

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
ISRO TELEMETRY TRACKING & COMMAND NETWORK (ISTRAC)
BANGALORE**

Tender for OpticalLink Source and Termination Standards

Bids to be submitted online

Tender No.: ISTRAC/ISTRAC PURCHASE/TR202100019501 dated 24-08-2021

A. Tender Details

Tender No : **ISTRAC/ISTRAC PURCHASE/TR202100019501**

Tender Date : **24-08-2021**

Tender Classification: **GOODS**

Purchase Entity : **ISTRAC PURCHASE**

Centre : **ISRO TELEMETRY TRACKING & COMMAND NETWORK (ISTRAC)**

Procurement of OpticalLink Source and Termination Standards

Please provide compliance for each Terms and conditions and Technical specifications.

A.1 Tender Schedule

Bid Submission Start Date : **24-08-2021 11:00**

Bid Clarification Due Date : **24-09-2021 16:00**

Bid Submission Due Date : **11-10-2021 16:00**

Bid Opening Date : **12-10-2021 11:00**

B. Tender Attachments

NA

Instructions To Vendors

1. CERTIFICATE OF UNDERTAKING

1. GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
ISTRAC, BENGALURU: 560 058.

2. Subject: Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs) 2017 - reg.

3. REQUIREMENT OF REGISTRATION:

4. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. (Competent authority is : DEPARTMENT FOR PROMOTION OF INDUSTRY AND INTERNAL TRADE (DPIIT)).

5. BIDDER (including the term tenderer, consultant or service provider in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

6. Bidder from a country which shares a land border with India for the purpose means:

(a) An entity incorporated, established or registered in such a country; or

(b) A subsidiary of an entity incorporated, established or registered in such a country; or

(c) An entity substantially controlled through entities incorporated, established or registered in a such a country; or

(d) An entity whose beneficial owner is situated in such a country; or

(e) An Indian (or other) agent of such an entity; or

(f) A natural person who is a citizen of such a country; or

(g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

7. The beneficial owner for the purpose of (6) above will be as under:

8. i) In case of a company or Limited Liability Partnership, the beneficial owner is a natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

9. Explanation:

(a) Controlling Ownership interest means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;

10. (b) Control shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements.

11. ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership.

12. iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals.

13. iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.

14. v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

15. An AGENT is a person employed to do any act for another, or to represent another in dealings with third person.

16. A certificate from the bidder shall be enclosed along with their quotation (Technical bid) as per the format enclosed.

17. (TO BE PRINTED ON THE LETTER HEAD OF THE VENDOR)

18. CERTIFICATE

19. Ref:Tender No _____ date _____

Our Quotation No. _____ date _____

20. (i).I/WE _____ read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I / We _____ Certify that this bidder is not from such a country.

21. OR*

I/We _____ read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India.

22. I / We _____ Certify that this bidder is from such a country and registered with the Competent Authority (i.e. Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Copy of Registration Certificate is enclosed.

23. (ii).I/We hereby confirm that the country of origin of goods is _____

24. (iii).I/We _____ hereby undertake that if the Certificate is found to be false at any given time ISRO/ISTRAC may treat this as a ground for immediate termination and further legal action in accordance with law can be initiated.

25. SIGNATURE:

26. NAME:

27. DESIGNATION:

28.

COMPANY NAME AND SEAL:

29. (* Strike out whichever is not applicable).

2. INSTRUCTIONS TO TENDERERS FOR ONLINE SUBMISSION OF TENDERS THROUGH E-

PROCUREMENT SYSTEM

1. Conditions for online submission of tenders:

- a) It is mandatory for interested parties to register as vendors in our e-procurement portal <https://eproc.vssc.gov.in/home.html> for participating in online eProcurement process of ISRO. Only registered vendors can submit their offers online in our eProcurement portal.
- b) Vendors who are already registered in the existing EGPS software of ISRO, please register by clicking the link in the email you would have already received from 'eproc@vssc.gov.in'. After registration, do the profile update by login to this portal.
- c) For new vendors, who are not registered in the existing EGPS software, vendor registration will be released along with the portal release. To register as vendors please refer to the help demos listed on the home page of the e-procurement link mentioned above. They may approach help desk (contact details provided on the home page) for any technical help for registration and subsequent process.

