

**DRUK GREEN POWER CORPORATION LIMITED
MATERIAL MANAGEMENT DIVISION
PHUENTSHOLING: BHUTAN**



STANDARD BIDDING DOCUMENT

SUPPLY AND DELIVERY OF OFFICE EQUIPMENT

NIT No. MMD0026/2024 Date: 28/02/2024
File No. DGPC/MMD/OE/2024/105

These documents are meant for the exclusive purpose of bidding against this NIT and shall not be transferred, reproduced or otherwise used for purposes other than that for which they are specifically issued.



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NOTICE INVITING TENDER

NIT No. MMD0026/2024

Date: 28/02/2024

Material Management Division (MMD), Druk Green Power Corporation Limited, invites eligible domestic bidders to submit sealed bid for the supply and delivery of **Office Equipment** as per the following Terms and Conditions:

TERMS AND CONDITIONS

1 Scope of Supply

- 1.1 The scope of supply under this invitation shall be as per the Technical Specification and Price Schedule attached to this Bidding Document.
- 1.2 The bidder(s) can obtain further information and clarifications in writing from Ms. Punam Mongar, email: p.mongar3560@drukgreen.bt not later than Five Days from the date of bid submission.

2 Documents comprising Bid

- 2.1 The bid must be accompanied by the following documents:
 - a) Bid Submission Form
 - b) Bid Security
 - c) Valid Trade License/Certificate of Incorporation
 - d) Latest Tax Clearance
 - e) Price Schedule
 - f) Power of Attorney (if applicable)

3 Bid Price

- 3.1 All prices shall be quoted in **BTN**. The quoted price shall be firm during the entire period of the performance of the contract and shall not be subject to variation on any account unless otherwise specified by Purchaser in the Bid Documents.
- 3.2 The final place of delivery is **CIP, MMD Stores, DGPC, Phuentsholing; Bhutan**.
- 3.3 The bidder(s) may quote for any or all items under this invitation. Each item shall be evaluated and contract awarded separately to the firm(s) offering the lowest evaluated price for each item.

4 Taxes and Duties

- 4.1 For Goods manufactured outside Bhutan, the Supplier shall bear and pay all applicable taxes, stamp duties, license fees and other similar levies imposed outside Bhutan as applicable in line

with the Incoterms. Any domestic taxes, duties and any other levies imposed on import of goods into Bhutan, except TDS, shall be borne and paid by the Purchaser.

- 4.2 For Goods manufactured or supplied by the Suppliers from the Kingdom of Bhutan, the Supplier shall bear all applicable taxes, duties, license fees and other similar levies incurred until delivery of the contracted Goods to the Place of Delivery.
- 4.3 Bidders participating from India and supplying materials and services from within India for bonafide use in the Kingdom of Bhutan shall quote the rates for the items in the Price Schedule exclusive of any effect of Indian Goods and Service Tax (IGST). The IGST on the export of goods and services or both are covered under Zero Rated Supply as per Chapter VII, 16(1) of the INTEGRATED GOODS AND SERVICES TAX ACT, 2017 of India.

5 Bid Validity

- 5.1 The bid shall be valid for **60 days** from date of bid submission, i.e. up to **25/05/2024** from the date of submission of the bid. In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may solicit the Bidder's consent to an extension of the bid validity period. The request and responses shall be made in writing. A bid valid for a shorter period shall be considered non-responsive.

6 Bid Security

- 6.1 The bid shall be accompanied by the bid security of **BTN 29,000.00** in the form of Cash Warrant/Unconditional Bank Guarantee/Banker Cheque/Demand draft in the name of Material Management Division, Druk Green Power Corporation Limited issued by the Financial Institution enforceable in any Banks in Bhutan.
 - a) The Bid security shall be valid up to **24/06/2024**
 - b) The Bid Security is to be submitted as a part of the Bid.
 - c) Any Bid not accompanied by bid security of adequate value and validity shall be rejected by the Purchaser as non-responsive.
- 6.2 The bid security shall be forfeited in the following cases:
 - a) If the Bidder withdraws the bid after Bid opening during the period of Bid validity.
 - b) If the Bidder does not accept the correction of the Bid price;
 - c) In the case of a successful bidder, if the bidder fails within the specified time limit to sign the Contract or furnish Performance Security.

