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Tashi InfoComm Private Limited

TASHI INFOCOMM PRIVATE LIMITED (TIPL)

BIDDING DOCUMENT FOR THE SUPPLY OF

“Fiber Cables & Firber Accessories_2024_Q1”

Bidding Document Ref# TIPL/PRO-07/2024/ 100

Date: 02 / 02 / 2024



Address: P.O Box # 1502, Samten Lam, Thimphu, Bhutan
Phone : +975 77889977 Website : www.tashicell.com



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Tashi InfoComm Private Limited

SECTION-I INVITATION OF BIDS

Bidding Document Ref# TIPL/PRO-07/2024/100

Dated 02 / 02 / 2024

For supply of: **"Fiber Cables & Fiber Accessories_2024_Q1"**

1. Tashi InfoComm Private Limited (TIPL) hereinafter referred to as the "Purchaser" invites sealed bids from the eligible Bidders for the supply of Fiber Cables & Fiber Accessories for the FY-2024, Q1.
2. Interested Bidders may kindly visit our website www.tashicell.com to download the Bidding Document and obtain further information relating to the Bidding Document. Interested Bidders may also write to us at procurement@tashicell.com
3. All the expenses relating to the preparation and delivery of the Bidding Document are under the Bidders' scope.
4. Any correspondence relating to the Bidding Document shall be made in writing or an email to the following address. Enquiries through telephone shall not be entertained.

Address for communication/contact.

Manager,
Procurement & Inventory Section,
Tashi InfoComm Private Limited,
Norzin Lam, Post Box No-1502,
Thimphu, Bhutan.

Email: procurement@tashicell.com; manager.procurement@tashicell.com;





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SECTION-II INSTRUCTIONS TO BIDDERS

1. Scope of Bid

- 1.1. The scope of this Bidding Document shall be the supply of Fiber Cables & Fiber Accessories for the FY-2024, Q1.
- 1.2. All the Bids are to be completed and submitted to the Purchaser in accordance with the Instructions to Bidders.

2. Eligibility & Exclusion

- 2.1. The invitation for Bid is open to all interested licensed national and global suppliers.
- 2.2. Bidders who do not have the requisite technical and financial capabilities to execute the supply of the Goods and Services stated in this Bidding Document shall NOT be allowed to bid.
- 2.3. Unless otherwise stated separately herein, the bidders are not required to furnish their financial and economic capacity to execute the supplies stated in this Bidding Document.
- 2.4. The Bidders are required to furnish their technical ability to execute these supplies stated in the Bidding Document.
- 2.5. Further, a Bidder shall be excluded from participation in this Bidding Document if:
 - i. A Bidder is Insolvent
 - ii. Is in receivership
 - iii. Is bankrupt
 - iv. In the process of being wound up
 - v. Has entered into an arrangement with the creditors
 - vi. Your business being administrated by the court, judicial officer, or a professional body
 - vii. Has not fulfilled its obligation of tax payment, or other dues in accordance with the laws of the country in which the bidder is established.
 - viii. If the bidder is debarred from participation in public procurement by any competent authority as per the relevant laws
 - ix. If the bidder has not fulfilled contractual obligations with the purchaser in the past.





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3. Cost of Bidding

- 3.1. The Bidder(s) shall bear all costs associated with the preparation and delivery of its Bids, and the Purchaser shall in no case be responsible or liable for those costs.

4. Bidding Documents, Alternative Bids, Modification, Withdrawal, Amendment and Cancellation of Bids

- 4.1. The purpose of this Bidding Document is to assist the interested Bidders in arriving at an informed decision on whether or not to submit a bid and to enable the interested bidders to prepare responsive bids.
- 4.2. The Bidding Document shall be made available through the Company website www.tashicell.com free of cost and shall be made secure to avoid any modifications to the Bidding Document without restricting access.
- 4.3. The minimum number of bid requirements shall be Three.
- 4.4. If the minimum number of bids received in response is less than three, the Management Tender Committee shall have the discretion to open the bids or not to open the bids. Such discretion to open the bids shall be justified by minuting the circumstances and situation for having exercised the discretion in the evaluation/comparative statement report.
- 4.5. The Management Tender Committee may also decide to extend the bid submission date and opening date based on the nature of the goods to be procured and their need-by-date. The Procurement Section shall notify the time extension through the company website and if necessary through mass media. The suppliers who have already submitted their bids shall be notified through email of the time extension and new bid opening date.
- 4.6. Further, the bidding process shall be considered valid irrespective of the number of bids received in response to this Bidding Document if:
- a) The due process on the invitation of bids has been exhausted and or
 - b) If the project is on high priority and time is considered very crucial.
- 4.7. Prior to the deadline for bid submission stipulated in the Bidding Document, Bidders who have already submitted their bids, upon submission of a written application to the Procurement Section (Manager, Procurement & Inventory Section, Tashi InfoComm Private Limited, Thimphu), may withdraw their bid or modify it. For the re-submitted bids, the Bidder shall write "Modified" on the envelope. The "Modified" bids have to be submitted within the submission schedule stated in the Bidding Document.
- 4.8. The bids withdrawn shall not be accepted again.





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- ii) Datasheet
- iii) Product Catalogue
- iv) OEM Certificates, if required.
- v) Any other relevant certificates/specifications, etc.

5. Bid Prices

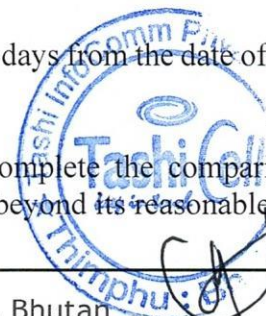
- 5.1. The Bidders shall complete the appropriate Price Schedule included herein, stating unit prices, extended amount, and the expected countries of origin of the Goods to be supplied, if applicable
- 5.2. Prices quoted by the Bidders shall remain fixed and valid for the period stated in **Section II, Clause 7** of the Bidding Document, and will not be subject to variation on any account.
- 5.3. The Bid Currency shall be Ngultrum (Nu) for this Bidding Document. Except for third-country Bidder(s), the Bidder(s) from the rest of the countries are not allowed to quote in US dollars or any other hard currency.
- 5.4. The third country Bidder(s) who quoted in US Dollars shall be converted into Ngultrum at the prevailing exchange rate (Selling TT rate of any financial institution OR RMA) as on the date of bid opening or the preceding date if the rate of exchange for date of bid opening is not available.
- 5.5. Bid price adjustment is not allowed in this Bidding Document.

