers and NOC manpower, and third-level (L3) support through the OEM's TAC, on escalation from PowerTel.	Provision of Bidding document is amply clear
66	Volume-II	17.3 (a)(ii) Technical Specification_Package-C1	The advance replacement will be shipped by contractor such that it shall reach the PowerTel preferable location within 72 hours. In case of failure in delivery of advance Replacement Equipment/ Module to site within 72 Hours, the penalty shall be levied as per clause 17.	We request that, for remote and difficult-to-access locations – North-Eastern states, Jammu & Kashmir, Ladakh, hill sites in Himachal Pradesh and Uttarakhand, Andaman & Nicobar, Lakshadweep, border areas and sites requiring permits – the advance-replacement delivery needs to be done at PowerTel's nearest regional store/warehouse within 120 hours be treated as compliance. We also request that delays due to permits/inner-line passes, road closures, weather, non-availability of flights, curfews and site-access restrictions be excluded from the penalty calculation. Please also confirm whether the 72 hours is measured up to the 'PowerTel preferable location' or up to the 'site', as both terms are used in this clause.	Provision of Bidding document is amply clear
67	Volume-II	14.7 (ii); 9.4 (i); 5.2 Technical Specification_Package-C1	14.7 (ii) Subsystems design, manufacture, factory test, type test (if applicable) and functional test. 9.4 (i) The emission, immunity and resistibility requirements for the offered equipment must be as per the latest MTCTE essential requirements. 5.2 Type Test Certificates/ Reports for offered Equipment/ Sub-systems as per specification requirement.	Please confirm that EMI/EMC (emission, immunity and resistibility) test reports issued by an accredited laboratory (NABL or ILAC-MRA accredited), and/or the MTCTE certificate covering the essential requirements, will be accepted as type-test evidence for Clause 9.4 and Clause 5.2, and that repeat EMI/EMC type testing will not be required.	Provision of Bidding document is amply clear

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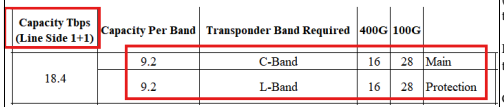
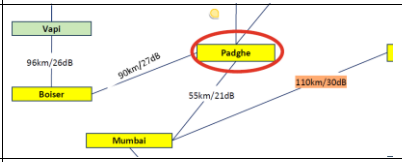
Sl. No.	Section	Clause Ref.	Description	Bidder's Queries	Clarification(s)
68	Volume-II	18.8 (table) Technical Specification_Package-C1	18.8 Response and Resolution Time (Cyber Security incidents): Severity Level 1 – Initial Response Time 30 minutes; Action Resolution Time 1 hour; 'An urgent or emergency requiring continuous attention from necessary support staff until system operation is restored – may be by workaround.'	Please confirm that Clause 18.8 applies only to cyber-security incidents (as stated in the clause) and not to hardware/network faults, which are governed by Clause 17.3. For Severity Level 1, we request that the Action Resolution Time be revised to 4 hours, and that resolution be deemed achieved when service is restored or the threat contained by a workaround (e.g. isolation of the affected element, blocking of the port/service), with root-cause analysis and permanent fix to follow within an agreed time.	Provisions of Clause 18.8 are limited to cyber-security incidents only. Hardware defects, equipment malfunctions, network failures, and other operational issues shall be governed by the relevant SLA and maintenance provisions of the Contract
69	Volume-II	18.9 (3) and 18.9 (6) Technical Specification_Package-C1	18.9 (3) Duration of outages over and above the Action Resolution time in each of the Severity levels shall be counted for the penalty. The resolution may be accomplished by a work around, and such solution shall mark the end of penalty, subject to acceptance by NTCC. 18.9 (6) Severity Level 3: Rs. 10,000/- per Day beyond the resolution time: Subject to Rs 1 Lakh per incident.	As Severity Level 3 issues have no service outage or critical impact on the system (resolution 'dependent on reproducibility, ability to gather data, and Owner/Employer's prioritisation'), we request that the penalty under Clause 18.9(6) not apply to Severity Level 3.	Provision of Bidding document is amply clear
70	Volume-II	6.20 (ii) Technical Specification_Package-C1	The Colorless Channel Mux/ Demux configuration shall support dropping of same channel from minimum 8 directions and provision of dropping of minimum 24 channels.	We kindly request that the minimum channel drop requirement be revised from 24 channels to 16 channels, while retaining the requirement for dropping the same channel from 8 directions. The proposed configuration adequately meets the intended operational and network flexibility objectives while enabling broader compliance with industry-standard solutions.	Refer S.No. 3 of Amendment-1
71	Volume 2	6.31 Technical Specification_Package-C1	Traffic modules and Optical Protection Modules shall be in inserted same sub-rack and not in optical	As we understand main purpose of the asked requirement is to provide L0 DWDM technology and services should be shift in protection within 50 ms. during fiber cut, as L0 DWDM is widly accepted DWDM technology across globe, request to provide flexibility to deploy the Optical Protection Module in a dedicated optical sub-rack, while the Traffic Modules remain deployed in other sub-rack for proper optimization, provided that the overall functionality, protection performance, and operational requirements remain fully compliant with the specification	Refer S.No. 5 of Amendment-1
72	Volume 2	20-iii Technical Specification_Package-C1	Nodes highlighted in yellow represent Add/Drop sites and are the only permissible locations for regeneration and equalization. No other nodes are allowed for these functions. For remaining sites bidder	Could you please confirm whether a yellow-highlighted 2-direction node, which is not being utilized for traffic add/drop, regeneration, or equalization functions, may be deployed as an In-Line Amplifier (ILA) site instead, provided that all network performance and functional requirements specified in the tender are fully met?	The Bidder shall consider all sites as indicated in the network topology. For all sites highlighted in yellow, the required hardware shall be provisioned considering their intended functionality as Regeneration, Equalization, and Add/Drop nodes. Sites which has not utilized shall be provisioned as ROADM nodes without ADD/DROP structure.
