



**NATIONAL TELECOMMUNICATION  
CORPORATION**

**REGIONAL HEADQUARTERS F-5/1 ISLAMABAD  
DIRECTOR DEVELOPMENT (NORTH) NTC ISLAMABAD**

**e-Bidding documents**

**FOR**

**Deployment of GPON Network at Peshawar, Murree & Islamabad**

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

e-Tender Notice # **Dir Dev (North)/1567, 1574, 1577, 1580/OSP/ADV-07/2025-26**

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OSP/Tender/2025-26

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**SECTION-I: INSTRUCTIONS TO THE BIDDERS**

**1 INVITATION TO e-BIDS**

**e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OSP/ADV-07/2025-26**

National Telecommunication Corporation (NTC), invites electronic bids from the Suppliers/Contractors /Service providers, registered with Income Tax and Sales Tax Department having relevant experience for provision of following supplies, services and works:

Tender No.	Description of Service	Last Date & Time of Bid Submission	Bid Opening Date & Time
1.	Deployment of GPON Network at Peshawar, Murree & Islamabad	17 <sup>th</sup> March 2026 @ 11:00 Hrs.	17 <sup>th</sup> March 2026 @ 11:30 Hrs.

- e-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 (Development) North**  
**Room No. 06, Ground Floor, NTC Regional Headquarters, F-5/1, Islamabad**  
**Phone: 051-9209293 Fax: 051-9205526 [www.ntc.net.pk](http://www.ntc.net.pk)**

## 2 INTRODUCTION

National Telecommunication Corporation (NTC) was established on 1<sup>st</sup> 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 undertake Deployment of GPON Network at Peshawar, Murree & Islamabad as per Bill of Quantity BoQs Annexure-A, A1 to A7, B, B1, C, C1, C2, D, D1, D2, E, E1 and Drawings Annexure-G1 to G7, H1, I1 to I9, J1, to J11, K1.

Section#	Annexures#	Description of Work
<b>Section-I: Deployment of GPON Based Network at Peshawar - Annex-A (Summary)</b>		
Section-I	<b>Feeder Cable Network (Primary)</b>	
	Annex-A1	Laying of 144-Fiber Feeder Cable Network- (Feeder / Primary Network) - BOQ as Annex-A1 & Drawing as Annex-G1
	<b>Optical Distribution Networks (06 x ODNs)</b>	
	Annex-A2	FDH Abdul Wali Khan Multiplex (AWKM) ODN Network- BOQ as Annex-A2 & Drawing as Annex-G2
	Annex-A3	FDH Ministers Block ODN Network - BOQ as Annex-A3 & Drawing as Annex-G3
	Annex-A4	FDH Civil Secretariat ODN Network - BOQ as Annex-A4 & Drawing as Annex-G4
	Annex-A5	FDH SDU Building ODN Network - BOQ as Annex-A5 & Drawing as Annex-G5
	Annex-A6	FDH Peshawar High Court (PHC) ODN Network - BOQ as Annex-A6 & Drawing as Annex-G6
Annex-A7	FDH Fort Road ODN Network - BOQ as Annex-A7 & Drawing as Annex-G7	
<b>Section-II: Deployment of GPON Network at Murree - Annex-B (Summary)</b>		
Section-II	Annex-B1	Deployment of GPON Network for MAG Sites at Murree BOQ as Annex-B1 & Drawing as Annex-H1
<b>Section-III: Deployment of GPON Network at Red Zone, Islamabad-I - Annex-C (Summary)</b>		
Section-III	Annex-C1, C2,	Minister Enclave <i>Outdoor</i> - BOQ as Annex-C1 & Drawing as Annex-I1
		PM House <i>Indoor + Outdoor</i> - BOQ Annex-C1 & Drawing as Annex-I2
		ABCD-Block <i>Indoor</i> - BOQ as Annex-C1 & Drawing as Annex-I3
		PQRS-Block <i>Indoor</i> - BOQ as Annex-C1 & Drawing as Annex-I4
		TUV Block <i>Indoor</i> - BOQ as Annex-C1 & Drawing as Annex-I5
		F-Block BISP <i>Indoor</i> - BOQ as Annex-C1 & Drawing as Annex-I6
		K-Block <i>Indoor</i> - BOQ as Annex-C1 & Drawing as Annex-I7

		NTC RHQ F-5/1 <i>Indoor</i> - BOQ as <b>Annex-C1</b> & Drawing as <b>Annex-I8</b>
		Cabinet Division <i>Indoor</i> - BOQ as <b>Annex-C1</b> & Drawing as <b>Annex-I9</b>
<b>Section-IV: Deployment of GPON Network at Red Zone, Islamabad-II - Annex-D (Summary)</b>		
<b>Section-IV</b>	<b>Annex-D1, D2</b>	National Assembly <i>Indoor</i> - BOQ as <b>Annex-D1</b> & Drawing as <b>Annex-J1</b>
		Supreme Court <i>Indoor</i> - BOQ as <b>Annex-D1</b> & Drawing as <b>Annex-J2</b>
		PM Office <i>Indoor</i> - BOQ as <b>Annex-D1</b> & Drawing as <b>Annex-J3</b>
		FBR <i>Indoor</i> - BOQ as <b>Annex-D1</b> & Drawing as <b>Annex-J4</b>
		Election Commission <i>Outdoor</i> - BOQ <b>Annex-D1</b> & Drawing <b>Annex-I5</b>
		NADRA G-5 <i>Outdoor</i> - BOQ as <b>Annex-D1</b> & Drawing as <b>Annex-J6</b>
		Serena <i>Outdoor</i> - BOQ as <b>Annex-D1</b> & Drawing as <b>Annex-J7</b>
		PBC Radio Highcourt <i>Outdoor</i> - BOQ <b>Annex-D1</b> & Drawing <b>Annex-J8</b>
		NBP <i>Outdoor</i> - BOQ as <b>Annex-D1</b> & Drawing as <b>Annex-J9</b>
		NTC HQs G-5/2 <i>Indoor</i> - BOQ as <b>Annex-D1</b> & Drawing as <b>Annex-J10</b>
		PM Staff Offices <i>Outdoor</i> - BOQ as <b>Annex-D1</b> & Drawing as <b>Annex-J11</b>
<b>Section-V: Deployment of GPON Network at PM Staff Colony, Islamabad - Annex-E (Summary)</b>		
<b>Section-V</b>	<b>Annex-E1</b>	PM Staff Colony <i>Residential Outdoor</i> - BOQ as <b>Annex-E1</b> & Drawing as <b>Annex-K1</b>

- 3.2 Bidder may participate and quote in one or multiple sections, as deemed feasible. NTC will evaluate and award the work as **Section-wise basis**.
- 3.3 The incumbent bidder is bound to offer the prices of (BoQs) material and services as per **Annexure-A, A1 to A7, B, B1, C, C1, C2, D, D1, D2, E, E1** as per NTC & PTCL technical specification / standards.

Following items shall be required for the execution of the work, but not limited to:

- a. Instruction to bidders.
- b. General/Special condition of Contract.
- c. Specifications.
- d. Drawing/plan
- e. Contract Form
- f. Format for Bid security, Bank Guarantee, Performance bonds
- g. Price schedule for Store items
- h. Price schedule for Services.

#### **4 QUALIFICATION CRITERION OF BIDDERS**

Invitation to submission of sealed bids is open to all firms in Pakistan who meet following conditions.

- 4.1 Technical and Financial e-bids will be opened simultaneously. The work will be awarded to financially lowest and technically qualified firm only. The technical evaluation will be made as per following criteria: -

S#	Description	Weightage	Documents to be provided
i	Registration with PEC with specialization code EE07 (Telecommunication Installation) or EE08 (External Telecommunication Works)	Mandatory	The valid registration as per relevant financial category * to be attached with bids
ii	Registration with Tax authorities and be active Tax payer	Mandatory	The status of firm for Income Tax must be "active" and for Sales Tax as "operative"
iii	The firm must have at-least 03 x Years relevant experience of minimum 03 x similar works in Pakistan. The bidder must provide the job completion certificates along with its bid.	Mandatory	Copies of Work orders or Completion certificates to be attached with bids.
iv	The firm is not black listed by any Government / Semi Government Organization of Pakistan	Mandatory	Duly notarized <b>Affidavit</b> on Stamp Paper be attached with bid
v	The firm is not involved in litigation with any Government Organization	Mandatory	Duly notarized <b>Affidavit</b> on Stamp Paper be attached with bid
vi	The firm does not have any linkage with India and/or Israel regarding ownership, sponsoring, IT support and operations	Mandatory	Duly notarized <b>Affidavit</b> on Stamp Paper be attached with bid
vii	The firm must be operated by Pakistani National(s)	Mandatory	Duly notarized <b>Affidavit</b> on stamp paper be attached with bid enunciating the details of Names, CNICs of the legal owner(s) and concerned officers / officials.
viii	The bidder must fully comply to the tender clauses as per compliance sheet Annex-L	Mandatory	Duly filled commercial compliance sheet signed with company's seal to be attached with the bid

- \* The work will be awarded as per relevant category of PEC i.e. C-6 or above with reference to the quoted price by bidders. The firm must be registered in categories as per following:

Sr#	Pakistan Engineering Council (PEC) License Financial Limits	
1.	Section-I (GPON Peshawar)	C-5 category or above
2.	Section-II (GPON Murree)	C-6 category or above
3.	Section-III (GPON Red Zone, Islamabad-I)	C-5 category or above
4.	Section-IV (GPON Red Zone, Islamabad-II)	C-5 category or above
5.	Section-V (GPON PM Staff Colony)	C-6 category or above

- Non-compliance to the mandatory clauses will lead to disqualification.

**Note:** Bidder must submit documentary proof. Fulfillment of all conditions of "Qualification Criterion" is mandatory for a successful bidder to be Technically qualified along with other mandatory conditions set in tender documents

4.2 All goods, materials and store items including the spares (if any) shall have make and origin of any country fulfilling the specifications, except Israel and India. The bidder will provide the relevant documents to confirm the make and manufacture. (if any item during course of execution may not confirm about its make than bidder shall provide an affidavit in this regard).

**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:

<b>Divisional Engineer (Development) North</b>	<b>Director Development (North)</b>
Tel: 051-9210182, 051-9208999	Tel: 051-9209293, Fax: 051-9205526
Email: sohail.khan@ntc.org.pk Email: irfan.rafi@ntc.org.pk	Email: zeeshan.haider@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 PREPARATION OF BID**

8.1 Bid should be prepared in accordance with “*Single Stage - Single Envelope*” procedure.

- a. The envelope shall clearly mention the name of bidder & necessary information in bold & legible letters to avoid any confusion.
- b. Bid documents and all correspondence will be in English language.
- c. 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.
- d. Bidder shall provide the original **hardcopy** of **documentary evidence** as per Clause-4 (Qualification criteria), **financial bid BOQ** and **bid security** as per Clause-10 at the time of bid opening.