7 Submission of Bids

- 7.1 The bidder(s) shall submit one original bid and clearly marked ORIGINAL. The bid including all documents should be duly filled, signed and sealed in an envelope and addressed to and delivered at the following address.

Designation: **Head**

Address: **Material Management Division, Phuentsholing, Bhutan**

Telephone: 05-254465

E-mail: **s.pema1815@drukgreen.bt**

The bid shall contain the NIT reference and date including the date of opening. The same should be clearly mentioned on the outer envelope.

- 7.2 Alternatively, bid including all documents duly filled, signed and sealed/stamped may be submitted electronically with pass word protection at the following address: **[Not Applicable]**
- 7.3 The deadline for receipt of your bid(s) by the Purchaser shall be at **26/03/2024 at 15:00 hrs. (BST)**.
- 7.4 The Bidder shall submit the Bid Submission Form using the Form attached in this Bidding Document. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
- 7.5 A bid in which the Bid Submission Form is not duly filled, signed and sealed by the bidder shall be rejected.

8 Bid Opening

- 8.1 The bid(s) will be opened in the presence of bidders or their authorized representatives who choose (not more than two representatives) to attend at **26/03/2024 at 15:30 hrs. (BST), MMD office**. In case, due date of the opening of the bid falls on non-working day, the opening of the bid shall be on the next working day at the same time.

9 Evaluation of Bid

- 9.1 Bids determined to be substantially responsive to the technical specifications and commercial conditions shall be evaluated by comparison of their quoted prices. In evaluating the bids, the Purchaser shall determine for each bids the evaluated price by adjusting the priced bid by making any correction for any arithmetical errors as follows;
- where there is a discrepancy between amounts in figures and in words, the amount in words shall govern;
 - where there is discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted shall govern unless in the opinion of the Purchaser there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line-item total as quoted shall govern, and the unit rate shall be corrected.
- 9.2 To assist in the evaluation and comparison of the Bids, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to the request by the Purchaser shall not be considered.

10 Right to Accept or Reject Bids

- 10.1 The Purchaser is not bound to accept the lowest bid and reserves the right to accept or reject any or all the bids without assigning any reason whatsoever.
- 10.2 "In case of rejection of any item, the supplier shall refund the taxes paid by purchaser during the time of import".

11 Quantity Variation

- 11.1 Depending on the final requirement, at the time of the award of the Contract, the Purchaser may increase or decrease the quantities by twenty five percent (25%) of the total quantity of the item without any change in the unit prices or other terms and conditions of the Bid and the Bidding Document.

12 Award of Contract

- 12.1 The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated Bid meeting the specifications. The Purchaser shall issue Notification of Award/Purchase Order to the successful Bidder. The successful bidder shall sign a contract as per the format attached to this Bidding Document. Until a formal Contract is executed, the Notification of Award shall constitute a binding Contract.

13 Delivery Schedule

- 13.1 The supply of the Goods and related service shall be completed within **90 (Ninety)** days from the date of issue of the Notification of Award/Purchase Order.

14 Performance Security

- 14.1 If the contract value is above Nu. 0.50 Million prior to signing of contract, the Supplier shall be required to furnish Performance Security of 10% of the contract price in the form of cash warrant, demand draft or unconditional Bank Guarantee in the name **Material Management Division, Druk Green Power Corporation Limited, Phuentsholing, Bhutan** issued by a financial institution enforceable in any Banks in Bhutan, which shall be furnished upon issuance of notification of the award. Performance Security shall be valid till the end of warranty period and shall be returned after the end of warranty period. Under exceptional circumstances, if submission of Performance Security in the above forms is not possible, the Supplier shall be allowed to deposit Performance Security in the form of cash deposit through bank transfer.
- 14.2 **Bidder shall submit Performance Security separately for Druk Green Power Corporation and Dagachu Hydro Power Corporation based on the purchase order placed.**



