



आईटीआई लिमिटेड नेटवर्क सिस्टम्स यूनिट

सामाग्री प्रबंधन विभाग

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ISO 9001 : 2015 प्रमाणित युनिट

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CORRIGENDUM - 1

| ITI Web-Site/ Govt. Portal | | CORRIGENDUM - 1 ENQUIRY NSU 4L 70H | |
|---|---|--|--|
| | | DATE | 17 01 2025 |
| Dear Sir / Madam, Refer our Enquiry No. NSU4L70H dtd. 23.12.2024, Further Corrigendum - 1 is issued regarding following points. | | | |
| Sl. No | Description | Existing | Revised |
| 1 | Tender Due date | 13.01.2025 14.00 Hrs | 03.02.2025 14.00 Hrs |
| 2 | Techno commercial open | 13.01.2025 15.00 Hrs | 03.02.2025 15.00 Hrs |
| 3 | Clause No. 3.3 Technical Specification of Optical Amplifier Solution | Operating Temperature -10~+65 degree C | Operating Temperature -5~+55 degree C |
| | | Power Consumption: 5-8Watt | Maximum Power Consumption: 180 Watt |
| 4 | Clause No. 5.1 Eligibility Criteria | Bidder should have relevant experience of three similar works in the field of successful design, supply, installation, commissioning and maintenance of optical amplifier solution. Bidder should have minimum Five years experience up to 31st March 2024 as indicated below: (a) Three similar works each costing not less than 40% of the estimated cost put to tender. (b) Two similar works each costing not less than 50% of the estimated cost put to tender. (c) One similar work costing not less than 80% of the estimated cost put to tender. | Bidder should have relevant experience of three similar works in the field of successful design, supply, installation, commissioning and maintenance of optical amplifier solution. Bidder should have minimum Five years to Ten Years experience up to 31st March 2024 as indicated below: (a) Three similar works of OLA-ILA/DWDM solution each costing not less than 40% of the estimated cost put to tender. (b) Two similar works of OLA-ILA/DWDM solution each costing not less than 50% of the estimated cost put to tender. |

| | | | |
|---|--|--|--|
| | | The experience in similar nature of work should be supported by certificates issued by the client's organization. The bidder has to submit Letter of work order for ongoing work/Completion certificate Bidder shall submit the work experience certificate from client as per format given tender document. | (c) One similar work of OLA-ILA/DWDM solution costing not less than 80% of the estimated cost put to tender. The experience in similar nature of work should be supported by certificates issued by the client's organization. The bidder has to submit Letter of work order for ongoing work/Completion certificate. Bidder shall submit the work experience certificate from client as per format given in tender document or in the format showing the relevant experience issued by the client. |
| 5 | Clause No. 9. Payment Terms and Conditions a) | Delivery of the equipment will be link wise within 20 days from the date of issuing work order. | Delivery of the equipment will be link wise within 45 days from the date of issuing work order. |
| 6 | Clause No. 9. Payment Terms and Conditions d) (iii)Third Milestone | Third Milestone : 10% payment after completion of maintenance period. | Third Milestone : 10% payment after completion of warranty period. |
| 7 | Annexure-6 | As per tender | Revised Annexure 6 is enclosed |
| 8 | Annexure C | As per tender | Revised Annexure C is enclosed |
| All other terms and conditions of Enquiry No. NSU4L70H Dt. 23-12-2024 remains unaltered. | | | |
| Note: Pre-Bid meeting clarifications enclosed | | <p style="text-align: right;">For ITI Ltd., N S Unit,</p> <p style="text-align: right;"><i>Vandana</i> 17/01/25</p> <p style="text-align: right;">ADDITIONAL GENERAL MANAGER-MM (NS)</p> | |

Annexure-6

DETAILS OF THE WORK COMPLETED DURING THE LAST 5 to 10 YEARS

| Sl. No. | Name of work | Scope of Work | Value of work | Date of start/completion | Name and address of the client | Value of TDS in case of private work | Remarks |
|---------|--------------|---------------|---------------|--------------------------|--------------------------------|--------------------------------------|---------|
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NOTE:

The following documents are to be enclosed for each of the above works.

- a. Work Completion certificate.
- b. Copy of award letter and PO/WO copy.
- c. Other relevant documentary evidence, if any.