8.2 Following documents shall be submitted with the proposal:

- a. Duly filled Bill of Quantities as per **Annexure-A, A1 to A7, B, B1, C, C1, C2, D, D1, D2, E, E1.**
- b. Duly filled commercial compliance statement as per **Annex-L.**



- c. Technical brochures of quoted material along with all supporting technical documents (if any).
- d. Valid Bid security as per Clause-10.
- e. Documentary evidence and Certificates as per qualification criteria as per Clause-4.
- f. Company Profile

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

**9 PRICE**

- 9.1 Prices should be quoted in Pak Rupees on DDP basis as per **Annexure-A, A1 to A7, B, B1, C, C1, C2, D, D1, D2, E, E1.**
- 9.2 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.
- 9.3 The quoted price should include all the applicable government taxes, custom duties, in-land transportation, & any other applicable charges.
- 9.4 The prices should be valid for duration of the bid validity.
- 9.5 It is mandatory that the rates / prices shall be entered against each item in the Bill of Quantities (BOQs) as per **Annexure-A, A1 to A7, B, B1, C, C1, C2, D, D1, D2, E, E1.**
- 9.6 The bidder shall be deemed to have obtained all information as to all the requirements thereto which may affect the bid price.
- 9.7 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 tender opening shall be applied.

**10 BID SECURITY**

- 10.1 The bidder shall furnish tender security amounting to amounts as mentioned in the table below in the form of Pay Order or Deposit at Call or a Bank guarantee as per **Annex-M** issued by a scheduled bank of Pakistan in favor of **Director Development (North) NTC Islamabad** valid for a period **120 days** from the date of tender opening:

Sr#	Description	Bid Security Amount
1.	<b>Section-I:</b> Deployment of GPON Based Network at Peshawar Cantt	<b>Rs. 1,000,000/-</b>
2.	<b>Section-II:</b> Deployment of GPON Network at Murree	<b>Rs. 120,000/-</b>
3.	<b>Section-III:</b> Deployment of GPON Network at Red Zone, Islamabad-I	<b>Rs. 1,100,000/-</b>
4.	<b>Section-IV:</b> Deployment of GPON Network at Red Zone, Islamabad-II	<b>Rs. 900,000/-</b>
5.	<b>Section-V:</b> Deployment of GPON Network at PM Staff Colony, Islamabad	<b>Rs. 260,000/-</b>
	<b>Total Amount (Rs.)</b>	<b>Rs. 3,380,000/-</b>

- 10.2 The Original Bid Security shall be delivered in person or sent by the registered mail which should reach the office of Director Development North, Room # 06, Ground Floor, NTC Regional HQ, F-5/1 on or before **11:00 Hours on 17<sup>th</sup> March 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
- 10.3 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.
- 10.4 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.
- 10.5 The tender security of the successful bidder will be returned when the bidder has furnished the required Performance Security and signed contract agreement.
- 10.6 All correspondence regarding release/extension of bid security shall be made with Director Development (North) NTC Islamabad.
- 10.7 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.

## **11 VALIDITY OF BIDS**

- 11.1 Bid shall remain valid for a period of **120 days** from the date of tender opening.
- 11.2 The NTC shall ordinarily be under an obligation to process and evaluate the bid within the stipulated bid validity period. However, under exceptional circumstances and for reason to be recorded in writing, if an extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period. Such extension shall be for not more than the period equal to the period of the original bid validity.
- 11.3 Bidders who agree to extension of their bid validity period shall also extend the validity of the bid bond or security for the extended period of the bid validity and agree to the NTC request for extension of bid validity period shall not be permitted to change the substance of their bids; and do not agree to an extension of the bid validity period shall be allowed to withdraw their bids without forfeiture of their bid bonds or securities.

## **12 DEADLINE FOR SUBMISSION OF BID**

- 12.1 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 11:00 Hours on **17<sup>th</sup> March 2026**.
- 12.2 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.
- 12.3 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.

### **13 OPENING OF BID**

- 13.1 The NTC tender committee will download the bids at 11:30 Hours on **17<sup>th</sup> March 2026** in the presence of bidders' representatives who choose to attend, at office of Director Development North, Room # 06, Ground Floor, NTC Regional HQ, F-5/1.
- 13.2 NTC reserves the right to reject any one or all bids prior acceptance of a bid / proposal.
- 13.3 NTC reserves the right to reject any one or all bids as per Public Procurement Rules, 2004 33(1).

### **14 RESPONSIVENESS OF BIDDERS**

- 14.1 The bid is valid till required period.
- 14.2 The bid prices are firm during its validity and inclusive of all taxes, duties & freight charges etc.
- 14.3 The bidder has furnished valid tender security.
- 14.4 The bidder is qualified to tender.
- 14.5 The bid is generally in order.
- 14.6 The bidder promptly responds to queries sought by NTC.
- 14.7 The bidder has submitted requisite samples of the quoted items and provided technical compliance to the specifications.
- 14.8 The bidder has complied to the tender clauses.

*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.*

### **15 EVALUATION CRITERION FOR MOST ADVANTAGEOUS BIDDER**

- 15.1 The tender evaluation committee will evaluate and compare only the bids previously determined to be substantially responsive.
- 15.2 Evaluation will be carried out on **Qualification, Quality and Cost** basis.
- 15.3 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:

#### **15.4 Qualification Evaluation Criteria:**

In first step, the received bids shall be evaluated on qualification criteria mentioned above. 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.**

#### **15.5 Quality Evaluation Criteria:**

It will be examined in detail whether the offered/quoted solution by the bidder complies the Technical Specifications Compliance Statement as enunciated. For this purpose, the bidder's data submitted with the bid will be compared with terms and conditions set forth in the tender documents; supported documents & clarification will be sought in case compliance is not evident from the literature / documents. **Any bid which does not fully comply the Technical Specifications Compliance will be declared technically disqualified and will be rejected by NTC.**

15.6 **Cost Evaluation Criteria:**

Cost evaluation of the bids shall be carried out by comparison of bids evaluated prices as per bill of quantities **Annexure-A, A1, A2, A3, A4, A5, A6, A7, B, B1, C, C1, C2, D, D1, D2, E, E1**. The bidder with lowest financial price will be declared as **highest ranked** and so on.

15.7 Bidder may participate and quote in one **or** multiple sections, as deemed feasible. NTC will evaluate and award the work as **Section-wise basis**.

15.8 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.

15.9 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.

**16 CLARIFICATIONS / CORRECTIONS OF BID**

16.1 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.

16.2 During evaluation of bids, any arithmetical errors shall be rectified in the following manner:

a. **Discrepancy between Unit Rate and Total Price:**

If there is a discrepancy between the unit rate and the total price (obtained by multiplying the unit rate by the quantity), the **unit rate shall prevail**, and the total price shall be corrected accordingly.

b. **Discrepancy between Amount in Words and Figures:**

If there is a discrepancy between the price stated in figures and the price stated in words, the **amount in words shall prevail**.

c. **Errors in Addition or Totaling:**

Any error in summation or addition of subtotals and totals shall be **corrected accordingly**.

16.3 The corrected bid price shall be binding on the bidder. If the bidder does not accept the corrected price, the bid shall be rejected, and the bid security may be forfeited in accordance with the tender conditions.

**17 COMMERCIAL COMPLIANCE STATEMENT**

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

**18 ENGINEERING SURVEY**

18.1 All prospective bidders may carry out initial physical survey of sites at their own expenses for clarity purposes and for proper preparation of bid. However, after award of contract, the contractor shall be bound to complete the work as per provision of the contract with in the contractual cost.

18.2 For survey, prospective bidders may coordinate with DE Development (North), NTC Islamabad (Tel: 051-9210182, Fax 051-9205526, e-mail: sohail.khan@ntc.org.pk) for coordination and assistance on sites.

**19 VARIATION ORDER**

19.1 NTC reserves the right to place variation order (increase or decrease in the quantities of BoQs at **Annexure-A, A1 to A7, B, B1, C, C1, C2, D, D1, D2, E, E1** The bidder shall be bound to accept the variation order by NTC. Also, NTC reserves the right to increase, decrease, drop BoQ items / site solely on its discretion at the time of Contract.

**20 AWARD CRITERIA & NTC'S RIGHT**

20.1 The contract will be awarded to **Most Advantageous Bidder** on “**Section-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.

**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.

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 the NTC a performance security equivalent amounting to **10%** of the total Contractual cost in the shape of Pay order **or** CDR **or** bank guarantee valid for a period of 12 months (as per format attached as **Annex-N**) after signing of contract.
- 1.2 The bank guarantee of performance security shall be further extended if the delivery is delayed 'or' if discrepancies observed in one year from the date of "Section-wise" Provisional Acceptance Certificate period are not rectified / removed by the contractor. Furthermore, the contractor shall extend the bank guarantee (if required) to cover the warranty period.
- 1.3 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.
- 1.4 All the correspondence regarding release of performance guarantee shall be made with Director Dev (North) NTC Islamabad after deducting any sums which may become due from contractor in terms of provision of contract.
- 1.5 Performance security against the contract shall be released upon successful completion of warranty period & issuance of Final Acceptance Certificate (FAC).

### **2 CONTRACTORS RESPONSIBILITIES**

- 2.1 The contractor shall complete the work in accordance with the contract BoQ, Specs, Plan and responsibility matrix within the agreed completion time.
- 2.2 The contract shall, in accordance with the contract, with due care and diligence, complete the works and test and commission the network/works and carry out the works within the stipulated "Time for Completion".
- 2.3 The contractor shall commence the work immediately after signing of agreement and complete the work in accordance with the contract BoQ, Specs, Plan and responsibility matrix within the agreed completion time
- 2.4 The contractor shall ensure international packing and labeling for safe transportation and identification of store.
- 2.5 The contract shall not subcontract the whole of the works. The contractor shall not subcontract any part of the works without consent of NTC.

### **3 TRANSPORTATION / PACKING**

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

### **4 NTC RESPONSIBILITIES**

- 4.1 Director Development (North) shall coordinate and facilitate the contractor for smooth execution of work in accordance with this contract:
- 4.2 Director Development (North) shall timely review and verify deliverables provided by the Contractor and issue acceptance certificate(s) upon satisfactory compliance with the agreed scope of work.