6. Trade Terms

- 6.1. Unless otherwise stated, the following shall be the trade terms for this bidding document:
 - a) Bhutanese Bidders: DDP, TIPL Warehouse, Thimphu/Phuentsholing.
 - b) Indian Bidders: CIF, TIPL Warehouse, Phuentsholing.
 - c) Third Country Bidder: CIF, Kolkata, India.

7. Bid Validity

- 7.1. The Bids and the quoted price or unit rates shall be valid for 60 days from the date of opening of the Bids.
- 7.2. If the TIPL Tender Evaluation Committee is not able to complete the comparison and evaluation including the award of the contract due to reasons beyond its reasonable control,





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the Bids and its security including the validity of the security shall be extended without modification of its Bids.

- 7.3. Those Bidders not agreeing to the extension request shall be disqualified without forfeiting their Bid Security and the Bid shall no longer be considered for evaluation and award.

8. Taxes & Customs Clearance

- 8.1. Unless otherwise stated, the applicable taxes/duties/any other levy both within and outside Bhutan shall be under the scope of the Bidder.
- 8.2. The third-country Bidders or Bidders from India may exclude applicable taxes/duties while submitting the bid. The applicable taxes including customs clearance within Bhutan shall be under the scope of the Purchaser. However, applicable taxes/duties, etc shall be factored in during the time of evaluation to determine the final landing cost.

9. Evaluation & Comparison of Bids

- 9.1. The TIPL Tender Evaluation Committee shall evaluate and compare the Bids against the specifications, data, design, and any other criteria outlined in this Bidding Document to ascertain the lowest evaluated Bidder(s).
- 9.2. The Tender Evaluation Committee shall evaluate and compare the lowest evaluated bidders and their bids with the alternative Bids submitted for the particular bidding document. If found to be the best-evaluated bids, the alternative bids shall be considered for the award.
- 9.3. The evaluation and comparison shall not only be based on the quoted unit rates but also the datasheets, specifications, design, etc proposed by the Bidders,
- 9.4. The Tender Evaluation Committee & Management Tender Committee's evaluation decision shall be final and binding, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform and explain the affected Bidder or Bidders on the grounds of the evaluation decisions and reports. In addition, the performance of previous tenders with the Purchaser, if any shall also be factored in during the time of evaluation.
- 9.5. The lowest quoted unit rates alone do not guarantee the award of the contract/purchase order.
- 9.6. The evaluation shall be based on the respective packages highlighted in the BOQ.
- 9.7. The Procurement Section or Tender Evaluation Committee as relevant may proceed to negotiate with the qualified and acceptable lowest bidder (L1) or choose to negotiate with all of the Bidders to get the best offer and determine the lowest evaluated bid including for the international bids.

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10. Award of Purchase Order/Contract

- 10.1. The Purchaser shall award the PO or supply contract to the Lowest Evaluated bidder(s) for the respective packages.

11. Delivery

- 11.1. Delivery should be completed as per the given schedule:
- Within 60 days from the date of issuance of purchase order or signing of supply contract.
 - The detailed terms & conditions shall be mentioned in the confirmed Purchase Order/Supply Contract.
- 11.2. The purchaser (TIPL) may provide delivery time extension beyond the actual delivery date taking into account the actual need-by-day and project schedule of TIPL. However, subject to the instruction and approval of the Management Tender Committee.
- 11.3. The Time Extension request/provided may not exceed 15 days at the maximum OR depend on the approval granted by the Management Tender Committee of the purchaser. The supplier has to send an email/in writing requesting a time extension with genuine reasons (along with supporting documentation).
- 11.4. Depending on the instruction and approval of the Management Tender Committee, the supplier may be levied or exempted from the LD.

12. Inspection of Goods:

- 12.1. The goods are subject to Physical Inspection upon delivery at TIPL Warehouse and testing & commissioning in due course of time. The Goods found to be faulty, DOA, or not meeting specifications/requirements of TIPL after the final inspection, installation, and testing shall be rejected at the cost of the bidder.
- 12.2. Depending on the nature of the goods, the Tender Evaluation Committee may call for the inspection of the bidder's factories as part of the Bid Evaluation or Feasibility study. The cost for such shall be borne by the Purchaser. The Procurement Section shall notify in writing on which the inspection will be made if required.

13. Warranty (If applicable)

- 13.1. The Warranty shall be a minimum of 12 months from the date of delivery OR the standard manufacturer's warranty, whichever is longer.





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14. Payment

- 14.1. The Payment shall be made 100% against delivery within 7 working days from the date of receiving the Bill/Invoice.
- 14.2. Advance payment up to a maximum of 30% of the total PO value may be released at the Purchaser's discretion against furnishing an equivalent amount of bank guarantee for the advance payment valid 3-6 months beyond the delivery deadline.

15. TDS/FCT

- 15.1. TDS (Tax Deduction at Source) and or FCT (Foreign Contract Tax) shall be deducted as per the existing Rules and Regulations of the Department of Revenue & Customs, Bhutan (wherever applicable).