73	Volume 2	Technical Specification_Package-C1	System shall support Integrated ASE (Amplified Spontaneous Emission) for smooth channel addition with predictable performance from day 1 for both C-Band and L-Band	Could you please confirm whether a solution based on an intelligent software-controlled power management and control loop mechanism, instead of integrated ASE generation, would be acceptable, provided that all channel addition, power balancing, spectral performance, and network stability requirements are fully met for both C-Band and L-Band operation?	Refer S.No. 2 of Amendment-1
74	Volume 2	Excel - "13-Schedule-1 BoQ (unpriced)" Table_C2_Traffic Matrix_Backbone. Table_C4_Traffic Matrix_Metro.		As per the Traffic Matrix, the total link capacity has been distributed between the C-band (main route) and L-band (protection route). However, based on the 1+1 line protection (OCH Protection) requirement, there is only a single source signal that is duplicated and transmitted simultaneously over the working and protection paths. In this scenario, could you please advise how the traffic should be apportioned between the following paths? C-band Working Path C-band Protection Path L-band Working Path L-band Protection Path	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
75	Volume 2	Excel - "13-Schedule-1 BoQ (unpriced)" Table_C1_Route_Backbone Part1		The Mumbai-Padghe link is common to both the working and protection paths for the Guwahati-Mumbai and Mumbai-RHQ Kolkata routes. As a result, both the working and protection circuits share the same segment, which reduces path diversity and may impact the effectiveness of the protection scheme. Kindly confirm whether an alternative route should be used for these circuits to ensure true path diversity and compliance with the intended protection requirements.	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
76	Volume 2	Excel - "13-Schedule-1 BoQ (unpriced)" Table_C1_Route_Backbone Part1	ILA105 -Repeate	We observed that ILA105 appears twice in the network topology. Kindly confirm whether this is intentional or if one of the references should correspond to a different ILA site	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
77	Volume 2	Excel - "13-Schedule-1 BoQ (unpriced)" Table_C1_Route_Backbone Part1	ILA335-Repeate	We observed that ILA335 appears twice in the network topology. Kindly confirm whether this is intentional or if one of the references should correspond to a different ILA site	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
78	Volume 2	Excel - "13-Schedule-1 BoQ (unpriced)" Table_C1_Route_Backbone Part1	Alipurduar-Birpara	The fiber distance and span loss details for the Alipurduar-Birpara section are missing. Kindly provide the same	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
79	Volume 2	Excel - "13-Schedule-1 BoQ (unpriced)" Table_C1_Route_Backbone Part1	Hyderabad-N'Sagar	The fiber distance and span loss details for the Hyderabad-N'Sagar section are missing. Kindly provide the same	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
80	Volume 2	Excel - "13-Schedule-1 BoQ (unpriced)" Table_C3_Route_Metro	GAMMA 7 - GAMMA 8 Distnace 727km/25dB	The fiber distance and span loss details for the GAMMA 7 - GAMMA 8 section are missing. Kindly provide the same	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
81	Volume 2	Excel - "13-Schedule-1 BoQ (unpriced)" Table_C3_Route_Metro	BETA 12 & BETA 13	Could you please confirm power Supply Module information it is AC or DC, this information not available in Document.	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
82	Volume 2	Excel - "13-Schedule-1 BoQ (unpriced)" Table_C3_Route_Metro	GAMMA 12	Could you please confirm power Supply Module information it is AC or DC, this information not available in Document.	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
83	Volume 2	6.16(iii) Technical Specification_Package-C1	"Transponder/Muxponder offered in metro and backbone network must be interoperable (line side of both modules must be able to communicate with each other)"	Could you please confirm whether it would be acceptable to deploy different optical OT for Metro and NLD (Backbone) networks, with interoperability achieved through standardized client-side handoff interfaces, while ensuring full compliance with the end-to-end service, performance, and network requirements specified in the tender.	Provision of Bidding document is amply clear The Metro and Backbone module shall be interoperable. The line-side interfaces & line rate of the respective modules shall be capable of communicating with each other, irrespective of whether the modules are of the same type or different types.