4.3 NTC shall be responsible to process invoices for payment.

**5 TIME FOR COMPLETION**

5.1 The contractor shall complete “Section-wise” work within:

Sr#	Description	Completion Time
1.	<b>Section-I:</b> Deployment of GPON Based Network at Peshawar Cantt	<b>18 x weeks</b>
2.	<b>Section-II:</b> Deployment of GPON Network at Murree	<b>12 x weeks</b>
3.	<b>Section-III:</b> Deployment of GPON Network at Red Zone Area, Islamabad-I	<b>18 x weeks</b>
4.	<b>Section-IV:</b> Deployment of GPON Network at Red Zone, Islamabad-II	<b>18 x weeks</b>
5.	<b>Section-V:</b> Deployment of GPON Network at PM Staff Colony, Islamabad	<b>12 x weeks</b>

starting from the date of signing of contract *or* issuance of work order *or* complete store provision by NTC (whichever is later). However, incumbent bidder must also specify the timelines in which they can execute the work. The timeline can be finalized by mutual consent of both parties.

5.2 Date of successful completion shall be the complete GPON network deployment & commissioning date, which shall be considered as the date when network successfully commissioned for usage on NTC live system by the contractor.

**6 WARRANTY / SERVICES**

6.1 The contractor will warrant that the material/item supplied under the contract are new, unused, and incorporates all recent improvements in design and materials and of good quality.

6.2 The contractor shall also furnish a warranty certificate on judicial paper with undertaking that the store / software provided / installed are genuine that is not stolen, from old stock or smuggled.

6.3 Standard warranty shall remain valid for 01 x Year after issuance of “Section-wise” Provisional Acceptance Certificate (PAC) by Project Director / ultimate consignee(s) certifying the successful completion of work.

6.4 The contractor shall provide 24x7 support to resolve the fault occurrence/ disruption in service during the period of warranty.

6.5 NTC shall promptly notify the supplier in writing of any claims arising under this warranty and the supplier will resolve/ repair / fix the defective items/Software within reasonable time without any cost to NTC.

6.6 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.



- 6.7 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 warranty period from the acceptance of the corrected defect.
- 6.8 The contractor shall maintain pool of spares for the duration of complete warranty for immediate replacement of faulty component(s).
- 6.9 If no discrepancy is reported within the warranty period, then the performance security submitted against the contract shall be released by Director Development (North).

## **7 LIQUIDATED DAMAGES**

- 7.1 If the Contractor fails to complete the work within the time prescribed in Clause-5 (*Time for completion*), and such delay is attributable to the Contractor and not caused by a Force Majeure event, the Contractor shall pay to NTC, as liquidated damages (LD), an amount equivalent to 0.5% of the value of the delayed work (or the completed cost if the completed component is usable in all respects) for each week of delay or part thereof, subject to a maximum of 10% of the value of the delayed work or completed cost. The LD amount shall be recovered from the Contractor at the time of issuance of the "Section-wise" Provisional Acceptance Certificate (PAC).
- 7.2 In the event of Force Majeure, the delivery period may be extended, and the LD charges may be waived by NTC, provided that the Contractor submits a written request/intimation along with satisfactory evidence during the execution period.
- 7.3 For the purposes of calculating LD under Clause 7.1: A "week" shall mean 7 consecutive days. The calculation shall apply to all weeks of delay, whether the first or subsequent weeks. If, in any given week of the delay period, the delay exceeds 3 days, that week shall be counted as a full week for LD purposes. If the delay in any week is 3 days or less, no LD shall apply for that week.
- 7.4 The parties agree that the accumulated total liquidated damages for delay shall carry a maximum limit of upto 10% of the contract value.
- 7.5 If the delay is due to NTC, and such delay is acknowledged by NTC, no LD shall be charged for the corresponding period. NTC reserves the right, at its discretion, to impose or waive LD charges based on the Contractor's performance and the circumstances of the delay.

## **8 PROVISIONAL ACCEPTANCE CERTIFICATE**

- 8.1 Upon satisfactory completion of project in all aspect, the contractor will inform in-writing to Project Director "Director Development North" to detail a team for Acceptance Test.
- 8.2 Director Development North being PD will detail a PAT team for Provisional Acceptance Test and a team for final inspection. The team(s) shall confirm the quantities/ functioning of network and will mention discrepancies, if any. Director Development North will issue the "Section-wise" PAC on the basis of successful conduct of "Section-wise" PAT/ Final inspection including verification of contract BOQ as per site requirement.
- 8.3 In case "Section-wise" Provisional Acceptance Certificate is not issued within Fifteen (15) days, Director Development North shall inform in-writing of the specific reason(s) for the delay within 05 days after receipt of request from the Contractors.

- 8.4 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 when he is informed about the discrepancy.
- 8.5 Shortage of any quantity will also be pointed out and will be intimated to the contractor. If any discrepancies are observed after issuance of "Section-wise" PAC / NDC then Director Development (North) NTC will notify to the contractor for removal of the same. The contractor will be bound to remove the discrepancy within reasonable time period but not later than 14 x days.
- 8.6 NTC reserves the rights to reject any item even after issuance of "Section-wise" Provisional Acceptance Certificate if it does not conform to the specifications by reason of some defect, latent or otherwise of material which was not discoverable by a reasonable examination.
- 8.7 The "Section-wise" Provisional Acceptance Certificate (PAC) will be valid for warranty period of 01 year.

## **9 PAYMENT**

- 9.1 Hundred percent (100%) payment of contract value will be made upon successful delivery, installation, commissioning and testing of network and completion of work, which will be notified by the issuance of "Section-wise" Provisional Acceptance Certificate by Project Director.
- 9.2 In case NTC deemed necessary then NTC may make running payments to the contractor based on the actual work progress as follows:
- In case NTC has to provide the major portion of stores, running payments upto 60% will be made, based on the progress of actual work / store consumption.
  - In case NTC has not to provide stores, running payments upto 70% will be made, based on the actual work progress.
- 9.3 The running payment, as per clause 8.2 above, shall be made after necessary testing/inspection, as deemed necessary by Director Development (North) NTC Islamabad.
- 9.4 The execution of work by contractor shall not be conditional to payment of running bills by NTC.
- 9.5 The balance payment shall be made to the contractor after issuance of "Section-wise" PAC Director Development (North) NTC Islamabad.
- 9.6 The Contractor will submit the commercial invoice & sales tax invoice to Director Development (North), along with duly verified delivery challan by 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.
- 9.7 All the payments will be made by Director Development (North), NTC Islamabad.
- 9.8 Payments shall only be released if the contractor is found to be "Active Tax Payer" in Federal Board of Revenue (FBR) Pakistan database at the time of payment. Contractor will provide the e-return of each invoice after payment.
- 9.9 Taxes will be deducted as per government rules at the time of payment(s) under the term for execution of contract.

- 9.10 Payments shall only be released as per NTC / Govt payment procedure.
- 9.11 Amount of GST and Services Tax (where applicable) will be released after submission of its deposit proof /FBR Annex-C by Contractor.
- 9.12 All the payments shall be made through crossed cheque in Pak Rupees.

## **10 FINAL ACCEPTANCE CERTIFICATE**

- 10.1 The contractor may notify the NTC concerned officer at-least 15 days before the expiry of extended warranty for the issuance of final acceptance certificate (FAC).
- 10.2 Upon such notification from contractor, the Project Director NTC will issue Final Acceptance Certificate in favor of contractor subject to satisfactory completion of warranty period as per requirement of contract.
- 10.3 Alternatively, the NTC concerned officer will notify the contractor for the discrepancies that still remain un-resolved and contractor will rectify the discrepancies. Performance security against contract shall be released upon after issuance of FAC.
- 10.4 On issuance of all Final Acceptance Certificate (s), contractor shall request for release of bank guarantee or CDR submitted as performance security

## **11 REPEAT ORDER**

- 11.1 Repeat Order may be placed in accordance with Public Procurement Rules 2004.

## **12 DEFAULT BY CONTRACTOR**

- 12.1 If the contractor fails to provide the Store/ Material 'or' complete the work, 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**

15.1 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**

16.1 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 DEBARMENT / BLACKLISTING OF FIRM**

- 17.1 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.
- 17.2 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.
- 17.3 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.

## **18 INTEGRITY**

- 18.1 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.
- 18.2 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.

18.3 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.

**19 PROJECT DIRECTOR/ ULTIMATE CONSINGEE**

- Director Development (North) NTC Islamabad

**20 LOCAL TRAINING**

20.1 Comprehensive hands-on training shall be provided by the contractor for at least Five (05) participants regarding operation, monitoring, and basic troubleshooting of the deployed solution, if required by NTC.

**21 DECLARATION OF BENEFICIAL OWNERS' INFORMATION**

21.1 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-O**.

**22 BIDDER'S DETAILS:**

**Name of Authorized Representative (with CNIC):**

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**Organization's Name and Address:**

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**Contact Number:**

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**SECTION-III: IMPORTANT CONDITIONS OF CONTRACT**

**1 DEFINITIONS & INTERPRETATION**

- 1.1 'EMPLOYER' means the National Telecommunication Corporation (NTC) and includes the NTC, representative or successors. The words 'EMPLOYER' and NTC are synonymous throughout the contract.
- 1.2 'CONTRACTOR' means the person or persons/ firm or company whose Tender (as hereinafter defined) has been accepted by the NTC and includes the contractor's personal representative, successors and permitted assignees.
- 1.3 'ENGINEER' means the Director Development North of the National Telecommunication Corporation.
- 1.4 'Representative' of the Engineer' means any Divisional Engineer / Assistant Divisional Engineer / Assistant Engineer and/or any other duly authorized Agent or Agents appointed from time to time by the Director Development North NTC Islamabad to perform the duties set forth in following clause 2 thereof.
- 1.5 'WORKS' means the works to be executed in accordance with the Contract.
- 1.6 'CONTRACT' means the agreement between NTC and the Contractor for execution of the works incorporating the Conditions, Specifications, Drawings, priced Bill of Quantities, Schedule of Rates and prices (if any), Tender, Letter of Acceptance and such other documents expressly incorporated by the letter of Acceptance.
- 1.7 'CONTRACT PRICE' means the sum named in Tender subject to such additions thereof or deductions there from as may be made under the provisions hereafter contained.
- 1.8 'CONSTRUCTIONAL PLANT' means all appliances or things of what-so ever nature required in or about the execution, completion or maintenance of the works or Temporary works (as thereinafter defined) but does not include materials or other things intended to form or forming part of the permanent work.
- 1.9 'TEMPORARY WORKS' means all temporary works of every kind required in or about the execution, completion or maintenance of the works.
- 1.10 'DRAWINGS' means the drawings referred to in the specifications and any modifications of such other drawing approved in writing by the Engineer and such other drawings as may from time to time be furnished or approved in writing by Engineer.
- 1.11 'SITE' means the lands and other places on, under, in or through which the works are to be executed or carried out and any other lands or places provided by the NTC for the purposes of the contract.
- 1.12 'APPROVED' means approved in writing including subsequent written confirmation of previous verbal approval and 'approval' means approved in writing including as aforesaid.
- 1.13 'TENDER' means the "Offer Tendered" by Contractor for the works governed by the contract.
- 1.14 'Specifications' means the specifications of the works included in the contract and any modification (s) made as per contract.