16. EMD (Earnest Money Deposit)

- 16.1. The bidder should submit **not less than 2% of the total quoted value** as part of the EMD along with the Bid in the form of a Demand Draft or Bank Guarantee from any of the financial institutions located in Bhutan. The bidder(s) other than Bhutanese national can furnish EMD from the financial institutions in their respective countries OR from any of the Bhutanese Financial Institutions. The EMD may be directly deposited into the Purchaser's bank account (please contact the Purchaser requesting bank details via email).
- 16.2. The bidder(s) failing to submit the EMD as per the requirement shall result in the rejection/cancellation of their bid.
- 16.3. The EMD shall be valid for 30 days beyond the submission deadline of the bidding document. The EMD should be drawn in favor of **"Tashi InfoComm Private Ltd., Samten Lam, Thimphu, Bhutan"**.
- 16.4. EMD of unsuccessful bidder(s) shall be returned within 15 days after the finalization of the Bid.
- 16.5. EMD shall be forfeited if:
 - a) A bidder withdraws its bids prior to the finalization of the bids in every respect.
 - b) The successful bidder fails to submit Performance Security as per the terms specified in the bidding document.
 - c) The successful bidder fails to sign a contract or issue acceptance acknowledgment of purchase or work order within the prescribed time.
 - d) If a bidder does not accept the arithmetical corrections of its bid price.





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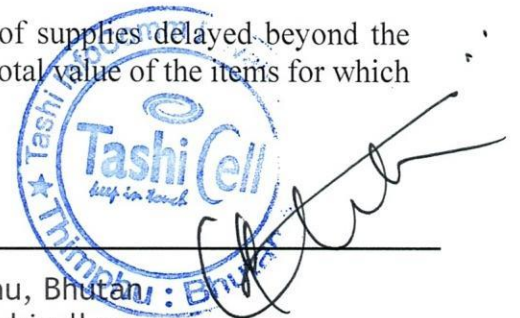
16.6. EMD of the successful bidder shall be returned promptly upon submission of Performance Security.

17. Performance Security

- 17.1. The successful bidder should submit not less than 10% of the total purchase order value as Performance Security within 14 days after the issuance of the letter of acceptance and before the signing of the contract if required.
- 17.2. Performance Security shall be drawn in favor of “**Tashi InfoComm Private Ltd, Thimphu**” in the form of a Demand Draft or Bank Guarantee or can be deposited directly into the purchaser’s bank account(contact purchaser via email requesting bank details).
- 17.3. Performance Security shall be valid for **3 months beyond** the warranty period from the date of issuance of performance security by the financial institutes.
- 17.4. Failure of the successful bidder to submit the Performance Security within the prescribed time shall constitute sufficient grounds for the annulment of the issued purchase order and forfeiture of EMD. The purchase order may be issued to the second-lowest evaluated bidder.
- 17.5. Performance Security shall be returned within 1 week from the date of successful completion of all obligations under the issued Purchase Orders or after the expiration of the warranty period whichever is longer.
- 17.6. Performance Security shall be forfeited if:
- The successful bidder fails to execute the supplies/works as per the terms and conditions stated in the purchase order in any manner deemed unsatisfactory by the purchaser (TIPL) or the end-user(s).
 - The successful bidder fails to deliver the goods on the given deadline and is not recommended by the end-user(s) for a time extension or replacement.
 - The goods supplied do not conform to the specifications/brands/requirements, etc stated in the purchase order/BOM.
 - If the bidder fails to remedy any reported defect within the warranty period, the purchaser shall be entitled to forfeit the performance security or to remedy the defect at the expense of the supplier.

18. Liquidated Damage (LD) Penalty

- 18.1. The Liquidated Damages shall be levied on the quantity of supplies delayed beyond the scheduled delivery deadline. LD shall be calculated on the total value of the items for which supplies have been delayed.





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18.2. The LD penalty shall be charged at 0.1% per day of delay on the unexecuted value of supplies. The total amount of LD shall not exceed 10% of the total PO value.

19. The purchaser Right

19.1. The Purchaser reserves the following rights without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform and explain the affected Bidder or Bidders on the grounds of the Purchaser's action:

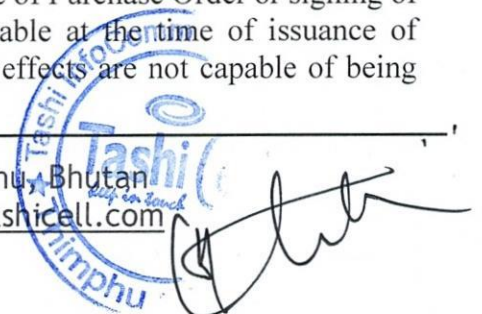
- a) The right to accept or reject any Bid and reject all the Bids at any time prior to issuance of Award Notification and or Purchase Order.
- b) The right at the time of award of the purchase order to increase or decrease the quantity of Goods specified in the Bidding Document, without any changes in the price or other terms & conditions (not exceeding 25% of the indicated quantity in the Bidding Document).
- c) The right to reject all or in part, the item supplied during the time of physical inspection/testing or found to be non-standard/non-specific/unreliable in terms of quality/not meeting specification.
- d) The right to direct negotiation, call quotations and receives the same via email from the manufacturers; authorized distributors; authorized dealers; and frequent supplier(s) of similar goods in Bhutan/India/China/Other countries to compare the rates with those offered by the vendors through this Bidding Document. If need be, to procure directly. The Purchaser also reserves the right to negotiate with the lowest evaluated bidder(s) or all of the bidders at any time prior to the award of the Purchase Order/Signing of the Supply Contract.

19.2. Should the selected Bidder(s) fail to supply the full order quantity within the given deadline, the purchaser reserves the right to cancel the quantities not supplied and place an order to the Second Lowest Evaluated Bidder. In such a case, the Purchaser shall recover as part of Liquidated Damages, the difference amount between the purchase order rate and the actual rate paid to the second-lowest evaluated bidder for the quantities not supplied. The amounts shall be either adjusted from the Performance Security or bill/invoice amount of the supplied quantity.