2. a) Bidders shall arrange themselves all resources, including Digital signature certificates and Internet Connections at their own cost, for participating in online tendering.

b) Vendors can download the tender details and submit their offers online using their vendor accounts (obtained during registration) in our portal. Help demos for tender download and bidding processes are given on home page.

c) The tender should be submitted online in the ISTRAC link before the due date and time as specified in the tender schedule in the portal.

d) Vendors shall also take note of other Instructions to tenderers indicated in the tender documents.

3. Procedure for seeking clarifications/help for the tender:

a) All enquiries regarding the tenders and submission of offers shall be online and only through our eProcurement portal.

b) Vendors may approach help desk e-mail id and phone number given on the home page for any technical help (e-mail: eproc@vssc.gov.in and Phone: +91471 2565454/4574/2527/3753/3289).

4. ISTRAC shall not be responsible for failure of vendors in submitting bids online caused due to technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.

5. Queries by vendors on technical problems on the last day of tender will not be binding on ISTRAC/ISRO for resolving/addressing. ISTRAC will not be responsible for non-submission of bids for those cases.

3. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER

1. PRICES: Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should

invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

2. a) Your offer should be valid for 120 days from the date of opening of the tender. b) Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

3. The term Purchase Order shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

4. Please provide your compliance for Security Deposit, Performance Bank Guarantee and Liquidated Damages Clause.

5. CUSTOMS DUTY : This office is eligible for Concessional Customs Duty @ 5.5% against Ministry of Finance, Department of Revenue, Government of India, vide Customs Notification No.51/96-Cus Dated 23-07-1996 (Sl.No.1) and amended under Notification No.93/96 dated 11th December 1996 and 24/2002 dated 01-03-2002

6. GST : This office is eligible for Concessional GST @ 5% against Ministry of Finance, Department of Revenue Notification No. 45/2017, Central Tax (Rate) and No. 47/2017, Integrated Tax (Rate) dated 14-11-2017.

7. It is to be noted that either Customs Duty or GST is applicable (any one)

8. If the IGST is applicable, the same will be reimbursed if it is reflected in Bill Of Entry. Proof shall be provided while claiming payment.

9. SECURITY DEPOSIT: Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, 'Security' and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause regarding Delivery. (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

10. Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be

mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes/duties.

11. TERMS & CONDITIONS OF TENDER

12. TEST CERTIFICATE: Wherever required, test certificates should be sent along with the despatch documents.

13. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

14. The authority of the person signing the tender, if called for, should be produced.

15. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

16. a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

17. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

18. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

19. The term Purchaser shall mean the President of India or his successors or assigns.

20. The term "Stores" shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

21. ACCEPTANCE OF STORES: (a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost. (b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final. (c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor. (d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

22. REJECTED STORES: Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

23. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

24. DESPATCH: The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

25. PACKING FORWARDING & INSURANCE: The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

26. **GUARANTEE & REPLACEMENT:** (a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance. (b) Warranty shall be for the period mentioned in the tender document. After the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within the warranty period, by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty. (c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of warranty from the date of acceptance thereof. (d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores. (e) The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of warranty or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor. (f) To fulfill guarantee conditions outlined in (a) to (e) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser)

27. **SETTLEMENT OF DISPUTES :** Except as otherwise specifically provided in the contract, all disputes concerning question of fact arising under the Contract shall be decided by the Purchaser subject to a written appeal by the Contractor to the Purchaser whose decision shall be final to the parties hereto. Any disputes or differences including those considered as such by only one of the parties arising out of or in connection with the Contract shall be, to the extent possible, settled amicably between the parties. If amicable settlement cannot be reached, then all disputes shall be settled by arbitration.