84	Volume-II	Item I (i) and I (ii) Appendix-C: BoQ for DWDM Equipments (Pkg-C1)	I Training – (i) Expert level Training at Manufacturer's Works: Mandays 100; (ii) Training at Employer's Office: Mandays 100.	In the Appendix C, 100 Man days training is mentioned each for at Manufacture's Work location and at Employer office location. Pls clarify if total training duration to be quoted is 100 Man Days.	Provision of Bidding document is amply clear
85	Volume-II	17.1 (iv) and table; Appendix-C BoQ item J (i) Technical Specification_Package-C1	17.1 (iv): Manpower table – 24x7 Shift Operation: NTCC (DC) 2, SRTCC (DR) 1, Total 3; 'Four (04) Engineers are required per 24x7 Shift Operation'. BoQ J (i): 24x7 Shift Operation (for 36 Man-Month) for 1st Year – 0.0540% as a fixed % of Total Ex-works/CIF price component.	Our understanding is that 3 nos. of 24x7 Shift Operations are required (2 at NTCC (DC) and 1 at SRTCC (DR)), each requiring 4 engineers, i.e. 12 engineers, and that '36 Man-Month' means 3 operations × 12 months. Please confirm. Please also confirm that the charge for the first year is the fixed 0.0540% of the total Ex-works/CIF price component stated in the BoQ (i.e. not to be quoted by the bidder), and whether this percentage is per year or per month.	Provision of Bidding document is amply clear
86	Volume-II	17.1 (iv) and table; Appendix-C BoQ item J (ii) Technical Specification_Package-C1	17.1 (iv): Manpower table – Day Operation: NTCC (DC) 1, SRTCC (DR) 1, ERTCC 1, NRTCC 1, WRTCC 1, Total 5. BoQ J (ii): Day Operation (for 60 Man-Month) for 1st Year – 0.0168% as a fixed % of Total Ex-works/CIF price component.	Our understanding is that 5 engineers are required for Day Operation (one each at NTCC (DC), SRTCC (DR), ERTCC, NRTCC and WRTCC), on general shift (8 hours x 5 days a week), and that '60 Man-Month' means 5 engineers × 12 months. Please confirm the working hours/days for Day Operation, and whether the 0.0168% is per year or per month.	Provision of Bidding document is amply clear
87	Volume-II	17.6 (v); 17.3 (a)(ii) Technical Specification_Package-C1	17.6 (v) The contractor shall ship the advance replacement of faulty equipment/module etc. after formal intimation by PowerTel via Email/Letter to Contractor and it shall reach the PowerTel preferable location within 72 hours from the time of declaration of equipment / module etc as faulty by Contractor / OEM.	Please define 'PowerTel preferable location' as the nearest PowerTel/POWERGRID warehouse, store or regional office to the affected site, from a list to be shared with the bid documents or at contract signing, and provide that list with addresses and 24x7 receiving contacts. Please also confirm that delivery at that location within 72 hours meets the requirement.	Provision of Bidding document is amply clear
88	Vol-II	5.2 Technical Specification_Package-C1	Type Test Certificates/ Reports for offered Equipment/ Sub-systems as per specification requirement	We request to remove the requirement of submission of type test reports if OEM is already submitting the MTCTE certificate for the offered equipments. Kindly confirm	Provision of Bidding document is amply clear
89	Vol-II	5.6 Technical Specification_Package-C2	Trusted Source & Trusted Product Certificates	As there is no certificate issued from Trusted portal regarding products registration, we understand that OEM can submit undertaking on the same and PGCIL nodal officer can verify it by login to trusted portal. Kindly confirm	ok
90	Vol-II	6.15.i Technical Specification_Package-C2	Sub-rack/ Chassis shall support redundant power modules, fan modules and shelf controller modules	Kindly allow electrical layer chassis (housing transponder/muxponders) with Single controller as well if controller modules failure is non service affecting. Pls confirm.	Provision of Bidding document is amply clear
91	Vol-II	6.15.iv Technical Specification_Package-C2	Backbone: Maximum permissible size Equipment shall fit in ETSI Rack 2200mm (Height) x 600mm (Width) x 600mm (Depth)	For Backbone network as well, kindly allow 800mm depth racks or 600mm depth open racks (without doors) to provide a cost optimized solution. Pls confirm	Refer S.No. 1 of Amendment-1
92	Vol-II	6.16.ii Technical Specification_Package-C2	All Transponder/ Muxponder shall have minimum 1x400G+4x100G client ports.	We understand that all Transponder/Muxponder shall support a minimum aggregate client-side capacity equivalent to 1x400G + 4x100G, through fixed or flexible client ports. Kindly confirm	Provision of Bidding document is amply clear

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
93	Vol-II	6.31. v Technical Specification_Package-C2	ADD/DROP Structure : Colorless directionless contentionless --------Shall be inserted in Separate sub-rack.(Not with optical modules such as ROADM, amplfiers etc and electrical module)	Add drop structure is part of optial soluition and is housed in same optical sub-rack as ROADM, amplifier cards etc. as per Industry practice. We suggest PGCIL to kindly allow the same so that bidders can propose space and cost optimized solution. Pls confirm	Provision of Bidding document is amply clear
94	Vol-II	6.34 Technical Specification_Package-C2	OSNR margin of minimum +2dB shall be maintained for all the link in the traffic matrix of Appendix-C till EOL.	We suggest to keep OSNR margin requirement at +1dB EOL which is also very high performance in addiion to EOL fiber repair margins as per Industry pratice so that bidders can propose cost optimized solution. Pls confirm	Provision of Bidding document is amply clear
95	Vol-II	8.2.i Technical Specification_Package-C2	Appendix C_BoQ, Nodes highlighted in yellow represent Add/Drop sites and are the only permissible locations for regeneration and equalization.	We understand yellow highlighted sites with 2 degree can be configured as ILA sites if they are not used as Add/Drop or Regen/equalization. Kindly confirm	The Bidder shall consider all sites as indicated in the network topology. For all sites highlighted in yellow, the required hardware shall be provisioned considering their intended functionality as Regeneration, Equalization, and Add/Drop nodes. Sites which has not utilized shall be provisioned as ROADM nodes without ADD/DROP structure.