20. Force majeure

20.1. Force Majeure shall mean such unforeseeable occurrences beyond the control of the Purchaser and Bidder which occur after the date of issuance of Purchase Order or signing of Supply Contract and which were not reasonably foreseeable at the time of issuance of Purchase Order or signing of Supply Contract and which effects are not capable of being

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overcome without the unreasonable expense and/or loss of time to the Purchaser and the Bidder concerned, including, provided that the aforementioned conditions are met, but not limited to:

- i) Natural catastrophes, earthquakes
- ii) Strikes and blockages
- iii) War or war-like conditions, mobilizations, revolutions or riots, the act of Public enemy, sabotage, terrorism.
- iv) Restriction by actions, omissions, or interventions from Public Authorities (including but not limited to changes in laws, regulations, import/export, security restrictions).
- v) The Party who wishes to plead Force Majeure shall inform the other party of the First party's perception of the effects of such force majeure on the fulfillment of the issued purchase order/signed Supply Contract. Should any event of force majeure cause an increase in the time required for the performance of any part of the purchase order/signed Supply Contract, an equivalent adjustment shall be made in the time required for performance.

However, if the force majeure situation continues for more than two months, the purchaser and bidder shall decide whether the contract should be terminated.

21. Termination

- 21.1. In the event of any failure by the Bidder to perform any of its obligations under the issued purchase order or signed Supply Contract or upon unsatisfactory performance, the purchaser may choose to terminate the purchase order or signed Supply Contract by giving a prior written notice of Fifteen (15) days, without any obligation to the Bidder. However, the purchaser shall pay the actual due amount for the quantity supplied and accepted by the Purchaser to the Bidder on termination of the issued purchase order or signed Supply Contract.

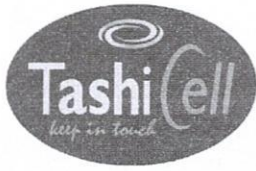
22. Indemnity

- 22.1. The bidder(s) shall comply with all the laws in force in Bhutan and outside. The laws will include all national, provincial, municipal, or other laws that affect the performance of the issued purchase orders or signed Supply contracts and bind upon the Bidder(s). The Bidder(s) shall indemnify and hold harmless the Purchaser for and against any and all the liabilities, damages, claims, fines, penalties, and expenses of whatever nature arising or resulting from the violation of such laws by the Bidder(s).

23. Dispute Settlement

- 23.1. If any dispute should arise in connection to the issued purchase order or signed Supply Contract, the Parties shall try to settle any such dispute through good faith and negotiations





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including escalation to senior Management where each party deems it appropriate. If negotiations fail, the matter shall be referred to the Court of Law.

24. Governing Law and Jurisdiction

- 24.1. The terms and conditions in this Bidding Document or issued Purchase Order or signed Supply Contract shall be read and construed in accordance with the laws of the Kingdom of Bhutan and the District Court of Thimphu, Bhutan shall have jurisdiction over any disputes arising out of the Contract.





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SECTION-III GENERAL TERMS & CONDITIONS:

- 1) In this Bidding Document, the following terms shall be interpreted as indicated below:
 - i) The Bid: An offer to supply goods, services, or works made as per the terms and conditions set out in the invitation for such bids in the Bidding Document. The term “Bid” is synonymous with the term “Tender”.
 - ii) The Bidder: Any eligible individual or legal entity who participates in the competitive bidding process.
 - iii) Bidding Document: The set of documents issued by the TIPL to potential bidders in which the proposed procurement specifications, terms, and conditions are prescribed. The terms “Bidding Document”, “Tender Document”, “Bid Document” and “Request for Proposal” shall be synonymous.
 - iv) Bill of Quantities (BOQ): The list of units and unit rates of the goods and services proposed for tendering purposes.
 - v) Day: Calendar Day
 - vi) Earnest Money Deposit (EMD): The deposit taken by TIPL along with the bid to ensure the capability of the bidder to perform their obligations under the bid. The term “Bid Security” shall be synonymous with the term “EMD”.
 - vii) Invitation of Bids: A document published or notified by TIPL, which informs potential bidders that it intends to procure goods, services or works.
 - viii) Lowest Evaluated Bid: The bid that offers the best value of money if evaluated based on various objective criteria set out in the Bidding Document. It shall not necessarily mean the “Lowest quoted price”.
 - ix) Liquidated Damage (LD): The amount that the supplier agrees to pay as damages if the party breaches an obligation, such as delay in delivery.
 - x) Price Schedule: A summary of quantity, measurement unit, unit price, and extended price of items to be procured under the contract or issued purchase order.
 - xi) Management Tender Committee: A committee responsible for supervising and ensuring that the procurement procedures outlined in this Bidding Document and or TIPL procurement manual are followed.
 - xii) Tender Evaluation Committee: Committee responsible for opening and evaluating bids.





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2) Bid Submission & Opening Schedule

- 2.1 The Bids should be submitted in a sealed envelope (Single Envelope Method- **copy not required**) addressed to “**Manager, Procurement & Inventory Section, TIPL** against Reference No...TIPL/PRO-07/2024/100..... dated02/02/2024.....”.
- 2.2. **Bid Submission Date & Time:** 11:00 AM, 28/02/2024
- 2.3. **Bid Opening Date & Time:** 2:00 pm, 28/02/2024
- 2.4. Bidding Documents received after the deadline (time & date of submission) shall not be accepted and opened during the bid opening. The Bids shall automatically stand as “Rejected”.
- 2.5. The Purchaser shall not be responsible for any damages, losses, breakages, or shortages of any items while in transit for delivery of Goods to TIPL Store/warehouse.
- 2.6. The Bidder should enclose a Xerox copy of a valid Trade License, Tax clearance, Power of Attorney, and other relevant documents.