Signature of the bidder with Seal

| Name & Address of the Bidder | | Design, Supply, Installation of Optical Amplifier Solution on Long Haul Links | | | | | | | |
|---|--|---|-----------|-----------------------|-----------------------|------------------------|-------------------------------------|------------------|--------------------------|
| SI. No. | Work Description | Item | Qty (Nos) | HSN Code for the Item | Basic Unit Cost (INR) | Total Cost (INR) (D*F) | % of GST for corresponding HSN Code | GST Amount (INR) | Total Value in INR (G+I) |
| A | B | C | D | E | F | G | H | I | J |
| 1 | Survey & Design of Amplifier Solution on OFC Link | | 17 | | | | | | |
| 2 | Supply of Amplifier Equipment along with all accessories like cable, connector and I&C Kit | OLA | 34 | | | | | | |
| | | ILA | 14 | | | | | | |
| | | Raman* | 2 | | | | | | |
| 3 | Installation & Commissioning of Amplifier Equipment | | 17 | | | | | | |
| 4 | Spare Equipment | OLA | 5 | | | | | | |
| | | ILA | 5 | | | | | | |
| 5 | Operationalization of OFC Links | | 17 | | | | | | |
| 6 | Monitoring Software of Equipment** | | 48 | | | | | | |
| 7 | Element Management System*** | | 1 | | | | | | |
| 8 | Maintenance & Repair charges (per equipment after warranty period) | OLA | 1 | | | | | | |
| | | ILA | 1 | | | | | | |
| | | Raman* | 1 | | | | | | |
| Total (X) | | | | | | | | | |
| Total in Words: | | | | | | | | | |
| Note: (Relevant Columns to be filled with PERCENTAGE / NUMERICAL Values ONLY. Quoted Price is including Packing/Forwarding Charges (if any)and Frieght/Insurance Charges (if any) | | | | | | | | | |

*Raman Amplifier will be optional however requirement will be finalised after survey & Design of the link at later stage. Cost of Raman Amplifier will be the part of bid evaluation

** Local Monitoring LCT software of Amplifier equipment to be provided by bidder.

***EMS will be optional however requirement will be finalized after operationalization of network. Cost of EMS will be the part of bid evaluation.

Cost should include:

i) Supply of associated Software and Hardware

ii) I&C of EMS

Training about the equipment will be provided by L1 bidder.

Note: Selected bidder will undertake CRC for the period of 11 years post completion of two years warranty period. For CRC period, bidder will sign CRC agreement post which PBG will be returned. Format for CRC agreement will be given at the time of PO.

The bidder has to quote for all the items

All other item required for operationalisation of link will be the responsibility of vendor and will be the part of price bid calculation.



Ref: NSU 4L 70H

PRICE BID-B (For Data rate-10G)

Annexure C(ii)

| Name & Address of the Bidder | | | | | | | | | |
|------------------------------|--|---|-----------|-----------------------|-----------------------|------------------------|-------------------------------------|------------------|--------------------------|
| Description | | Design, Supply, Installation of Optical Amplifier Solution on Long Haul Links | | | | | | | |
| Sl. No. | Work Description | Item | Qty (Nos) | HSN Code for the Item | Basic Unit Cost (INR) | Total Cost (INR) (D*F) | % of GST for corresponding HSN Code | GST Amount (INR) | Total Value in INR (G+I) |
| A | B | C | D | E | F | G | H | I | J |
| 1 | Survey & Design of Amplifier Solution on OFC Link | | 17 | | | | | | |
| 2 | Supply of Amplifier Equipment along with all accessories like cable, connector and I&C Kit | OLA | 34 | | | | | | |
| | | ILA | 14 | | | | | | |
| | | Raman* | 2 | | | | | | |
| 3 | Installation & Commissioning of Amplifier Equipment | | 17 | | | | | | |
| 4 | Spare Equipment | OLA | 5 | | | | | | |
| | | ILA | 5 | | | | | | |
| 5 | Operationalization of OFC Links | | 17 | | | | | | |
| 6 | Monitoring Software of Equipment** | | 48 | | | | | | |
| 7 | Element Management System*** | | 1 | | | | | | |
| 8 | DCM**** | | 1 | | | | | | |
| 9 | Maintenance & Repair charges (per equipment after warranty period) | OLA | 1 | | | | | | |
| | | ILA | 1 | | | | | | |
| | | Raman* | 1 | | | | | | |
| Total (Y) | | | | | | | | | |
| Total in Words: | | | | | | | | | |

Note: (Relevant Columns to be filled with PERCENTAGE / NUMERICAL Values ONLY. Quoted Price is including Packing/Forwarding Charges (if any)and Frieght/Insurance Charges (if any)

*Raman Amplifier will be optional however requirement will be finalised after survey & Design of the link at later stage. Cost of Raman Amplifier will be the part of bid evaluation

** Local Monitoring LCT software of Amplifier equipment to be provided by bidder.

***EMS will be optional however requirement will be finalized after operationalization of network. Cost of EMS will be the part of bid evaluation.

