



**NATIONAL TELECOMMUNICATION  
CORPORATION**

**HEADQUARTERS G-5/2, ISLAMABAD**

**e-Bidding documents**

**FOR**

**Supply of Test Equipment and Tools to NTC on Frame Agreement  
DDP Site Basis for a period of one year**

**Through EPADS ([www.eprocure.gov.pk](http://www.eprocure.gov.pk))**

**e-Tender Notice # HQ/ADV-32/2025-26**

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## SECTION-I

### **INSTRUCTIONS TO THE BIDDERS**

#### 1 INVITATION TO e-BIDS

##### **Tender Notice No. HQ/ADV-32/ 2025-26**

National Telecommunication Corporation (NTC), invites electronic bids from the suppliers, registered with Income Tax and Sales Tax Department having relevant experience for supply of following goods:

Tender No.	Description of Service	Last Date & Time of Bid Submission	Bid Opening Date & Time
32	Supply of Test Equipment and Tools to NTC on Frame Agreement DDP Site Basis for a period of one year	09-03-2025 @ 1100 Hrs	09-03-2025 @ 1130 Hrs

Bidding documents as per regulations, containing detailed terms and conditions, specifications and requirements etc. are available for the registered bidders on EPADS at ([www.eprocure.gov.pk](http://www.eprocure.gov.pk)).

Electronic bids must be submitted through EPADS on or before the bid closing date and time, as specified in the table. Manual bids will not be accepted. Electronic bids will be opened on the same day, at least 30 minutes after the bid closing time, as indicated in the table.

Note: Notification of the GRC constituted in terms of Rule-48 of PPRA rules, 2004 is provided on EPADS at [www.eprocure.gov.pk](http://www.eprocure.gov.pk) and on [www.ntc.net.pk](http://www.ntc.net.pk).

#### **Director (Procurement)**

Room # 05, Ground Floor, NTC HQs, Sector G-5/2 Islamabad

Phone: 051-9245833, 9245975 Fax: 051-9245719

[www.ntc.net.pk](http://www.ntc.net.pk)

## 2 INTRODUCTION

National Telecommunication Corporation (NTC) was established on 1st January 1996 through Pakistan Telecommunication (re-organization) Act 1996 Under section 5 (2) (a) of the subject Act. NTC provides Telecommunication Services to its designated customers in accordance with the rights and privileges granted to the Corporation vide Pakistan Telecommunication (re-organization) Act 1996 and the license issued by the Pakistan Telecommunication Authority (PTA). NTC is registered with Federal and all Provincial Sales Tax Authorities like Punjab Revenue Authority, Sindh Revenue Board, Baluchistan Revenue Authority and Khyber Pakhtunkhwa Revenue Authority.

## 3 SCOPE OF WORK

- 3.1 NTC intends to procure high quality and high precision Telecom Test Equipment and Tools on Rate Running Frame Agreement on DDP Site Basis for a period of one year as per Bill of Quantity (BoQ) at **Annex-A**. The quoted equipment shall be in accordance with the technical specifications (**Annex-B1 to B23**) & evaluation criterion mentioned. The items are intended to be delivered at NTC Directorates at Islamabad, Rawalpindi, Peshawar, Lahore, Multan, Karachi and Quetta.
- 3.2 The items supplied shall be of high quality and conform to the standards & Technical specifications mentioned in **Annex- B1 to B23**. In case of conflicting specifications appearing in the documents, decision of NTC will be final and stricter version will hold good.

## 4 QUALIFICATION CRITERION OF BIDDERS

This invitation for bids is open to all reputed firms in Pakistan meeting following conditions:

- 4.1 The Bidder must be registered with FBR and the status of firm for Income Tax must be "active" and for Sales Tax as "operative".
- 4.2 The bidder must be authorized by OEM or Distributor or Partner for supply of the quoted items. The bidder must provide valid authorization letter with the bid.
- 4.3 The bidder must have experience of supplying of Tools / Test Equipment in Pakistan. The bidder shall provide detail of previous supply record.
- 4.4 The bidder must provide an undertaking on at least PKR 200/- Judicial Paper of following:
  - a) The firm is not black listed from any government organization.
  - b) The firm does not have any linkage with India and/or Israel regarding ownership, manufacturing and sponsoring.
- 4.5 The bidder must fully comply to the tender clauses as per **Annex-C**.

**Note:** *Prospective Bidder Must Provide Valid Documentary Proof against serial # (4.1 to 4.5) along with the bid. Non-Submission of any of above document will lead to Consideration of a firm as NON-RESPONSIVE & Sub-sequent NON-CONSIDERATION for the evaluation.*

## 5 COST OF TENDERING

The bidder shall bear all costs associated with the preparation and submission of its bid and the NTC will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

## 6 CLARIFICATIONS OF TENDER DOCUMENTS

6.1 A prospective bidder requiring any clarification(s) regarding technical and commercial aspects of the tender document may notify to NTC on EPADS platform only, however, in case of further clarification/understanding are required, the bidder may contact following NTC Officers:

Divisional Engineer (Procurement)	Director (Procurement)
Tel: 051-9245864, Fax: 051-9245977	Tel: 051-9245833, Fax: 051-9245977
Email: shaukat.ali@ntc.org.pk	Email: kashif.nawaz@ntc.org.pk

6.2 The concerned NTC officer will respond to any request for clarification on EPADS, which receives well before (approximate 05 working days or more) to the deadline for the submission of bids.

## 7 AMENDMENT OF TENDER DOCUMENTS

- 7.1 At any time prior to the deadline for submission of bids, the NTC may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify or amend the tender documents by issuing an amendment on EPADS.
- 7.2 Any amendment thus issued shall be part of the tender documents. To afford bidders reasonable time in which to take an amendment into account in preparing their bids, the NTC may at its discretion extend the deadline for submission of bids if deemed necessary.

## 8 SPECIFICATIONS

The quoted items shall conform to the technical specification i.e. fully comply to all the mandatory clauses of the technical specifications and obtain minimum passing marks specified in Annex B1 to B 23 against each item.

## 9 PREPARATION OF BID

- 9.1 Bids should be prepared considering “**Single Stage - Single Envelope**” procedure.
- The envelope shall clearly mention the name of bidder & necessary information in bold & legible letters to avoid any confusion.
  - Bid documents and all correspondence will be in English language.
  - The bid should have a covering letter on letter pad of the firm. All pages of the bid shall be initialed/signed and official seal be affixed by the person(s) authorized to sign. In addition, all the pages of the submitted bid must be numbered. Complete bid shall be scanned and uploaded on EPADS.
- 9.2 Following documents shall be furnished / submitted with the bid:
- Duly filled Bill of Quantity (BoQ) as per **Annex-A**.

- b. Duly filled and signed technical compliance statement as per **Annex-B1 to B23**.
- c. Duly filled and signed commercial compliance statement as per **Annex-C**.
- d. Valid Bid security/Earnest Money.
- e. Documentary evidence and undertakings as per qualification criteria.
- f. Previous supply record including purchase orders and contracts.
- g. OEM or Distributor or Partner authorization of the quoted items as per clause 4.3.
- h. Stamp paper as per clause 4.4.

**NOTE: Every participant bidder shall submit all above mentioned documents. Non-submission of any of above documents or samples at the time of bid opening will lead to declaration of bidder as non-responsive & non-consideration for further evaluation.**

## 10 PRICE

- 10.1 Prices should be quoted in Pak Rupees on DDP basis as per **Annex-A**.
- 10.2 The price quoted should be firm, final, and clearly written/typed without any ambiguity. Any overwriting will lead to cancellation of bid at the time of opening.
- 10.3 The quoted price should include all the applicable government taxes, custom duties, in-land transportation, & any other applicable charges.
- 10.4 The bidder shall be deemed to have obtained all information as to all the requirements thereto which may affect the bid price.
- 10.5 Price of any or all items quoted in a currency other than PKR shall be converted into PKR and for calculation purpose conversion rate (i.e. selling) prevailing on the date of financial bids opening shall be applied.

## 11 BID SECURITY

- 11.1 The bidder shall furnish tender security amounting to **PKR. 500,000/- (Pak Rupees Five Hundred Only)** in the form of Pay Order or Deposit at Call or a Bank guarantee as per **Annex-C** issued by a scheduled bank of Pakistan in favor of Managing Director NTC valid for a period 28 x days beyond the bid validity date.
- 11.2 The Original Bid Security shall be delivered in person or sent by the registered mail which should reach the office of Director (Procurement) Room # 05, Ground Floor, NTC HQ, G-5/2 Islamabad on or before **1100 Hours on March 09,2026**. Any online bid for which original bid security does not reach before deadline of the bid shall be rejected by the NTC as non-responsive
- 11.3 Scanned Copy of bid security shall be uploaded by the bidder on EPADS before deadline of bid submission. Any bid not accompanied by bid security shall be rejected by the NTC as non-responsive.
- 11.4 The bid securities / earnest money of the unsuccessful bidders will be returned upon award of contract to the successful bidder or on expiry of validity of tender security whichever is earlier. The bid securities of bidders, who are not in competition, can be returned earlier at NTC discretion upon receiving a request.
- 11.5 The tender security of the successful bidder will be returned when the bidder has furnished the required Performance Security and signed contract agreement.

- 11.6 All correspondence regarding release/extension of bid security shall be made with Director (Procurement) NTC HQ.
- 11.7 The bid security may be forfeited:
- If a bidder withdraws his bid during the period of bid validity.
  - If the bidder does not accept the correction of their bid price.
  - In the case of successful bidder, if bidder fails to furnish the required performance security or sign the contract agreement.
  - If bidder does not respond timely to the clarifications called by NTC.

## 12 VALIDITY OF BIDS

Bid shall remain valid for a period of **120 days** from the date of tender opening.

## 13 DEADLINE FOR SUBMISSION OF BID

- 13.1 The bid shall be uploaded in PDF format on PPRA EPADS website i.e. [www.eprocure.gov.pk](http://www.eprocure.gov.pk) on or before **1100 Hours on March 09,2026**.
- 13.2 The bidders are required to follow procedure of EPADS and for any clarification/assistance regarding EPADS they may contact PPRA Helpline UAN: 051-111-137-237.
- 13.3 Bid received other than EPADS i.e. hard/Soft copy delivery in person or through e-mail or fax or registered mail will be not accepted by NTC.

## 14 OPENING OF BID

- 14.1 The NTC tender committee will download the bids at **1130 Hours on March 11,2026** in the presence of bidders representatives who choose to attend, at NTC HQ G-5/2 Islamabad.
- 14.2 NTC reserves the right to reject any one or all bids prior acceptance of a bid / proposal.
- 14.3 NTC reserves the right to reject any one or all bids as per Public Procurement Rules, 2004 33(1).

## 15 RESPONSIVENESS OF BIDDERS

- 15.1 The bid is valid till required period.
- 15.2 The bid prices are firm during its validity and inclusive of all taxes, duties & freight charges etc.
- 15.3 Valid authorization certificate from original equipment manufacturer.
- 15.4 The bidder has furnished valid tender security.
- 15.5 The bidder is qualified to tender.
- 15.6 The bid is generally in order.
- 15.7 The bidder promptly responds to queries sought by NTC.
- 15.8 The bidder submits requisite samples upon NTC requisition.
- 15.9 The bid complies to the Technical specification and evaluation criteria.
- 15.10 The bidder has complied to the tender and contract clauses.
- 15.11 The bidder has submitted PO/Contracts of its previous supply record.

**NOTE: "Any bidder found non-compliant in any of above mentioned conditions will be declared as non-responsive and will not be considered for further Evaluation proceedings. A bidder once declared "Non-responsive" shall not subsequently be made responsive by the NTC."**

## 16 EVALUATION CRITERION FOR MOST ADVANTAGEOUS BIDDER

- 16.1 The tender evaluation committee will evaluate and compare only the bids previously determined to be substantially responsive.
- 16.2 Evaluation will be carried out on **qualification, quality and cost basis**.
- 16.3 The **Most advantageous bidder** shall be the one fully compliant to **qualification criteria**, complaint to **quality evaluation criteria** and **highest ranked** in cost evaluation criteria as defined below:

### 16.4 Qualification Evaluation Criteria:

In first step, the received bids shall be evaluated on qualification criteria mentioned at Clause 4 and full compliance to the terms and conditions set out in RFT shall be evaluated as per **Annex-C**. The bidders fully compliant to qualification criteria shall be declared as qualified. **Any firm found non-compliant in any of these conditions will be declared disqualified and will not be considered for further evaluation proceedings.**

### 16.5 Quality Evaluation Criteria:

To ensure quality of the quoted items, NTC shall evaluate the quoted items technical compliance from the products Datasheets, Brochure, product manuals and Statement of Compliance. Technical evaluation of the financially highest ranked i.e. lowest price bid in cost evaluation will be carried out and so on. The bid must obtain specified minimum passing marks along with full compliance of all the mandatory clauses mentioned in technical specifications at **Annex-B1 to B23**. Quality evaluation carried out by NTC shall be final. **Any bid which does not obtain minimum passing marks in technical specifications or do not fully comply to all mandatory clauses will be declared as technically / quality disqualified and will be rejected by NTC.**

### 16.6 Cost evaluation criteria:

Cost evaluation of the bids shall be carried out by comparison of bids evaluated prices as per bill of quantity at **Annex-A**. The bidder with lowest financial price shall be declared as **highest ranked** and so on.