3) Clarification on Bidding Document

- 3.1 The Bidders are NOT allowed to seek any clarifications on the Bidding Document in person.
- 3.2 A prospective/interested bidder requiring any clarification of the Bidding Document may notify the Procurement Section in writing within 3 days prior to the last date of bid submission.
- 3.3 The Procurement Section shall respond to all the bidders as an addendum or amendment to the Bidding Document or to a bidder who sought further clarification through electronic means within 2 days from the date of receiving the request for clarification.
- 3.4 Any bid clarification request received after the last date of bid clarification shall not be accepted.
- 3.5 The bidder(s) are expected to examine the Terms and Conditions stated in the Bidding Document, Bill of Materials, Specifications, Drawings, etc furnished along with the Bidding Document. Once the bids are submitted by the bidder(s), It shall mean:
- a) The bidder(s) have examined, read, and accepted all the terms and conditions stated in the Bidding Document, the specifications of the goods/services, Drawings/Designs, etc furnished in the Bidding Document. Thereafter, no grievance, complaints, etc (whatsoever nature may be) shall be accepted.
- 4) The Bids not substantially responsive to the Bidding Document in every respect will result in the rejection of the Bids.

Address: P.O Box # 1502, Samten Lam, Thimphu, Bhutan
Phone : +975 77889977 Website : www.tashicell.com





བགྱིས་བད་དོན་བརྒྱུད་འབྲེལ་སྐོར་སྡེ་ཚང་འཛིན།།

Tashi InfoComm Private Limited

- 5) For any complaints or grievances, the bidder(s) may write directly to the Management Tender Committee of the Purchaser through email. The Email ID is **procurement@tashicell.com**.
- 6) Product samples, catalog/brochures containing details of technical and functional specifications shall be submitted along with the Bids wherever applicable. Failing which, shall result in rejection of the Bidding Document.
- 7) If the EMD amount is insufficient, the Bids shall automatically stand as “Rejected”.
- 8) The Bidders shall be permitted to submit bids by registered post or courier by hand or through electronic means.
- 9) Bidders are advised that the bids be delivered in an envelope (Marked as **“ORIGINAL” OR “ALTERNATIVE BIDS” OR “MODIFIED”**) sealed with adhesive tape or other sealants, which will prevent them from reopening, addressed to the appropriate addressee, and be marked as **“Confidential”, “Name of the Supply”, “Tender Number”,** and the words **“DO NOT OPEN BEFORE”** the specific date, month and time. **DO NOT SUBMIT A “COPY”**. However, bidders are advised to maintain a photocopy of their bidding document (sealed and signed copy) before submitting it to the purchaser and produce the copy during any event of discrepancies.
- 10) The decision of the Corporate/Management Tender Committee shall be final and binding.





བགྲིས་བད་དོན་བརྒྱུད་འབྲེལ་སྐོར་སྡེ་ཚང་འཛོམས།

Tashi InfoComm Private Limited

SECTION-IV

The complete **Bill of Materials (BOM)** is as stated in **Appendix I**. The Bids should be submitted in the below format in your company Quotation Form.

Appendix-I:

| S/L | Description | UoM | Qty | Unit Rate | Amount |
|-----|-----------------------------------|-----|-----|-----------|--------|
| 1. | 1. Details as given in Appendix I | | | | |
| | | | | | |

Total

Note:

1. Please attached details of the technical and functional specifications along with the Bidding Doc. Failing to do so, will result in the rejection of your bidding document.
2. Mention the Country of origin of goods in the bidding document.
3. For samples, refer the "Remark" column of the BOQ.



Appendix-I: Fiber Cables & Accessories_2024

| S/L | Description | Specifications | Model/Brand | UoM | Qty | Department/Section | Remark |
|-----|------------------|---|-------------|------|-----|--------------------|---------------------------|
| 1 | Patch Cords | Patch cord- SC/UPC- LC/UPC single mode, Duplex 1 meters, Dia.2.0mm. | | No | 50 | AND | |
| 2 | Patch Cords | Patch cord- SC/UPC- LC/UPC single mode, Duplex 5 meters, Dia.2.0mm. | | No | 50 | AND | |
| 3 | Patch Cords | Patch cord-LC/UPC-LC/UPC Single mode, Duplex 0.5 meters Dia 2.0mm | | No | 50 | AND | |
| 4 | Patch Cords | Patch cord-LC/UPC-LC/UPC Single mode, Duplex 5 meters Dia 2.0mm | | No | 50 | AND | |
| 5 | Patch Cords | Patch cord-LC/UPC-LC/UPC Single mode, Duplex 10 meters Dia 2.0mm | | No | 50 | AND | |
| 6 | Patch Cords | Patch cord-SC/UPC- SC/UPC, duplex Single mode Patch Cord, 0.5 meters, dia.2.0mm | | No | 50 | AND | |
| 7 | Patch Cords | Patch cord-SC/UPC- SC/UPC, duplex Single mode Patch Cord, 5 meters, dia.2.0mm | | No | 50 | AND | |
| 8 | Patch Cords | Patch cord-FC/UPC-SC/UPC, Single mode duplex 1 meters, dia. 2.0 mm | | KM | 50 | AND | |
| 9 | Patch Cords | Patch cord-FC/UPC-SC/UPC, Single mode duplex 5 meters, dia. 2.0 mm | | No | 50 | AND | |
| 10 | Patch Cords | Patch cord-FC/UPC-SC/UPC, Single mode duplex 10 meters, dia. 2.0 mm | | No | 50 | AND | |
| 11 | Drop Cable | Drop fiber cables, 2 Fibers, 8mm cable diameter with aramid Yarn (self-supporting) | | KM | 10 | AND | |
| 12 | Drop Cable | Drop fiber cables, 12 Fibers, 8mm cable diameter with aramid Yarn (self-supporting) | | KM | 5 | AND | |
| 13 | Drop Cable | Drop fiber cables, 24 Fibers, 8mm cable diameter with aramid Yarn (self-supporting) | | km | 10 | AND | |
| 14 | ADSS Accessories | Two-Way Pole clamp for ADSS Fiber Cable, Cable Dia: 14mm; Pole Clamp dia: 100-130mm. | | Nos | 50 | AND | |
| 16 | ADSS Accessories | Two ways Tension set and Helix for 14mm Dia fiber cable including-Bow Shackle,extension link,bolts,clevis thimble & reinforcing Thimble | | Nos | 100 | AND | |
| 17 | OFDB | Indoor Termination FTIH Optical Fiber Distribution Box Enclosure for the 8mm diameter drop cable with one SC/ UPC loaded adapter & SC/UPC pigtail-1 mtr. | | Nos | 100 | AND | |
| 18 | OFDB | Indoor Termination FTIH Optical Fiber Distribution Box Enclosure for the 8mm diameter drop cable 2 entry ports with 6 SC/ UPC loaded adapter & SC/UPC pigtails-1 mtr. | | Nos | 50 | AND | |
| 19 | SFP | Optical functional module,1000BASE-T -SFP RJ45Electrical Module, Auto Negotiate,100m ,- 40~85degC | | Nos | 50 | AND | Huawei & Cisco Compatible |
| 20 | SFP | 10G SM spf+ (10KM) | | Pair | 10 | AND | |
| 21 | SFP | 10G SM spf+ (2 KM) | | Pair | 20 | AND | |
| 22 | SFP | 10G SM spf+ (40 KM) | | Pair | 5 | AND | |
| 23 | SFP | STM-1 sfp | | Pair | 5 | AND | |
| 24 | CPRI Cable | CPRI Cable (SM) | | Rlls | 10 | AND | |
| 25 | TXFP | TXFP | | Pair | 5 | AND | Huawei & Cisco Compatible |
| 26 | Joint Enclosure | Fiber Optic Joint Enclosure (Easy Box)-4 ways | | Nos | 100 | AND | |