96	Vol-III	13-Schedule-1 BoQ (unpriced)	Queries related to Network Topology and Solution Design	1. Pls provide the fiber losses and distances for Hyderabad–S' Nagar section in Backbone Part-1 and the Birpara–Alipurduar section in Backbone Part-2. 2. Mumbai–Padghe path is common for both the working and protection routes for the Delhi–Mumbai, Guwahati–Mumbai, and Mumbai–RHQ Kolkata Traffic sectors. Pls confirm an alternate route for either the working or protection path 3. Bongaigaon site is common to both the working and protection paths for services originating from Guwahati and Imphal. Please confirm if an alternate route should be considered	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
97	Vol-II	3.1	The main Equipment shall comply with 'Mandatory Testing and Certification of Telecom Equipment (MTCTE)' under the provision of Indian Telegraph (Amendment) Rules 2007. Contractor must supply only certified equipment as per MTCTE. Please refer the weblink https://www.mtcte.tec.gov.in for more details	Would like to clarify if the quoted equipment should have MTCTE at the time of bid submisison.	The Contractor shall obtain and maintain valid MTCTE certification and all other applicable type test approvals/certifications as specified in the tender document prior to the supply of the equipment to the Employer.
98	Vol-II	6.6	DWDM offered system must support C+L band DWDM ITU-T grid, flexi-grid ROADM architecture and offered ROADM module must include a "twin" flexible grid WSS for route and select wavelength switching	What is the meaning of the word twin? Bi-directional transmission?	Provision of Bidding document is amply clear A Twin-WSS-based ROADM module employs a Route-and-Select (R&S) architecture, wherein the first Wavelength Selective Switch (WSS) performs wavelength-level routing by directing only the required optical channels toward the designated degree. The second WSS then selectively switches the desired wavelength from the incoming degree to the appropriate add/drop port, enabling efficient wavelength provisioning while minimizing splitter losses and enhancing optical power utilization.
99	Vol-II	6.15	Sub-rack	Can we avoid proposing Sub-racks if we can provide equipment supporting both AC and DC power?	Provision of Bidding document is amply clear
100	Vol-II	6.6	DWDM offered system must support C+L band DWDM ITU-T grid, flexi-grid ROADM architecture and offered ROADM module must include a "twin" flexible grid WSS for route and select wavelength switching	What is the meaning of the word twin? Bi-directional transmission?	Provision of Bidding document is amply clear A Twin-WSS-based ROADM module employs a Route-and-Select (R&S) architecture, wherein the first Wavelength Selective Switch (WSS) performs wavelength-level routing by directing only the required optical channels toward the designated degree. The second WSS then selectively switches the desired wavelength from the incoming degree to the appropriate add/drop port, enabling efficient wavelength provisioning while minimizing splitter losses and enhancing optical power utilization.
101	Vol-II	BOQ	Meaning of "Lot" and basis for spares.	Meaning of "Lot" : Are we required to indicate equipment quantity per each site for all sites in Backbone (C1, C2) and Metro (C3, C4). Is there a basic guideline to quote for spares? (example: x% of the proposed equipment etc.)	Provision of Bidding document is amply clear
102	Vol-II	BOQ	DCN Hardware and Software	Are we required to connect all equipment/sites including ILA sites to existing PGCIL DCN? If so, is it ok if we indicate the quantitis of SFPs and HUB switches only?	Bidder has to offer the DCN Solution(Including Hardware) as per the network.
103	Vol-II	7.7	SDN controller shall support all required interfaces for enabling integration with third party Orchestrator	Need details of precise interfaces supported by Northbound systems Orchestrator, OSS with which SDN controller will have to be integrated with	Provision of Bidding document is amply clear

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
104	Vol-II, TS	3.1	Contractors are advised to submit the necessary certificate(s) along with bid. ... The Taking over Cetificate (TOC) of Network shall be provided to the contractor only after clearance of the Telecom Equipment as 'Trusted Products' from 'Trusted Sources' as per NCSC and submission of MTCTE certificates. These are mandatory compliances	Are these certificates required to be submitted with the 1st stage bid submissiion?	The Contractor shall obtain and maintain valid MTCTE , Trusted sources certification and all other applicable type test approvals/certifications as specified in the tender document prior to the supply of the equipment to the Employer.