- 16.7 No bidder shall contact NTC on any matter relating to the tender from the time of opening of the bid to the time of contract is awarded. Any effort by a bidder to influence NTC in the tender evaluation, bid comparison or order award decision may result in the rejection of his bid.
- 16.8 Any minor informality or non-conformity or irregularity in the bid which does not constitute a material deviation may be waived by NTC, provided such waiver does not prejudice or affect the relative ranking of any other bidders.

## 17 CLARIFICATIONS / CORRECTIONS OF BID

- 17.1 To assist in the examination, evaluation and comparison of the bids the committee at its discretion may ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing (i.e. letter or email etc.) and no change in the price or substance of the bid shall be sought, offered or permitted.
- 17.2 Arithmetical errors will be rectified on the following basis:

“If there is a discrepancy between unit price and total price that is obtained by the multiplying the unit price and quantity, the unit price shall prevail and total price

shall be corrected. If there is a discrepancy between the words and figures the amount in words shall prevail. If there is a mistake in addition / totaling that can be corrected.”

- 17.3 If the bidder does not accept the corrected amount of bid, their bid will be rejected and their bid security forfeited.

## 18 COMMERCIAL COMPLIANCE STATEMENT

The bidder will furnish a compliance certificate with the bid as per enclosed format as per **Annex-C (duly signed along with company seal)**.

## 19 VARIATION ORDER

NTC reserves the right to place variation order (increase or decrease or delete in the quantities of BoQ at **Annex-A**. The bidder shall be bound to accept the variation order by NTC.

## 20 AWARD CRITERIA & NTC'S RIGHT

**20.1 The contract will be awarded to Most Advantageous Bidder on item-wise-basis.**

20.2 The NTC reserves the right to accept or reject any bid, and to annul the tendering process and reject all bids, at any time prior to award of order, without thereby incurring any liability to the affected bidders or any obligation to inform the affected bidders of the grounds for the NTC's action.

20.3 If the bidder does not accept LOI or do not furnish valid performance security within one weeks, NTC may cancel the award of contract.

## 21 NOTIFICATION OF AWARD & SIGNING OF CONTRACT AGREEMENT

21.1 Prior to expiration of the period of tender validity prescribed by NTC, the NTC will notify the successful bidder in writing "Letter of Intent" through EPADs that their bid has been accepted. The bidder shall accept the LOI through EPADS within 05 x days.

21.2 The contract shall be signed with the successful bidder upon furnishing of acceptable performance security.

## SECTION-II

### **TERMS & CONDITIONS OF CONTRACT**

#### **1 PERFORMANCE SECURITY**

- 1.1 The successful bidder shall furnish to NTC a performance security equivalent to **PKR.500,000/-** in the shape of Pay order or CDR or bank guarantee valid for a period of 12 months prior to the signing of contract.
- 1.2 Failure of the successful bidder to furnish performance security shall constitute sufficient grounds for the annulment of the award and forfeiture of the tender security
- 1.3 The successful bidder shall also furnish to NTC a performance security equivalent to Five percent (5%) of each Purchase Order value in the shape of Pay order or CDR or bank guarantee valid for a period of 12 months from issuance of Purchase Order by NTC.
- 1.4 The performance security shall be further extended if the delivery is delayed. The contractor shall extend the performance security to cover the warranty period.
- 1.5 All the correspondence regarding release of performance guarantee shall be made with Director (Procurement) NTC HQ.

#### **2 CONTRACT DURATION**

The contract shall remain valid for a period of one year from the date of signing of contract. The price quoted by the bidders shall remain the same throughout the duration contract.

#### **3 ISSUANCE OF PURCHASE ORDERS**

NTC may issue multiple purchase orders for the delivery of contractual items on as-and-when required basis by NTC. However, NTC shall not be liable in case of non-issuance of purchase order during contract agreement. First purchase order may be issued on quantities mentioned in Annex-A, however, NTC reserves the right to increase or decrease or annul any quantity in purchase order.

#### **4 CONTRACTORS RESPONSIBILITIES**

The contractor shall supply the store in accordance with the contract as per NTC's Regional Distribution. Contractors responsibilities include but not limited to:

- 4.1 The contractor shall deliver the within completion time.
- 4.2 The contractor shall ensure international packing and labeling for safe transportation and identification of store.
- 4.3 The contractor shall coordinate with ultimate consignee(s) for delivery at sites.
- 4.4 The contract shall not subcontract the whole of the works. The contractor shall not subcontract any part of the works without consent of NTC.
- 4.5 The contractor shall supply brand new, unused items to NTC.
- 4.6 The contractor shall provide one-year warranty of the supplied items.

## 5 NTC RESPONSIBILITIES

NTC shall coordinate and facilitate the contractor for smooth supply of store in accordance with this contract:

- 5.1 NTC ultimate consignee(s) shall be responsible to conduct physical inspection of delivered store and issue, Inspection Report(s) and GRN(s) for respective site.
- 5.2 NTC shall be responsible to process invoices for payment.

## 6 TRANSPORTATION / PACKING

All types of transportation for delivery of store at final destination will be the responsibility of the contractor. Contractor shall ensure proper / international packing of store to avoid deterioration of store etc.

## 7 TIME FOR COMPLETION

- 7.1 The contractor shall deliver the store **within Twelve (12) weeks** from the date of issuance of Purchase Order by NTC.
- 7.2 If any discrepancy is observed in the offered store by NTC, then delay shall be attributed towards the contractor till the removal of discrepancies.

## 8 WARRANTY / SERVICES

- 8.1 The contractor will warrant that the store supplied under the contract is brand new, un-used, and incorporates all recent improvements in design and materials and of good quality. **(The contractor shall also furnish an undertaking that the store supplied is not stolen, from old stock or smuggled).**
- 8.2 The warranty shall remain valid for a period of 01 (One) Year starting from the date of delivery.
- 8.3 NTC shall promptly notify the supplier in writing of any claims arising under this warranty and the supplier will repair / replace the defective items within reasonable time without any cost to NTC.
- 8.4 If the Contractor, having been notified, fails to remedy the defect(s) within a reasonable period, NTC may proceed to take such remedial actions as may be necessary, at the Contractor's risk and expense and without prejudice to any other rights which NTC may have against the Contractor under the contract.
- 8.5 Without prejudice to any other clauses of this contract, the Contractor shall promptly correct at no cost to NTC, any defect in any work of correction executed previously, upon receipt of written notice of defect within twelve months' warranty period from the acceptance of the corrected defect.
- 8.6 If no discrepancy is reported by the ultimate Consignee(s) within the warranty period, then the performance security shall be released by Director (Procurement) NTC HQs.

## 9 LIQUIDATED DAMAGES

Unless the failure to complete the delivery is caused by force majeure or delay is not on part of NTC, the contractor shall pay to NTC Headquarters as liquidated damages a sum up equivalent to @ 0.5% per week of the delayed store to maximum of 10% of total contract value and the same shall be recovered from the Contractor at the time of payment. In case of force majeure the LD charges may be waived off by NTC on receipt of request from contractor with documentary evidences. If the delay is on the part of NTC, and agreed by NTC, then for that time no liquidated damages will be

paid to NTC. NTC shall have the discretion to impose/waive off LD Charges based on the performance of contractor.

## 10 INSPECTION AND TESTING

- 10.1 Ultimate Consignee(s) shall be responsible to nominate a committee for physical inspection of the delivered store within 10 days. The nominated committee shall carry out 100% inspection of the delivered store and shall prepare inspection report and Good Receipt Note, Ultimate Consignee(s) shall countersign the same and accordingly forward to Director (Procurement) NTC HQs.
- 10.2 Any discrepancies found will be intimated to the contractor who will arrange to sort out the discrepancy at the earliest but not later than fourteen working days, from the date of contractor is informed about the discrepancy.
- 10.3 Shortage of any quantity will also be pointed out and will be intimated to the Director (Procurement) NTC HQs.

## 11 PAYMENT

- 11.1 100% payment of the delivered store will be made by Finance wing NTC HQ through Director (Procurement) NTC HQ after receipt of following documents duly signed by ultimate consignees:
  - Delivery Challans
  - Good Receipt Note
  - Physical Inspection Report
- 11.2 The Contractor will submit the commercial invoice & sales tax invoice in triplicate to Director (Procurement) NTC HQs along with duly verified delivery challan by authorized representative of Ultimate Consignee(s). The Contractor will clearly mention NTN & GST number of both supplier & purchaser on the invoice (NTC NTN # 1218153-6, NTC GST # 07-01-9802-013-64). Taxes will be deducted as per government rules.
- 11.3 All the payments will be made by Finance wing NTC HQs through Director (Procurement) NTC HQs.
- 11.4 Taxes will be deducted as per government rules at the time of payment.
- 11.5 As scattered delivery is involved thus partial payments will be made on presentation of invoice, duly verified delivery challans, GRNs and Physical Inspection Report of respective site.

## 12 DEFAULT BY CONTRACTOR

- 12.1 If the contractor fails to supply the items, refuses or fails to comply with a valid instruction of the NTC, the NTC may give notice and stating the default.
- 12.2 If the contractor has not taken all practicable steps to remedy the default within 14 working days after receipt of NTC notice, the NTC may by a second notice cancel the contract and performance security will be confiscated.

### 13 ARBITRATION AND APPLICABLE LAW

- 13.1 The Contract will be construed under and governed by THE LAWS OF THE ISLAMIC REPUBLIC OF PAKISTAN.
- 13.2 NTC and the Contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 13.3 Any dispute, disagreement or question arising out of or relating to or in consequence of this contract or relating to its execution or performance which cannot be settled amicably, shall be referred to arbitration to Managing Director NTC. Only Managing Director NTC will have sole authority in arbitration to decide. All the decisions will be made in view of Arbitration Act 1940.
- 13.4 Within 30 days of the said notice, one arbitrator shall be nominated in writing by NTC and one arbitrator shall be nominated in writing by the Contractor.
- 13.5 The arbitration shall initiate arbitration proceedings at Islamabad. In case the arbitration does not reach on conclusion, then case would be referred to the court of Law.
- 13.6 Each party shall bear the cost of its own arbitrator and the cost of the third arbitrator shall be borne equally by both parties.

### 14 FORCE MAJEURE

- 14.1 The Contractor shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.
- 14.2 If either party is temporarily rendered unable, wholly or in part by Force Majeure to perform its duties or accept performance by the other party under the Contract it is agreed that on such party, giving notice with full particulars in writing of such Force majeure to the other party within 14 (fourteen) days after the occurrence of the cause relied on, then the duties, of such party as far as they are affected by such Force Majeure shall be suspended during the continuance of any inability so caused but for no longer period and such cause shall as far as possible be removed with all reasonable speed. Neither party shall be responsible for delay caused by Force Majeure.
- 14.3 The terms "Force Majeure" as used herein shall mean Acts of God, strikes, lockouts or other industrial disturbance, act of public enemy, war, blockages, insurrections, riots, epidemics, landslides, earthquakes, fires, storms, lightning, flood, washouts, civil disturbances, explosion, Governmental Export/Import Restrictions (to be supported by a letter from the relevant Authority and verified by the Diplomatic Mission in Pakistan), Government actions/restrictions due to economic and financial hardships, change of priorities and any other cause similar to the kind herein enumerated or of equivalent effect, not within the control of either party and which by the exercise of due care and diligence either party is unable to overcome.
- 14.4 The term of this Contract shall be extended for such period of time as may be necessary to complete the work which might have been accomplished but for such suspension. If either party is permanently prevented wholly or in part by Force Majeure for period exceeding 12 (twelve) months from performing or accepting performance, the party concerned shall have the right to terminate this contract

immediately giving notice with full particulars for such Force Majeure in writing to the other party, and in such event, the other party shall be entitled to compensation for an amount to be fixed by negotiations and mutual agreement.