Fiber optic materials description for the year 2024.

1. Patch cord- SC/UPC- LC/UPC single mode, Duplex 1 & 5 meters, Dia.2.0mm.



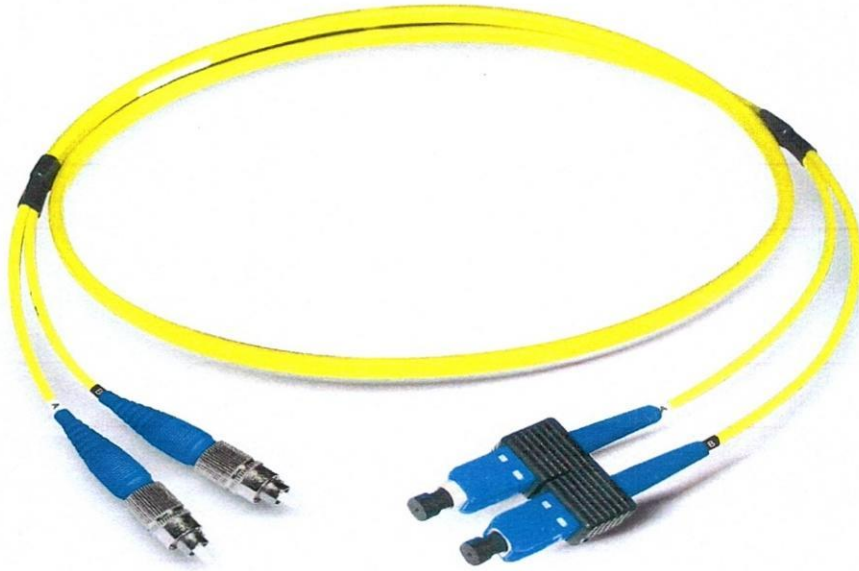
2. Patch cord-LC/UPC-LC/UPC Single mode, Duplex 0.5, 5 & 10 meters Dia 2.0mm



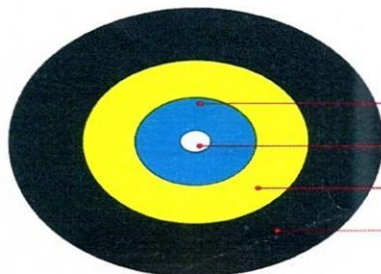
3. Patch cord-SC/UPC- SC/UPC, duplex Single mode Patch Cord, 0.5 & 5 meters, dia.2.0mm