105	Sch-1 BoQ	C2, C4	Client interfaces in C2 and C4 add up to 292 x 400G and 476 x 100G per end, so 584 and 952 across both ends, against 542 x 400G and 956 x 100G pluggables in BoQ C.	Per the BoQ vs. traffic matrix, 400G plugs are short by 42. Please check and confirm the correct quantities.	Provision of Bidding document is amply clear
106	Sch-1 BoQ	Tables C3, C4 and metro drawing	Beta has 13 sites in the C4 traffic matrix and drawing but 11 in the C3 power-supply table; Gamma has 12 against 11. Total 66 sites against 63.	Please confirm the site count and AC/DC power requirements for Beta 12-13 and Gamma 12 and provide us with the updated sheet.	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
107	Sch-1 BoQ	Tables C1, C2	ILA_105 and ILA_335 appear twice; ILA_C116 and ILA_C117 are coloured differently without a legend, and one span(Birpara - Alipurduar) has no loss label.	Please provide us with the updated topology and traffic matrix.	Refer S.No. 4 of Amendment- 1: Revised Appendix-C_BoQ
108	Vol.II TS	6.28 & 6.29	Alien wavelength and third-party MSA optics must be supported at no cost.	Please clarify which third-party transponders/systems are in scope. Please confirm that alien-channel performance is outside the Contractor's SLA and penaltie.	Transponders of other OEMs shall be supported as alien channels on the offered DWDM network. The Contractor shall be responsible for optical layer performance, and any optical layer-related degradation, interruption, or failure affecting alien channels shall be considered for SLA compliance and associated penalties.
109	Vol.II TS	7.4.2.i	The main Control Centre (DC) for all the network elements being procured under this package will be located at New Delhi and the backup Control Centre (DR) will be located at Bangalore, however PowerTel reserves the right to change the location of DC and/ or DR as per requirement.	Please confirm whether the Employer provides rack space at both sites OR bidder has to propose new rack. Can the TMN run on the Employer's virtualisation/cloud, or must dedicated servers be supplied?	The Bidder shall offer racks sized and configured in accordance with the proposed solution. All servers necessary for the NMS solution shall be supplied as part of the overall system without any additional cost.
110	Vol.II TS	8.1(ii)	For the purpose of bid evaluation, a cost compensation by an amount of Rs 90,00,000 (Rupees Ninety Lakhs) per Rack shall be considered over and above the least no. of rack space considered in any bid. However, the said amount shall not be the part of the awarded contract value.	Please confirm the minimum number of racks allowed per site, especially in add/drop sites.	Provision of Bidding document is amply clear
111	Vol.II TS	14.2 & 14.4	Contractors shall maintain the storage location for equipment at four major cities Delhi (NCR), Bangalore, Kolkata and Mumbai, and shall store the equipment if required for maximum 3 months from the date of delivery date at storage location.	Please clarify if the storage exceeds 3 months in any of the location.	Provision of Bidding document is amply clear
112	Vol.II TS	17.1(iv)	Manpower table: 3 shift-operation positions (NTCC 2, SRTCC 1) and 5 day-operation positions; 1 position of 24x7 = 4 engineers; engineers must be Indian citizens from the OEM with 3+ years' experience.	1) Please confirm the total headcount (3 x 4 + 5 = 17 engineers) 2) Can these Indian Citizen engineers be OEM certified bidder's employees or should they be the OEM's engineers?	Provision of Bidding document is amply clear
113	Vol.II TS	17.1(i) vs 17.1(vi)	TS 17.1(i) says first-level monitoring is by the Contractor; 17.1(vi) says first level is by the Employer during AMC.	Please confirm who does first-level monitoring in DLP and in AMC, and the resulting role of the 24x7 engineers.	Provision of Bidding document is amply clear
114	Vol.II TS	17.1(v)(t)-(u) vs 18.2(4)	17.1(v)(t)-(u) says PowerTel pays the quoted unit price when workstations/servers are replaced at year 5 or on OS end-of-support. 18.2(4) says EoL/EoS products are replaced at no cost to PowerTel.	Please clarify which clause governs when the OEM drops OS or software support. Who pays for a mandatory refresh?	Provision of Bidding document is amply clear
115	Vol.II TS	17.5(b)	Penalty is 10% to 50% of 'AMC cost of Lot'. The table does not say what happens at exactly 1%, 2%, 3%, 4% or 5%.	Please clarify.	Refer S.No. 9 of Amendment-1
116	Vol.II TS	12.4	First VAPT is due in months 10-12 after Notification of Award and then every year through project, DLP and AMC (second in months 22-24, and so on): 10 or more cycles.	Please confirm where the commercials are to be included for subsequent cycles. The recurring cost is not visible in the BoQ.	The Bidder shall account for the commercials pertaining to subsequent cycles within the bid price.
117	Vol.II TS	10(i)	Functional Tests shall be required to be conducted on all types of Equipment offered under the tender. The comprehensive test plan will be finalized with the successful bidder during detailed engineering.	Please specify the percentage or sample quantity of each equipment type that will be subject to functional testing under this clause.	The detailed Functional Test procedures and acceptance criteria shall be finalized after the award of the Contract, in consultation with the successful Bidder.