Cost should include:

i) Supply of associated Software and Hardware

ii) I&C of EMS

****Requirement of DCM will be optional however quantity will be finalize after survey & design of Link at later stage. Cost of DCM will be the part of bid calculation.

Training about the equipment will be provided by L1 bidder.

Note: Selected bidder will undertake CRC for the period of 11 years post completion of two years warranty period. For CRC period, bidder will sign CRC agreement post which PBG will be returned. Format for CRC agreement will be given at the time of PO.

- The bidder has to quote for all the items

All other item required for operationalisation of link will be the responsibility of vendor and will be th part of price bid calculation.

Note: Tender will be evaluated based on Total value quoted for Price Bid-A and Price Bid-B

Pre-Bid Meeting Amplifier Solution Clarifications

Tender for Procurement of Optical Amplifier solution in optical Fiber Network including Designing, Supply, Installation, Commissioning

Ref: ITI/ASCONPh-4/OFC/OLA-ILA/2024 Dtd. 23.12.2024

Bidder Name M/s United Telecoms Limited

| SN. | Section No. | Clause No. | Page No. | Brief Description of the Clause | Bidder request for Querries/amendment | ITI Remark |
|-----|------------------|------------|----------|---|---|--------------------|
| 1 | 3. Scope of Work | 3.3 | 8 | Technical Specification of Optical Amplifier Solution | In Link engineering involves placement of Optical amplifiers (OAs) and DCMs for each fiber link to ensure sufficient minimization of all optical impairments. A fiber link starts and ends at a central office containing a Transmission system site with intermediate sequence of fiber spans with known losses and lengths. Intermediate endpoints of spans are pass through OAs and DCMs. Per channel output power can be given as: Pin (dBm) + Gain (dB) = 1 dBm. As per ITU-T standard the per channel optical out put power should be maximum of +5 to +8dBm. In your technical specification the Maximum output power mentioned is +15dBm for single channel transmission. We request you to modify the same and clarify please. | As per Tender |
| 2 | 3. Scope of Work | 3.3 | 8 | Operating Temperature -10~+65 degree C | We would like to respectfully request an amendment to the Operating Temperature specification. Typically, the standard operating temperature range for our equipment is between -5°C to +50°C. However, the current specification lists the range as -10°C to +65°C. We kindly request that you consider revising the specification to reflect the standard operating temperature range of -5°C to +50°C. | As per Corrigendum |

| SN. | Section No. | Clause No. | Page No. | Brief Description of the Clause | Bidder request for Querries/amendment | ITI Remark |
|-----|------------------|------------|----------|---|--|--|
| 3 | 3. Scope of Work | | 8 | Monitoring and management of Optical amplifier equipment locally to be provided by selected bidder.... | Along with the OLA/ILA the " Monitoring and management of Optical amplifier equipment locally the following parameters will provided please clarify the same if any additional parameters are required to be added. a) Input power of the optical Amplifier b) Output power of the optical Amplifier c) Laser temperature of the optical Amplifier d) Mode of the optical amplifier (APC or AGC) e) Failure of the optical Amplifier f) Optical Amplifier station /Location details | Apart from mentioned parameter below list to be added: -> BER -> Alarm/Logs -> Input power of individual channels |
| 4 | | 5.1 | 9 | ELIGIBILITY CRITERIA FOR THE BIDDERS | We request to amend this clause as stated below "Bidder should have relevant experience in supply of OLA/ILA/DWDM equipments for the Defence services directly or through SI. Bidder should have minimum 10 years' experience up to 31st March 2024 as indicated below: | As per Corrigendum |
| 5 | | | 9 | Bidder should have relevant experience of three similar works in the field of successful design, supply, installation, commissioning and maintenance of optical amplifier solution. Bidder should have minimum Five years' experience up to 31st March 2024 as indicated below: | | |
| 6 | | | 9 | a. Three similar works each costing not less than 40% of the estimated cost put to tender. | a. Three supply of OLA/ILA/DWDM equipment orders each costing not less than 40% of the estimated cost put to tender. | |
| 7 | | | | OR | OR | |
| 8 | | | 9 | b. Two similar works each costing not less than 50% of the estimated cost put to tender. | b. Two supply of OLA/ILA/DWDM equipment orders each costing not less than 50% of the estimated cost put to tender. | |
| | | | | OR | OR | |