28. **ARBITRATION :** All disputes, differences, claims and demands arising under or pursuant to or touching this agreement shall be referred to Arbitration of a sole Arbitrator to be appointed by the Director, ISTRAC, whose decision/award will be final and binding on both the parties. Such arbitration shall be held in Bangalore and shall be subject to and governed by the provisions of the Arbitration and Conciliation Act of 1996 or any statutory modification or re-enactment thereof. The language to be used in Arbitration is English only.

29. **JURISDICTION :** The contract/ purchase order shall be governed by an interpreted and construed in accordance with the laws of India. The courts situated at Bangalore only shall have jurisdiction to deal with and decide any legal matter or dispute arising out of contract/ purchase order.

C. Bid Templates

C.1 Technical Bid - OpticalLink Source and Termination Standards

1. FREQUENCY DISTRIBUTION UNIT Optical Link Source Standard

1.1 FREQUENCY DISTRIBUTION UNIT Optical Link Source Standard - Post warranty

2. Time Distribution Unit Optical Link Termination Standard

2.1 Time Distribution Unit Optical Link Termination Standard - Post warranty

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Key Features	<p>Bi- Directional optical link with delay compensation - Temperature compensation - Reference input signals: 5, 10 or 100 MHz, with 1 PPS and NTP for timestamps - Regeneration of high stability outputs from input signals. - Picosecond level time transfer stability, low jitter -Low time transfer uncertainty ('Zero-Delay' between source and termination in time transfer configuration) -High stability frequency output signals from Low Noise OCXO in Time and Frequency Transfer Configuration. -1 Source (Master clock) supports up to 4 Terminations (Slave clocks) in Time and Frequency Transfer Configuration -AC and DC power supply -2 HE unit each</p>	Yes / No / Explain		
2	Product Description:	<p>Time and Frequency Transfer Configuration The Optical Link Source is used for transmission and distribution of precise time and frequency reference signals through bi-directional optical fibers to up to 4 Optical Link Terminations.</p>	Yes / No / Explain		

3	Inputs to the optical link source:	Main frequency reference: 5 MHz, 10 MHz or 100 MHz - 1PPS (1 Pulse Per Second) reference - Time reference from a NTP server	Yes / No / Explain		
4	Outputs from the optical link termination:	Phase-locked oscillator frequency: 5 MHz (Option), 10 MHz, or 100 MHz (Option) - "Zero delay" 1PPS - NTP (supports up to 5 clients) - IRIG Time code Outputs (IRIG A, IRIG B)	Yes / No / Explain		
5	Performance Specification: Residual frequency stability between source (Master) and termination(Slave) frequency outputs:	Tau Residual ADEV 1 s : 3.0 E-13 10 s : 1.2 E-13 100 s : 1.5 E-14 1000 s : 2.0 E-15 10000 s : 5.0 E-16 100 000 s : 2.0 E-16	Yes / No / Explain		
6	Phase noise for Slave frequency outputs:	5MHz (dBc/Hz) 10MHz (dBc/Hz) 100MHz (dBc/Hz) 1 Hz -121 -115 -87 10 Hz -148 -134 -115 100 Hz -150 -142 -132 1 000 Hz -150 -147 -158 10 000 Hz -150 -147 -162 100 000 Hz -150 -148 -163	Yes / No / Explain		
7	Residual Time Stability (1 PPS master input vs. 1 PPS slave output):	1 PPS stability Tau residual TDEV 1 s 1.8 E-11 10 s 8 E-12 100s 3 E-12 1000s 2 E-12 10000s 8 E-12	Yes / No / Explain		