118	Vol.II TS	19.3(ix)	Supports Ethernet (L2, L3, RFC2544 & Y1564) and OTN (OTU4/ OTUC4) Line rates for Interface types as specified.	Please confirm what is the meaning of / between OTU4/OTUC4. We are assuming either OTU4 or OTUC4.	ok
119	Vol.II TS	19.2 (v)	Dynamic Range : a) ≥46dB at 1310nm b) ≥45 dB at 1550nm	Request to change 45dB for both wavelengths to allow us to participate in this bid.	Refer S.No. 10 of Amendment-1
120	Vol.II TS	4.2 (iv)	Appointment of Project Manager, Design Engineer from OEM & other resources for successful & timely completion of project.	We understand that: 1) The Project Manager can be from the bidder organization & the Design Engineer should be from the OEM organization. Kindly confirm. 2) The Design Engineer is required only till project completion & handover. Please confirm.	Provision of Bidding document is amply clear
121	Vol-I	3 - Section III BDS ITB 40.1.1.1 and 40.1.1.2	"Quantities proposed by the bidder in its BoQ… shall be halved and 50% of the package shall be awarded to L1 bidder." The remaining 50% is to be awarded to another bidder matching the L1 price, subject to the applicable conditions.	Kindly clarify the methodology that will be adopted for division of scope between the L1 bidder and the bidder receiving the remaining package share. Specifically, please clarify the approach for geographical allocation, network segmentation, DC-DR responsibilities, integration ownership, database synchronisation, licensing responsibilities, failover management and end-to-end network governance to ensure seamless implementation and operation.	PowerTel shall have the sole discretion to assign the scope of work to successful bidders which is including the addition of new Link(s)/Route(s), modification of existing Link(s)/Route(s), or deletion of any Link(s)/Route(s), as deemed necessary to meet operational and project requirements.

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
122	Volume1	3.3 08_Section-IV General COnditions of Contract(GCC)	Replacing Sub-Clause GCC 3.3: '… the Contractor shall ensure the availability of spare parts … for a minimum period of ten (10) years from Operational Acceptance of the Facilities by the Employer. However, in the event that a equipment/component is declared to be withdrawn from production, Contractor shall ensure the availability of spare parts for the supplied items for a minimum period of 5 years from the date of withdrawal from production or 10 years from Operational Acceptance …, whichever is earlier. For balance of the period … Contractor shall ensure that functionally equivalent hardware is available … If Employer chooses to purchase from the Contractor said functionally equivalent hardware, any software modifications … shall be made at no cost to Employer.'	Please confirm that, in the event of obsolescence or discontinuation of any equipment or component by the OEM, the Contractor's shall notify the Employer and offer available equivalent or successor products, if any.	Provision of Bidding document is amply clear
123	Volume-I	Clause 4.0 Section-VI: Sample Forms and Procedures – Form 22 (Joint Deed of Undertaking, Route-III)	We, the OEM and the Bidder/ Contractor agree that this Undertaking shall be irrevocable and shall form an integral part of the Contract and further agree that this Undertaking shall continue to be enforceable till the Employer discharges it. It shall become operative from the effective date of Contract.	We request that Clause 4.0 of Form 22 be amended to read: "We, the OEM and the Bidder/ Contractor agree that this Undertaking shall be irrevocable and shall form an integral part of the Contract and further agree that this Undertaking shall continue to be enforceable till the completion of the Defect Liability Period of the last Lot under the Contract, whereupon it shall stand discharged. It shall become operative from the effective date of Contract."	refer to Revised JDU format
124	Vol-I	Clause 1.0 Sec-VI, Form No. 22 (Joint Deed – Route-III)	"…we, the OEM and the Bidder/Contractor do hereby declare that we shall be jointly and severally bound … and shall be fully responsible for the design, manufacture, testing, supply on FOR destination delivery at site basis and supervision of unloading at site, storage, erection, testing & commissioning and successful performance…"	Please amend to: "…the OEM hereby undertakes to be responsible for the design, manufacture, quality, testing, timely supply and warranty of the DWDM Equipment (400G) supplied by it to the Bidder/Contractor, and for its successful performance in accordance with the Contract Specifications; the Bidder/Contractor shall remain responsible for all other obligations under the Contract, including storage, erection, testing & commissioning."	refer to Revised JDU format
125	Vol-I	Clause 4.0 – duration Sec-VI, Form No. 22 (Joint Deed – Route-III)	Undertaking is irrevocable and continues to be enforceable till the Employer discharges it.	We request that the Joint Deed automatically expire on completion of the Defect Liability Period of the last Lot (with OEM support during AMC being provided through the OEM's back-to-back support commitment to the Contractor), and that the Employer issue a discharge on such date.	refer to Revised JDU format
126	Vol-I	Form 22, Clause 1.0 Sec-VI Form 22; Annex-A (BDS) 2.3.1	Section-VI: Sample Forms and Procedures – Form 22 (Joint Deed of Undertaking to be executed jointly by the Bidder and OEM under Route-III), Clause 1.0 (page 196): "In consideration of the award of Contract by the Employer to the Bidder (hereinafter referred to as the "Contract") we, the OEM and the Bidder/Contractor do hereby declare that we shall be jointly and severally bound unto the M/s POWERGRID Teleservices Limited, for the successful performance of the DWDM Equipment (400G) and shall be fully responsible for the design, manufacture, testing, supply on FOR destination delivery at site basis and supervision of unloading at site, storage, erection, testing & commissioning and successful performance of the DWDM Equipment (400G) in accordance with the Contract Specifications."	We request the Employer to amend Form 22 (Joint Deed of Undertaking – Route-III) as follows: (1) Clause 1.0: replace 'jointly and severally bound' with 'severally bound', the OEM being responsible for the design, manufacture, quality, testing, timely supply, warranty and successful performance of the DWDM Equipment (400G) supplied by it, and the Bidder/Contractor for supervision of unloading at site, storage, erection, testing & commissioning and all other obligations under the Contract; (2) OEM and Bidder has their sepcific job that needs to completed. Please confirm that the OEM's obligations under Form 22 are limited to the scope stated in Annexure-A Clause 2.3.1, i.e. quality, timely supply, performance and warranty of the equipment supplied by the OEM.	refer to Revised JDU format
127	Volume-I	5 -Section - V SCC.doc SCC 21.1, Notes 4 and 8	"POWERTEL shall have the sole discretion to revise the scope of work... The completion period for each such additional Lot shall be identical to the Completion timeline specified above."	Kindly confirm that the project completion schedule shall be adjusted proportionately in the event of additions, deletions or modifications to the approved scope after issuance of the Implementation Instruction for a lot.	Please refer the provisions of GCC 1.1 (ee), Section-SCC, which is read as: *".....The Implementation Schedule for entire scope of Work comprising of various Lot(s) under the subject package shall be 36 months from the date of Notification of Award.....* *Lot wise scope/BoQ shall be issued as Implementation Instruction to the contractor by the Employer/Owner from time to time, as per the requirement, within the Implementation Schedule.....* *Time for Completion from the date of issuance of Implementation Instruction of each Lot: 4 months....."*
128	Vol-III	Attachment-13 First stage/05; ITB 11.4 #13 05-Attachment-13 MAF_First Stage	Undertaking shall be registered or notarized so as to be legally enforceable.	As we are foreign OEM ,notarized MAF undertaking from India not possible. Please waive off notarization.	In line with provisions of Bidding Documents regarding Foreign Bidder, viz. ITB Cl. 9.3, 20.1.1, Section-BDS, Foreign Bidder/OEM may submit the Undertaking on its company's letterhead.
