

**Bangladesh Coast Guard Force
Agargaon Administrative Area
Sher-e-Bangla Nagar, Dhaka-1207**

**TENDER DOCUMENT
FOR THE PROCUREMENT OF
GOODS (NATIONAL)**

(OTM)

**Purchase of Various Test/Splicing Equipment for
Optical Communication System
01 Lot**

**Invitation for CGHQ IT & Communication Tender No: 44.08.2680.005.02.001.19.42
Date: 05 February 2019.**

Section 2. Tender Data Sheet

Instructions for completing the Tender Data Sheet are provided, as needed, in the notes in italics and under lined mentioned for the relevant ITT clauses.

ITT Clause	Amendments of, and Supplements to, Clauses in the Instruction to Tenderers													
A. General														
ITT 1.1	<p>The Procuring Entity is Director IT & Communication, Bangladesh Coast Guard Force Headquarters, Agargaon Administrative Area, Dhaka-1207.</p> <p>The Name and identification number of Tender are: 01 Lots of Various Test/Splicing Equipment for Optical Communication System CGHQ IT & Communication Tender No: 44.08.2680.005.02.001.19.42 Date: 05 February 2019.</p> <p>The number, identification and name of lots comprising the Tender are:</p> <p><u>Lot No:1</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">(a)</td> <td style="width: 60%;">Fiber Splicer Machine</td> <td style="width: 15%;">- 02 Nos</td> <td rowspan="4" style="width: 20%; vertical-align: middle; text-align: center;">} As per Section-7</td> </tr> <tr> <td>(b)</td> <td>Last Mile OTDR</td> <td>- 02 Nos</td> </tr> <tr> <td>(c)</td> <td>Power Meter</td> <td>- 02 Nos</td> </tr> <tr> <td>(d)</td> <td>Laser Light</td> <td>- 02 Nos</td> </tr> </table>	(a)	Fiber Splicer Machine	- 02 Nos	} As per Section-7	(b)	Last Mile OTDR	- 02 Nos	(c)	Power Meter	- 02 Nos	(d)	Laser Light	- 02 Nos
(a)	Fiber Splicer Machine	- 02 Nos	} As per Section-7											
(b)	Last Mile OTDR	- 02 Nos												
(c)	Power Meter	- 02 Nos												
(d)	Laser Light	- 02 Nos												
ITT 3.1	The source of public fund is Government of Bangladesh. (GOB).													
ITT 3.3	The name of the Development Partner is Not Applicable.													
ITT 5.1	Tenderers from the following countries are not eligible: None													
ITT 6.1	Goods and Related Services from the following counties are not eligible: None													
B. Tender Document														
ITT 8.2	The following are the offices of the Procuring Entity or authorised agents for the purpose of providing the Tender Document: Not Applicable													
TT 9.1	<p>For <u>clarification of Tender purposes</u> only, the Procuring Entity's address is:</p> <p>Attention: Director IT & Communication.</p> <p>Address: Bangladesh Coast Guard Force, Headquarters, Agargaon Administrative Area, Dhaka-1207.</p> <p>Telephone: 02-8181338</p> <p>Mobile No: 01766690120</p> <p>Electronic mail address: it@coastguard.gov.bd</p>													

ITT 10.1	A Pre- Tender meeting shall be held on : NA
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C. Qualification Criteria

ITT 14.1(a)	The Tenderer shall have a overall experience in the supply of similar goods and related services.
ITT 14.1(b)	The minimum specific experience is supplier in supply of goods : NA
ITT 15.1(a)	The minimum amount of liquid asset or working capital or credit facility is Lot No – 1 - Tk. 2000000/00 <div style="text-align: right; border-left: 1px solid black; border-right: 1px solid black; padding: 5px;"> As supporting documents updated Bank Statement will be appreciated </div> (For Bank Solvency Certificate: The email address of the Issuing Bank including telephone, Mobile & Fax Number to be mentioned with the tender document for official purpose).