**2 DIRECTOR DEVELOPMENT NORTH AND REPRESENTATIVE OF THE DIRECTOR DEVELOPMENT NORTH NTC ISLAMABAD**

- 2.1 Director Development North NTC Islamabad being Project Director (PD) would execute the work(s) as per contract. The duties of Director Development North NTC Islamabad or his Representative is to watch and supervise the works and to test and examine any material to be used or workmanship employed in connection with the works. He shall have no authority to relieve the Contractor of any of his duties or obligations under the contract except as expressly provided hereunder or elsewhere in the contract or order any work involving delay or any extra payment by the NTC and not to make any variation in the works.

The Director Development North NTC Islamabad may from time-to-time delegate to his Representative in writing any of the powers and authorities vested in him and shall furnish to the Contractor a copy of all such written delegation of powers and authorities. Any written instructions or approval given by his Representative to the Contractor within the terms of such delegation (but not otherwise) shall bind the Contractor and the NTC as though it had been given by the Director Development North NTC Islamabad, provided always as follows:

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- (a) Failure of the Representative of the Director Development North NTC Islamabad to disapprove any work or materials shall not prejudice the power of the Director Development North NTC Islamabad thereafter to disapprove such work or material and to order the pulling down, removal or breaking up thereof.
- (b) If the contractor shall be dissatisfied by reason of any decision of the Representative, he shall be entitled to refer the matter to the Director Development North NTC Islamabad in writing who shall thereupon confirm, reverse or vary such decision.
- 2.2 Approval, reviews and inspection of the Director Development North NTC Islamabad /his Representative /NTC of any part of the work does not relieve the contractor from his sole responsibility of execution of the remaining works or testing and commissioning of the works as per contract. However, the contractor shall be compensated if any loss/damage occurred due to the decision of Director Development North NTC Islamabad.
- 2.3 The Contractor shall execute, complete and maintain the works strictly in accordance with the Contract to the satisfaction of the Director Development North NTC Islamabad and shall comply with and adhere strictly to the instructions and directions of the Director Development North NTC Islamabad/or, on any matter (whether mentioned in the Contract or not) touching or concerning the works. The Contractor shall take instructions and directions only from the Director Development North NTC Islamabad / or (subject to the limitations referred in clause 2 hereof) from his representative.

**3 DRAWING AND TEST DOCUMENTS**

- 3.1 The Director Development North NTC Islamabad shall furnish one copy of the approved plan/drawing to the contractor immediately after signing of the contract agreement and the Director Development North NTC Islamabad shall have full power and authority to supply the contractor from time to time during the progress of the works such further drawings and instructions as shall be necessary for the purpose of, proper and adequate execution and maintenance of the works and the contractor shall carry out and be bound by the same.
- 3.2 The contractor shall submit drawing/plan/ test protocol (As Built, Schematic, Jointing, Splicing Diagram or any such documents) to Director Development North NTC Islamabad /his Representative and the Director Development North NTC Islamabad shall signify his approval/or disapproval as case may be. Approved drawing shall be signed by Director

Development North NTC Islamabad / his Representative and the contractor shall provide the five extra copies. Any disapproved drawing shall be modified to meet the requirement of the Director Development North NTC Islamabad and should be resubmitted for the approval of the Director Development North NTC Islamabad.

- 3.3 Unless otherwise agreed, the works shall not be considered completed for the purpose of taking over until such drawing/ test results have not been provided to NTC and approved by NTC/ Director Development North NTC Islamabad.

#### **4 CONTRACT AGREEMENT**

The Contractor shall, within seven days of initiation of letter of Acceptance, enter into and execute a contract agreement (to be prepared at the cost of the Contractor) in the form prescribed with such modifications and with attachments as may be necessary and as required by the Director Development North NTC Islamabad.

#### **5 CONTRACTOR OBLIGATION**

- 5.1 The contractor shall commence the work on the specified date as per contract and shall proceed with due expedition and without delay.

- 5.2 The contract shall, in accordance with the contract, with due care and diligence, complete the works and test and commission the network/works and carry out the works within the stipulated "Time for Completion". The contractor shall provide all necessary Contractor store / spares, superintendence, labors and materials necessary for accomplishment and testing of the work as per contract.

- 5.3 The contractor shall set out the works in relation to approved drawing/plan/alignment and specifications given by Director Development North NTC Islamabad in writing. If during the execution, an error appears in position/alignment the contractor shall rectify the error and he shall bear the cost except error results from incorrect information from NTC/Director Development North NTC Islamabad in which case the cost shall with benefit shall be borne by NTC. The checking of any setting out by Director Development North NTC Islamabad/his Representative shall not relieve the Contractor of his responsibility for accuracy thereof.

#### **6 SITE DATA**

The Contractor shall inspect and examine the site and its surroundings and shall satisfy himself before submitting the Tender as to the nature of ground and sub-soil, the form and nature of the site, the quantities and nature of the work and materials necessary for the completion of the works and the means of access to the site, the accommodation he may require and in general shall himself and obtain all necessary information as to risk contingencies and other circumstances which may influence or affect his Tender .

#### **7 SUFFICIENCY OF CONTRACT PRICE**

- 7.1 The Contractor shall be deemed to have satisfied himself before tendering as of the correctness and sufficiency of his Tender for the work and of the rates and prices stated in the priced Bill of Quantities and the Schedule of Rates (if any) which rates and prices shall except in so far otherwise provided in the Contract cover all his obligations of the Contract and all matters and things necessary for the proper completion and maintenance of the works.

- 7.2 The Contractor shall be deemed to have satisfied himself on and taken account of in his tender:
- a. All the circumstances and conditions affecting the Contract Prices.

- b. The possibility of carrying out the works as per contract.
  - c. General circumstances at the site.
  - d. The general labor position at the site.
- 7.3 The contractor from time to time during the progress of the work shall clear away and remove all surplus material and rubbish from the site. On completion of the work the contractor shall leave the whole site clean in workman like conditions up to the satisfaction of Director Development North NTC Islamabad.
- 7.4 The contractor shall during execution of the work display proper signboards showing the contractor and NTC names and the works.
- 7.5 Facilities to inspect the Works shall at all times be afforded by the Contractor by NTC.

#### **8 PROGRAM BE FURNISHED**

- 8.1 As soon as practicable after the acceptance of his Tender the Contractor shall if required submit to the Engineer, for his approval, a program showing the order of activities, procedures and method in which he proposes to carry out the works and shall whenever required by the Director Development North NTC Islamabad or his Representative, furnish in writing for his information particulars of the Contractor's arrangements for carrying out the works and that of the constructional plant and temporary works which the Contractor intends to supply, use or construct as the case may be. The submission to and approval by the Director Development North NTC Islamabad or his representative, of such program or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract.
- 8.2 The Contractor shall submit to the Director Development North NTC Islamabad the weekly progress showing the works accomplished in the last two weeks (with color photo graphs of the work) and execution schedule for the month, in the first week of each month.

#### **9 CONTRACTOR'S SUPERVISOR AT SITE**

- 9.1 The contractor shall employ one or more competent and skilled Representative to superintend the works on site and their names shall be communicated to Director Development North NTC Islamabad before commencement of works on the site. Any instruction or notice which Director Development North NTC Islamabad gives to such Representative(s) shall be deemed to have been given to the Contractor. The contractor's Representative shall be approved by Director Development North NTC Islamabad (which approval may be at any time withdrawn) and who shall be present at the site at all the working hours.
- 9.2 The Contractor on the written instruction of Director Development North NTC Islamabad shall remove from the works any person (s) employed by him in the execution of works who misconduct himself or is incompetent or negligent.

#### **10 WATCHING, LIGHT AND SAFETY PRECAUTIONS**

- 10.1 The contractor shall in connection with works provide and maintain at his own cost, all lights, guards, fencing and watch and ward when and where necessary or required by the Director Development North NTC Islamabad or his Representative or for the protection of the works or for the safety and convenience of the public or others.
- 10.2 In order to provide for the safety, health and welfare of persons and for prevention of damage of any kind, all operations for the purposes of or in connection with the contract shall be carried out in compliance with the safety requirement of Government of Pakistan with such

modifications hereto as NTC/Director Development North NTC Islamabad may direct such measures reasonably necessary for such purpose.

- 10.3 The contractor shall ensure the following before the labor is deployed for work / excavation. The work shall be got executed through skilled persons sufficiently trained in this special type of work.
- (i) Arrange for safety & traffic sign boards as per site conditions.
  - (ii) Marking of trench line as per plan / route drawing.
  - (iii) Avoid disturbing the other services however arrange suitable diversion if required.
  - (iv) Arrangement of immediate removal of executed soil to ensure smooth passage / traffic etc.
  - (v) Straight & leveled trench be prepared as per approved dimensions by removing all kind of gravel / stones.

## **11 COMPLIANCE WITH STATUTES, REGULATION & LAW**

- 11.1 The contractor shall in all matters arising in the performance of the contract, comply in all respects with, give all notices and pay all fees required by the provisions of any national or state statute, ordinance or other Law or any regulation or any bye-law of any duly constituted authority.
- 11.2 The contractor shall comply with the laws of Islamic Republic of Pakistan.

## **12 CARE OF WORK**

- 12.1 From the commencement to the completion of the works the contractor shall take full responsibility for the care thereof and of all temporary works and in case any damage, loss or injury shall happen to the works or to any part thereof of all any temporary works from any cause whatsoever (save and except the accepted risks as defined in sub-clause (12.2)) shall at his own cost repair and make good the same so that at completion the works shall be in good order and condition and in conformity in every respect with the requirements of the contract and the instructions of the Director Development North NTC Islamabad. The contractor shall also be liable for any damage to the works occasioned by him in the course of any operation carried out by him for the purpose of complying with his obligation under clause hereof.
- 12.2 The 'accepted risks' are war hostilities (whether war be declared or not) invasion act of foreign enemies, rebellion, revolution, insurrection or, civil war (otherwise than among the contractor's own employees) riot, commotion or disorder or use of occupation by the NTC of any portion of the works in respect of which a certificate of completion has been issued or any such operation of the forces of nature as responsible foresight and ability on the part of the contractor could not foresee reasonably provide against all of which are herein collectively referred to as 'the accepted risks'.