15 Retention Money

- 15.1 In case of contract value up to BTN 0.50 million, 10% of payment shall be retained as security deposit and shall be returned at the end of the warranty period.
- 15.2 Retention money will not be applicable for the item without warranty period. However, in case of part supply, 10% of the invoiced amount will be kept as retention money until the execution of full supply of goods in good condition.
- 15.3 **Separate Retention Money for DGPC and DHPC based on the purchase order.**

16 Liquidated Damage

- 16.1 If the Supplier fails to deliver any or all of the Goods by the date(s) of delivery or fails to perform the related Services within the period specified in the Contract/Purchase Order, the Purchaser shall deduct Liquidated Damages at the rate of **0.3%** per day for each day of delay to a maximum of 10% (Ten) percentage of the total value of delayed goods or unperformed services.

In case of delay for supply of an item which can be made in parts, but the item cannot be put to use unless the supplies are complete, the liquidated damage shall be levied up to the maximum 10% of the Contract Price.

17 Force Majeure

- 17.1 The Supplier shall not be liable for forfeiture of its Performance Security/Retention Money, liquidated damages or termination for default if and to the extent that it's delays in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 17.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, war, civil insurrection, fire, floods, epidemics, earthquakes, quarantine restrictions and freight embargoes.
- 17.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.



18 Payment Terms

- 18.1 Payments shall be made promptly by the Purchaser, no later than thirty (30) days after the receipt of invoices and documents, provided that the documents are compliant with all the requirements of the Purchaser. In case of incomplete/ non-compliant invoices and documents, the Purchaser shall ask the Supplier to re-submit the invoices and documents with full compliance. **[Signed with company seal]**
- 18.2 At the time of release of payment, Tax Deducted at Source [TDS] from the gross amount of bills shall be as per the Income Tax Act of the Bhutan. The Purchaser shall furnish necessary TDS Certificate to the Suppliers.

19 Warranty Period

- 19.1 The Supplier shall provide the warranty for a period of **365 days**, for the goods to be supplied and confirm that if any faults are detected within the warranty period in the supplied/installed Goods, the Supplier shall be bound to rectify the fault or replace the Goods as the case may be. The performance security shall be used to cover the cost of supplies not delivered or defective items not replaced or rectified.
- 19.2 Any goods found defective during the warranty period shall be replaced/repaired by the supplier at his cost. If the supplier fails to rectify and or replace the defective goods, the Purchaser shall do it at the cost of the supplier.

20 Termination

- 20.1 The Purchaser may, by written notice, terminate the Purchase Order or Contract [if applicable] in whole or in part at any time for its convenience under following cases:
- a) If the Supplier fails to perform any other terms and conditions specified with the Purchase Order/ Contract, or exceeds the maximum amount of Liquidated Damages; or
 - b) If the Supplier fails to perform any other obligation(s) under the Purchase Order/Contract, and if the Supplier does not take any remedial action within a period of **30 days** after receipt of a notice of default from the Purchaser specifying the nature of the default(s); or
 - c) If the Supplier, in the judgment of the Purchaser, has engaged in any corrupt or fraudulent practices in competing for or in executing the tasks under this Purchase Order.

21 Governing Law

- 21.1 The Contract shall be governed by and interpreted in accordance with the Laws of the Kingdom of Bhutan.



22 Dispute Resolution

- 22.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation of any disagreement or dispute arising between them under or in connection with the contract. If the parties fail to resolve such a dispute or difference by mutual consultation within 30 days from commencement of such consultation, either part may require that the dispute be referred for resolution to the formal mechanisms as specified hereunder.
- 22.2 Any dispute, controversy or claim arising out of or relating to this contract, or breach, termination or invalidity thereof, that could not be resolved through amicable negotiation, shall be settled by arbitration in accordance with the Alternative Dispute Resolution Act of Bhutan 2013 for Bhutanese Supplier and the United Nations Commission on International Trade Law [UNCITRAL] Arbitration Rules of 1976 for International Supplier.