D. Preparation of Tender

ITT 21.1(i)	The Tenderer shall submit with its Tender the following additional documents asked vide ITT 28.1(f).
ITT 23.1	Alternatives Tenders shall not be permitted.
ITT 24.3	Tenders are being invited for 01 lots
ITT 26.6	Price quoted for each lot shall correspond at least to 100% of the items specified for each lot and correspond at least to 100 % of the total lot value.
ITT 24.8	The following particular item represents more than fifty percent (50%) of the estimated lot value is: Not Applicable
ITT 28.1(f)	Manufacturer's authorization Required only when the supplier is not the manufacturer. In that case manufacturers consent letter, i.e. the manufacturer will do the work for the supplier, if he gets the work order, should be attached.
ITT 29.1	The Tender validity period shall be 90 days .
ITT 31.1	The amount of the Tender Security shall be : Lot –1. Tk. 50,000/00 (Pay order) (In favour of "AYON O BAYON KORMOKORTA, COAST GUARD FORCE HEAD QUARTERS") <u>(আয়ন ও ব্যয়ন কর্মকর্তা- কোস্ট গার্ড বাহিনী সদর দপ্তর)</u>
ITT 36.1	In addition to the original of the Tender, one copy shall be submitted.

E. Submission of Tender	
ITT 37.2	The inner and outer envelopes shall bear the following additional identification marks : a. CGHQ IT & Communication Tender No: 44.08.2680.005.02.001.19.42 Date: 05 February 2019.
ITT 38.1	For Tender submission purposes ,the Procuring Entity's address is: Attention Director IT & Communication Address: Bangladesh Coast Guard Force, Coast Guard Headquarters, Agargaon Administrative Area, Dhaka-1207. The deadline for submission of Tenders is 12.00 pm. on 25 February 2019.
ITT 38.3	For Tender submission purposes ,the Procuring Entity's address is: <i>[Note:In case of Multiple Dropping sate below the addresses of the Primary Place and Secondary Places] Not Applicable</i>
ITT 38.4	The deadline for the hand-delivering of the Tenders at the Primary Place is: Not Applicable
F. Opening and Evaluation of Tenders	
ITT 44.1	The Tender opening shall take place at Bangladesh Coast Guard Force Headquarters, Dhaka-1207. at 1230 pm. 25 February 2019.
G. Award of Contract	
ITT 60.1	The maximum percentage by which quantities per item may be increased is 20% . The maximum percentage by which quantities per item may be decreased is 20% . <i>[in both instances the maximum percentage is between 15 and 20 %].</i>
ITT 62.1	The amount of Performance Security shall be ten [10%] percent of the Contract Price.
ITT 62.3	The security deposit shall be deducted @ ten (10) percent from the successful Tenderer's payable invoices during Contract implementation. If awarded the Contract.

Section 4. Particular Conditions of Contract

<i>Instructions for completing the Particular Conditions of Contract are provided, as needed, in the notes in italics mentioned for the relevant GCC clauses.</i>	
GCC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
GCC 1.1(n)	The Procuring Entity is Director IT & Communication, Bangladesh Coast Guard .
GCC 1.1(s)	The site(s)/ point(s) of delivery is/are: Bangladesh Coast Guard , Headquarters, Dhaka-1207

GCC 3.1	<p>For notices, the Procuring Entity’s contact details shall be:</p> <p>Attention: Director IT & Communication</p> <p>Address: Bangladesh Coast Guard Headquarters, Agargaon Administrative Area, Dhaka-1207.</p> <p>Telephone: 02-8181338</p> <p>Facsimile number: 02-9140092</p> <p>Electronic mail address: IT@coastguard.gov.bd</p>
	<p>For notices, the Supplier’s contact details shall be:</p> <p>Attention:</p> <p>Address:</p> <p>Telephone:</p> <p>Facsimile number:</p> <p>Electronic mail address:</p>
GCC 7.1(i)	<p>The documents to be furnished by the supplier shall be as follows:</p> <ul style="list-style-type: none"> (a) Attested copy of Valid trade license (b) Attested copy of Latest Income Tax certificate (c) Attested copy of Latest VAT registration certificate (d) Bank solvency (Original) <p>(The minimum amount of liquid asset or working capital or credit facility to be mentioned)</p> <ul style="list-style-type: none"> (e) Manufacturer authorisation letter/Certificate (f) Must be an ISP Company <p><i>(Note: The above requirements should be reviewed by a Procuring Entity on a case-by case basis. With amendments being made as necessary).</i></p>
GCC 8.1	<p>The scope of Supply shall be defined in: “<i>Section-6 Schedule of Supply</i>”</p>