## **13 DAMAGE TO PERSONS OR PROPERTY AND INSURANCE**

- 13.1 The contractor shall be responsible for any injury to persons, animals or things/property and for all structural and decorative damage to property, which may arise from the operations and due to his neglects or of any nominated sub-contractor's employees. Whether such injury or damage arising out of carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this Contract. This clause shall be held to include, inter-alia, any damage to buildings whether immediately adjacent or otherwise and any damage to roads, streets, foot-paths, bridges or ways as well as all damage caused to the building and works forming the subject of this Contract by frost or other inclemency of weather. The

Contractor shall indemnify the Employer and hold him harmless in respect of all and any expenses arising from any such injury or damage to person or property as afore-said, and also in respect of any claims made in respect of injury or damage under any Acts of Government or otherwise and also in respect of any award of compensation or damage consequent upon such claim for the period of construction/execution of works and also during the period of maintenance for loss or damage arising from a cause occupying prior to the commencement of the period of maintenance.

- 13.2 The contractor shall reinstate all damages of every sort mentioned in the clause so as to deliver up the whole of the contracted works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damages to the properties of third parties.
- 13.3 The contractor shall indemnify NTC against all claims which may be made against the Employer by any member of the public or the third party in respect of anything which may arise in respect of the works or in consequence thereof and shall at his own expense arrange to effect and maintain, until the virtual completion of the contract, with an approved office, policy of insurance in the joint names of the Employer and the contractor against such risks and deposit such policy or policies with the Engineer from time to time during the currency of the contract. The contractor shall similarly indemnify the Employer against all claims which may be made upon the Employer whether under the Workmen's Compensation Act or any other Statute in force during the currency of this contract as common law in respect of any employee of the contractor or any sub-contractor and shall at his own expense effect and maintain until the virtual completion of the contract, with an approved office. A policy of insurance in the joint names of the employer and the contractor against such risks and deposit such policies with the Engineer from time to time during the currency of this contract.
- 13.4 The contractor shall be responsible for anything which may be excluded from the insurance policies, above referred to, and also for all other damages to any property arising out of and incidental to the negligent or defective carrying of this contract. He shall also indemnify the NTC in respect of any costs charges of expense arising out of any claim or proceedings and also in respect of any award of or compensation of damages arising there from.
- 13.5 NTC shall be at liberty and empowered to deduct the amount of any damage, compensation cost, charges and expenses arising or accruing from or in respect of such claim or damage from any such sums due or to become due to the contractor.
- 13.6 Unless otherwise specified, the insurance shall be for the following amount in respect of original works costing more than Rs. Five Hundred Thousand (Rs. 500,000/-) excluding repair and petty works.
- (a) The works and temporary works to the full value of such works executed from time to time.
- (b) The materials, constructional plant and other things brought on to the site by the contractor to the full value of such materials, constructional plant and other things.
- (c) Third party insurance for at least the amount stated in the tender.
- 13.7 The contractor shall ( except if and so far as the specification provides otherwise ) indemnify and keep indemnified the NTC against all losses and claims for injuries or damage to any person or any property what so ever ( other than surface or other damage to land being or crops being on the site suffered by tenants or occupiers ) which may arise out of or in consequence of the construction and maintenance of the works and against all claims

demands proceedings damages, costs, charges and expenses whatsoever in respect of or in relation thereto.

13.8 The contractor shall at the time of signing the contract, insure the works and keep them to be insured until the virtual completion of the contract against loss or damage by fire in and office to be approved by Director Development North NTC Islamabad in the joint names of NTC and contractor ( the name of the former being placed first in the policy ) for the full amount of the contract and for any further sum if called upon to do so by the employer, the premium of such further sum being allowed to the contractor as and authorized extra, such policy shall cover the property of the employer only, fees for assessing the claim and in connection with his services generally therein, and shall not cover any property of the contractor or of any sub-contractor of employer. The contractor shall despite the policy and receipts for the premium with the Director Development North NTC Islamabad within twenty-one days from the date of signing the contract unless otherwise instructed by the Director Development North NTC Islamabad. In case of default of the contractor insuring as provided above, the NTC may insure and may so deduct the premiums paid from any amounts due or which may become due to the contractor. The contractor shall as soon as the claim under the policy is settled or the works reinstated by the insurance office should they elect to do so, proceed with all due diligence with the completion of the works in the same manner as though the fire had not occurred in all respects under the same condition of contract. The contractor, in case of rebuilding or reinstatement after fire shall be entitled to such extension of time for completion as Director Development North NTC Islamabad deems fit.

13.9 The amount so due as aforesaid shall be the total value of the work duly executed and of the contract materials and goods delivered upon the site for use in the works upon and including the date not more than seven days prior to the date of the said certificate less the amount to be retained by NTC (as hereinafter provided) and less any installments previously paid under this clause, provided that such certificates shall only include the value of said materials and goods as and from time to time as they are reasonably, properly and not prematurely brought upon the site and then only if properly stores are protected against the weather.

#### **14 PATENT RIGHTS AND ROYALTIES**

The contractor shall save harmless and indemnify the NTC from and against all claims and proceedings for or on account of infringement of any patent right, design, make, mark or name of other protected right in respect of any construction plant machine, work or material used for or in connection with the works or temporary works or any of them and from and against all claims, demands, proceedings, damage cost, charges and expense whatsoever in respect thereof or in relation thereof / except where otherwise specified. The contractor shall pay all tonnage and other royalties, rent and other payment or compensation (if any) for getting stone, sand, gravel clay or other materials required for the works or temporary works or any of them.

#### **15 SUPPLY OF PLANT, MATERIAL & LABORS**

Except where otherwise specified the contractor shall at his own expense supply and provide all the constructional plant, temporary works materials both for temporary and for permanent works, labors (including the supervision thereof) transport to or from the site and about the works and other things of every kinds required for the construction, completion and maintenance of the works.

**16 CLEARANCE OF SITE ON COMPLETION**

On the completion of the works the contractor shall clear away and remove from the site all constructional plant surplus material, rubbish and temporary works of every kind and leave the whole of the site and work, clean and in a workman like condition to the satisfaction of the Director Development North NTC Islamabad/NTC.

**17 LABOUR**

17.1 The hours of Employment Regulation and Payment of Wages Act, so far those are applicable to the contractor's labor shall be adhered to by the contractor.

17.2. The contractor shall, if required Director Development North NTC Islamabad, deliver to his Representative or at his office a return in detail, in such form and at such intervals as Director Development North NTC Islamabad, may prescribe showing the number of the several classes of labors from time to time employed by the contractor on the site and such information respecting constructional plant as Director Development North NTC Islamabad, may require.

**18 WORK MATERIAL AND PLANT**

18.1 All the material and workmanship shall be of the respective kind described, in the contract and in accordance with Director Development North NTC Islamabad instruction and shall be subject to, from time to time, such tests as Director Development North NTC Islamabad may direct at the place of manufacturer, fabrication or on the site or at all or any such places. The contractor shall provide such assistance, instruments, machines, labors and materials as are normally required for examining, testing any work and the quality, weight, quantity of any material used and shall supply samples of materials before incorporation in the works for testing as may be selected and required by Director Development North NTC Islamabad.

18.2 All samples shall be supplied by contractor at this own cost.

18.3 The costs of making all tests specified in the contract shall be borne by the contractor.

18.4 When in any certificate (of which the contractor has received payment) the Director Development North NTC Islamabad has included the value of any unfixed material intended for and / or placed on or adjacent to the works such materials shall become the property of NTC and they shall not be removed, except for use upon the works, without the written authority of the Director Development North NTC Islamabad. The contractor shall be liable for any loss or damage to such materials.

18.5 All plant to be supplied shall be manufactured and all work to be done shall be executed in the manner set out in the contract. Whether the manner of execution is not set out in the contract, works shall be executed in a proper and workman like manner in accordance with recognized good practice. The contractor shall submit for approval of Director Development North NTC Islamabad, his detail method statement(s) for the execution of such items of work as may be desired by the Director Development North NTC Islamabad. Approval of such method statement(s) shall neither relieve the Contractor of his responsibilities under the contract nor form any basis for claiming additional costs.

18.6 The Contractor shall give Director Development North NTC Islamabad full opportunity to examine, measure and test any work on site which is about to be covered up or put out of the view. The contractor shall give due notice to Director Development North NTC Islamabad whenever any such work is ready for examination, testing or measurement and NTC/ Director Development North NTC Islamabad shall then, unless notifies otherwise, carry out such examination, testing or measurement without any delay.

18.7 If Director Development North NTC Islamabad instructs the Contractor shall then expose any parts of the works. The contractor shall reinstate and make good such parts to the satisfaction of Director Development North NTC Islamabad /NTC and shall bear its expenses/cost.

**19 INSPECTION AND TESTING DURING EXECUTION OR MANUFACTURING**

19.1 The Director Development North NTC Islamabad, his Representative and any person authorized by him, shall at all times have access to the works and to the site and to all workshop and places where work is being prepared or where materials are manufactured, article or machinery are being obtained for the works and the contractor shall afford every facility for and every assistance in or in obtaining the right of such access.

19.2 The Director Development North NTC Islamabad shall be entitled during manufacturing or execution to inspect, examine or test the material and workmanship and check the progress of the manufacturing or execution to be delivered under the contract. This shall take place on the contractor premises, site or other places where plant or some parts of the plant is being manufactured and in such case the Contractor shall obtain permission for Director Development North NTC Islamabad /his representative to carry out such testing, inspection or measurement. No such inspection, testing or measurement shall release the contractor from any obligation under the contract.

19.3 The contractor shall provide such assistance, labor, materials, electricity, fuel, stores, apparatus and instruments as may be necessary to carry out the test efficiently.

19.4 When plant or part of the plant or the network or any material or part of the network has passed the tests referred in the sub clauses above, The Director Development North NTC Islamabad /NTC shall furnish to the Contractor a certificate or certify the contractor's testing certificate.

19.5 If, as a result of the inspection, examination or testing referred above, Director Development North NTC Islamabad declares that any Plant or Network or Part of the Plant/Network or any material is defective or otherwise not in accordance with the contract, he may reject such plant or network or part of the plant/network or material and shall notify the contractor immediately and the Contractor shall make the good the effect with full speed. Director Development North NTC Islamabad shall not reject any plant or network or any part for minor defects which do not affect the commercial operation of such plant or network but the decision to declare service affecting deficiency or otherwise shall rest with Director Development North NTC Islamabad.

**20 REMOVAL OF IMPROPER MATERIAL OR WORK**

20.1 The Director Development North NTC Islamabad shall, during the progress of the work have power to order from time to time:

- a. The removal from the site within such time or times as may be specified of any materials which in the opinion of the Director Development North NTC Islamabad, are not in accordance with the contract.
- b. The substitution of proper and suitable materials and
- c. The removal and proper re-execution (notwithstanding any previous test thereof or interim payment there for) of any work which in respect of materials of workmanship is not in the opinion of the Engineer in accordance with the contract.