14.5 If a Force Majeure situation arises, the Contractor shall promptly notify NTC in writing of such conditions and the cause thereof. Unless otherwise directed by NTC in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practicable, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

## 15 TERMINATION FOR INSOLVENCY

The NTC may at any time terminate the contract by giving written notice to the bidder, without any compensation to bidder. If the bidder becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to action to the NTC.

## 16 TERMINATION FOR CONVENIENCE

Without prejudice to the contractor, the NTC may send a written notice to the bidder, terminate the contract in whole or in part any time for its convenience. The notice of termination shall specify that the termination is for the NTC's convenience, the extent to which performance or work under the contract is terminated and the date upon which such termination becomes effective.

## 17 ULTIMATE CONSIGNEE(S)

The contractor shall deliver the store at following NTC locations as specified in Purchase Order:

Sr.	Ultimate Consignee	Site Address	Contact Details
(i)	<b>Director NTC Islamabad</b>	Old NTC HQs Building, F-5/1 Islamabad	Ph # 051-9262266 Fax # 051-9261721 Email: <a href="mailto:attaullah.khan@ntc.org.pk">attaullah.khan@ntc.org.pk</a>
(ii)	<b>Director NTC Rawalpindi</b>	NTC Microwave Station, Sector I-12, Islamabad,	Ph # 051-9278283 Fax # 051-9278282 Email: <a href="mailto:mushtaq.ahmad@ntc.org.pk">mushtaq.ahmad@ntc.org.pk</a>
(iii)	<b>Director NTC Peshawar</b>	Telephone House, The Mall, Peshawar Cantt	Ph # 091-9211111 Fax # 091-9211011 Email: <a href="mailto:noor.hakiml@ntc.org.pk">noor.hakiml@ntc.org.pk</a>
(iv)	<b>Director NTC Lahore</b>	6-Race Course Road, Lahore Cantt	Ph # 042-99201235 Fax # 042-99201236 <a href="mailto:amjad.ikram@ntc.org.pk">amjad.ikram@ntc.org.pk</a>
(v)	<b>Director NTC Multan</b>	Office of the Director NTC, PTCL Exchange Building, Dera Adda, Multan	Ph # 061-9201111, Fax # 061-9200110 Email: <a href="mailto:muhammad.saeed@ntc.org.pk">muhammad.saeed@ntc.org.pk</a>
(vi)	<b>Director NTC Karachi</b>	Office of the Regional Director Malir Halt Karachi	Ph # 021- 99248833 Fax # 021-99248855 Email: <a href="mailto:muhammad.irfan@ntc.org.pk">muhammad.irfan@ntc.org.pk</a>

(vii)	<b>Director NTC Quetta</b>	Office of the Regional Director Zafarulah Khan Jamali Road, Quetta,	Ph # 081-9202151 Fax # 081-9202153 Email: <a href="mailto:adnan.anwar@ntc.org.pk">adnan.anwar@ntc.org.pk</a>
(viii)	<b>Director Development (North) NTC Islamabad</b>	Old NTC HQs Building, F-5/1 Islamabad	Ph # 051-9209293 Fax # 051-9205526 Email: <a href="mailto:muhammad.rashid@ntc.org.pk">muhammad.rashid@ntc.org.pk</a>
(ix)	<b>Director Development (Central) NTC Lahore</b>	Garden Town Kalma Chowk Lahore	Ph # 042-99233333 Fax # 042-99233344 Email: <a href="mailto:asim.mehmood@ntc.org.pk">asim.mehmood@ntc.org.pk</a>
(x)	<b>Director Development (South) NTC Karachi</b>	Office of the Regional Director Malir Halt Karachi	Ph# 021-99248891 Fax: 021-99248844 Email: <a href="mailto:atta.malik@ntc.org.pk">atta.malik@ntc.org.pk</a>

## 18 DEBARMENT / BLACKLISTING OF FIRM

18.1 As per clause-19 of the PPRA rules 2004, NTC reserves the right of debarment 'or' blacklisting of a firm, association, corporation, joint venture, company, partnership or any other legal entity subject to any of the following acts: -

- a. Consistent failure to provide satisfactory performance.
- b. Contractor becomes insolvent.
- c. Existence of judicial decision against a contractor in respect of a corrupt or collusive practice.
- d. Submission of false and spurious documents, making false statements and allegations to gain undue advantage.
- e. Commission of fraud.
- f. Contractor abandons the contract.
- g. Contractor without reasonable excuse fails to commence the work 'or' suspends the progress of work for 14 days.
- h. Contractor is not executing the work in accordance with the contract or is persistently or flagrantly neglecting to carry out his obligations under the contract.
- i. Commission of embezzlement, criminal breach of trust, theft, cheating, forgery, bribery, falsification or destruction of records, receiving stolen property, false use of trademark, securing fraudulent registration with sales tax authorities, Pakistan Engineering council etc, giving false evidence, furnishing of false information of serious nature.

18.2 Managing Director NTC will constitute a committee comprising of three NTC officers and they will investigate the matter in connection with allegation of corrupt, fraudulent, coercive or collusive practices or illegally harassment or threat. Moreover, the committee shall also accord adequate opportunity of being heard to

the contractor who is to be debarred / blacklisted. The said committee will forward its clear recommendations for the approval of Managing Director NTC.

- 18.3 The debarment shall be for a reasonable specified period of time, commensurate with the seriousness of the cause. However, the debarment period shall not exceed from three years. Moreover, NTC also reserves the right of permanent blacklisting of a contractor subject to severity of the corrupt or fraudulent practices.

## 19 INTEGRITY

- 19.1 The Contractor hereby declares that it has not obtained or induced the procurement of this Contract or a right, interest, privilege or other obligation or benefit under this Contract from Government of Pakistan or any administrative subdivision or agency thereof or any other owned or controlled by it (GoP) through any corrupt business practice.
- 19.2 Without limiting the generality of the foregoing the Contractor represents and warrants that it has fully declared the brokerage, commission, fees etc, paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or including the procurement of this Contract or a right, interest, privilege or other obligation or benefit under this Contract in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.
- 19.3 The Contractor accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this Clause.

## 20 AMENDMENT IN CONTRACT

- 20.1 No variation in or modification of the terms of the contract shall be made except by written amendments signed by the parties.
- 20.2 During the contract duration if any contractual item becomes obsolete or manufacturing of the contractual item is stopped by OEM or a new model is introduced by the OEM, then the contractor may offer an alternate model of equivalent or better Technical Specifications to NTC. NTC at its discretion, after quality evaluation of the newly offered item, replace the item and amend the contract.

## 21 DECLARATION OF BENEFICIAL OWNERS' INFORMATION

The "Declaration of Beneficial Owners' Information of Public Procurement Contract Awarded Regulations, 2022" require that the contractor shall be bound to provide beneficial ownership information as per Performa attached as **Annex-E**.

**ANNEX-A: BILL OF QUANTITY (BOQ)**

S.No	Descriptions	M/U	Qty	Unit Rate without Tax in PKR	Unit Rate with Tax in PKR	Total Amount with Tax in PKR
1	Insulation Resistance Tester	No	12			
2	Cable Fault Locator	No	7			
3	Cable Route Locator	No	7			
4	Rig Machine	No	5			
5	Cable Jointer Tool Kit	No	50			
6	OFC Tool Kit	No	29			
7	OTDR	No	14			
8	Splicing Machine	No	17			
9	Digital Measuring Wheel	No	20			
10	GPS Device	No	7			
11	Visual Fault Locator 40km	No	22			
12	Optical Laser Source	No	33			
13	Optical Power Meter	No	35			
14	Lineman Tool Kit	No	150			
15	Testing Hand Set	No	150			
16	Insertion Tool	No	84			
17	VDSL Tester	No	15			
18	Ethernet Tester	No	20			
19	Tool kit for Data Technician	No	17			
20	Clamp Meter	No	30			
21	PRI Testing Meter	No	5			
22	Digital Earth Tester	No	20			
23	Tool kit for Switching Staff	No	2			
<b>Total quoted amount in Pak Rupees Inclusive of Taxes</b>						

Note: 1. Rates quoted by the bidders shall remain same for a period of one year on Frame Agreement Basis.  
2. NTC reserve the right to increase or decrease or annul the quantity as per requirement.

**ANNEX-B: TECHNICAL SPECIFICATIONS**

<b>S. No</b>	<b>Description</b>	<b>Technical Specification at</b>
1	Insulation Resistance Tester	Annex-B1
2	Cable Fault Locator	Annex-B2
3	Cable Route Locator	Annex-B3
4	Rig Machine	Annex-B4
5	Cable Jointer Tool Kit	Annex-B5
6	OFC Tool Kit	Annex-B6
7	OTDR	Annex-B7
8	Splicing Machine	Annex-B8
9	Digital Measuring Wheel	Annex-B9
10	GPS Device	Annex-B10
11	Visual Fault Locator	Annex-B11
12	Optical Laser Source	Annex-B12
13	Optical Power Meter	Annex-B13
14	Lineman Tool Kit	Annex-B14
15	Testing Hand Set	Annex-B15
16	Insertion Tool	Annex-B16
17	VDSL Tester	Annex-B17
18	Ethernet Tester	Annex-B18
19	Tool kit for Data Technician	Annex-B19
20	Clamp Meter	Annex-B20
21	PRI Testing Meter	Annex-B21
22	Digital Earth Tester	Annex-B22
23	Tool kit for Switching Staff	Annex-B23

### Technical Specifications of Megger (IR Tester)

Bidder's Name										
Bidder's Quoted Brand										
Manufacturing Country (Made & assembled in)										
S.No	Title	Description	Marks	Bidder's Statement						
				FC	PC	NC	Bidder's Quoted Feature	Marks		
<b>1</b>	<b>Technical Requirements</b>									
1.1	Testing Voltage	500/1000/2500 Volts or more	M							
1.2	Resistance measurement range	0 ~ 20 GΩ	M							
1.3	Accuracy for insulation resistance measurement	± 3% or better	20							
1.4	Accuracy for voltage measurement	± 3% or better	20							
1.5	Internal Battery	Preferably Rechargeable cells along with charger	20							
1.6	Battery life	10 hrs of continuous operation or better	50							
1.7	AC/DC Voltage Range	0-600 V	30							
1.8	Internal resistance	10MΩ	50							
<b>2</b>	<b>General Features</b>									
2.1	Intended Use	Measurement of insulation resistance and Continuity Testing of Telecommunication OSP Copper Cables	M							
2.2	Type	Digital	M							
2.3	Display	LCD with backlight	M							
2.4	Working Mode	Auto or Manual mode	20							
2.5	Readings Format	Numeric with 2000 or higher count	M							
2.6	Protection	Robust moisture proof construction employing modern impact resistant plastic material	20							
2.7	Accessories	Connection leads, carrying case, batteries, literature	M							
2.8	Buzzer	Audible indication of continuity	M							
2.9	Memory function for storing of results	Minimum 20 readings (Bidders should specify)	20							
2.10	Standard Compliance	61557-4:2007 or equivalent	M							
2.11	Certifications:	CE, UKCA or equivalent	M							
2.12	Quality , Built and Robustness	High quality, lasting built and renowned Manufacturer	300							
<b>3</b>	<b>Environmental</b>									
3.1	Operating Temperature	(-10) to +50° C	20							
3.2	Storage Temperature	(-20) to +70°C	20							
3.3	Humidity (non condensing)	( 5% to 85% )	10							
<b>TOTAL</b>			<b>600</b>							
<b>Note</b>	<p>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</p>									