4. Patch cord-FC/UPC-SC/UPC, Single mode duplex 1, 5 & 10 meters, dia. 2.0 mm.



5. Drop fiber cables, 2-12-24 Fibers, 8mm cable diameter with aramid Yarn (self-supporting)

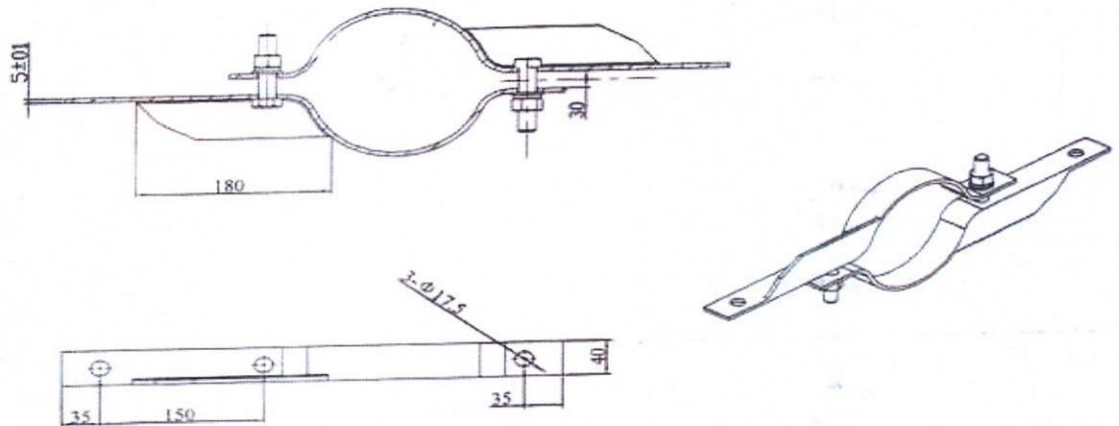


Buffer Layer
Colored Fiber
Aramid Yarns
TPU/LSZH sheath



6. Two-Way Tension set for ADSS Fiber Cable, Cable Dia: 14mm; Pole Clamp dia. 100-130mm

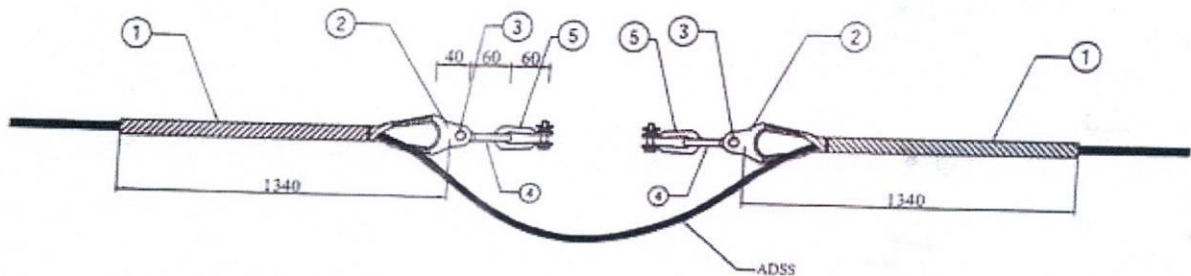
Pole clamp for tension Tubular pole



Note:

1. Pole diameter range, $\phi = 100 - 130\text{mm}$
2. Hot-galvanization.

7. Two ways Tension set and Helix for 14mm Dia fiber cable

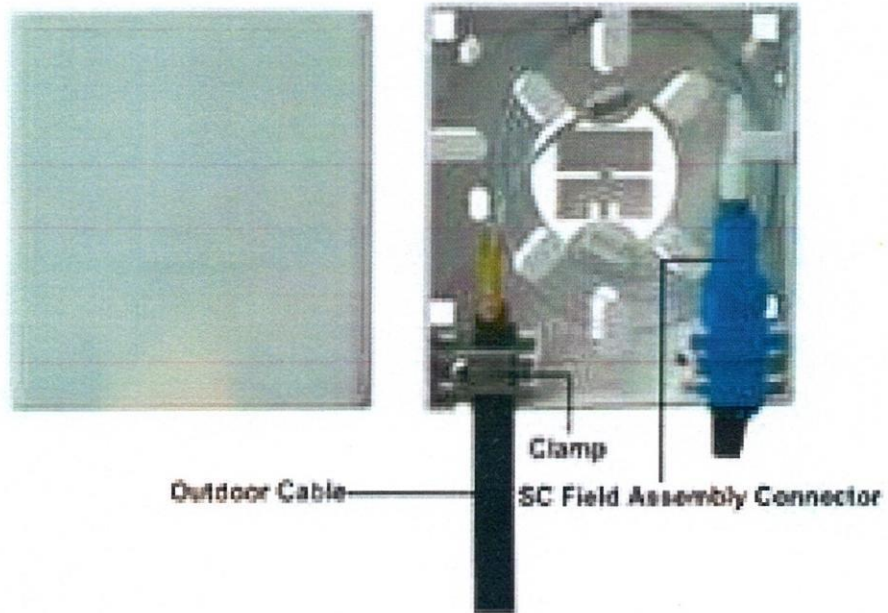


| | | | | |
|------|------|-----------------|-----------|-----------------------|
| 5 | 2 | Bow shackle | U-4 | Forged Steel |
| 4 | 2 | Extension Link | ZH-4 | Forget Steel |
| 3 | 2 | Bolt | M12*50 | Forget Steel |
| 2 | 2 | Clevis Thimble | UXL-40 | Steel or Ductile iron |
| 1 | 2 | Reinforcing rod | SAT015155 | Al clad steel |
| Item | Qty. | Description | Type | Material |

1. Span length = 100 M
2. To ensure diameter of cable from 14.3 to 15.3 mm
3. Max. tensile strength $\geq 13\text{KN}$



8. Indoor Termination FTTH Optical Fiber Distribution Box Enclosure for the 8mm diameter drop cable with one SC/UPC loaded adapter & SC/UPC pigtail-1 mtr.



9. Indoor Termination FTTH Optical Fiber Distribution Box Enclosure for the 8mm diameter drop cable 2 entry ports with 6 SC/UPC loaded adapter & SC/UPC pigtailed-1 mtr.



Team-28

10/100/1000base t copper SFP (Distance: 100m)

Features:

- Hot-Pluggable SFP
- Compliant with SFP MSA
- Compliant with IEEE Std 802.3-2002
- Fully Metallic Enclosure for Low EMI
- Compact RJ-45 Connector Assembly
- Detailed Product Information in EEPROM
- Operating Case Temperature: Standard: 0~70°C
- Access to Physical Layer IC via 2-Wire Serial Bus
- Support 10Gbase-T / 5Gbase-T / 2.5Gbase-T / 1000base-T/100 BASE-T
- 10 Gigabit Ethernet over Cat 6a cable, Gigabit Ethernet over UTP Cat5 Cable

Application

- 10/100/1000Base-T LAN
- Gigabit Ethernet
- Switch to Switch Interface
- Router/Server Interface



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10Gbps SFP+ Optical Transceiver, 2KM, 10km or 40km Reach

Features:

- Optical interface compliant to IEEE 802.3ae 10GBASE-LR
- Electrical interface compliant to SFF-8431
- Hot Pluggable
- 1310nm DFB transmitter, PIN photo-detector □
- Operating case temperature:
 - Standard: 0 to +70°C
 - Industrial: -40 to +85°C
- Low power consumption
- Applicable for 2KM, 10km or 40km SMF connection
- All-metal housing for superior EMI performance
- Advanced firmware allow customer system encryption information to be stored in transceiver
- Cost effective SFP+ solution, enables higher port densities and greater bandwidth

Product Description

This 1310 nm 10G SFP+ LR transceiver is a very compact 10Gb/s optical transceiver module for serial optical communication applications at 10Gb/s. The TSPLXG20D converts a 10Gb/s serial electrical data stream to 10Gb/s optical output signal and a 10Gb/s optical input signal to 10Gb/s serial electrical data streams. The high-speed 10Gb/s electrical interface is fully compliant with SFI specification.