- 20.2 In case of default on the part of the contractor in carrying out such order, the Director Development North NTC Islamabad shall be entitled to employ and pay other person to carry out the same and all expenses consequent thereon or incidental thereto, shall be borne by the contractor and shall be recoverable from him by the NTC or may be deducted by NTC from any amounts due or which may become due to contractor.

**21 SUSPENSION OF WORK**

The contractor shall on the written orders of the Engineer, suspend the progress of the works or any part thereof for such time or times and in such manner as the Director Development North NTC Islamabad may consider necessary and shall during such suspension period protect and secure the work so far as is necessary in the opinion of the Director Development North NTC Islamabad. The extra cost (if any) incurred by the contractor in giving effect to such instructions, under this clause shall be borne and paid by the NTC unless such suspension is: -

- (a) Otherwise provided for in the contract, or
- (b) Necessary for the proper execution of the work or by reason of weather conditions affecting the safety or quality of the contract, or
- (c) Necessary for the safety of the works or any part thereof:
- (d) The stores, spares and the workmanship is substandard or of poor quality.

Provided that the contractor shall not be entitled to recover any such extra cost unless he gives notice in writing of his intention to claim, to the Director Development North NTC Islamabad within 21 days of the suspension order. The Director Development North NTC Islamabad shall settle and determine the extra payment to be made to the contractor in respect of such claim as the Director Development North NTC Islamabad shall consider fair and reasonable.

**22 EXTENSION OF TIME FOR COMPLETION**

The Contractor may claim an extension of the Time for Completion if the works are delayed by any of the following causes: -

- (a) Extra or Additional work ordered in writing by Director Development North NTC Islamabad.
- (b) Exceptional adverse weather conditions, if agreed by Director Development North NTC Islamabad.
- (c) Physical obstructions or conditions which could not have reasonably have foreseen by the contractor.
- (d) NTC/ Director Development North NTC Islamabad instructions, otherwise than by reason of Contractor's default.
- (e) The failure of NTC to fulfill any of his obligations under the contract.
- (f) Delayed by any other contractor engaged by NTC/ Director Development North NTC Islamabad.
- (g) Any Suspension of the works under Clause 25 except when due to the Contractor's default.
- (h) Force Majeure

The Contractor shall give to Director Development North NTC Islamabad notice for extension of time within 14 days of the circumstances for such a cause becoming known to the Contractor. The notice shall be followed with full supporting detail. Director Development

North NTC Islamabad may grant such extension if it deemed justified from time to time prospectively or retrospectively.

**23 RATE OF PROGRESS**

- 23.1 If the rate of progress of the works or any part thereof be at any time in the opinion of the Director Development North NTC Islamabad is slow, in order to ensure the completion of the works by the prescribed time, the Director Development North NTC Islamabad shall so notify the contractor in writing and the contractor shall thereupon take such steps as the contractor may think necessary and the Director Development North NTC Islamabad may approve to expedite progress so as to complete the works by the prescribed time or extended time for completion.. The contractor shall execute the work without any break and the progress of the work shall not be conditional with the payment of running bills or bill. However, the NTC shall do its best for early payments to the contractor in the interest of the project, subject to completion of all formalities under the laid down procedures and submission of all necessary documentation by the contractor.
- 23.2 Notwithstanding anything contained herein and in the event of the rate of progress of the works being such that in the opinion of the Director Development North NTC Islamabad the works cannot be completed by the prescribed time or the extended time. The Engineer may have the works constructed and completed through any other agency either concurrently with or independently of the contractor at the RISK AND COST of the contractor or the Director Development North NTC Islamabad may supplement the contractor's labor, plant, and materials at the contractor's RISK AND COST. Further, the NTC shall have the power to terminate the contract and withhold payment of the contractor till the whole of the works have been constructed, completed and maintained in the manner laid down in the contract and the contractor shall be responsible for any loss or damage which the NTC may sustain on that account.

**24 TEST ON COMPLETION**

- 24.1 When the plant or work or part of the network is completed, the contractor shall notify its completion to the Director Development North NTC Islamabad with detail test reports and other detail as per format agreed upon by NTC and the contractor or a known standard format. Director Development North NTC Islamabad then shall detail the testing and handing/taking over schedule immediately.
- 24.2 If the work fails to pass the prescribed test, Director Development North NTC Islamabad may schedule retesting if in his opinion the deficiencies in the test can be addressed by the contractor in a well-defined time frame or not affecting the commercial operation of the Plant or network. If the work fails again or the Director Development North NTC Islamabad /NTC considers that the deficiencies in the tests can adversely affect the commercial operation of the plant he may reject the plant or work.
- 24.3 As soon as in the opinion of the Director Development North NTC Islamabad, the works have been substantially completed and satisfactorily passed any final test that may be prescribed under the contract., the Director Development North NTC Islamabad shall, on receiving a written undertaking by the contractor to finish any outstanding work during period of maintenance, issue a certificate of completion in respect of the works and the period of maintenance of the works shall commence from the date of such a certificate provided that the Director Development North NTC Islamabad may give such certificate with respect to any part of the works before the completion of the whole of the works and shall upon the written application of the contractor give such certificate with respect to any substantial part of the

works which has been completed to the satisfaction of the Director Development North NTC Islamabad and occupied or used by the NTC and when any such certificate is given in respect of a part of the works such part shall be considered as completed and the period of maintenance of such part shall commence from the date of such certificate.

- 24.4 The work shall be taken over by NTC when they have been completed in accordance with the Contract and have passed the tests, except in minor respects that do not affect the works for their intended purpose. NTC shall not use any part of the work unless a **Taking over certificate** has been issued in this respect.

## **25 MAINTENANCE AND DEFECTS LIABILITY PERIOD**

- 25.1 The defect liability Period or warranty period of the plant or network or works, except otherwise agreed, shall be one year from the date of taking over Certificate (Provisional Acceptance Certificate). Where any part of the works is taken over separately from the works the Defect Liability Period for that part shall commence from the date it was taken over.
- 25.2 The Contractor shall be responsible for making good any defect in or damage to any part of the works which may appear or occur during the Defect Liability Period and which arises from either
- Any defective materials, workmanship or design or
  - Any act or omission of the Contractor during the Defects Liability Period. The Contractor shall make good the defects or damages as soon as practicable and at his own cost.
- 25.3 The Defects Liability Period for the works shall be extended by a period equal to the period during which the works cannot be used by reason of a defect or damage
- 25.3 If the Contractor fails to remedy a defect or damage within a reasonable time NTC may fix a final time for remedying such defect or damage. If the contractor fails to do so NTC may
- Carry out the work at the contractor's risk and cost at a reasonable manner and its cost shall be deducted from the Contract Price.
  - If the defect or damage is such that NTC has been deprived substantially the whole of the benefits of the works or the part thereof, NTC may terminate the Contract in respect of such parts of the works which cannot be put in intended use. NTC shall be entitled to recover all sums paid in respect of such parts of the works together with the cost of dismantling the same and clearing the sites and returning the plant to the Contractor or disposing it otherwise.
- 25.4 Until the Final Acceptance Certificate, the contractor shall have access to all parts of the works and to records of the working and performance of the works.
- 25.5 When the Defect Liability Period for the works or any part has expired and the Contractor has fulfilled all his obligations under the Contract for defects in the works or that part, Director Development North NTC Islamabad shall issue the Defects Liability Certificate.

## **26 ALTERATIONS, ADDITIONS AND OMISSIONS**

- 26.1 The Director Development North NTC Islamabad shall make any variation of the form, quality or quantity of works or any part thereof that may in his opinion be necessary and for that purpose or if for any other reason it shall in his opinion be desirable, shall have power to order the contractor to do and the contractor shall do any of the following: -
- Increase or decrease the quantity of any work included in the contract.
  - Omit any such work.

- (c) Change the character or quality or kind of any such work.
- (d) Change the levels, lines and dimensions of any part of the works and
- (e) Execute additional work of any kind necessary for the completion of the works.

And no such variation shall in any way vitiate or invalidate the contract but the value (if any) of all such variations shall be taken into account in ascertaining the amount of the contract price.

26.2 No such variation shall be made by the contractor without an order in writing of the Director Development North NTC Islamabad, provided that no order in writing shall be required for increase or decrease in the quantity of any work such increase or decrease is not the result of an order given under this clause but is the result of the quantities exceeding or being less than those stated in bill of quantities. Provided, also that if for any reason the Director Development North NTC Islamabad shall consider it desirable to give any such order verbally, the contractor shall comply with such order and any confirmation in writing of such verbal order given by the Director Development North NTC Islamabad, whether before or after the carrying out of the order, shall be deemed to be an order in writing within the meaning of this clause.

26.3 The contractor may be required to execute additional work beyond the quantities specified in the bill of quantities or extra or substitute items not included therein. For all additional work, payment shall be made on the basis of actual measurement at the minimum rates for such work in the contract. For extra or substitute items, payment shall be made on the basis of actual measurement at the rates derived from those included in the bill of quantities if in the opinion of the Director Development North NTC Islamabad (which shall be final) such rates are applicable. In case the rates for extra or substitute items cannot be so derived, then reasonable rates shall be fixed by the Director Development North NTC Islamabad for which the contractor shall submit analysis of rates well in time for approval of the Director Development North NTC Islamabad before execution of such work. If the Director Development North NTC Islamabad decides certain items of work or reduce the quantities thereof, the value of the contract shall accordingly be reduced on the basis of actual measurement.

26.4 The contractor shall submit, to the Director Development North NTC Islamabad, giving full and detailed particulars of all claims for any additional expense to which the contractor may consider himself entitled and of all extra or additional work ordered by the Director Development North NTC Islamabad, which he has executed and no claim for payment for any such work will be considered which has not been before the completion of work.

26.5 The Contractor shall also be entitled to be paid

- a. The cost of any partial execution of the works rendered useless by any such variations, and
- b. The cost of making necessary alteration to work or plant already delivered or in the course of delivery or of any work done that has to be altered in consequence of such variation, and
- c. Any additional costs incurred by the Contractor by the disruption of the progress of the works as detailed in the program, and
- d. The net effect of the Contractor 's Finance Cost, including Interest caused by the variation.

## **27 PROPERTY IN MATERIAL AND PLANT**

27.1 Plant, temporary works and material to be provided in pursuant to the Contract shall become the property of the NTC when Plant, works and material delivered to the site, and the Contractor shall not remove any part thereof without the written permission of Director Development North NTC Islamabad /NTC.

27.2 The NTC shall not at any time be liable for the loss of or injury to any of the said plant, temporary works or materials.