| SN. | Section No. | Clause No. | Page No. | Brief Description of the Clause | Bidder request for Querries/amendment | ITI Remark |
|-----|--------------|------------|----------|---|--|---------------|
| 9 | | | 9, 10 | <p>c. One similar work costing not less than 80% of the estimated cost put to tender.</p> <p>The experience in similar nature of work should be supported by certificates issued by the client's organization. The bidder has to submit Letter of work order for ongoing work/Completion certificate Bidder shall submit the work experience certificate from client as per format given in tender document.</p> <p>In case bidder submits work experience certificate issued by private companies/entities, the bidder shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, in support of above work experience certificate, PO details, Completion certificate.</p> | <p>c. One supply of OLA/ILA/ DWDM equipment orders costing not less than 80% of the estimated cost put to tender.</p> <p>The experience of Supplying OLA/ILA/DWDM should be supported by certificates issued by the client's organization. The bidder has to submit Letter of Purchase/work order for ongoing work/Completion certificate. Bidder shall submit the work experience certificate from client as per format given in tender document or in the format showing the relevant experience issued by the client.</p> <p>In case bidder submits work experience certificate issued by private companies/entities, the bidder shall also submit along with work experience certificate, the relevant copy of work order/Purchase order, bill of quantities, in support of above work experience certificate, PO details, Completion certificate.</p> | |
| 10 | Annexure - 4 | | 17 | PROFORMA FOR WORK EXPERIENCE CERTIFICATE | we request you to amend the following As per the performa for work experience OR The certificate issued by the client along with copies of the PO | As per tender |

| SN. | Section No. | Clause No. | Page No. | Brief Description of the Clause | Bidder request for Querries/amendment | ITI Remark |
|---------------------------|--|------------|----------|--|--|--------------------|
| 11 | Clause 9 payment terms and conditions Annexure B 7 | 9 (iii) | 12 | Third Milestone 10% payment after completion of maintenance period | This may please be amend as below "Third Milestone 10% payment after completion of warranty period" | As per Corrigendum |
| 12 | | | | | We request you to allow only Indian Class/Class II OEM as per GOI policy and as per Atamirbhar Mission of Hon'ble PM. Hence a suitable clause may please be added accordingly. | As per tender |
| 13 | Annexure 1 | i | 14 | Delivery of the equipment shall be phase wise within 20 days from the date of work order as per consignee detail which will be shared in the PO. | As per the referred clause the Bidder shall be able to supply the whole Lot in single Supply order, therefore the clause i) may please amended as below " Delivery of the equipment shall be phase wise within 4 months from the date of work order as per consignee detail which will be shared in the PO." | As per Corrigendum |
| | | iv | | The bidder shall have the ability to supply the whole Lot in single supply Order | | As per tender |
| 14 | 10 Special Terms and Conditions | ii | 12 | Letter from bidders stating that the life span of this product will be next 13 years. | As per Internation standards the life span of the product is 10 years hence you are requested to amend it as below "Letter from bidders stating that the life span of this product will be next 10 years." | As per tender |
| Bidder Name: C-DoT | | | | | | |
| 1 | | | | | Please share the data rate of the links per channel | Data Rate: 1G/10G |
| 2 | | | | | Please share the number of channels per links. | Multi Channel |

| SN. | Section No. | Clause No. | Page No. | Brief Description of the Clause | Bidder request for Queries/amendment | ITI Remark |
|-----|-------------|------------|----------|--|---|---|
| 3 | 3 | A | 7 | Installation of optical amplifier solution Bidder shall install optical amplifier solution at approximately 17 links across Ladakh, Jammu, Rajasthan, Uttarakhand, Bhuj, Assam, Arunachal Pradesh and West Bengal (48 nodes). Any change in the location will be shared later. | Please provide the no. of ILAs per link in each zone. It will better be if network map/diagram of each link for all zones provided. | As per tender |
| 4 | 3 | 3.2.2 | 8 | RAMAN type amplifier quantity is 2 | Are RAMAN amplifiers in addition to the required 58 amplifiers. Please Clarify. | Raman Amplifier will be optional however requirement will be finalized after survey & Design of the link at later stage. Quantities may vary and will be frozen after survey and design |
| 5 | 3 | 3.3 | 8 | Noise Figure 4.8 -5.6 & 4.8 -7.5 | Noise figure is depended on the gain of Amplifier. For EDFA, noise figure is ranged 5.5-10dB. Please clarify the shared values basis. | As per tender |
| 6 | 3 | 3.3 | 9 | Power Consumption 5-8 W | Provided Power consumption is very low. Please provide the correct values | As per Corrigendum |
| 7 | 3 | 3.3 | 9 | Operating Temperature -10 -+65 | Please relax the temperature range to -5 to +55 | As per Corrigendum |
| 8 | 3 | 3.3 | 9 | Fiber Attenuation (@1500nm) <0.23dB/km | As per ITU-T @1550nm the loss is 0.35dB/Km, Please clarify. | As per tender |