PRICE SCHEDULE

As per Price Schedule Attached

TECHNICAL SPECIFICATION OF THE GOODS REQUIRED (if any)

SN	Item	Description & Details (minimum specifications of goods to be supplied)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

The Supplier is required to mention make/model (as applicable) of the goods to be supplied and must attach the appropriate original printed literature/brochures for the various items listed.

Signature of Supplier:	Supplier's Official Stamp
Name of Supplier:	
Date:	



BID SUBMISSION FORM

[The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: 28/02/2024

Tender No.: **MMD0026/2024**

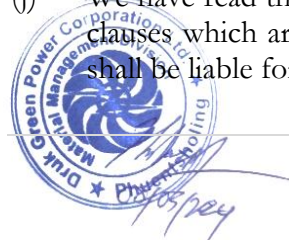
To

*Head, Material Management Division (MMD)
Druk Green Power Corporation Limited (DGPC)
Phuentsholing, Bhutan*

Dear Sir,

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda number.....*[insert the number and date of issue of each addendum];*
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Schedule of Supply the following Goods and Related Services: *[insert a brief description of the Goods and Related Services];*
- (c) The total price of our Bid, excluding any discounts offered in item is: *[insert the Bid Price in words and figures, indicating the various amounts and their respective currencies];*
- (d) The discounts offered and the methodologies for their application are:
Discounts. If our Bid is accepted, the following discounts shall apply: *[Specify in detail each discount offered and the specific item of the Schedule of Supply to which it applies.]*
Methodology of Application of the Discounts. The discounts shall be applied using the following methodology: *[Specify in detail the methodology that shall be used to apply the discounts];*
- (e) Our Bid shall be valid for a period of *[insert number]* from the date fixed for the Bid submission deadline and it shall remain binding upon us and may be accepted at any time before expiry of that period;
- (f) If our Bid is accepted, we commit to provide a Performance Security in accordance with Clause 15 for the due performance of the Contract;
- (g) We, including any subcontractors or suppliers for any part of the Contract, have nationality from eligible countries, viz: *[insert the nationality of the Bidder, including that of all parties that comprise the Bidder if the Bidder is a JV/ Consortium, and the nationality each subcontractor and supplier]*
- (h) We have no conflict of interest;
- (i) Our firm, its affiliates or subsidiaries - including any subcontractors or suppliers for any part of the contract - has not been declared ineligible by the Purchaser under the laws or official regulations of Bhutan;
- (j) We have read the terms and conditions carefully, understood and agree to comply with all the clauses which are mentioned therein. In case of any breach of any condition on our part, we shall be liable for actions as per terms and conditions of the Contract;



- (k) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (l) We understand that you are not bound to accept the lowest evaluated Bid or any other Bid that you may receive; and
- (m) We accept the Vendor Performance Management System.

Thanking you.

Yours sincerely,

Signed: *[insert signature of person whose name and capacity are shown]*

In the capacity of *[insert legal capacity of person signing the Bid Submission Form]*

Name: *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____ *[insert date of signing]*



CONTRACT AGREEMENT

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS CONTRACT AGREEMENT made the *[insert number]* day of *[insert month]*, *[insert year]*,

BETWEEN

- 1) *[insert complete name of Purchaser]*, a *[insert description of type of legal entity, for example, an agency of the Ministry of of the Government of Bhutan, or corporation incorporated under the laws of Bhutan]* and having its principal place of business at *[insert address of Purchaser]* (hereinafter called “the Purchaser”), and
- 2) *[insert name of Supplier]*, a corporation incorporated under the laws of *[insert: country of Supplier]* and having its principal place of business at *[insert: address of Supplier]* (hereinafter called “the Supplier”).

WHEREAS the Purchaser invited Bids for certain Goods and ancillary services, viz., *[insert brief description of Goods and Services]* and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of *[insert Contract Price in words and figures, expressed in the Contract currency(ies)]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1) In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- 2) The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract, viz.:
 - a) This Contract Agreement;
 - b) Terms and Conditions;
 - c) Technical Requirements (including Price Schedule and Technical Specifications);
 - d) The Supplier’s Bid and original Price Schedules;
 - e) The Purchaser’s Notification of Award of Contract;
 - f) The Performance Security *(where applicable)*;
 - g) *[insert here any other document(s) forming part of the Contract]*
- 3) This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.
- 4) In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.