**28 CERTIFICATION AND PAYMENT**

28.1 The Terms of payment shall be as stated in the Preamble to conditions of Contract.

28.2 If at any time any payment would fall due for Works or portion of works and, if there shall be any defect in portion of such works in respect of which such payment is proposed, NTC may retain the whole or any portion of such payment and the sum retained so shall be paid to the Contractor after the said defect is removed.

28.3 The contractor shall submit to Director Development North NTC Islamabad or his representative, during the execution of the works, on-account bills signed by the contractor showing the quantities and values of the permanent work done on site as soon as measurements have been recorded.

28.4 The rates and prices in such on-account bills shall be in accordance with these in the priced bill of quantities so far rates and prices are applicable and on the approved rates and price for other items of work.

28.5 The quantities in such on-account bills shall be in accordance with the agreed measurement recorded by the representative of Director Development North NTC Islamabad.

28.6 The contractor will be paid on the certificate of the Director Development North NTC Islamabad, the estimated contract value of the permanent executed and in the addition such amount as the Director Development North NTC Islamabad may consider fair and reasonable for any temporary works for which separate amount are provided in the bill of quantities.

28.7 No certificate other than the "Section-wise" Provisional Acceptance Certificate referred to in clause 35.8 hereof shall be deemed to constitute approval of any work or other matter in respect of which it is issued or shall be taken as admission of the performance of the contract or any part thereof or of the accuracy of any claim or demand made by the contractor or of additional or varied work having been ordered by the engineer nor shall any other certificate conclude or prejudice any of the powers of the engineer.

28.8 The contract shall not be considered as complete until Final Acceptance Certificate has been signed by the Director Development North NTC Islamabad and completed and maintained to his satisfaction. The Final Acceptance Certificate shall be given by the Director Development North NTC Islamabad after the expiry of the period of maintenance (or if different periods of maintenance shall become applicable to different parts of the works, the expiration of the latest such period) and full effect shall be given to this clause notwithstanding any previous entry on the works or the taking possession working or using thereof by NTC. The security deposit of the contractor shall be refunded after the Final Acceptance Certificate has been issued by the Director Development North NTC Islamabad after deducting any sums which may become due from contractor in terms of provision of clause 32.4 and 32.5 hereof.

28.9 When the Director Development North NTC Islamabad has granted a certificate or certificates of completion for the whole of the works hereof and when the NTC has ascertained the estimated final sum due to the contractor, the NTC shall after allowing for the amount of all previous on-account bills and certificates and after allowing for all other payments due from the contractor to the NTC pay to the contractor such a sum out of the balance so calculated as remaining due to the contractor.

28.10 Unless otherwise agreed between the NTC and the contractor all payments, NTC will pay the payment for each certificate within 21 days of issuance of such certificate.

**29 MEASUREMENT**

- 29.1 The quantities set out in the bill of quantities are the estimated quantities of work but they are not to be taken as the actual and correct quantities of the work to be executed by the contractor in fulfillment of his obligations under the contract.
- 29.2 The Director Development North NTC Islamabad shall accept, as otherwise stated, ascertain and determine by measurement the value of work done in accordance with the contract. He shall when he requires any part or parts of the work to be measured, give notice to the contractor or authorized agent or representative who shall forthwith attend or send a qualified agent to assist the Director Development North NTC Islamabad or his representative in making such measurement and shall furnish all particulars required by either of them. Should the contractor not attend or neglect or omit to send such agent then the measurement made by the Director Development North NTC Islamabad or approved by him shall be taken to be the correct measurement of the works.

**30 PROVISIONAL SUMS**

All the sums set out in the bill of quantities which shall be stated to be provisional or for contingencies shall be used only at the direction and discretion of the Engineer and if not used either wholly or in part shall as to the amount not used be deducted from the contract price.

**31 REMEDIES AND POWERS**

31.1 If the contractor shall become bankrupt or have a receiving order made against him or shall present his petition in bankruptcy or shall make an arrangement with or assignment in favor of his creditors or shall agree to carry out the contract under a committee of inspection of his creditors or ( being a corporation ) shall go into liquidation ( other than a voluntary liquidation for the purposes of amalgamation or reconstruction ) or if the contractor shall assign the contract without the consent in writing of the NTC first obtain or shall have an execution levied on his goods or if the Director Development North NTC Islamabad shall certify in writing that in his opinion the contractor :-

- a) Has abandoned the contract.
- b) Without reasonable excuse has failed to commence the work or has suspended the progress of the work for 14 days after receiving from the Director Development North NTC Islamabad written notice to proceed; or
- c) Has failed to remove materials from the site or to pull down and replace work for 28 days after receiving from the Director Development North NTC Islamabad written notice that the said materials or work had been condemned and rejected by him under these conditions; or
- (d) Is not executing the work in accordance with the contract or is persistently or flagrantly neglecting to carry out his obligations under the contract;
- (f) has to the detriment of good workmanship or in defiance of the Director Development North NTC Islamabad 's instruction to the contrary sub-let any part of the contract than the Director Development North NTC Islamabad may after giving 14 days notice in writing to the contractor enter upon it and the works and expel the contractor there from without thereby avoiding the contract or releasing the contractor from any of his obligations or liabilities under the contract or affecting the rights and powers conferred

on the NTC or the Director Development North NTC Islamabad by the contract and may himself complete the works or may employ any other contractor, to complete the works and the NTC or such other contractor may use for such completion so much of the construction plant, temporary works and materials which have been deemed to become the property of the NTC under the provisions of the contract as he or the NTC may think proper and the NTC may at any time sell all or any of the said constructional plant temporary works and un-used materials and apply the proceeds of sale in or towards the satisfaction of any sums due or which may become due to the NTC from the contractor under the contract.

- 31.2 The Director Development North NTC Islamabad shall as soon as may be practicable after any such entry and expulsion by the NTC fix and determine or after reference to the parties or after such investigation or enquiries as he may think fit to make or institute and shall certify what amount ( if any ) had at the time of such entry and expulsion been reasonably earned by or would reasonably accrue to the contractor in respect of work than actually done by him under the contract and what was the value of any unused or partially used materials any constructional plant and any temporary works which have been deemed to be done the property of the NTC under the provisions of the contract.
- 31.3 If the NTC shall enter and expel the contractor under this clause, the NTC shall not be liable to pay to the contractor any money on account of the contract until the expiration of the period of maintenance and thereafter until the costs of completion and maintenance damages for delay in completion ( if any ) and all other expenses incurred by the NTC have been ascertained and the amount thereof certified by the Director Development North NTC Islamabad, the contractor shall then be entitled to receive only such sums or sum ( if any ) as the Director Development North NTC Islamabad, may certify would have been due to him upon due completion by him after deducting the said, amount. But if such amount exceeds the sum which would have been payable to the contractor on due completion by him then the contractor shall upon demand pay to the NTC, the amount of such excess and it shall be deemed a debt due by the contractor to the NTC and shall be recoverable accordingly.

## **32 RISK AND RESPONSIBILITY**

- 32.1 The risk of loss of or damage to physical property and of death and personal injury which arise in consequence of the performance of the Contract shall be allocated between NTC and The Contractor as mentioned in sub-clause 32.2 and 32.3.
- 32.2 The NTC's risks are:
- a. Wars and hostilities (whether war be declared or not) invasion, act of foreign enemies.
  - b. Rebellion, revolution, insurrection, military or usurped power or civil war.
  - c. Ionizing radiation or contamination by radioactivity from any nuclear fuel, radioactive toxic explosives or other hazardous properties of explosive nuclear assembly or nuclear component thereof.
  - d. Riots, commotion or disorder, unless solely restricted to the employees of the Contractor or his subcontractors.
  - e. Use or occupation of the work or any part thereof by the NTC.
  - f. Fault, error, defect or omission in the design of any part of the work by NTC or by whom NTC is responsible for which the Contractor has disclaimed responsibility in writing in a reasonable time after the receipt of such design.
  - g. Right of way if NTC is responsible.

- h. The act, neglect or omission or breach of Contract or statutory duty of NTC or other contractor employed by NTC.

32.3 The Contractor's risk are all risk other than those identified as the NTC's risk.

**33 CARE OF THE WORK AND RISK TRANSFER DATE**

33.1 The Contractor shall be responsible for the care of work thereof from the date of commencement until the Risk Transfer Date applicable as in Sub-Clause 41.2  
The Contractor shall also be responsible for the care of any part of the work for which any outstanding work is being performed by the Contractor during the Defect Liability Period until completion of such outstanding work.

33.2 The Risk Transfer date in relation to the work thereof is the earlier of either  
a. The date of issuance of Taking Over Certificate or  
b. The date of expiry of the notice of termination when the Contract is terminated by the NTC or the Contractor in accordance with the Contract.

33.3 The risk of loss or damage to the work thereof shall pass from the Contractor to NTC on the Risk Transfer Date applicable thereto.

33.4 Loss of or damage to the work thereof occurring before the Risk Transfer Date shall  
a. To the extent caused by any of the Contractor's Risk, be made good forthwith by the contractor at his own cost, and  
b. To the extent caused by any of the NTC's Risk, be made good by the Contractor at NTC's expense if so required by Director Development North NTC Islamabad within 28 days after the occurrence of such loss or damage. The price of making good such loss and damage shall be in all circumstances reasonable and shall be agreed by NTC and the Contractor.

33.5 After the Risk Transfer Date, the Contractor's liability in respect of loss of damage to any part of the works shall, except in the case of Gross Misconduct, be limited to  
a. To the fulfillment of the Contractor's obligation under clause 32 in respect of defects therein  
b. To making good forthwith loss or damage caused by the contractor during the Defect Liability Period.

**34 DAMAGE TO PROPERTY AND INJURY TO PERSONS**

34.1 The Contractor shall be liable for and shall indemnify NTC against all losses, expenses and claims in respect of any damage to physical property occurring before the issuance of Final Acceptance Certificate to the extent caused by:

- a. Defective design, material or workmanship of the Contractor or  
b. Negligence or breach of statutory duty of the Contractor.

34.2 NTC shall be liable for and shall indemnify the Contractor against all losses, expenses or claims in respect of loss or damage to any physical property or personal injury whenever occurring in connection of the works to the extent caused by the NTC's Risks.

34.3 The Contractor shall be liable for and shall indemnify NTC against all losses or claims arising in connection of damage to the property or injury / death to persons unless caused by the acts or defaults of NTC or other Contractors engaged by NTC, in which case NTC shall be liable

and shall indemnify the Contractor against all losses, expenses and claims arising in the connection herewith.