129	Vol-I	Volume 1, Section II Instruction to Bidders (ITB) 9.3Attachments to the First Stage bid:(d)Attachment 4: Subcontractors Proposed by the Bidder	The Bidder shall include in its bid details of all major items of supply or services that it proposes to purchase or sublet, and shall give details of the name and nationality of the proposed Subcontractor, including vendors, for each of those items. Bidders are free to list more than one Subcontractor against each item of the facilities.	We understand that an entity participating in the tender as a primary bidder is also permitted to act as a subcontractor/sub-vendor to another bidder for the same tender. We request clarification whether such participation would be permissible and would not result in the disqualification of either bidder. Kindly confirm	Please refer ITB 2.2 to 2.4, Section-BDS of the Bidding Documents for provisions regarding conflict of interest.
130	Vol-I	Volume I Section V- SCC 1. GCC 5.8 Adding New sub clause GCC 5.8:	Vide order dated 15/06/2017 and its revision dated 19/07/2024, Department for promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India has published Public Procurement (Preference to Make in India) Order, 2017(PPP-MII Order).	"Please clarify whether any preference, evaluation benefit, or consideration will be provided to solutions complying with Make in India (MII) Class-II local supplier requirements. If so, kindly specify the applicable provisions and evaluation methodology."	Please refer ITB 36.1, Section-BDS, in conjunction with Annexure-C (BDS), the provisions of which are amply clear.

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
131	Volume-III	Para 2 First stage – Attachment-13: Manufacturer's Authorisation Form (MAF)	We hereby extend our full guarantee and warranty for the above specified plant & equipment materials or other goods offered supporting the supply, installation and achieving of Operational Acceptance of the plant by the Bidder against these Bidding Documents, and duly authorize said Bidder to act on our behalf in fulfilling these guarantee and warranty obligations.	We request that the second paragraph of the MAF be amended to read: "We hereby confirm our standard manufacturer's warranty for the above specified plant & equipment supplied by us, as set out in the Deed of Undertaking (Form 22), and authorise the said Bidder to administer warranty claims on our behalf." Alternatively, please confirm that the MAF is an authorisation and a confirmation of the manufacturer's standard product warranty only, and does not create any liability of the manufacturer towards the Employer beyond that stated in the Deed of Undertaking.	The provisions of the Bidding Documents are amply clear and shall remain unchanged.
132	Vol-I, Vol-II & Vol-III (Stage-1 & Stage-2)	BDS ITB 5.1, 9.3, 11.1, 11.4, 20.1.1; Annexure-A Cl. 2.1, 2.2, 2.3 & 4.0; TS Cl. 3.1–3.4, 5.6, 5.7, 18.3 Vol-I: Section-III BDS; Annexure-A (BDS) – Qualifying Requirements; Section-VI Sample Forms. Vol-II: Technical Specification and Appendices A & D. Vol-III: Bid Form and Attachments Annexure-A: Pg 1–4 of 4; TS: Pg 1, 2, 15, 21; BDS & Section-VI: no page numbers printed	The documents, undertakings, declarations and certificates required from the Bidder, JV partners, OEM, Manufacturer and Parent Company/Collaborator are spread across several volumes, sections, forms and attachments. The Bidding Document does not give one consolidated list of these documents for each qualification route.	Please share a detailed, route-wise list (Route-I, Route-II, Route-III under Cl. 2.3.1 and Route-III under Cl. 2.3.2) of all documents to be submitted. For each document, please state: (i) who must submit it (Bidder / each JV partner / OEM / Manufacturer / Parent Company); (ii) the stage (First Stage / Second Stage / post-award); (iii) how it is submitted (online upload / hard-copy original); (iv) the applicable format or form reference. Please also confirm whether the NCSC Trusted Product, MTCTE, ITSAR, Common Criteria and ISO certificates, and the Non-Malicious Code certificate (Appendix-D, Annexure-B), are to be submitted with the First Stage bid or after award.	Please refer ITB 9 *(Douments comprising the Bid)* , ITB 10 *(First Stage - Bid Form)* , ITB 20 *(Documents comprising the Second Stage Bid)* , ITB 21 *(Second Stage - Bid Form and Price Schedules)* , their corresponding BDS Sections and any other relevant clauses clearly mentioned in the Bidding Documents. Further, bidders are required to furnish requisite documents towards QR compliance.