Section 5. Tender and Contract Forms

Form	Title
	<u>Tender Forms</u>
PG3 – 1	Tender Submission Letter
PG3 – 2	Tenderer Information Sheet
PG3 – 3A	Price Schedule for Goods
PG3 – 3B	Price Schedule for Related Services (if requires).
PG3 – 4	Specifications Submission and Compliance Sheet
PG3 – 5	Manufacturer’s Authorisation Letter
PG3 – 6	Tender Security (Pay Order)
	<u>Contract Forms</u>
PG3 – 7	Notification of Award
PG3 – 8	Contract Agreement
PG3 – 9	Pay order/ Bank Guarantee for Performance Security

Forms PG3-1 to PG3-6 comprises part of the Tender and should be completed as stated in ITT Clause 21.

Forms PG3-7 to PG3-09 comprises part of the Contract as stated in GCC Clause 5.

Tender Submission Letter (Form PG3 – 1)

[This letter shall be completed and signed by the Authorized Signatory
Preferably on the Letter-Head pad of the Tenderer].

To: [Contact Person] [Name of Procuring Entity] [Address of Procuring Entity]	Date: 05 February 2019.
Invitation for BCGHQ IT & Communication Tender No: 44.08.2680.005.02.001.19.42	[indicate IFT No]
Tender Package No: GR(IT)-7	[indicate Package No]
Lot No: 01	[indicate number of Lots]

We, the undersigned, offer to supply in conformity with the Tender Document the following Goods and related Services:

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In accordance with ITT Clauses 22 and 23, the following prices and discounts apply to our Tender:

The Tender Price is: *Taka [state amount in figures]*
(ITT Sub-Clause 23.1) *and Taka[state amount in words]*

The conditional/ unconditional discount for being awarded more than one lot in this package is: *Taka [state amount in figures]*
(ITT Sub-Clause 23.9) *and Taka[state amount in words]*

The methodology for Application of the discount is: *[state the methodology]*
(ITT Sub-Clause 23.10)

The advance payment is: *[state the amount based on percentage of the Tender Price]*
(GCC Sub-Clause 27.1)

and we shall accordingly submit an Advance Payment Guarantee in the format shown in Form PG3 - 10.

In signing this letter, and in submitting our Tender, we also confirm that:

- a) our Tender shall be valid for the period stated in the Tender Data Sheet (ITT Sub-Clause 27.2) and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- b) a Tender Security is attached in the form of a *[pay order / bank draft / bank guarantee]* in the amount stated in the Tender Data Sheet (ITT Clause 29) and valid for a period of 28 days beyond the Tender validity date;
- c) if our Tender is accepted, we commit to furnishing a Performance Security in the amount

d) stated in the Tender Data Sheet (ITT Sub-Clause 60.2) in the form stated in Tender Data Sheet (ITT Sub-Clause 60.1) and valid for a period of 28 days beyond the date of completion of our performance obligations;

e) we have examined and have no reservations to the Tender Document, issued by you on *[insert date]*;

including Addendum to Tender Documents No(s) *[state numbers]*, issued in accordance with the Instructions to Tenderers (ITT Clause 11). *[insert the number and issuing date of each addendum; or delete this sentence if no Addendum have been issued]*;

f) we, including as applicable, subcontractor for any part of the contract resulting from this Tender process, have nationalities from eligible countries, in accordance with ITT Sub-Clause 5.1;

g) we are submitting this Tender as a sole Tenderer

h) we are not a Government owned entity as defined in ITT Sub-Clause 5.3

or

we are a Government owned entity, and we meet the requirements of ITT Sub-Clause 5.3];

(delete one of the above as appropriate)

i) we, declare that we are not associated, nor have been associated in the past, directly or indirectly, with a consultant or any other entity that has prepared the design, specifications and other documents, in accordance with ITT Sub-Clause 5.5;

j) we, including as applicable subcontractor have not been declared ineligible by the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive or coercive practices, in accordance with ITT Sub-Clause 5.6;

k) furthermore, we are aware of ITT Sub Clause 4.3 concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;

l) we intend to subcontract an activity or part of the Supply, in accordance with ITT Sub-Clause 16.1 to the following Subcontractor(s);