8	SIGNAL SPECIFICATIONS OF OPTICAL LINK SOURCE:	Standard PPS input:with active delay compensation 1 input: with BNC connector Signal type: Positive pulse, min pulse width 20 is Input impedance: 50 Ohms Input level: +3.3 V +5 V Trigger level (0 -> 1) : 1 V fixed Significant slope: Rising edge Uncertainty: 1 ns (typ. with 1PPS rise time<1 ns) Variation with temperature(Delay compensation ON): 25 ps/K	Yes / No / Explain		
9	Time Interval Counter (TIC) as active delay compensation 4 inputs with BNC connectors 1 'start' input and 3 'stop' inputs (1 'start' input and 1 'stop' input used for the delay compensation) Signal type:	Positive pulse, min pulse width 20 is Input impedance:50 Ohms Input level tolerable:-5 V .. +5 V Trigger level (0 ->1): 0 .. 2.5 V configurable Significant slope:Rising edge Uncertainty:<80 ps (with input pulse rise time < 1 ns) Variation with temperature(Delay compensation ON): <10 ps/K Time Interval Counter Measurement uncertainty: <80 ps (with input pulse rise time < 1 ns) Measurement stability:TDEV(1s) = 10 ps Measurement resolution:6 ps	Yes / No / Explain		
10	Reference frequency input:	One input with BNC connector Signal type:sine Input impedance:50 Ohms Input level:7 .. 13 dBm Supported frequencies:5 MHz or 10 MHz	Yes / No / Explain		
11	Time input	Through LAN (NTP client) with RJ45 connector	Yes / No / Explain		
12	Optical Ports Fiber link type/length :	Duplex, multimode(max. 2km), single-mode (max. 5km), OC-3	Yes / No / Explain		

13	Electrical interface Supply voltage AC:	110/230 V AC, 50/60 Hz Supply voltage DC:18 to 32 V DC Source selection:AC has priority over DC if DC input < 24 V Power Consumption:< 35 Watts on AC, < 30 Watts on DC	Yes / No / Explain		
14	Mechanical for both source and termination standard:	Outline:19 inch, 2 height units (448.8 mm * 88 mm) depth 224 mm Weight: 3 to 4 kg	Yes / No / Explain		
15	Environmental Transportation and Storage Temperature.	-20 deg C to +75deg C Humidity 10% to 90% (non condensing) Altitude 12 000 m Shock : max 10g acceleration for 11 ms Vibration: max. 0.15mm at 5 to 8 Hz, max 1g acceleration at 8 to 500 Hz Operation Temperature:Operational 0 deg C to +40deg C Full spec. +15..+30deg C Humidity: 20% to 90% (non condensing) Altitude:2 000 m	Yes / No / Explain		
16	SIGNAL SPECIFICATIONS OF OPTICAL LINK TERMINATION:	Optical ports Fiber link type/length:Duplex, multimode (max. 2km), single-mode (max. 5km), OC-3	Yes / No / Explain		
17	Signal Outputs 5 MHz Signal Output Number of outputs :	4 ; connector: BNC Impedance : 50 Ohms Output Level: +13 ± 0.5 dBm Output return loss: > 33 (-34.5 typ.) dB Output / Output Isolation: > 80 (88 typ.) dB Harmonics (1st, 2nd, 3rd): -47 -47 -47 dBc	Yes / No / Explain		

18	10 MHz Signal Output Number of outputs:	4 Impedance: 50 Ohms connector: BNC Output Level: +13 ± 0.5 dBm Output return loss: > 33 (- 34.5 typ.) dB Output / Output Isolation: > 90 (100 typ.) dB Harmonics(1st, 2nd, 3rd): -47 -47 -47 dBc	Yes / No / Explain		
19	100 MHz Signal Output Number of outputs: 4 connector:	SMA Impedance 50 Ohms Output level: +13 ± 0.5 dBm Output return loss: > 30 (-35 typ.) dB Output / Output Isolation: > 75 (83 typ.) dB Harmonics(1st, 2nd, 3rd): -42 -40 -55 dBc	Yes / No / Explain		
20	1 PPS Pulse Output Number of outputs:	1 Impedance:50 Ohms connector: BNC Level: +3.3 V Rise / fall times / width: tr less than or equal 1 ns, tf less than or equal 1 ns, pulse width ~ 20 ps	Yes / No / Explain		
21	Time output Through LAN (NTP server) with RJ45 connector IRIG Time Code Outputs:	Connector: BNC Number of Outputs: 4 IRIG Codes: IRIG A , IRIG B Signal Amplitude: 2.8 Vpp, lower level if possible Impedance : 50 Ohms	Yes / No / Explain		
22	Electrical interface Supply voltage AC: 110/230 VAC, 50/60 Hz Supply voltage DC:18 to 32 V DC Source selection:AC has priority over DC if DC input < 24 V	Power Consumption: < 35 Watts on AC, < 30 Watts on DC	Yes / No / Explain		
23	M & C interface for both source and termination standard:	ethernet : 10 Mbits/s twisted pair - RJ45 TCP : Telnet, M&C , Output ports UDP services: TFTP server, Monitor , command , data output, NTP	Yes / No / Explain		