### Technical Specifications of Cable Fault Locator

Bidder's Name										
Bidder's Quoted Brand										
Manufacturing Country (Made & assembeled in)										
Sr.	Item	Description	Marks	Bidder's Statement						
				FC	PC	NC	Bidder's Quoted Feature	Reference in Datasheets/Manual		
<b>1</b>	<b>General Requirement</b>									
1.1	Brand	High quality reputable Brand	150							
1.2	The cable fault locator shall be used to locate the faults in the form of curve corresponding to cable length and distance to fault on the screen (Distance shall be dispaaved in figures as well)	Time Domain Reflectometer (TDR) for locating cable faults and measuring cable length	M							
1.3	Display	Color LCD Display	M							
1.4	Resolution	≥ 320x240 Pixels	50							
1.5	Ingress Protection	IP54/IP67	50							
1.6	Overvoltage Protection	250VAC/400VDC or specify	30							
1.7	Accessories	Connecting leads, Crocodile leads, Carrying Case, Batteries , Straps	100							
1.8	Battery Continous Use time	≥ 8 Hours	30							
1.9	Battery Type	Li-ion & & Rechargeable	50							
<b>2</b>	<b>Technical Requirements</b>									
2.1	Measuring Range	≥ 6 km /14000 Ft	200							
2.2	Resolution (accuracy)	± 1% (≤ 1 m or ± 1 % of measured distance)	50							
2.3	Output impedance/Max Poor Insulation	200 MΩ minimum	50							
2.4	Faults detection	Open/Break circuit fault	M							
2.5		Short circuit faults	50							
2.6		Low Insulation	50							
2.7		Bridge taps	50							
<b>3</b>	<b>Power and Enviroiment</b>									
4.1	Operating Temperature	( -10) to +55° C	20							
4.2	Storage Temperature	( -20) to +70°C	20							
4.3	Humidity (non condensing)	( 5% to 85% )	20							
4.4	Power Supply	220V AC /Batteries	30							
	<b>TOTAL</b>		<b>970</b>							
Note	<p>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as 'M' in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</p>									

**Technical specifications of Cable Route Locator**

Bidder's Name								
Bidder's Quoted Brand								
Manufacturing Country (Made & assembeled in)								
S.No	Title	Description	Marks	Bidder's Statement				
				FC	PC	NC	Bidder's Quoted Feature	Reference in Datasheets /Manual
<b>1</b>	<b>General Features</b>							
1.1	Manufacturer	Bidders must quote high quality Original Product of repute, substandard and Replica products are not required and will be disqualified.	M					
1.2		Marks will be awarded based on quality and repute of the manufacturer	300					
1.3	Intended Use	The cable route locator shall be suitable to track all types of underground copper cables at actual depth.	M					
1.4		The Cable Route Locator shall be applied on particular pair and that pair shall be detectable throughout the length of the cable.	M					
1.5	Display	Backlit LCD with Contrast	M					
1.6		Backlit LCD with contrast (auto on-off).	M					
1.7	Operating modes	≥ 5	200					
1.8	Sensitivity detection	Auto adustment	100					
1.9	Depth Range	≥ 3 Meters	100					
1.10	Audio Indication	Sound indication for Cable detection	50					
1.11	Accessories	Complete accessories including ClipPart, Carying Case, Battery Charger (in case of rechargeable), Battery set, Headphone, any other necessary for its working	100					
1.12	Tracing non-conductive pipelines	With floating Probe	100					
1.13	Connectivity	USB, LAN or Bluetooth interface for data transfer to PC	50					
<b>2</b>	<b>Transmitter</b>							
2.1	Nominal Output Power	≥ 1 Watt	100					
2.2	Output Frequency	8 kHz, 82~83 kHz and other frequencies	100					
2.3	Battery backup time	30 Hours or better on continuous use	20					
2.4	Indication	Low battery indication	20					
2.5	Ingress Protection	IP65 or better	M					
<b>3</b>	<b>Reciever</b>							
3.1	Cable trace accuracy	± 1 inch from 0-3 ft ± 3 inch over 3 ft in depth	100					
3.2	Battery Type	Li-ion & Rechargeable	50					
3.3	Battery Life	8 Hours or better on continuous use	100					
3.4	Indication	Low battery indication	20					
<b>4</b>	<b>Environmental</b>							
4.1	Operating Temperature	( -10) to +55° C	10					
4.2	Storage Temperature	( -20) to +70°C	10					
4.3	Humidity (non condensing)	( 5% to 85% )	10					
<b>TOTAL</b>			<b>1540</b>					
Note	Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Mraks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.							

## Technical Specifications of Rig Machine

<b>Bidder's Name</b>						
<b>Bidder's Quoted Brand</b>						
<b>Manufacturing Country (Made &amp; assembled in)</b>						
Sr. #	Description	Marks	Bidder's Statement			Obtained Marks
			FC	PC	NC	
<b>1</b>	<b>General</b>					
1.1	Modular crimping of 25 pairs of plastic insulated conductor of UG/Overhead Cables	M				
1.2	High quality Branded Machine (CE/ISO certified machine, designed for field operation with corrosion-resistant housing)	M				
1.3	Quality, Make and Design of the quoted product (Bidder shall provide documentary evidence of OEM certification, warranty (min. 1 year), and service support availability)	250				
<b>2</b>	<b>Design Requirement</b>					
2.1	One Man Operation Design (Portable and ergonomic design allowing operation by a single technician)	M				
2.2	Hydraulic Pressing Method	M				
2.3	Crimping Insulated Conductors (dia 0.4 to 0.6mm, 1.6mm dia with insulator)	M				
<b>3</b>	<b>Components</b>					
3.1	High Quality Branded Rig Case (Shock-resistant, weatherproof carrying case with compartments for all accessories)	M				
3.2	High quality Metal painted and refined Hydraulic Handle (Rust-resistant aluminum alloy or stainless steel with ergonomic grip)	50				
3.3	Wire Connection Frame (Frame shall securely hold pairs during crimping and prevent slippage)	50				
3.4	Pressing Connecting Head	50				
3.5	Installation Tools (Includes cutting, stripping, alignment and tightening tools)	50				
3.6	Dual Connection Head support	100				
3.7	Head/Traverse Clamp	50				
3.8	Opening Pliers	50				
3.9	Transversly moving pole	50				
3.10	Two Check Combs	50				
3.12	Aluminum Nickel Bar with wire guides having refined finish	50				
3.13	Pedestal supporting two splicing heads of plated steel	50				
3.14	Cable Grip Hoder	50				
3.15	Wire Insertion and Cutoff Tool (compatible with 25-pair IDC modules)	50				
3.16	Allen Wrenches, 5mm and 6mm (Shall be used to revolve the screw)	50				
<b>TOTAL</b>		<b>1000</b>				
<b>Note</b>	<b>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</b>					
	<b>Quoting all components are mandatory, non compliance will lead to disqualification</b>					

## Technical Specification of Cable Jointer Tool Kit

<b>Bidders Name</b>									
<b>Bidders Quoted Brand</b>									
<b>Manufacturing Country (Made &amp; assembeled in)</b>									
S.No	Item	Description	Marks	Bidder's Statement				Obtained Marks	
				FC	PC	NC	Bidder's Quoted Item		
<b>General</b>									
1	Quality , Built and Manufacturer	Branded Toolkit ; Tools should be of the highly reputable brand specifically designed for Electrical & Telecom use ; High quality Durable, anti-Rust and durable branded Toolkit items are Mandatory.Tools handles must be of Fiberglass Handles	250						
<b>Tools</b>									
2	HackSaw	Hacksaw Frame with Blade (Heavy-duty hacksaw frame with 12" bi-metal blade, rustproof finish)	50						
3	Claw Hammer	Accessory tool ≥ 450g	50						
4	Steel wire cutter	≥8" Accessory tool (Heavy-duty cutter, high-carbon steel blades, insulated handles)	50						
5	UG Cable cutter	≥8" Accessory tool	50						
6	Utility Knife	≥8" Accessory tool	50						
7	Measuring Tape	Steel Tape for length Measurement ; Length ≥ 5 Meters (non-stretch, anti-corrosion finish, metric/inch dual scale)	50						
8	Adjustable wrench	≥ 6 " Accessory tool /Preferably Insulated (adjustable spanner, chrome-plated steel, insulation grip)	50						
9	Wire Stripper	Standard AWG wire stripper (0.4-0.9 mm) with adjustable tension	50						
10	Electrical Tape	Insulation Tape	50						
11	Side Cutter Plier	LV Insulated ; Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press (LV insulated, forged alloy steel, anti-slip handle, sharp cutting edge)	50						
12	Long Nose Plier	LV Insulated: Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press (LV insulated, forged alloy steel, serrated jaws, rustproof finish)	50						
13	Combination Plier	LV Insulated: Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press (LV insulated, combination plier, hardened jaws, ergonomic handle)	50						
14	Crimping Tool	High quality branded Crimping Tool RJ45/RJ-11 (with ratchet lock mechanism)	50						
15	Screw Drivers Set	LV Insulated : Flat Tip (-) 03 x Screw drivers and 03 x Star Tip (+) screws set (Total 06 x pieces) ; Screw Driver Fixed with Handle. Size of each Screwdriver must be ≥ 6 Inches.	M						
16	Electric Tester	Digital Electric tester for power detection (Digital multimeter or pen-type voltage detector (AC/DC, 0-600 V range))	M						
17	Punching Tool	High quality punch down Tool (Krone-type IDC insertion tool with spare blades for telecom use)	50						
18	Torch Light	Medium Size Torch Light (rechargeable)	50						
19	Multimeter	High Precision Digital AC & DC Clamp on meter	M						
20	Packing /Casing	Branded high quality bag of fabric water-proof 600D polyester having adequate strength, shoulder strap , tools pockets and 10 Kg weight bearing capacity	50						
21	Testing Handset	CLI Testing Telephone HandSet (with tone/pulse dialing, FSK/DTMF caller ID, line voltage measurement)	M						
<b>TOTAL MARKS</b>			<b>1050</b>						
<b>Note</b>	<p><b>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</b></p>								
	<p><b>Quoting all Items alongwith Make &amp; Model Numbers are Mandatory</b></p>								
	<p><b>Non-Branded, non-complaint to the Technical Specifications and Tools without Make &amp; Model will be Disqualified.</b></p>								
	<p><b>House Hold/General Purpose Tools are not required and will be Disqualified; High quality anti-Rust,Insulated and durable branded Toolkit items are Mandatory.</b></p>								

### Technical Specification of Optical Fiber (OFC) Tool Kit

Bidder's Name											
Bidder's Quoted Brand											
Manufacturing Country (Made & assembled in)											
S.No	Item	Qty	Description	Marks	Bidder's Statement			Obtained Marks			
					FC	PC	NC		Bidder's Quoted Item		
<b>General</b>											
1	Quality, Built and Manufacturer		Branded Toolkit ; Tools should be of the highly reputable brand specifically designed for Electrical & Telecom use ; High quality Durable, anti-Rust and durable branded Toolkit items are Mandatory. Tools handles must be of Fiberglass Handles	250							
<b>Tools</b>											
2	Hacksaw	1 PC	Hacksaw Frame with Blade	30							
3	Claw Hammer	1 PC	Accessory tool ≥ 450g	30							
4	Utility Knife	1 PC	≥ 6 Inch Utility Tool	30							
5	Tri-Hole Fiber Striper	1 PC	Utility Tool for Peeling off Fiber Jacket	30							
6	Fiber Reamer	1 PC	Utility Tool for Cable Sheath Removal	M							
7	KEVLAR Scissor	1 PC	≥ 8 Inch Utility Tool	30							
8	Steel wire/ Rope cutter	1 PC	≥ 6 Inch Utility Tool	30							
9	Universal Round Fiber Cable Slitter	1 PC	Slit & strip round cables	M							
10	Long Nose Plier	1 PC	LV Insulated ; Medium Size ≥ 6 inches having Sharp edges which shall cut drop/Jumper wire with one press	30							
11	Side cutting Plier	1 PC	LV Insulated ; Medium Size ≥ 6 inches having Sharp edges which shall cut drop/Jumper wire with one press	40							
12	Electrical Tape	1 PC	For Insulation & Protection	30							
13	Fiber Cleaver	1 PC	High Quality branded Fiber Cleaver	M							
14	Measuring Tape	1 PC	Steel Tape for length Measurement ; Length ≥ 5 Meters	30							
15	250 ml Bottle of Alcohol with lock	1 PC	Isopropyl alcohol Bottle	30							
16	Pre-moist wipes	50 PCs	Isopropyl alcohol Swabs	30							
17	Adjustable wrench	1 PC	6" Accessory tool	30							
18	Headlight	1 PC	Headwrapped high quality Torch Light	M							
19	Screw Drivers Set	6 PCs	LV Insulated : Flat Tip (-) 03 x Screw drivers and 03 x Star Tip (+) screws set (Total 06 x pieces) ; Screw Driver Fixed with Handle. Size of each Screwdriver must be ≥ 6 Inches.	80							
20	VFL	1 PC	High quality long Range	100							
21	OPM	1 PC	Optical Power Meter	100							
22	Fiber Sleeves	one Pkt	40mm/60mm	100							
23	Emergency Light	1 PC	10 Watt IP Rated LED Light	120							
24	Umbrella		Heavy duty Umbrella to cover two persons with tools	100							
25	Packing /Casing	1 PC	Branded high quality bag of fabric water-proof 600D polyester having adequate strength, shoulder strap, tools pockets and 10 Kg weight bearing capacity	100							
Total				1100							
<p><b>Technical Evaluation Criteria</b></p> <p>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as 'M' in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in 'Marks' column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</p> <p><b>Quoting all Items alongwith Make &amp; Model Numbers are Mandatory.</b></p> <p><b>Non-Branded, non-complaint to the Technical Specifications and Tools without Make &amp; Model will be Disqualified.</b></p> <p><b>House Hold/General Purpose Tools are not required and will be Disqualified; High quality anti-Rust, Insulated and durable branded Toolkit items are Mandatory.</b></p>											