Nature of the Supply or related service	Name and address of Subcontractor
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m) we, confirm that we do not have a record of poor performance, such as abandoning the Supply, not properly completing contracts, inordinate delays, or financial failure as stated in ITT Sub-Clause 5.8, and that we do not have, or have had, any litigation against us, other than that stated in the Tenderer Information Sheet (Form PG3-2);

n) we are not participating as Tenderers in more than one Tender in this Tendering process. We understand that your written Notification of Award shall become a binding Contract between us, until a formal Contract is prepared and executed;

o) we understand that you reserve the right to accept or reject any Tender, to cancel the Tender proceedings, or to reject all Tenders, without incurring any liability to Tenderers, in accordance with ITT Clause 55.1.

Signature:

<i>[insert signature of authorized representative of the Tenderer]</i>
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Name:

<i>[insert full name of signatory with National ID]</i>

In the capacity of:

<i>[insert designation of signatory]</i>
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Duly authorized to sign the Tender for and on behalf of the Tenderer

[If there is more than one (1) signatory add other boxes and sign accordingly].

Attachment 1: Written confirmation authorizing the above signatory (ies) to commit the Tenderer, in accordance with ITT Sub-Clause 34.3;

Tenderer Information Sheet (Form PG3-2)

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

Invitation for Tender No: 44.08.2680.005.02.001.19.42 Date 05 February 2019
 Tender Package No: GR(IT)-7

A. Individual Tenderers

1. Eligibility Information of the Tenderer [ITT Clauses 5 & 21]	
1.1	Tenderer's Legal Name:
1.2	Tenderer's legal address in Country of Registration
1.4	Tenderer's Year of Registration
1.5	Tenderer's Authorised Representative Information
	Name
	National ID number
	Address
	Telephone / Fax Numbers
	e-mail address
1.6	<p>Attached are copies of original documents of: <i>[check box(es) of the attached original documents]</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Articles of Incorporation or Registration of firm named in 1.1, in accordance with ITT sub-Clause 5.1 and 5.2]</i> <input type="checkbox"/> <i>In case of government owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITT Sub-Clause 5.3</i> <input type="checkbox"/> <i>An affidavit confirming the legal capacity stating that there are no existing orders of any judicial court that prevents either the tenderer or employees of a tenderer entering into or signing a Contract with the Procuring Entity in accordance with ITT clause 5</i> <input type="checkbox"/> <i>An affidavit confirming that the tenderer is not insolvent, in receivership or not bankrupt or not in the process of bankruptcy, not temporarily barred from undertaking their business for financial reasons and shall not be the subject of legal proceedings for any of the foregoing in accordance with ITT Clause 5.</i>

	<ul style="list-style-type: none"> <input type="checkbox"/> A certificate issued by the competent authority of Bangladesh stating that the Tenderer is a Tax payer having valid Tax identification Number (TIN) and VAT registration number or in lieu any other document acceptable to the Procuring Entity demonstrating that the Tenderer is a genuine Tax payer and has a VAT registration number as a proof of fulfilment of taxation obligations in accordance with ITT Clause 5 . <input type="checkbox"/> Documentary evidence demonstrating that they are enrolled in the relevant professional or trade organizations registered in Bangladesh in accordance with ITT Clause 5.
2. Litigation History: [Number of arbitration awards against the tenderer over the period in accordance the ITT Clause 13.1] if no [state "None"]	
3. Qualification Information of the Tenderer:	
3.1	Number of years of overall experience of the Tenderer in the supply of goods and related services as stated under ITT Sub-Clause14.1(a):
3.2	Number of completed supply contracts in the supply of similar goods and related services within the period mentioned in TDS as stated under ITT Sub-Clause14.1(b):
3.3	The supply and/or production capacity of Goods, if applicable, as stated under ITT Sub-Clause 14. (c)
3.4	<p>Number of completed supply contracts in the supply of similar goods and related services of required value within the period mentioned in TDS as stated under ITT Sub-Clause 15.1(a):</p> <ul style="list-style-type: none"> ▪ Number of Contracts: ▪ Value of the Contracts: ▪ Period of the Contract:
3.5	Available liquid assets or working capital or credit facility in accordance with ITT Clause 15.1(b)

Price Schedule for Goods (Form PG3-3A)