The high performance 1310nm DFB transmitter and high sensitivity PIN receiver provide superior performance for Ethernet applications at up to 10km or 40km links

The SFP+ Module compliants with SFF-8431, SFF-8432 and IEEE 802.3ae 10GBASE-LR. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472. The fully SFP compliant form factor provides hot pluggability, easy optical port upgrades and low EMI emission.



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Optical Parameters (TOP = 0 to 70 °C, VCC = 3.135 to 3.465)

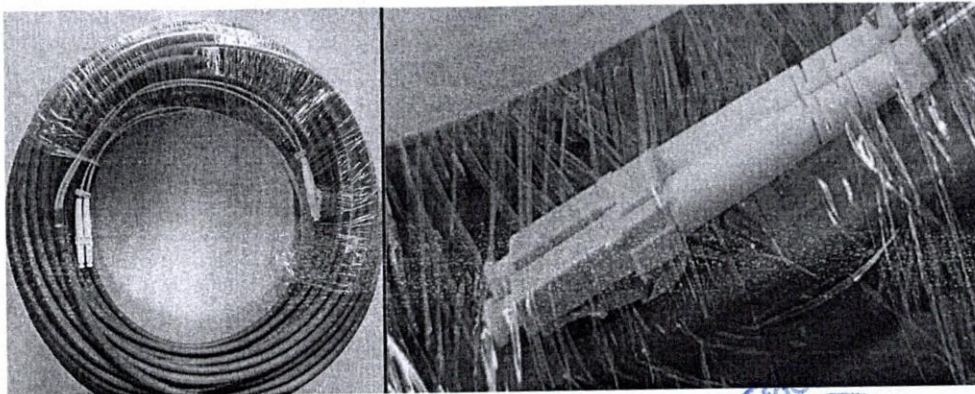
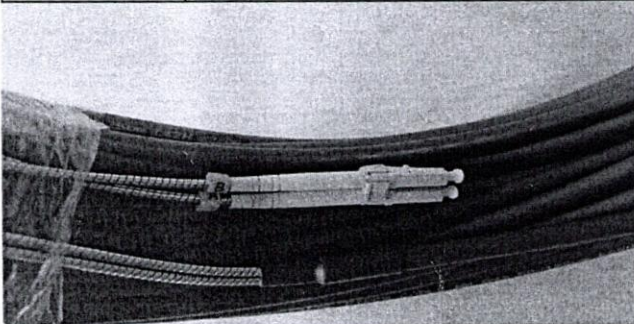
| Parameter | Symbol | Min. | Typical | Max. | Unit | Note |
|--------------------------------|-----------------|------|---------|-------|-------|------|
| Transmitter Section: | | | | | | |
| Center Wavelength | λ_t | 1290 | 1310 | 1330 | nm | |
| spectral width | $\Delta\lambda$ | | | 1 | nm | |
| Average Optical Power | Pavg | -8.2 | | 0.5 | dBm | 1 |
| Optical Power OMA | Poma | -5.2 | | | dBm | |
| Laser Off Power | Poff | | | -30 | dBm | |
| Extinction Ratio | ER | 3.5 | | | dB | 7 |
| Extinction Ratio | ER | 6 | | | dB | 6 |
| Transmitter Dispersion Penalty | TDP | | | 3.2 | dB | 2 |
| Relative Intensity Noise | Rin | | | -128 | dB/Hz | 3 |
| Optical Return Loss Tolerance | | 20 | | | dB | |
| Receiver Section: | | | | | | |
| Center Wavelength | λ_r | 1260 | | 1355 | nm | |
| Receiver Sensitivity | Sen | | | -14.5 | dBm | 4,7 |
| Receiver Sensitivity | Sen | | | -14.5 | dBm | 4,6 |
| Stressed Sensitivity (OMA) | SenST | | | -10.3 | dBm | 4 |
| Los Assert | LOSA | -25 | | - | dBm | |
| Los Dessert | LOSD | | | -15 | dBm | |
| Los Hysteresis | LOSH | 0.5 | | | dB | |
| Overload | Sat | 0 | | | dBm | 5 |
| Receiver Reflectance | Rrx | | | -12 | dB | |

CPRI Patch Cords**Features:**

- The CPRI patch cords are used for outdoor RRU transmitting optical signal and remote fiber feeder
- Standard Duplex LC connector, well connected with standard LC adaptor
- Available Single mode and Multimode
- IP67 protection, salt-mist proof, humidity proof, dustproof
- Low insertion/return loss, steady optical transmitting.
- Lightweight, waterproof, dustproof, moisture-proof, Metal hard housing
- Diameter: 8mm
- LSZH Cable
- Fiber length: 50 Meters

G.652D

| No. | Items | Unit | Specification | |
|-----|--------------------------------------|--------|---------------|-----------------------|
| | | | G.652D | |
| 1 | Mode Field Diameter | 1310nm | μm | 9.2±0.4 |
| | | 1550nm | μm | 10.4±0.5 |
| 2 | Cladding Diameter | | μm | 124.8±0.7 |
| 3 | Cladding Non-Circularity | | % | ≤0.7 |
| 4 | Core-Cladding Concentricity Error | | μm | ≤0.5 |
| 5 | Coating Diameter | | μm | 245±5 |
| 6 | Coating Non-Circularity | | % | ≤6.0 |
| 7 | Cladding-Coating Concentricity Error | | μm | ≤12.0 |
| 8 | Cable Cutoff Wavelength | | nm | $\lambda_c \leq 1260$ |
| 9 | Attenuation (max.) | 1310nm | dB/km | ≤0.4 |
| | | 1550nm | dB/km | ≤0.3 |



Fiber Optic Joint Enclosure (Easy Box).4-ways