## Technical Specifications of OTDR

<b>Bidder's Name</b>									
<b>Bidder's Quoted Brand</b>									
<b>Manufacturing Country (Made &amp; assembled in)</b>									
S.No	Item	Description	Marks	Bidder's Statement					
				FC	PC	NC	BQF	Marks	
<b>1</b>	<b>OTDR Specifications</b>								
1.1	OTDR Make	Highly reputable & Accurate OTDR Brand	M						
1.2	Intended Use	Fiber Fault identification on Long Haul and Metro Junction Network; The bidder must quote high performance model OTDR , micro OTDR are not required	M						
1.3	Fiber Type	Single-Mode (G.652)	M						
1.4	Operating Mandatory Wavelengths	1310 nm,1550 nm,1625 nm	M						
1.5	Wavelength Tolerance	± 20 (nm) or better	25						
1.6	Emitter Type	Laser Diode (LD)	20						
1.7	Safety Class	Class I M	25						
1.8	Dynamic Range (SNR=1)	≥ 38 dB	M						
1.9	Distance Uncertainty (Accuracy)	±(1 m + 1x10 <sup>-5</sup> x distance + sampling resolution)	30						
1.10	Event Dead Zone	(0.8 - 1) m	40						
1.11	Attenuation Dead Zone	(4 - 9 ) m	40						
1.12	Display Distance Range	180-260 km	50						
1.13	Pulse width (Configurable)	(5,10,30,100,300)ns, (1,2.5,10,20)µs	25						
1.14	Loss threshold	0.01 dB	20						
1.15	Loss resolutaion	0.001 dB	20						
1.16	Sampling Resolution	0.04 to 5 m	15						
1.17	Sampling Points	128000 to 256000	25						
1.18	Attenuation Linearity	± .03 dB / dB	20						
1.19	Group Index of Refraction	1.00000~2.00000	15						
<b>2</b>	<b>General Specifications</b>								
2.1	Display	≥ 5 inch Color Touchscreen, Color	50						
2.2		Graphical event display	100						
2.3	Language	English	M						
2.4	Internal Storage	700-1000 traces	25						
2.5	Interfaces	2*USB, 1 * RJ45 Ethernet	30						
2.6	External Power Supply	AC Input:220 V, 50Hz	M						
2.7	Battery Type	Li-ion & Rechargeable	50						
2.8	Battery Life	10 hrs life or better	30						
2.9	Battery Indications	Full / Low Battery indication	20						
<b>3</b>	<b>Environmental</b>								
3.1	Operating Temperature	( -10) to +50° C	20						
3.2	Storage Temperature	( -20) to +70°C	20						
3.3	Humidity (non condensing)	( 5% to 85%)	10						
<b>TOTAL</b>			<b>725</b>						
<b>Note</b>	<p>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Mraks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</p>								

## Technical Specifications of Core Alignment Splicing Machine

Bidder's Name									
Bidder's Quoted Brand									
Manufacturing Country (Made & assembled in)									
S.No	Item	Description	Marks	Bidder's Statement					
				FC	PC	NC	Bidder's Quoted Feature	Reference in Datasheets/ Manual	
<b>1</b>	<b>Splicing Specifications</b>								
1.1	General Requirement	Core Alignment Splicing Machine (with Six Motors for high performance)	M						
1.2	Fiber Type	SM (G.652), DS (G.653), CSF (G.654), NZDS (G.655), Bend-Insensitive (G.657) Fibers, bare fiber, pigtail, drop cable and invisible optical fiber.	M						
1.3		MM (G.651)	20						
1.4	Typical Splice Loss	≤0.02 dB for SMF	M						
1.5		≤0.01 dB for MMF	20						
1.6		≤0.04 dB for DSF	20						
1.7		≤0.04 dB for NZDSF	20						
1.8	Cladding Diameter	(80 - 150) μm	15						
1.9	Coating Diameter	(100 - 1000) μm	20						
1.10	Splicing Method / Alignment	Core Alignment	M						
1.11	Splice Time	5 to 7 sec (Fast Mode) (bidder should specify)	80						
1.12		10-13 Sec (with Auto Mode) (bidder should specify)	20						
1.13	Heating Time	15 Sec (for standard sleeve) (bidder should specify)	100						
1.14	Heat shrink tube / Sleeve Length	25 - 60 mm	15						
1.15	Typical Return Loss	Better than 60dB	20						
1.16	Tension/Tensile Test	2N or more	10						
1.17	Electrode Life	5000 Splice or better	200						
<b>2</b>	<b>General Specifications</b>								
2.1	Data Transfer (with PC or Mobile)	USB (with USB cable) or LAN (with LAN cable) or Bluetooth	M						
2.2	Monitor	5.0" Colored Touch Screen LCD or better	M						
2.4	Splice Modes/Ways	Automatic and Step-by-Step/Manual	30						
2.6	Magnification	≥ 200x for Single Display X/Y	30						
2.7		≥ 320x for Dual Display X&Y							
2.7	Splice Result Data Storage	1K or more Images and Splice Records/Groups	100						
2.8	Battery Working Capability	240 or more Splicing/Heating Cycles	100						
2.9	Battery Capacity	> 5000 mAh	50						
2.10	Battery Type	Li-ion & Rechargeable	50						
2.12	AC Input	100-240 V (50-60) Hz	M						
2.13	Language	English	M						
<b>3</b>	<b>Environmental</b>								
3.1	Operating Temperature	(-10) to +50° C	50						
3.3	Humidity (non condensing)	(< 95%)	50						
<b>4</b>	<b>Accessories</b>								
4.1	Standard Accessories	High Precision Fiber Cleaver	M						
4.2		Spare Electrode	M						
4.3		High quality Carrying Case / Tool Case	M						
4.4		Alcohol Dispenser/Bottle	M						
4.7		Power Adaptor with Power Cord	M						
		Cable Stripper	M						
<b>TOTAL</b>			<b>1020</b>						
Note	* Splicing machine should cover all the necessary accessories including stripper, cleaver, burner, charger, Manuals etc. Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.								

## Technical Specification of Measuring Wheel

Bidder's Name							
Bidder's Quoted Brand							
Manufacturing Country (Made & assembeled in)							
Sr.No	Item	Description	Marks	Bidder's Statement			
				FC	PC	NC	Bidder's Quoted Feature
1	Brand	High quality reputable Brand	160				
2	Application	Measurement of land distance	M				
3	Wheel	Diameter between 10 to 13 Inches	M				
4		Made of polypropylene or Bidder Should specify	20				
5		Sturdily designed spokes to minimise wind, resistance & easy to use in difficult weather conditions	30				
6		Foot operated wheel stand	10				
7		Brake for stop measuring	10				
8		Long life Rubber tyre	10				
9	Handle / Rod	Made of Iron/Steel	M				
10		Foldable for packing	M				
11		Curved handel with plastic/rubber hand grip	10				
12	Features	Digital LCD Display	M				
13		AA Battery	M				
14		Measuring Range up to 9999 meters or better	M				
15		Capability of measuring in Meters	M				
16		Clearly visible pointer for accurate start and end readings	10				
17		Tough, metal gearing and working parts for logevity	10				
18		Measuring accuracy up to 99% or better	30				
19	Reset button/knob	M					
20	Carrying Case	Nylon/leather/ Parashoote/hard casing	M				
<b>TOTAL</b>			<b>300</b>				
<b>Note</b>	Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Mraks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.						

**Technical Specification of GPS Device**

Bidder's Name								
Bidder's Quoted Brand								
Manufacturing Country (Made & assembeled in)								
Sr.No	Item	Description	Marks	Bidder's Statement				
				FC	PC	NC	Bidder's Quoted Feature	Reference in Datasheets/ Manual
1.1	Receiver	High Sensativity Receiver (Differential-ready 12 parallel channel receiver)	50					
1.2	Acquisition Time	Bidder should specify	30					
1.3	Update rate	1/Second or better (Bidder should specify)	30					
1.4	GPS Accuracy	Bidder should specify	30					
1.5	Type	Handheld	M					
1.6	Antenna	Built-in	M					
1.7	Display	LCD with 4-level gray scale display	M					
1.8	Interface	USB, RS-232	M					
1.9	Area / Distance calculation	Capable to calculate the distance between two points / locations	30					
1.10	Battery type	Preferabaly rechargeable or Bidder should specify	30					
1.11	Batter Life	10 Hours or better on continous use	40					
1.12	Protection	Waterproof (IPX7)	40					
1.13	Accessories	Battery, Charger, Data Cable, Manuals etc.	M					
1.14	Operating Temperature	( -10) to +50° C	10					
1.15	Storage Temperature	( -20) to +70°C	10					
1.16	Humidity (non condensing)	( 5% to 85% )	10					
<b>TOTAL</b>			<b>310</b>					
<b>Note</b>	Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Mraks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 75 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.							

## Technical Specifications of Visual Fault Locator

Bidder's Name										
Bidder's Quoted Brand										
Manufacturing Country (Made & assembled in)										
S.No	Title	Description	Marks	Bidder's Statement						
				FC	PC	NC	Bidder's Quoted Feature	Reference in Datasheets		
1	Manufacturer	High quality reputable manufacturer	100							
2	Wavelength Range	630 to 650 nm	M							
3	Emitter Type	Laser, Class II	M							
4	Distance Range (typical)	10 Km or better	M							
5	Operation Mode	Pulsed and Continous Wave (CW)	M							
6	Connector Interface	Universal Connector 2.5 mm / SC/LC/FC	M							
7	Fiber Compatibility	Connectors Single mode /Multimode	M							
8	Laser output power	≥10 mWatt	M							
9	Battery	Rechargeable Battery ≥ 1000mAH	M							
10	Battery Life	7+ hours	70							
11	Body	Metal	M							
12	Drop Test	01 Meter	M							
13	Auto Power OFF	Adjustable Auto Power Off	100							
14	Certifications:	Certifications: CE, UKCA or Equivalent	M							
15	Protection level	IP54	M							
16	Operating Temperature	-10 to +45 °C	15							
17	Storage Temperature	-20 to +50 °C	15							
18	Accessories	Carrying case, Manual, Battery, dust cap, Connector,Adaptadapter /power cord	M							
<b>TOTAL</b>			<b>300</b>							
Note	<p>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as 'M' in Mraks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</p>									

## Technical Specifications of Laser-Source

Bidder's Name								
Bidder's Quoted Brand								
Manufacturing Country (Made & assembled in)								
S.No	Item	Description	Marks	Bidder's Statement				
				FC	PC	NC	Bidder's Quoted Feature	Marks
<b>1</b>	<b>Specifications</b>							
1.1	Brand	High quality reputable Brand	140					
1.2	Optical Tunable Laser Source	Should be handheld	M					
1.3	Emitter Type	Laser Diode	M					
1.4	Safety Class	Class-1	M					
1.5	Wavelength	(1310 & 1550) ± 20 nm	M					
1.6	Fiber Type	SMF (9/125 μm)	M					
1.7	Spectral Width	≤ 5nm (1310 & 1550)	20					
1.8	Output Power Level	(-7 -0) dbm	30					
1.9	Power Stability	Short Term: ±0.02 dB (15 Minutes) Long Term: ±0.2 dB (8 Hours)	20					
1.10	Modes	Contionuous wave (CW)	10					
1.11	Modulation	270Hz, 1-KHz, 2-KHz	15					
1.12	Optical Connector (Interface)	(ST/PC/FC/SC/DIN) (Type of Adapter as mentined in BoQ)	25					
<b>2</b>	<b>General Specifications</b>							
2.1	Remote Interface	USB / RS-232	20					
2.2	Display	LCD/LED	15					
2.3	Power Supply	Rechargeable Battery	20					
2.4		AC Line adapter via separate AC Adapter	15					
2.5		Automatic Power Shutdown after ~ 20 min	10					
2.6		Low Battery indication	15					
2.7	Operating Time	> 45 hours for Rechargeable cell	25					
<b>3</b>	<b>Environmental</b>							
3.1	Operating Temperature	( -10) to +50° C	10					
3.2	Storage Temperature	( -20) to +70°C	5					
3.3	Humidity (non condensing)	( 5% to 85% )	5					
<b>TOTAL</b>			<b>400</b>					
Technical Evaluation Criterea		<p>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Mraks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</p>						