Invitation for Tender No:	44.08.2680.005.02.001.19.42	Date:	05 February 2019
Tender Package No:	GR(IT)-7	Package Description:	<i>[enter description as specified in Section 6]</i>
Tender Lot No:	01	Lot Description:	<i>[enter description as specified in Section 6]</i>

A: PRICE OF GOODS (Including Spare Parts, if any) AND DELIVERY SCHEDULE

1	2	3	3	4	5	6	7	8
Item No .	Description Of Item	Country of Origin	Unit of Measurement	Qty Of units Required	Unit price	Total price (col. 4 × 5)	Point of Delivery as per Schedule of Requirement	Delivery Period Offered as per Schedule of Requirement
					(Note1)		(Note2)	

Note 1: Price shall include all customs duties, VAT and other taxes already paid or payable if Contract is awarded and Shall be delivered price in final destination or at point of delivery.

Note 2: The Tenderer will complete these columns as appropriate following the details specified in Section 6: Schedule of Requirements

Signature:	<i>[insert signature of authorized representative of the Tenderer]</i>
Name:	<i>[insert full name of signatory with National ID]</i>
In the capacity of:	<i>[insert designation of signatory]</i>
Duly authorized to sign the Tender for and on behalf of the Tenderer	

Specifications Submission and Compliance Sheet (Form PG3-4)

Invitation for Tender No:	44.08.2680.005.02.001.19.42	Date:	05 February 2019
Tender Package No:	GR(IT)-7	Package Description:	<i>[enter description as specified in Section 6]</i>
Tender Lot No:	01	Lot Description:	<i>[enter description as specified in Section 6]</i>

Item No.	Name of Goods or Related Service	Country of Origin	Make and Model (<i>when applicable</i>)	Full Technical Specifications and Standards
1	2	3	4	5
	FOR GOODS			Note 1
	FOR RELATED SERVICES			

[The Tenderer should complete all the columns as required]

Signature:

<i>[insert signature of authorized representative of the Tenderer]</i>
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Name:

<i>[insert full name of signatory with National ID]</i>

In the capacity of:

<i>[insert designation of signatory]</i>
--

Duly authorized to sign the Tender for and on behalf of the Tenderer

Manufacturer's Authorisation Letter (Form PG3 - 5)

[The Tenderer shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Tenderer shall include it in its tender, if so indicated in the TDS as stated under ITT Sub-Clause 26.1 (b)]

Invitation for Tender No:	Date:
Tender Package No:	
Tender Lot No:	
To: Name and address of Procuring Entity]	

WHEREAS

We *[insert complete name of Manufacturer]*,

who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby

authorize *[insert complete name of Tenderer]* to supply the following Goods, manufactured by us *[insert name and or brief description of the Goods]*.

We hereby extend our full guarantee and warranty as stated under GCC Clause 33 of the General Conditions of Contract, with respect to the Goods offered by the above Tenderer.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Address: *[insert full address including Fax and e-mail]*

Title: *[insert title]*

Date: *[insert date of signing]*

Bank Guarantee for Tender Security (Form PG3 – 6)

[this is the format for the Tender Security to be issued by a scheduled bank of Bangladesh as stated under ITT Clauses 29 and 30]

Invitation for BCGHQ IT & Communication Tender No: 44.08.2680.005.02.001.19.42

Date: 05 February 2019

Tender Package No: - GR(IT)-7

Tender Lot No: 01

To:

[Name and address of Procuring Entity]

TENDER GUARANTEE No:

We have been informed that *[insert name of Tenderer]* (hereinafter called “the Tenderer”) intends to submit to you its Tender dated *[insert date of Tender]* (hereinafter called “the Tender”) for the supply of *[description of goods and related services]* under the above Invitation for Tenders (hereinafter called “the IFT”).

Furthermore, we understand that, according to your conditions, Tenders must be supported by a Bank Guarantee for Tender Security.