133	Vol-I, BDS Annexure-B	e-Reverse Auction (e-RA)(I)	Notwithstanding the e-RA conducted as aforesaid, POWERGRID reserves the right to hold negotiations with the bidder with lowest evaluated price after e-RA (L1 bidder).	Please indicate the time limit from the date of RA for such nogotiations.	The provisions of the Bidding Documents are amply clear and shall remain unchanged.
134	Vol-I, BDS Annexure-A	Notes 3, 4	3: '#: It means certificate issued by the Employer (an end user) certifying the operation without any adverse remark.' 4: '*The Equipment installed at Reconfigurable Optical Add-Drop Multiplexer (ROADM), Optical Add-Drop Multiplexer (OADM), Data Center interconnect (DCI), Amplification, Equalization, Regeneration sites in DWDM (400G) Network(s) will be considered as DWDM Equipment. The DWDM Network(s) shall have minimum Two (02) channels (single carrier based) of atleast 400G line rate.'	Can end user mails be considerd as proof?	The provisions of the Bidding Documents are amply clear which states "*It means certificate issued by the Employer (an end user) certifying the operation without any adverse remark*"
135	Vol-I, BDS	Sl. 18 (ITB 9.1(I)); Sl. 36	Sl. 18: 'All these documents shall however be furnished by the successful bidder(s) at the request of Employer, in original/hard part as per requirement specified in the bidding documents.' Sl. 36: 'Deadline for submission of Hard Copy Part of the First Stage bid submission Not applicable (refer ITB Clause 9.1(I))'	Should the original hard copy of the stamp paper documents be submitted only upon request post 1st stage bid submission?	Please refer ITB 9.1(I) and ITB 20.1(I), Section-BDS in this regard, the provisions of which are amply clear and read as below: '.....*The documents required to be submitted as part of Hard Copy Part of the First/Second Stage Bid shall be scanned and uploaded as part of Soft Copy Part of the First/Second Stage Bid.....*'
136	Vol-I, BDS	Sl. 4 (ITB 2.1)	The 'Class-I local supplier'/'Class-II local supplier' shall give a selfcertification in his bid in the given format, indicating the percentage of Local Content and certifying that the item offered meets the Local Content requirement for 'Class -I local supplier'/'Class-II local supplier' and shall give details of the location(s) at which value addition is made.	1) We understand that the lead bidder can submit a self-declaration of local content at the time of 1st stage bid submission. Later, at the second stage it is an affidavit as per Attachment-14 on ₹100 non-judicial stamp paper. Please confirm. Please confirm if any CA certification is also required for high value bids. 2) In case of 'Non-Local Supplier', is the declaration for Local content required? if yes, is CA certifcation also required in this case of Non Local supplier?	Please refer ITB 2.1 in conjunction with ITB 20.1.1(xiv), Section-BDS and GCC 5.8, Section-SCC of the Bidding Documents
137	Vol-I, BDS	Sl. 96 (ITB 40.1.1.1)	If the lowest evaluated bidder is Class-I Local Supplier, quantities proposed by the bidder in its BoQ (including break-up of Lot/Set items to be submitted by the bidder with the bid) shall be halved and 50% of the package shall be awarded to L1 bidder. Remaining 50% of the package shall be awarded to next lowest bidder who agrees to match L1 price on total evaluated price inclusive of T&D basis.	How does the 50% award actually work? Is it based on value? or quantity of each item in the BoQ? Or region as per network diagram?	Please refer the provisions of ITB 40.1.1.1, Section-BDS in conjuction with Annexure-C (BDS), which are amply clear.
138	Vol-I, GCC and ITB	GCC 9.3.1; ITB 43.1	GCC 9.3.1: 'The Contractor shall, within twenty-eight (28) days of the notification of award, provide a performance security for the due performance of the Contract in the amount equivalent to Ten percent (10%) of the Contract Price...' ITB 43.1: 'Within thirty (30) days after receipt of the notification of award, the successful Bidder shall furnish the performance security for 10% (Ten percent) of the contract price...'	Please confirm that GCC 9.3.1 (28 days) prevails.	The provisions of GCC Cl. 9.3.1 shall prevail.

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Sl. No.	**Section**	**Clause Ref.**	**Description**	**Bidder's Queries**	**Clarification(s)**
139	VOL.I	NA	Checklist of Documents to be submitted during Stage-1 & Stage-2	Kindly provide a separate Checklist of Documents to be submitted during Stage-1, Stage-2 & post award	Please refer ITB 9 *(Douments comprising the Bid)* , ITB 10 *(First Stage - Bid Form)* , ITB 20 *(Documents comprising the Second Stage Bid)* , ITB 21 *(Second Stage - Bid Form and Price Schedules)* , their corresponding BDS Sections and any other relevant clauses clearly mentioned in the Bidding Documents. Further, bidders are required to furnish requisite documents towards QR compliance.