## Technical Specification of Optical Power Meter

Bidder's Name										
Bidder's Quoted Brand										
Manufacturing Country (Made & assembled in)										
S.No	Title	Description	Marks	Bidder's Statement						
				FC	PC	NC	Bidder's Quoted Feature	Reference in Datasheets/Manual		
<b>1</b>	<b>Power Meter Specifications</b>									
1.1	Power Meter	Should be handheld	M							
1.2	Applicable Fiber Type	G.652D SM OFC	M							
1.3	Power Meter Range	(-50 to +26) dBm	M							
1.4	Wavelengths Range	800~1700 nm	50							
1.5	No fo Calibrated Wavelengths	850, 980, 1300, 1310, 1490, 1550, 1625, 1650	M							
1.6	Photo Diode	In GaAs	M							
1.7	Optical Connector	Universal connector FC/SC/ST	M							
1.8	Remote Interface	USB	20							
<b>2</b>	<b>General Specifications</b>									
2.1	Manufacturer	High quality renowned brand of repute. Replica or substandard brands are not required	300							
2.2	Certification	CE, RoHS or Equivalent	M							
2.3	Ingress Protection	IP65 or higher	M							
2.4	Strength	2 Meter drop proof	M							
2.5	Low Battery Indication	Low battery indication	50							
2.6	Display	LCD	40							
2.7	Resolution	0.01 dB/.001 $\mu$ W	10							
2.8	Battery Life	> 50 hours with Laser ON	50							
2.9	Power	1.5V battery	50							
2.10		Auto-Power off	M							
<b>3</b>	<b>Environmental</b>									
3.1	Operating Temperature	( -10) to +50° C	10							
3.2	Storage Temperature	( -20) to +70°C	10							
3.3	Humidity (non condensing)	( 5% to 85% )	10							
<b>TOTAL</b>			<b>600</b>							
Note	Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.									

## Technical Specifications of Lineman's Toolkit

Bidders Name										
Bidders Quoted Brand										
Manufacturing Country (Made & assembeled in)										
S.No	Item	Description	Marks	Bidder's Statement				Obtained Marks		
				FC	PC	NC	Bidder's Quoted Item			
<b>General</b>										
1	Quality , Built and Manufacturer	Branded Toolkit ; Tools should be of the highly reputable brand specifically designed for Electrical & Telecom use ; High quality Durable, anti-Rust and durable branded Toolkit items are Mandatory.Tools handles must be of Fiberglass Handles	250							
<b>Tools</b>										
2	Claw Hammer	Accessory tool ≥ 450g	50							
3	Steel wire cutter	≥8" Accessory tool (Heavy-duty cutter, high-carbon steel blades, insulated handles)	50							
4	Cable cutter	≥8" Accessory tool (ratchet-type cutter for UG/overhead telecom cable)	50							
5	Utility Knife	Retractable safety-blade utility knife with spare blades	50							
6	Measuring Tape	Steel Tape for length Measurement ; Length ≥ 5 Meters	50							
7	Adjustable wrench	≥ 6 " Accessory tool /Preferably Insulated (adjustable spanner, chrome-	50							
8	Wire Stripper	Standard AWG wire stripper (0.4–0.9 mm) with adjustable tension	50							
9	Electrical Tape	Insulation Tape	50							
10	Side Cutter Plier	LV Insulated ; Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press	50							
11	Long Nose Plier	LV Insulated: Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press	50							
12	Combination Plier	LV Insulated: Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press	50							
13	Crimping Tool	High quality branded Crimping Tool RJ45/RJ-11	50							
14	Screw Drivers Set	LV Insulated : Flat Tip (-) 03 x Screw drivers and 03 x Star Tip (+) screws set (Total 06 x pieces) ; Screw Driver Fixed with Handle. Size of each Screwdriver must be ≥ 6 Inches.	M							
15	Electric Tester	Digital Electric tester for power detection	M							
16	Punching Tool	High quality punch down Tool (Krone-type IDC insertion tool with spare blades (for telecom cross-connect)	50							
17	Torch Light	Medium Size Torch Light (rechargeable)	50							
18	Multimeter	High Precision Digital AC & DC Clamp on meter	M							
19	Packing /Casing	Branded high quality bag of fabric water-proof 600D polyester having adequate strength, shoulder strap , tools pockets and 10 Kg weight bearing capacity	50							
20	Testing Handset	CLI Testing Telephone HandSet	M							
<b>TOTAL MARKS</b>			<b>1000</b>							
<b>Note</b>		<p>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</p> <p>Quoting all Items alongwith Make &amp; Model Numbers are Mandatory</p> <p>Non-Branded, non-complaint to the Technical Specifications and Tools without Make &amp; Model will be Disqualified.</p> <p>House Hold/General Purpose Tools are not required and will be Disqualified; High quality anti-Rust,Insulated and durable branded Toolkit items are Mandatory.</p>								

## Technical specifications of CLI Testing Handset

Bidder's Name										
Bidder's Quoted Brand										
Manufacturing Country (Made & assembeled in)										
Sr. No	Title	Description	Marks	Bidder's Statement			Obtained Marks			
				FC	PC	NC		Bidder's Quoted Feature		
<b>1</b>	<b>General</b>									
1.1	Quality, Built and Manufacturer	High quality, lasting built and renowned Manufacturer with ISO 9001:2015 certification (Rugged and field-tested design)	300							
<b>2</b>	<b>Functions</b>									
2.1	Functions	Auto Power ON/OFF	M							
2.2		Dialing , Receiving, Redial functions	M							
2.3		Caller number Display	M							
2.4		Telephone number storage function	M							
2.5		Call Back	20							
2.6		DC Resistance	50							
2.7		Call user & Talk	M							
2.9		Tone/Pulse Transfer	M							
2.10		Handsfree Function (Loudspeaker , two way speaking)	10							
<b>3</b>		<b>Features</b>								
3.1	Ringer	for incoming Calls	M							
3.2	Battery	Preferably rechargeable / Line Mode (Line-powered operation preferred. Built-in rechargeable Li-ion battery for off-line use)	30							
3.3	Integration	Handset shall be a single intergrated body (Transmitter, Receiver and keypad) and easily carried in hand	M							
3.4	Holding hook	Hook for attachment of set to shirt /collar / sleeve etc	20							
3.5	Insulation Resistance	0~30 MΩ	30							
3.6	Key Pad	Keypad to be on upside of the set.	20							
3.7		Key pad must be durable.	M							
3.8	Connector Cord	RJ-11 Jack & directly coupled cable with crocodile clips	M							
3.9	Speech	Speech level during conversation must not be low and noisy.	M							
3.10	Sidetone	Sidetone should be produced within comfortable level	50							
3.11	Strength	Mechanical strength to withstand drop of 3 meters, temprature and humidity	100							
3.12	Operating Temperature	( -10) to +50° C	30							
3.13	Humidity (non condensing)	( 5% to 85% )	10							
<b>TOTAL Marks</b>			<b>670</b>							
<b>Note</b>	<b>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Mraks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</b>									

## Technical Specification of Insertion Tool

Bidder's Name									
Bidder's Quoted Brand									
Manufacturing Country (Made & assembled in)									
S.No	Title	Description	Marks	Bidder's Statement					
				FC	PC	NC	Bidder's Quoted Feature	Reference in Datasheet	
1	<b>Insertion Tool Specifications</b>								
1.1	Brand	High quality reputable Brand (High-quality, reputable, telecom-grade brand (Krone/3M/ADC or equivalent))	M						
1.2	Body Material	ABS	M						
1.3	Blade Material	Manganese steel	M						
1.4	Design	Durable	M						
1.5	Weight	≥ 50 gram	50						
1.6	Size	Bidder to specify	50						
1.7	Compatibility	Jumper Wire insertion in Telecom MDF,Cabinet , DP Termination Module (Suitable for jumper wire insertion and termination on telecom MDF, Krone-type, or similar IDC termination modules (Cabinet/DP))	M						
<b>TOTAL</b>			<b>100</b>						
Note	<p>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</p> <p>Non-Branded, non-complaint to the Technical Specifications and without Make &amp; Model will be Disqualified.</p>								

## Technical Specifications of xDSL Tester

Bidder's Name										
Bidder's Quoted Brand										
Manufacturing Country (Made & assembled in)										
S.No	Title	Description	Marks	Bidder's Statement						
				FC	PC	NC	Bidder's Quoted Feature	Marks		
<b>1</b>	<b>Type</b>									
1.1	xDSL Tester	Hand Held and Portable Design	M							
1.2		Integrated with DMM Option	100							
<b>2</b>	<b>Standard Compliance</b>									
2.1	xDSL Standard Supported	G.992.1, G.992.2, G.994.1, G.992.3 (ADSL2), ITU-T G.992.5 (ADSL2+), VDSL2, VDSL2+	M							
2.2		VDSL2, VDSL2+	M							
<b>3</b>	<b>Physical Layer Feature Support</b>									
3.1	DSL Measurement(Upstream & Downstream)	Actual and Maximum bit rates	10							
3.2		Latency mode: Fast, Interleaved	5							
3.3		Capacity (%), Output Power	10							
3.4		Signal to noise ratio (SNR) margin, Attenuation	10							
3.5		Carrier Load (bits/bin)	5							
3.6		Interleave depth, delay	5							
3.7		Graphical display of BPT (bits-per-tone)	10							
3.8		Graphical display of SNR (SNR-per-tone)	10							
<b>4</b>	<b>xDSL Errors</b>									
4.1	ADSL Errors	LOS (Loss of Sync)	10							
4.2		LOF (Loss of Frame)	10							
4.3		LOP (Loss of Power)	10							
4.4		CRC(Cyclic Redundancy Check)	10							
4.5		HEC(Header Error Correction)	10							
4.6		FEC(Forward Error Correction)	10							
<b>5</b>	<b>Copper Test</b>									
5.1	DMM Parameters for Copper Test	AC Voltage Range:(0 to 300) Accuracy: +/- 2%	5							
5.2		DC Voltage Range:(0 to 300) Accuracy: +/- 2%	5							
5.3		Loop Resistance Range :5 $\Omega$ to 5 K $\Omega$ Accuracy: +/- 5%	5							
5.4		Line Insulation Resistance Range: 5 $\Omega$ to 50 M $\Omega$ Accuracy: +/-10%	5							
5.5		Capacitance Range: 0nF to 500 nF Accuracy :+/- 10%	5							
<b>6</b>	<b>PPP/IP Connectivity</b>									
6.1	Encapsulation and Protocol Supported	PPPoE (RFC 2516)	M							
6.2		PPPoA / LLC and PPPoA/VC-MUX(RFC 2364)	M							
6.3		IP oE (RFC 2684) Bridged	15							
6.4		IPoA (RFC 1577)	15							
6.5		PAP and CHAP support	15							
6.6		DNS, DHCP Support	5							
6.7		NAT/PAT support	15							
6.8		IPCP, VLAN support	10							
<b>7</b>	<b>Interfaces</b>									
7.1	Interface support	RJ-11 (DSL line), RJ-45 (Ethernet)	50							
7.2	Series Port/USB PORT	RS-232C/USB (For Printer Connectivity)	50							
<b>8</b>	<b>Other Feature</b>									
8.1	Feature Support	The instrument can be used as modem to test Internet wire speed and bandwidth available for the user.	20							
8.2		Auto Power-off feature	5							
8.3		Sound and LED alarms or indications	5							
8.4		Large storage capacity - can store up to 100 test results	15							
8.5		Can be interfaced with PC to transfer result and software upgrade.	10							
8.6		Memory retention in case of Power failure	10							
<b>9</b>	<b>General</b>									
9.1	Manufacturer	High quality renowned brand of repute. Replica or substandard brands are not required	300							
9.2	Display	TFT true color large display (sunlight-readable)	10							
9.3	Operation	Touch screen operation (preferably)/Keypad	15							
9.4	Power	Internal rechargeable Battery (Li-ion)	50							
9.5		$\geq$ 6 hours operation	30							
9.6		AC Line operation via external adapter/charger	20							
<b>10</b>	<b>Environmental</b>									
10.1	Operating Temperature	( 0 $^{\circ}$ c to +50 $^{\circ}$ c)	10							
10.2	Humidity (non condensing)	( 5% to 85% )	10							
<b>TOTAL</b>			<b>935</b>							
<b>Note</b>	Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.									