At the request of the Tenderer, we *[insert name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Tenderer is in breach of its obligation(s) under the Tender conditions, because the Tenderer:

- a. has withdrawn its Tender after opening of Tenders but within the validity of the Tender Security; or
- b. refused to accept the Notification of Award (NOA) within the period as stated under Instructions to Tenderers (ITT); or
- c. failed to furnish Performance Security within the period as stipulated in the NOA; or
- d. refused to sign the Contract Agreement by the time specified in the NOA; or
- e. did not accept the correction of the Tender price following the correction of the arithmetic errors in accordance with the ITT; or

This guarantee will expire:

- (a) if the Tenderer is the successful Tenderer, upon our receipt of a copies of the contract signed by the Tenderer and the Performance Security issued to you in accordance with the ITT; or
- (b) if the Tenderer is not the successful Tenderer, twenty-eight (28) days after the expiration of the Tenderer’s Tender validity period, being *[date of expiration of the Tender validity plus twenty-eight (28) days]*

Consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature

Seal

Section 6. Schedule of Requirements

Invitation for Tender No: 44.08.2680.005.02.001.19.42 Date: 05 February 2019
 Tender Package No: GR(IT)-7 Lot. No: 01

A. List of Goods and Delivery Schedule

When completing Form PG3-2 the Tenderer shall quote prices and contract delivery dates for each item against each lot and show each Lot separately, as specified in the List of Goods and Delivery Schedule.)

Item No.	Description of Item	Unit of Supply	Quantity of Units required	Point of Delivery	Date Required (in weeks)
1	2	3	4	5	6
Procuring Entity's Option for delivery terms is: <i>[note 1]b</i>					
Lot No: 1					
Various Test/Splicing Equipment for Optical Communication System					
	(a) Fiber Splicer Machine	02 Nos		CGHQ	08 weeks from signing of contract.
	(b) Last Mile OTDR	02 Nos			
	(c) Power Meter	02 Nos			
	(d) Laser Light	02 Nos			

Note 1: The delivery date required at will start Column 6.

SECTION-7

Technical Specifications

The Goods and Related Services shall comply with following Technical Specifications:

Lot No 1– Various Test/Splicing Equipment for Optical Communication System

1. Specification of Fiber Splicer Machine.

- 1.1 **Name of Item:** Fiber Splicer Machine
- 1.2 **Purpose:** To be used for Fiber Splicing.
- 1.3 **Quantity:** 02 in no.
- 1.4 **Country of Origin:** USA/UK/Any European Countries /Japan
- 1.5 **Year of Manufacture:** 2018 or Later.
- 1.6 **Manufacturing Country:** To be mentioned
- 1.7 **Port of Shipment:** To be mentioned
- 1.8 **Manufacture:** To be mentioned
- 1.9 **Scope of Supply:** Fiber Splicer Machine is to be supplied complete in all respect Fulfilling the technical specifications with all required standard accessories/attachments and ready for immediate Use.

1.10 Technical Specification Fiber Splicer Machine.

1.10.1	Brand	Any international reputed brand
1.10.2	Model	To be mentioned
1.10.3	Country of Origin	USA/UK/Any European Countries/Japan
1.10.4	Alignment	Core to Core Alignment
1.10.5	Observation System	Dual axis
1.10.6	Typical Splice Loss	SMF: 0.02dB, MMF: 0.01dB MM, DSF: 0.04dB, NZDS: 0.04dB
1.10.7	Return Loss	>> 60dB
1.10.8	Typical Splice time	6 sec Ultra Fast, 7 sec SM Fast, 10 sec SM Auto
1.10.9	Tube Heating time	13 sec FP-03
1.10.10	Splice result storage	last 20,000 splices (Minimum)
1.10.11	Viewing method	2 axis CMOS camera
1.10.12	Electrode life	5000 Arc Discharge
1.10.13	Tension Test	1.96 to 2.25 N
1.10.14	Applicable protection sleeve	60mm, 40mm
1.10.15	No. of splice	typical 200 cycles with BTR-09
1.10.16	Operation condition	Altitude 0 to 5000 m above sea level, Temp:-10 to 50°C
1.10.17	Monitor	Minimum 4.73" with Colour LCD

1.10.18	Size	Minimum 146Wx 159Dx 150H/5.75WX 6.25D x 5.9 H(inches)
1.10.19	Wireless Connectivity	wireless technical standard: Bluetooth 4.1 OS: Android 5.0 or above, ios 0.8 or above
1.10.20	No. of splice /heating per battery full charge	Minimum 200 cycles
1.10.21	Resistance	Shock, Dust and Rain
1.10.22	Carrying case	Multi-functional carrying case with integrated work station
1.10.23	Warranty	01 year (Minimum)