- 5) The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Related Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Bhutan on the day, month and year indicated above.

For and on behalf of the Purchaser Signed: *[insert signature]*
in the capacity of *[insert title or other appropriate designation]*

in the presence of *[insert signature]*
[insert identification of official witness]

For and on behalf of the Supplier
Signed: *[insert signature of authorized representative(s) of the Supplier]*
in the capacity of *[insert title or other appropriate designation]*

in the presence of *[insert signature]*
[insert identification of official witness]



PRICE SCHEDULE

S. NO	Material Code	Material Code	QTY (DGPC)	QTY (DHPC)	Total Qty	UOM	Unit Rate		Total Amount (Nu)	Make/ Brand	Country of Origin
							Figure	Word			
1	20000002134	Unified wireless G PoE Access Point:"• High performance. Up to 300Mbps of network throughput• Self-configuring Cluster. • Unified Management. Works with Unified Management System, enabling administrators to effectively manage hundreds of access points• Automatic RF Management. • Quality of Service. Advanced QoS mechanism may be put in place to ensure that high priority traffic isn't interrupted in the event of network congestion.	0	2	2	No				D-Link/ Equivalent or Higher	
2	20000002285	TP link media convertor unit	1	0	1	No				TP Link/ Equivalent or Higher	
3	20000003007	Manageable Switch 24 port with SFP & POE	1	0	1	No				TP Link/ Equivalent or Higher	



S. NO	Material Code	Material Code	QTY (DGPC)	QTY (DHPC)	Total Qty	UOM	Unit Rate		Total Amount (Nu)	Make/ Brand	Country of Origin
							Figure	Word			
4	20000004070	Network Crimping Tool: Conductors: 26 AWG (0,14 mm ²) tinned copper, Insulation: Density Polyethylene, Nom. Dia. 0,039" (1mm), Assembly: Pairs cabled with Kevlar strength members and separation tape wrapped, Shields: Inner: Aluminiummylar 100% coverage Outer: tinned copper braid 80% coverage	2	0	2	No				D- Link/ Equivalent or Higher	
5	20000005424	Camera Logitech QCAM group conference: Camera Logitech QCAM group conference P/N 960-001054 Microphone Logitech QCAM Group conference Cam Liv P/N 989-000171	0	1	1	No				Sony/ Equivalent or Higher	
6	20000005859	Fiber Splicing Machine with OTDR: Technical specification as per Annexure-I	1		1	Set				Fujikura/ Equivalent or Higher	
7	20000006000	TP-Link Archer AX1800 Dual-band Wi-Fi6 router	0	2	2	No				TP Link/ Equivalent or Higher	
8	5000000010	Ethernet cable, UTP cat 6E	610	0	610	M				TP Link/ Equivalent or Higher	



S. NO	Material Code	Material Code	QTY (DGPC)	QTY (DHPC)	Total Qty	UOM	Unit Rate		Total Amount (Nu)	Make/ Brand	Country of Origin
							Figure	Word			
9	5000000015	Network Cable Tester: It can quickly test Ethernet 10Base-T(TP/STP), AT & T258A, EIA/TIA568A/B, 8-Position Token Ring, and USOC4/6/8 modular cable. Automatic test for open Circuits, Shorts, miswires, and reversals. 9V battery. Accessories: Carrying Case, Test Leads, manual	2	0	2	No				TP Link/ Equivalent or Higher	
10	5000000190	Optic Fiber Patch Cord LC/SC Duplex 2m long	4	0	4	No				Fujikura/ Equivalent or Higher	
11	5000000201	CAT 6A Cable: Conductors: 26 AWG (0,14 mm ²) tinned copper, Insulation: Density Polyethylene, Nom. Dia. 0,039" (1mm) Assembly: Pairs cabled with Kevlar strength members and separation tape wrapped, Shields: Inner: Aluminiummylar 100% coverage Outer: tinned copper braid 80% coverage. Jacket: Black, special PUR compound. Min bend radius (During installation): 72mm (10x O. D.) Min bend radius (During operation): 36mm (5 x O.D.) Min flexes to failure: Passes IEC 61156-6 requirements Temperature: -40°C (-40°F) / + 85°C (185°F)	305	0	305	M				TP Link/ Equivalent or Higher	