## Technical Specification of Ethernet Tester

Bidder's Name									
Bidder's Quoted Brand									
Manufacturing Country (Made & assembeled in)									
S.No	Title	Description	Marks	Bidder's Statement					
				FC	PC	NC	Bidder's Quoted Feature	Reference in Datasheet	
<b>1</b>	<b>FE Tester Specifications</b>								
1.1	Brand	High quality reputable Brand	150						
1.2	FE Tester	Should be handheld in Tx and Rx Pair	M						
1.3	Intended Test connectors	RJ45/RJ11	M						
1.4	Fast test mode	LED1~LED8, LED_G	20						
1.5	Slow test mode	LED1~LED8, LED_G	20						
1.6	Testing Modes	To test for the case of short circuit, crossover, open circuit, etc	M						
1.7		Ethernet cable: shielded/ unshielded test	M						
1.8	Shutdown function	Manual	M						
1.9	Auto shutdown function	No operation within 10 minutes	M						
1.10	Feature	Single key operation	M						
1.11	Power supply	9V battery	50						
1.12	Low battery detection	Less than 7.2V	M						
1.13	Safety standard	EN61326-1: 2013; EN61326-2-2: 2013 or equivalent	M						
1.14	Certificates	CE, UKCA or equivalent	M						
<b>2</b>	<b>Environmental</b>								
2.1	Working Temperature	0°C~40°C	10						
2.2	Storage Temperature	-10°C~50°C	10						
2.3	Humidity (non condensing)	20~80%RH	10						
<b>TOTAL</b>			<b>120</b>						
<b>Note</b>	<p>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</p> <p>Non-Branded, non-complaint to the Technical Specifications and Tester without Make &amp; Model will be Disqualified.</p>								

# Technical Specifications of Data Technician Tool Kit

Bidders Name										
Bidders Quoted Brand										
Manufacturing Country (Made & assembeled in)										
S.No	Item	Description	Marks	Bidder's Statement			Bidder's Quoted Item	Obtained Marks		
				FC	PC	NC				
<b>General</b>										
1	Quality , Built and Manufacturer	Branded Toolkit ; Tools should be of the highly reputable brand specifically designed for Elecrical & Telecom use ; High quality Durable, anti-Rust and durable branded Toolkit items are Mandatory.Tools handles must be of Fiberglass Handles	250							
<b>Tools</b>										
2	HackSaw	Hacksaw Frame with Blade	50							
3	Claw Hammer	Accessory tool ≥ 450g	50							
4	Steel wire cutter	≥8" Accessory tool	50							
5	Cable cutter	≥8" Accessory tool	50							
6	Utility Knife	≥8" Accessory tool	50							
7	Measuring Tape	Steel Tape for length Measurement ; Length ≥ 5 Meters	50							
8	Adjustable wrench	≥ 6 " Accessory tool /Preferably Insulated	50							
9	Wire Stripper	Standard AWG wire stripper	50							
10	Electrical Tape	Insulation Tape	50							
11	Side Cutter Plier	LV Insulated ; Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press	50							
12	Long Nose Plier	LV Insulated: Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press	50							
13	Combination Plier	LV Insulated: Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press	50							
14	Crimping Tool	High quality branded Crimping Tool RJ45/RJ-11	50							
15	Screw Drivers Set	LV Insulated : Flat Tip (-) 03 x Screw drivers and 03 x Star Tip (+) screws set (Total 06 x pieces) ; Screw Driver Fixed with Handle. Size of each Screwdriver must be ≥ 6 Inches.	M							
16	Electric Tester	Digital Electric tester for power detection	M							
17	Punching Tool	High quality punch down Tool	50							
18	Torch Light	Medium Size Torch Light	50							
19	Multimeter	High Precision Digital AC & DC Clamp on meter	M							
20	Packing /Casing	Branded high quality bag of fabric water-proof 600D polyester having adequate strength, shoulder strap , tools pockets and 10 Kg weight bearing capacity	50							
21	Testing Handset	CLI Testing Telephone HandSet	M							
22	Ethernet Network Tester	High quality renowned brand Network Tool	50							
23	Mini Wire Stripper	High quality CAT6 Cable Stripper	50							
<b>TOTAL MARKS</b>			<b>1150</b>							
<b>Technical Evaluation Criterea</b>		Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Mraks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.								
		Quoting all Items alongwith Make & Model Numbers are Mandatory.								
		Non-Branded, non-complaint to the Technical Specifications and Tools without Make & Model will be Disqualified.								
		House Hold/General Purpose Tools are not required and will be Disqualified; High quality anti-Rust,Insulated and durable branded Toolkit items are Mandatory.								

## Technical Specification of Clamp Meter

Bidder's Name									
Bidder's Quoted Brand									
Manufacturing Country (Made & assembled in)									
S.No	Title	Description	Marks	Bidder's Statement					
				FC	PC	NC	Bidder's Quoted Feature	Reference in Datasheets/Manual	
<b>1</b>	<b>Clamp On Meter Specifications</b>								
1.1	Brand	High quality reputable Brand	150						
1.2	Clamp On Meter	Should be handheld	M						
1.3	AC current (A)	400A	M						
1.4	AC Current/Voltage Accuracy	Bidder should specify	50						
1.5	AC Voltage & current frequency response	45Hz~400Hz	100						
1.6	DC current (A)	400A	M						
1.7	AC voltage (V)	600V	M						
1.8	DC voltage (V)	600V	M						
1.9	Resistance ( $\Omega$ )	40M $\Omega$	M						
1.10	Capacitance (F)	40mF	M						
1.11	Temperature ( $^{\circ}$ C)	-40 $^{\circ}$ C~1000 $^{\circ}$ C	30						
1.12	Display count	4000	M						
1.13	Jaw opening	28mm	M						
1.14	Category ratings	CAT II 600V	M						
1.15	Auto range	Data hold	30						
1.16	True RMS/NCV	MAX/MIN	30						
1.17	Contnuity test	Low battery indication	30						
1.18	Diode	Auto power off	30						
1.19	Power	1.5V battery (R03) x 2	30						
1.20	Standard accessories	Batteries, test leads, English manual	30						
1.21	Display	Backlit LCD	M						
1.22	Certificates	CE, UKCA or equivalent	M						
<b>2</b>	<b>Environmental</b>								
2.1	Humidity (non condensing)	( 5% to 85% )	10						
<b>TOTAL</b>			<b>370</b>						
<b>Note</b>	Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.								

## Technical Specification of ISDN PRI Tester

Bidder's Name									
Bidder's Quoted Brand									
Manufacturing Country (Made & assembled in)									
S.No	Title	Description	Marks	Bidder's Statement					
				FC	PC	NC	Bidder's Quoted Feature	Marks	
<b>1</b>	<b>Performance Parameters</b>								
1.1	Brand	High quality reputable Brand	150						
1.2	Purpose and usage	The equipment is intened for testing of ISDN PRI Lines ; Traditional BERT Tester are not required.	<b>M</b>						
<b>2</b>	<b>ISDN Features</b>								
2.1	Primry Rate Interface (PRI) Testing Data Rate 30B+2D	2.048 Mbps	<b>M</b>						
2.2	ITU-T Standard compliace	ITU-T I.143 , ITU-T I.430, ITU-T G.703, G.704, G.706, G.821, G.826, I.431 standards	M						
2.3	ISDN BRI/PRI Tests	PRI TE Simulation	50						
2.4		PRI Signal Simulation	50						
2.5		PRI Monitoring	50						
2.6		D Channel Trace	50						
2.7		E1-BERT via all B Channels	50						
2.8	Error Measurements	Bit Error Rate	10						
2.9		CRC Errors	10						
2.10		Frame Errors	10						
2.12	Internal Clock	2048 Kb/s ± 50 ppm	50						
2.13	Line Interfaces	120Ω balanced as per ITU-T G.703	50						
2.14		High input impedance	15						
2.15	Coding	HDB3 and AMI selectable	M						
2.16	Performance Analysis	Accuracy: ± 1ppm; Range (-999ppm) - (+999ppm)	15						
2.17	Frame Structure	Unframed, PCM 30, PCM30CRC,PCM31, PCM31CRC (CRC4, Non-CRC4, PCM30, PCM31)	15						
2.18	Error Injection	Type: BIT, FAS, CODE, CRC4,E-BIT or bidder should specify	10						
2.19		Single, Fixed Rate :10 <sup>-2</sup> , 10 <sup>-3</sup> , 10 <sup>-4</sup> , 10 <sup>-5</sup> , 10 <sup>-6</sup> , 10 <sup>-7</sup>	20						
2.20	Alarm Inidcation	Signal Loss, AIS, Frame Loss, MFrame Loss, Pattern Loss, Remote Alarm, Errors, Lwo Battery (LOS, AIS, LOF, RAI, Slip, CRC alarm, Frame loss, Pattern loss)	20						
2.21	Loops	Self Test	10						
2.22	Test Patterns	Bidder should specify (ITU-T 0.151, 0.152, 0.153 patterns)	10						
2.23	Display	LED Display and Status indicators	10						
<b>3</b>	<b>Genral Features</b>								
3.1	Manufacturer	High quality renowned brand of repute. Replica or substandard brands are not required	200						
3.2	PC Interface	USB	25						
3.3	Features	LCD Backlight	20						
3.4		Save /Recall upto 50 results	20						
3.5		Software upgradable	20						
3.6		Test results can be uploaded to PC (USB/LAN/Bluetooth)	50						
3.7	LCD Screen	128 x 64 Monochromatic or better	70						
<b>4</b>	<b>Accessories</b>								
4.1	Allied Accessories	Carrying case	15						
4.2		Battery Charger	15						
4.3		AC Power Adapter	15						
4.4		Test Leads	15						
<b>5</b>	<b>Power and Equipment</b>								
5.1	Batteries	Li-ion & Rechargeable	50						
5.2	Batteries Backup Time	4hrs or more (Bidder should specify)	20						
5.3	Battery Recharge Time	Bidder should specify	10						
5.4	AC Power Input	210~230 VAC	25						
5.5	Input Frequency	50 Hz	M						
<b>6</b>	<b>Environmental</b>								
6.1	Operating Temperature	( -10) to +50° C	10						
6.2	Storage Temperature	( -20) to +60°C	10						
6.3	Humidity (non condensing)	( 5% to 85% )	10						
<b>TOTAL</b>			<b>1255</b>						
Note	<p>Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Mraks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.</p>								

## Technical specifications of Digital Earth Tester

Bidder's Name									
Bidder's Quoted Brand									
Manufacturing Country (Made & assembled in)									
Sr.	Item	Description	Marks	Bidder's Statement				Obtained Marks	
				FC	PC	NC	Bidder's Quoted Feature		
<b>1</b>	<b>Measuring Range</b>								
1.1	Earth Resistance Range	0 to 4000 $\Omega$	M						
1.2	Earth Voltage	0-400 V AC (50)Hz	M						
<b>2</b>	<b>Accuracy</b>								
2.1	Accuracy (Earth Resistance)	$\pm(2\%+3)$	100						
2.2	Accuracy (Earth Voltage)	$\pm(1\%+4)$	100						
2.3	Precise Earth Resistance Methods	2-Wire and 3-Wires	M						
<b>3</b>	<b>Resolution (<math>\Omega</math>)</b>								
3.1	Resolution	(0.01 to 1) $\Omega$	100						
<b>4</b>	<b>Protection</b>								
4.1	Overload Protection for Earth Resistance	250-V AC for 10 Sec	25						
4.2	Overload Protection for Earth Voltage	300 V AC for 1 minute	25						
4.3	Withstand Voltage	Bidder should specify	25						
4.4	Test Current	bidder should specify in mA	25						
<b>5</b>	<b>Display</b>								
5.1	Display	Digital /LCD	M						
5.2		Backlight	M						
5.3	Display Characteristics	4000 counts or better	M						
<b>6</b>	<b>Data Storage</b>								
6.1	Memory Capacity	100 data or more	20						
<b>7</b>	<b>General Features</b>								
7.1	Manufacturer	High quality renowned brand of repute. Replica or substandard brands are not	300						
7.2	Certification Compliance	CE & UKCA or Equivalent Standards	M						
7.3	Ground Noise	Noise detection	15						
		Noise rejection of upto 40 V	15						
7.4	The unit shall be hardy, compact and robust		20						
7.5	Auto shutdown for power saving		M						
7.6	Over Range indication		10						
7.7	Low Battery indication		10						
7.8	Open circuit indication		10						
<b>8</b>	<b>Auxiliary</b>								
8.1	Accessories	Batteries, simple test leads with alligator clips, standard test leads with alligator clips, earth spike, elastic strap, English manual	M						
8.2	Casing	Quality carrying bag	M						
<b>9</b>	<b>Power Arrangements</b>								
9.1	Battery Type	Preferably rechargeable alongwith charger	15						
9.2	Battery backup	Minimum backuptime of 6 hrs or better on continuous use	15						
<b>10</b>	<b>Environmental</b>								
10.1	Operating Temperature	(-10) to +55 $^{\circ}$ C	10						
10.2	Storage Temperature	(-20) to +70 $^{\circ}$ C	10						
10.3	Humidity (non condensing)	(5% to 85% )	10						
<b>TOTAL</b>			<b>860</b>						
Note	Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.								