2. Specification of Last Mile OTDR.

- 2.1 **Name of Item:** Last Mile OTDR
- 2.2 **Purpose:** To be used for Testing the integrity of fiber optic cables.
- 2.3 **Quantity:** 02 (Two)
- 2.4 **Country of Origin:** USA/UK/Any European Countries/Japan
- 2.5 **Year of Manufacture:** 2018 or Later.
- 2.6 **Manufacturing Country:** To be mentioned
- 2.7 **Port of Shipment:** To be mentioned
- 2.8 **Manufacture:** To be mentioned
- 2.9 **Scope of Supply:** Last Mile OTDR is to be supplied complete in all respect fulfilling the technical specifications with all required standard accessories/attachments and ready for immediate Use.

2.10. Technical Specification of Last Mile OTDR

2.10.1	Brand	Any international reputed brand
2.10.2	Model	To be mentioned
2.10.3	Origin	USA/UK/Any European Countries /Japan
2.10.4	Quantity	02(Two)
2.10.5	Reflectance Accuracy	±2 dB
2.10.6	Testing Modes	Fully automatic, Manual, Real time, Optical Power Meter, Fiber Visualizer,
2.10.7	Distance Range	0.1 to 160 km (Minimum)
2.10.8	Pulse Width	5ns to 20 µs
2.10.9	Attenuation Dead Zone	4M or better
2.10.10	Number of Sampling Points	Up to 256,000
2.10.11	Sampling Resolution	0.04 to 5 (m)

2.10.12	Linearity	±0.05 dB/dB
2.10.13	Threshold/ Resolution	0.01/0.001 dB
2.10.14	Laser Safety	Class 1M
2.10.15	Typical real-time Refresh	3(Hz)
2.10.16	Warranty	01 year (Minimum)

3. Specification of Power Meter.

- 3.1 **Name of Item:** Power Meter
- 3.2 **Purpose:** To be used for Testing loss of optical fiber.
- 3.3 **Quantity:** 02 (Two)
- 3.4 **Country of Origin:** USA/UK/Any European Countries /Japan/Equivalent Country
- 3.5 **Year of Manufacture:** 2018 or Later.
- 3.6 **Manufacturing Country:** To be mentioned
- 3.7 **Port of Shipment:** To be mentioned
- 3.8 **Manufacture:** To be mentioned
- 3.9 **Scope of Supply:** Power Meter is to be supplied complete in all respect fulfilling the technical specifications with all required standard accessories/attachments and ready for immediate Use.

3.10. Technical Specification of Power Meter

3.10.1	Brand	Any international reputed brand
3.10.2	Model	To be mentioned
3.10.3	Origin	USA/UK/Any European Countries /Japan/Equivalent Country
3.10.4	Quantity	02 (Two)
3.10.5	Power meter port	InGaAs
3.10.6	Power range (dBm)	10 to -60
3.10.7	Number of calibrated wavelengths	5
3.10.8	Power uncertainty	±5 %
3.10.9	Resolution (dB)	0.01
3.10.10	Display units	dB/dBm/W
3.10.11	Tone detection (Hz)	270, 1 k, 2 k
3.10.12	Battery life	300 hours (Minimum)
3.10.14	Size (H x W x D)	189 mm x 78 mm x 37 mm (Minimum)

3.10.15	Weight	0.4 kg (0.9 lb) (Minimum)
3.10.16	Temperature	Operating -10 °C to 50 °C (14 °F to 122 °F) Storage - 40°C to 70 °C (-40 °F to 158 °F)
3.10.17	Relative humidity	0 % to 95 % non-condensing
3.10.19	Warranty	1 year (Minimum)

4. Specification of Optical Laser Light.

- 4.1 **Name of Item:** Laser Light
- 4.2 **Purpose:** To be used to detect the fault of optical fiber communication as a test equipment.
- 4.3 **Quantity:** 02 (Two)
- 4.4 **Country of Origin:** USA/UK/Any European Countries /Japan/Equivalent Country
- 4.5 **Year of Manufacture:** 2018 or Later.
- 4.6 **Manufacturing Country:** To be mentioned
- 4.7 **Port of Shipment:** To be mentioned
- 4.8 **Manufacture:** To be mentioned
- 4.9 **Scope of Supply:** Laser Light is to be supplied complete in all respect fulfilling the technical specifications with all required standard accessories/attachments and ready for immediate Use.