S. NO	Material Code	Material Code	QTY (DGPC)	QTY (DHPC)	Total Qty	UOM	Unit Rate		Total Amount (Nu)	Make/ Brand	Country of Origin
							Figure	Word			
12	5000000250	Fiber Media Converter: Simplex MultiMode 10/100/1000Base-TX to 1000Base-FX Single Fiber WDM Media Converter to GigaEthernet converter. (A&B)	25	6	31	No				D-Link/ Equivalent or Higher	
13	5000000300	Fiber splice enclosure	10	0	10	No				D-Link/ Equivalent or Higher	
14	5000000370	Network toolkit	2	0	2	Set				D-Link/ Equivalent or Higher	
15	5000000400	Fibre joint slave (sleeve)	10	0	10	No				D-Link/ Equivalent or Higher	
16	5000000493	Punch Down Tool	2	0	2	No				D-Link/ Equivalent or Higher	
17	5000000694	Protek power adopter (model PSO524NAC)	10	0	10	No				Protek / Equivalent or Higher	
18	5000001015	Duplex Fiber Patch Cord, Single Mode LC-LC LC-10M	4	0	4	No				D-Link/ Equivalent or Higher	
19	7000000112	Extension cord, 15A	5	0	5	No				Orpat/ Equivalent or Higher	



S. NO	Material Code	Material Code	QTY (DGPC)	QTY (DHPC)	Total Qty	UOM	Unit Rate		Total Amount (Nu)	Make/ Brand	Country of Origin
							Figure	Word			
20	20000002178	High end desktop: Technical specification as per Annexure-II	3	0	3	No				Dell/ Equivalent or Higher	
21	20000005946	Monitor 32": Technical specification as per Annexure-III	1	0	1	No				Dell/ Equivalent or Higher	
Total Amount in Figure:											
Total Amount in Words:											

NOTE: The requirement of DHPC shall be segregated from DGPC and the order will be place by DHPC directly to the suppliers. However, MMD shall place the order for DGPC. Terms and conditions shall be same except for the submission of performance security/retention money as indicated in the tender document.



Technical specification as per Annexure-I

SPLICING MACHINE



- Fast 6sec Splicing Time
- 5mm to 16mm Cleave Length
- Total 100 Splice Modes
- 200 Splice Cycles
- Active V-groove fiber alignment

Product – Splicing Machine

Model – FSM-28S

Usage – Splicing of Optical Fiber

Splicing Modes – Total of 100 splice modes

Splicing time – Typical 9 sec SM AUTO

TECHNICAL SPECIFICATION

Product Name	Splicing Machine
Model Number	FSM-28S
Usage/Application	Splicing Of Optical Fiber
Applicable Fibers	Single / SMF (G/652/657), MMF (G.651), DSF (G.653), NZDSF (G.655)
Cladding Diameter	125 μ m / up to 3mm with sheath clamp
Fiber Cleave Length	5 mm to 16 mm
Fiber Display	4.7 inch
Typical Splicing Time	6 sec SM Fast, 9 sec SM Auto
Typical Tube Heating Time	25 sec FP-03, coating dia.250 μ m
Splicing Modes	Total 100 splice modes
Storage of Splice Result	Last 10,000 splices
Typical Splice loss	0.03dB (SM), 0.01dB (MM), 0.05dB (DS) and 0.05dB (NZDS)