## Technical Specifications of Switching Technician Tool Kit

Bidders Name											
Bidders Quoted Brand											
Manufacturing Country (Made & assembled in)											
S.No	Item	Description	Marks	Bidder's Statement			Obtained Marks				
				FC	PC	NC		Bidder's Quoted Item			
<b>General</b>											
1	Quality , Built and Manufacturer	Branded Toolkit ; Tools should be of the highly reputable brand specifically designed for Electrical & Telecom use ; High quality Durable, anti-Rust and durable branded Toolkit items are Mandatory.Tools handles must be of Fiberglass Handles	250								
<b>Tools</b>											
2	HackSaw	Hacksaw Frame with Blade	50								
3	Claw Hammer	Accessory tool ≥ 450g	50								
4	Steel wire cutter	≥8" Accessory tool	50								
5	Cable cutter	≥8" Accessory tool	50								
6	Utility Knife	≥8" Accessory tool	50								
7	Measuring Tape	Steel Tape for length Measurement ; Length ≥ 5 Meters	50								
8	Adjustable wrench	≥ 6 " Accessory tool /Preferably Insulated	50								
9	Wire Stripper	Standard AWG wire stripper	50								
10	Electrical Tape	Insulation Tape	50								
11	Side Cutter Plier	LV Insulated ; Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press	50								
12	Long Nose Plier	LV Insulated: Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press	50								
13	Combination Plier	LV Insulated: Medium Size ≥6 Inches having Sharp edges which shall cut drop/Jumper wire with one press	50								
14	Crimping Tool	High quality branded Crimping Tool RJ45/RJ-11	50								
15	Screw Drivers Set	LV Insulated : Flat Tip (-) 03 x Screw drivers and 03 x Star Tip (+) screws set (Total 06 x pieces) ; Screw Driver Fixed with Handle. Size of each Screwdriver must be ≥ 6 Inches.	M								
16	Electric Tester	Digital Electric tester for power detection	M								
17	Punching Tool	High quality punch down Tool	50								
18	Torch Light	Medium Size Torch Light	50								
19	Multimeter	High Precision Digital AC & DC Clamp on meter	M								
20	Packing /Casing	Branded high quality bag of fabric water-proof 600D polyester having adequate strength, shoulder strap , tools pockets and 10 Kg weight bearing capacity	50								
21	Testing Handset	CLI Testing Telephone HandSet	M								
22	Ethernet Network Tester	High quality renowned brand Network Tool	50								
23	Mini Wire Stripper	High quality CAT6 Cable Stripper	50								
<b>TOTAL MARKS</b>			<b>1150</b>								
<b>Technical Evaluation Criteera</b>		Bidder's Statement column must be properly filled to clearly state the available feature/compliance as fully complied (FC), partially complied (PC) or not complied (NC) or better feature is available, Tick the relevant box. The bidder must Fully comply to all Mandatory clauses (Denoted as "M" in Marks column) failing to do so will Technically disqualify the bidder, Moreover, the bidder should score 85 % or more of the total marks given in "Marks" column. The compliance of above specification must be supported by data sheet of product to certify the Compliance.									
		Quoting all Items alongwith Make & Model Numbers are Mandatory.									
		Non-Branded, non-complaint to the Technical Specifications and Tools without Make & Model will be Disqualified.									
		House Hold/General Purpose Tools are not required and will be Disqualified; High quality anti-Rust,Insulated and durable branded Toolkit items are Mandatory.									

**ANNEX-C: COMMERCIAL COMPLIANCE STATEMENT**

S.No.	Description	Complied	Not Complied	Partially complied	Remarks
1	INVITATION TO E-BIDS				
2	INTRODUCTION				
3	SCOPE OF WORK				
4	QUALIFICATION CRITERION OF BIDDERS				
5	COST OF TENDERING				
6	CLARIFICATIONS OF TENDER				
7	AMENDMENT OF TENDER DOCUMENTS				
8	SPECIFICATIONS				
9	PREPARATION OF BID				
10	PRICE				
11	BID SECURITY				
12	VALIDITY OF BIDS				
13	DEADLINE FOR SUBMISSION OF BID				
14	OPENING OF BID				
15	RESPONSIVENESS OF BIDDERS				
16	EVALUATION CRITERION FOR MOST ADVANTAGEOUS BIDDER				
17	CLARIFICATIONS / CORRECTIONS				
18	COMMERCIAL COMPLIANCE				
19	VARIATION ORDER				
20	AWARD CRITERIA & NTC's RIGHT				
21	NOTIFICATION OF AWARD & SIGNING OF CONTRACT AGREEMENT				
	<b>CONTRACT CONDITIONS</b>				
1	PERFORMANCE SECURITY				
	CONTRACT DURATION				
	ISSUANCE OF PURCHASE ORDERS				
2	CONTRACTORS RESPONSIBILITIES				
3	NTC RESPONSIBILITIES				
4	TRANSPORTATION / PACKING				
5	TIME FOR COMPLETION				
6	WARRANTY / SERVICES				
7	LIQUIDATED DAMAGES				
8	INSPECTION AND TESTING				
9	PAYMENT				
10	DEFAULT BY CONTRACTOR				
11	ARBITRATION AND APPLICABLE LAW				
12	FORCE MAJEURE				
13	TERMINATION FOR INSOLVENCY				
14	TERMINATION FOR CONVENIENCE				

15	ULTIMATE CONSIGNEE(S)				
16	DEBARMENT / BLACKLISTING OF FIRM				
17	INTEGRITY				
18	AMENDMENT IN CONTRACT				
19	DECLARATION OF BENEFICIAL OWNERS' INFORMATION				

## ANNEX-D: BID SECURITY FORMAT

Bank Guarantee No. -----  
Dated at Islamabad, the -----  
Amount -----  
Validity -----

To,

THE MANAGING DIRECTOR,  
NATIONAL TELECOMMUNICATION CORPORATION  
HEAD QUARTERS G-5/2  
ISLAMABAD.

Dear Sir,

WHEREAS M/s \_\_\_\_\_ (hereinafter called the Tenderer) have requested us through \_\_\_\_\_ Bank Ltd., to furnish Bid Security by way of Bank Guarantee in your favour in the sum of \_\_\_\_\_ (IN FIGURE) \_\_\_\_\_ (IN WORDS) against your Tender Notice No. \_\_\_\_\_ dated \_\_\_\_\_ for \_\_\_\_\_.

### WE HEREBY AGREE AND UNDERTAKE:

- i. To make unconditional payment \_\_\_\_\_ to you on demand without further question or reference to the Tenderer in case of withdrawal or modification of bid or any default or non-execution of the Contract or refusal to accept order by the Tenderer from the date of opening of bids until the expiry of the validity of their offer,
- ii. To keep this guarantee in full force from (date) \_\_\_\_\_ upto \_\_\_\_\_ (date) \_\_\_\_\_ the date until which the Tenderer's offer is valid.
- iii. To extend the period of guarantee if such extension be necessary beyond the date stated in para (ii) and as so desired by the tenderer.

Any claim arising out of this guarantee must be lodged with this Bank within the period the guarantee is valid and before the date of its expiry. After this date the guarantee will be considered null and void and should be returned to us.

Yours faithfully,

Name of the Bank: \_\_\_\_\_  
Authorized officer's Signature & Seal:

### ANNEX-F: PERFORMANCE BOND FORMAT

Bank Guarantee No. -----  
Date of Issue -----  
Valid upto -----  
Value (Rs.) -----

FROM: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TO,  
THE MANAGING DIRECTOR,  
NATIONAL TELECOMMUNICATION CORPORATION  
HEAD QUARTERS G-5/2  
ISLAMABAD.

SUBJECT: B/G AND DATE FOR \_\_\_\_\_ ON BEHALF OF \_\_\_\_\_ FOR  
DUE AND FAITHFUL PERFORMANCE ORDER NO. \_\_\_\_\_  
DATED \_\_\_\_\_.

Whereas M/s \_\_\_\_\_ (hereinafter called the Supplier) have requested us to furnish a Bank Guarantee in your favour in the sum \_\_\_\_\_ (IN WORDS) \_\_\_\_\_ as performance security against order No. \_\_\_\_\_ dated \_\_\_\_\_ to be concluded between the Supplier and National Telecommunication Corporation HQs G-5/2 Islamabad.

#### WE HEREBY AGREE:

- 1). To make an un-conditional payment of \_\_\_\_\_ to you on demand without any further question or reference to the Supplier upon failure of the Supplier to perform the Order for which you will be the sole judge.
- 2). To keep this guarantee valid in full force from this date upto the time of the due and faithful completion of the Order under reference (the schedule of implementation shall be as described in the Purchase order and its subsequent amendments) or till \_\_\_\_\_ whichever date is later. The faithful completion of the order by the Supplier will be intimated by the NTC.
- 3). To extend the period of the enforceability of this guarantee if such extension be necessary or desired by you of us. All claims thereunder must be submitted to the Bank of \_\_\_\_\_ on or before the expiry date mentioned in this guarantee are the date mentioned in its extensions issued from time to time, after which this guarantee will become null and void and should be returned to us. Irrespective of its return, we shall consider ourselves fully discharged from any obligation there under after the said expiry date.

Dated This Day of

Authorized Signature:

\_\_\_\_\_

& Seal of bank

**ANNEX-G: DECLARATION OF BENEFICIAL OWNER INFORMATION**

**Declaration of Ultimate Beneficial Owners Information for Public Procurement Contracts**

1. Name
2. Father's Name/Spouse's Name
3. CNIC/NICOP/Passport no.
4. Nationality
5. Residential address
6. Email address
7. Date on which shareholding, control or interest acquired in the business.
8. In case of indirect shareholding, control or interest being exercised through intermediary companies, entities or other legal persons or legal arrangements in the chain of ownership or control, following additional particulars to be provided:

1	2	3	4	5	6	7	8	9	10
Name	Legal form (Company/Limited Liability Partnership/Association of Persons/Single Member Company/ Partnership Firm/ Trust/Any other individual, body corporate (to be specified))	Date of incorporation/	Name of registering authority	Business Address	Country	Email address	Percentage of shareholding, control or interest of BO in the legal person or legal arrangement	Percentage of shareholding, control or interest of legal person or legal arrangement in the Company	Identity of Natural Person who ultimately owns or controls the legal person or arrangement

9. Information about the Board of Directors (details shall be provided regarding number of shares in the capital of the company as set opposite respective names).

1	2	3	4	5	6	7	8
Name and surname (In Block Letters)	CNIC No. (in case of foreigner, Passport No)	Father's/ Husband's Name in full	Current Nationality	Any other Nationality (ies)	Occupation	Residential address in full or the registered/ principal office address for a subscriber other than natural person	Number of shares taken by each subscriber (in figures and words)
			Total number of shares taken (in figures and words)				

10. Any other information incidental to or relevant to Beneficial Owner(s).

Name & signature

(Person authorized to issue notice on behalf of the company)