4.10. Technical Specification of Laser Light

4.10.1	Brand	Any international reputed brand
4.10.2	Model	To be mentioned
4.10.3	Quantity	02 (Two)
4.10.4	Country of Origin	USA/UK/Any European Countries /Japan/Equivalent Country
4.10.5	Operation	2 to 4(Hz)
4.10.6	Wavelength	630 to 645(nm)
4.10.7	Emitter type	Laser
4.10.8	Power output (typical)	0.8 mW
4.10.9	Distance range (typical)	5 km (Minimum)
4.10.9	Operation mode	Pulsed and CW
4.10.10	Power supply	2 AAA alkaline batteries
4.10.11	Laser class	2M
4.10.12	Battery life (h)	CW 35 Pulsed 50
4.10.13	Length	17.5 cm (Minimum)

4.10.14	Diameter	2.5 cm (1 in) (Maximum)
4.10.15	Weight	without batteries 80 g (4.8 oz) (Minimum) with batteries 120 g (6.3 oz) (Minimum)
4.10.16	Temperature	Operating —10 °C to 50 °C (14 °F to 122 °F) storage—30 °C to 60 °C (—22 °F to 140 °F)
4.10.17	Warranty	01 year (Minimum)

5. **Standard Accessories:** Standard accessories must include all items and accessories which are essential to operate the Equipment, whether those are mentioned in the specification or not. The accessories items list has to be provided with the quotation.

6. **Test, Trial and Acceptance:** The Supplier will carry out test and trial of the supplied equipment at buyer's premises and hand over the items in fully operational condition. An acceptance certificate will be signed between representatives of buyer after satisfactory test/trail.

7. **Documents:** Original operating, care/manufacture for all repair manual one(01) set each in English is to be provided with the Equipment trolley.

8. **Warranty:** Warranty is to be given by the manufacturer for all the supplied items for a period of 1 Year 24x7 Support with 4 Hours Response Time (both for accessories and equipment) from the date of acceptance by the buyer.

9. **Condition for Acceptance of Quotation:** Quotation has to have supported documents (booklets, leaflet, catalogue, brochure etc) having detailed particulars of the offered items in English. If detailed information regarding specifications, maker's book and catalogue about the same model of the offered item, accessories, scope of supply etc are not provided, the quotation will not be accepted.

10. **Compliance Statement:** A compliance statement fulfilling all the requirement of the tender is to be submitted for evaluation of the quotations. Stating mere 'Yes' or 'No' will not suffice and detailed description/information as required is to be given. An incomplete compliance statement may attribute to cancellation of the offer.

11. **Test Certificate:** The supplier will provide factory test certificate of the item including all of its major and minor units.

12. **Delivery Schedule:** Procurement quantity is to be delivered in full within 56 days from the date of issuing work order.

13. **Inspection by CI&QC:** CI&QC will inspect the Equipment at CGHQ Premises. CI&QC will consider the following point:

- a. Quality of Material.
- b. Design and outlook.
- c. Measurement by size.
- d. Dimension of equipment
- e. Technical details as per contract
- f. Other points mentioned in the agreement.
- g. Final acceptance for overall performance.

14. **Supplier's Service and Responsiveness:** Supplier must reply to buyer's query within 04 days of raising the query.

15. **Payment:** Payment will be made in BDT as per BCG Policy/PPR-2008 after satisfactory test, trial and final acceptance by CI&QC.
16. **Liquidated Damage (LD):** LD will be applicable as per BCG Policy/PPR-2008.
17. **Validity of Offer:** The offer should valid for 90 Days.
18. **Financial Offer.** Price of individual items and total price to be quoted including VAT and IT.
19. **Installations.** The equipment to be installed or used at East Zone (CTG) and West Zone (Mongla) as required by BCG head quarter.
20. **Training:** Appropriate Training for the operator and maintainer is to be conducted for CG personnel by the suppliers cost at Ctg and Mongla area, detail of which is to be mentioned.
21. **Packaging:** All items are to be delivered in standard commercial packaging. Following information are to be printed/written on each package
 - a. Name of Items.
 - b. Consignee.
 - c. Work Order No. and date.
 - d. Supplier's name and address.
 - e. Quantity in each package.