Return Loss	>>60dB
Viewinh Methods/Magnification	2 axis 2CMOS camera with 5.0-inch color LCD, 132X magnification, 200X magnification after splicing
Mechanical Proof Test	1.96 N to 2.25N
Protection Sleeve Length	60mm, 40 mm, Fujkura micro sleeves
No. of Splice/Heat Cycles with Battery full charge	Typical 200 cycles with BTR-11
Electrode Life	Typical 5,000 splices
Operating Condition	Attitude: 0 to 5,000m above sea level Wind: 15m/sec, Temperature: 10 to 50deg C Humidity: 0 to 95% RH, non-dew
Resistance Feature	Shock Resistance: 76cm (30inch) bottom surface drop Dust Resistance: Exposure to Dust (0.1 to 500µm dia. Alumina Silicate), IP5X Rain Resistance: H=10mm/hr for 10min, IPX2
Other Features	PC software upgrade/data management
Dimension (W x D x H)	131 x 210 x 79 mm
Weight (including battery)	1300 gm
Terminals	USB 2.0 (Mini-B-Type) connector for PC communication
Battery Backup	Extra battery required for backup along with battery charger.



OTDR Specification.

9 in 1 function



1. OTDR
2. Event mapping
3. Optical power meter
4. Visual fault locator
5. Stable light source
6. Ethernet cable distance
7. Ethernet cable tracker
8. RJ45 Cable sequence
9. LED light

Industry-specific attributes

Type: OTDR

Other attributes

Model Number: NK3200
Brand Name: SUNET/OEM
Use: FTTH FTTB FTIX Network
Warranty Time: 2 year
Network: Wireless Lan, WiFi, 4g, 3G
Product name: Mini Pro Otdr Reflectometer
Wavelength: 1310/1550nm
Weight: 1.5kg
Connector: FC/SC/ST
Pulse Width: 3ns~10us
Output Power: $\geq -5\text{dBm}$
Size: 173*80*37mm
Application: FTTH FTTB FTIX Network
Material: Plastic
Type Name: Testers & Tools



Annexure-II

Sl No	Description of Specifications	High End Desktop
1	Processor	13th Gen Intel® Core™ i7-13700 (30 MB cache, 16 cores, 24 threads, 2.10 GHz to 5.20 GHz Turbo, 65 W)
2	Operating System	Windows 11 Pro License English with Genuine OEM operating system
3	Memory	16GB, 2x8GB, DDR4 non ECC memory
4	Hard Drive	M.2 500 GB PCIe NVMe Class 40 SATADDD
5	Graphic	12GB (Intel®Iris® Xe Graphics, NVIDIA GeForce, etc.)
6	Display	LED-backlit LCD monitor - 24"
7	Network	Intel Wi-Fi 6 AX201, Dual-band 2x2 802.11ax with MU-MIMO + Bluetooth 5.1
8	Wireless	Intel® Wi-Fi 6E AX211 2x2 802.11ax 160MHz + Bluetooth 5.2
9	Primary Battery	No required
10	Keyboard	USB QWERTY keyboard
11	Mouse	USB optical Mouse
12	Carrying Case	No required
13	Type	Small Form Factor
14	Warranty	1 Years ProSupport with Next Business, Day Onsite Service



Technical specification as per Annexure-III

32' Monitor		
1	Display Type	LED-backlit LCD monitor / 'TFT' active matrix
		Diagonal Size, 31.5"
		Built-in Devices USB 3.2 Gen 2/USB-C hub
		Panel Type IPS Black Technology
		Aspect Ratio 16:9
		Native Resolution 4K 3840 x 2160 at 60 Hz
		Color Gamut 100% Rec 709, 100% sRGB, 98% DCI-P3
		Backlight Technology LED backlight
		Screen Coating Anti-glare, 3H Hard Coating
2	Connectivity	Interfaces
		HDMI (HDCP 2.2)
		DisplayPort 1.4
		DisplayPort output
		USB-C upstream/DisplayPort 1.4 Alt Mode with Power Delivery (power up to 90W, HDCP 2.2)
		USB-C 3.2 Gen 2 upstream
		USB-C 3.2 Gen 2 downstream (power up to 15W)
		4 x USB 3.2 Gen 2 downstream
		USB 3.2 Gen 2 downstream with Battery Charging 1.2
3	Power	Audio line-out (mini-jack)
		LAN (RJ-45)
		Input Voltage AC 100-240 V (50 / 60 Hz)