24	Front panel: Display:Day of Year, Time of day Display :	Instrument status & configuration, levels of inputs and outputs, selected input, alarms and messages, logged events Keyboard: function keys Access to all vital functions: instrument setup & configuration, input and output monitoring	Yes / No / Explain		
25	Support Requirement:	Warranty & Technical Support: Vendor shall provide at least one year standard warranty for the offered product 'Manufacturers support package for Warranty and technical support only should be quoted	Yes / No / Explain		
26	The specific part number for such support should be clearly indicated.	Vendor shall not replace manufacturer's warranty with their own warranty package. However, the vendor can add their support package to the manufacturers support package to cover any additional support capabilities that are not available in the manufacturers support package'	Yes / No / Explain		
27	Warranty should start from the date of acceptance of the full Configuration		-		

28	Technical Support to cover the following	'Access to technical support information for resolving problems, configuration issues, utilities etc.' Technical Assurance in trouble-shooting Access to technical literature in english relating to the system	Yes / No / Explain		
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Supporting Documents required from Vendor

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Payment Term	Yes / No / Explain	
2	Taxes and other costs, if any	Yes / No / Explain	
3	Delivery Period	Yes / No / Explain	
4	Delivery Term	Yes / No / Explain	
5	Security Deposit: FD or BG for 3 % of PO value to be submitted after receipt of PO and valid till supply & acceptance.	Yes / No / Explain	
6	Performance Bank guarantee : BG for 3 % of PO value to be submitted while claiming payment valid till end of warranty period with a claim period of 60 days.	Yes / No / Explain	
7	(OR) SD-cum-Warranty (PBG) (in lieu of SD & PBG as a single instrument): BG for 3 % of PO value to be submitted after receipt of PO valid till end of warranty period with a claim period of 60 days.	Yes / No / Explain	
8	Delay in completion/Liquidated Damages: A sum of 0.5% undelivered portion of Po for each week of delay or part thereof. Total LD shall not exceed 10% PO value.	Yes / No / Explain	
9	Warranty	Yes / No / Explain	
10	Validity	Yes / No / Explain	
11	Name and Address of the company on whom purchase order to be place.	Yes / No / Explain	
12	Certificate of Undertaking: Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods or services (including consultancy services and non consultancy services) or works (including turn-key projects) only if the bidder is registered with the Competent authority (i.e. DPIIT). Hence, it is mandatory to furnish Certificate of Undertaking as indicated in the tender document.	Yes / No / Explain	

13	Any other terms	Yes / No / Explain	
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C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	FREQUENCY DISTRIBUTION UNIT Optical Link Source Standard	2.00 Nos.		-		
1.1	FREQUENCY DISTRIBUTION UNIT - Post warranty	2.00 Years		-		
2	Time Distribution Unit Optical Link Termination Standard	2.00 Nos.		-		
2.1	Time Distribution Unit - Post warranty	2.00 Years		-		

Common charges (Applicable for all items)

P&F Charges	
Freight Charges	
Installation Charges	
Documentation & Handling Charges	
Other Charges (If any)	