**35 LIMITATION OF LIABILITY**

- 35.1 Neither party shall be liable to the other for any loss of profit, loss of use, loss of production, loss of contracts or for any other indirect or consequential damage that may be suffered by other except:
- a. as expressly provided in the Clause 30 and
  - b. those provisions of these Conditions whereby the Contractor is expressly entitled to receive
- 35.2 The liability of the Contractor to NTC shall not in any case exceed the sum stated in the Preamble.
- 35.3 The Contractor shall have no liability to NTC for any loss or damage which occurs after the expiration of Defect Liability Period unless caused by the Gross Misconduct of the Contractor.
- 35.4 In all cases the party claiming a breach of Contract or a right to be indemnified in accordance with the Contract shall be obliged to take all the reasonable measures to mitigate loss or damage which has occurred or may occur.

**36 INSURANCE**

- 36.1 The contractor shall insure the works in the joint names of the Contractor and NTC to their full replacement value with deductible limits. Such insurance shall be for losses or damage caused by any of the Contractor's Risk from the Commencement date to the Risk Transfer date and during the Defect Liability period for loss or damage by the Contractor in completing any outstanding work or complying with his obligation under Clause 32.
- 36.2 The Contractor shall ensure against liability to third parties for any death or personal injury and loss or damage to any physical property arising out of the performance of the Contract. Such insurance shall be effected before the Contractor begins any work on the site.
- 36.3 The Contractor shall:
- a. whenever required by NTC produce the policies or certificates of insurance which he is required to effect under the Contract to gather with receipts for the premiums
  - b. effect all insurances for which he is responsible with an insurer and in terms approved by NTC.
  - c. Make no material alteration to the terms of any insurance without approval from NTC. If any insurer makes any material alteration to the terms, Contractor shall forthwith notify NTC, and
  - d. In all respect comply with any conditions stipulated in the insurance policies which he is required to place under the Contract.
- 36.4 The insurance cover effected by the Contractor may exclude any of the following:
- a. The cost of making good any part of the works which is defective or otherwise does not comply with the Contract provided that it does not exclude the cost of such defector non compliance.
  - b. Indirect or consequential loss of damage including any reductions in the Contract Price for delay.
  - c. Wear and tear.

- 36.5 If the Contractor fails to produce evidence of insurance cover or does not ensure any work as stated in Sub Clause 36.4 then NTC may effect and keep in force such insurance. Premiums paid by NTC for this purpose shall be from the Contract Price.
- 36.6 All policies of insurance of the Plant shall provide for payment of indemnity to be made in such amounts as will allow making good of loss of or damage to the whole or any part of the works.
- 36.7 It shall be the responsibility of the Contractor to notify the Insurer of any changes in nature or extent of the works and to ensure the adequacy of the insurance coverage at all times in accordance with the provisions of the Contract.
- 36.8 The Contractor shall procure and submit the insurance cover under this Clause within a period of 28 days of the receipt of Letter of Acceptance from Director Development North NTC Islamabad.

**37 CHANGE IN COST AND LEGISLATION**

The Contract Price shall be adjusted to take account of any increase or decrease in cost resulting from changes in legislation of the country or in its generally accepted interpretation. Legislation means any law, order, regulation or bye-law, which affects the Contractor in the performance of his obligations under the contract, made after the date 28 days prior to the latest date for submission of tenders for the works. Director Development North NTC Islamabad shall certify the amount of the resulting increase or decrease in cost, which shall be added to or deducted from the Contract Price.

**38 PROVISIONAL ACCEPTANCE CERTIFICATE (PAC)**

After successful and complete installation, testing and commissioning the contractor may notify to the NTC concerned officer when he considers that the works are complete. Upon such notification from contractor, the NTC concerned officer will arrange inspection and testing. The "Section-wise" Provisional Acceptance Certificate (PAC) in favour of contractor subject to satisfactory completion of work and successful testing as per requirement of contract will be issued by Director Development North NTC Islamabad. Alternatively, the NTC concerned officer will notify the contractor that the work is not fully complete and contractor will rectify the discrepancies.

**39 PROVISION OF STORE**

The stores will be provided by the Contractor as per BoQ.

**40 RIGHT OF WAY**

Contractor will be sole responsible for all types of permission and right of way.

**41 TEMPORARY BAR/ BLACK-LISTING OF FIRM**

- 41.1 As per clause-19 of the PPRA Rules 2004 (with all amendments), 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: -
- Consistent failure to provide satisfactory performance.
  - Contractor becomes insolvent.
  - 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.

41.2 Chairman /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 Chairman / Managing Director NTC.

41.3 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.

**42 COMPLIANCE STATEMENT**

Bidders will sign the attached compliance statement / certificate that he will abide by all commercial as well as technical instructions of the Terms and Conditions with the bid documents.

**43 CERTIFICATE**

I do hereby certify on behalf of my firm that:

- a. I have understood and hereby accept all the terms and conditions as mentioned in the tender documents and I will abide by the instructions issued by NTC.
- b. The store /Items to be supplied under the contract shall be new and as standard / specifications.

**Contractor:**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**ANNEX-A, A1 to A7, B, B1, C, C1, C2, D, D1, D2, E, E1: BILL OF QUANTITY (BOQ)**

**Section-I: Deployment of GPON Based Network at Peshawar Cantt**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

Section#	Annexure#	Description of Work	Contractor (Store)	Contractor (Services)	Total Amount
<b>Section-I: Deployment of GPON Based Network at Peshawar Cantt</b>					
<b>Section-I</b>	<b>Feeder / Primary Cable Network</b>				
	<b>Annex-A1</b>	Laying of 144-Fiber Feeder Cable Network- (Feeder / Primary Network)			
	<b>Optical Distribution Networks (06 x ODNs)</b>				
	<b>Annex-A2</b>	FDH Abdul Wali Khan Multiplex (AWKM) ODN Network-			
	<b>Annex-A3</b>	FDH Ministers Block ODN Network -			
	<b>Annex-A4</b>	FDH Civil Secretariat ODN Network -			
	<b>Annex-A5</b>	FDH SDU Building ODN Network -			
	<b>Annex-A6</b>	FDH Peshawar High Court (PHC) ODN Network -			
	<b>Annex-A7</b>	FDH Fort Road ODN Network -			
<b>Grand Total (Section-I) (Rs.) (Inclusive all Govt Taxes)</b>					

**NOTE:**

- \*1 Bidders must quote all BOQ items for each Section/ Annexure.
- \*2 NTC reserves the right to increase, decrease, drop BoQ Items / Annexures solely on its discretion at the time of Contract.
- \*3 Contractor Store will be pre-fabricated as per telecom industry standards
- \*4 Prior approval by NTC PD for specifications, quality and standards is necessary, before deployment at NTC sites
- \*5 NTC reserves the right to reject sub-standard local made store items during approval phase

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT****BOQ - Laying of 144 Fiber Feeder Cable Network - Primary**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
<b>NTC (Store):</b>						
1	Optical Fiber Cable 144 Fibers (Duct buried , Single Mode, G.652D)	M	3,500			<b>To be Provided by NTC</b>
2	Optical Fiber Cable 48 Fibers (Duct buried , Single Mode, G.652D)	M	250			
3	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)	M	1,275			
4	Joint Enclosure (144-Fiber) with accessories	No	4			
5	Joint Enclosure (24-Fiber) with accessories	M	1			
<b>Contractor (Store):</b>						
1	Rack type ODF 144-Fiber Pre loaded with accessories SC/APC, SC/SC, FC/LC, FC/PC, FC/SC, LC/LC with adapters and pigtails complete	No	1			
2	42U Cabinet/Rack (Indoor)- for Rack type ODFs Installation and for coupling with Peshawar Cantt existing Internal MSAG	No	1			
3	Optical Patch Cord with connectors 10M, SC/SC, FC/PC, FC/SC, FC/LC for interconnectivity of OLT with ODFs	No	80			
4	Fiber Distribution Hub - FDH with (288 Ports Capacity) Outdoor fully loaded, with complete allied accessories, including OFC splitters as per site requirement.	No	6			
5	Optical Spilitter 1:2 with accessories	No	1			
6	Optical Spilitter 1:4 with accessories	No	1			
7	Optical Spilitter 1:8 with accessories	No	1			
8	Optical Spilitter 1:16 with accessories	No	1			
9	Optical Spilitter 1:32 with accessories	No	1			
10	Optical Spilitter 2:2 with accessories	No	1			
11	Optical Spilitter 2:4 with accessories	No	1			
12	Optical Spilitter 2:8 with accessories	No	1			
13	Optical Spilitter 2:16 with accessories	No	1			
14	Optical Spilitter 2:32 with accessories	No	1			
15	Optical Patch Cord with connectors 3M, SC/SC, FC/PC, FC/SC, FC/LC, LC/LC (to meet emergency)	No	80			
16	GI Pipe 2" 2mm thick with fixing material	M	1			
17	GI Pipe 1" 2mm thick with fixing material	M	10			
18	Flexible Steel Pipe 1" Dia	M	1			
19	PVC / HDPE pipe 3" dia Thickness 3mm	M	1			
20	PVC / HDPE pipe 2" dia Thickness 3mm	M	3,645			
21	PVC duct Pipe 1" dia with fixing material	M	1			
22	RCC Route /Joint Indicator RCC with engraved NTC	No	20			
23	Warning Tape with NTC Monogram	M	3,410			
<b>Sub Total Contractor (Store) PKR.</b>						
<b>Contractor (Services):</b>						
1	Marking and Excavation in <b>Kacha</b> , Trench <u>4ft</u> x <u>1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	580			

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT****BOQ - Laying of 144 Fiber Feeder Cable Network - Primary**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
2	Marking and Excavation in <b>Kacha</b> , Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	100			
3	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	1,580			
4	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	1,150			
5	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	185			
6	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site <i>without</i> Right of Way (ROW)/ NOC Charges	M	1			
7	<b>Thrust Boring</b> ((5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	25			
8	<b>Thrust Boring</b> ((5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site <i>Without</i> Right of Way (ROW)/ NOC Charges	M	25			
9	<b>Road Cut</b> with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	1			
10	<b>Road Cut</b> with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges	M	1			
11	<b>Repair of Pacca</b> (PCC / Re-instatement of Tuff Tiles)	M	2,730			
12	Termination / Splicing of OFC Cables	Fiber	864			
13	Cleaning, Roding and Pulling of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench	M	613			
14	Pulling of OFC Feeder Cable in (CBP New Ducts) with ROW having lease / Rent Charges (as per concerned department policy)	M	340			

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT****BOQ - Laying of 144 Fiber Feeder Cable Network - Primary**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
15	Pulling of OFC in CBP Ducts / Pipe / Conduit etc (W/O ROW)	M	340			
16	Hanging of OFC Overhead on Wall / Pole/ Roof / Building etc	M	10			
17	Construction of Concrete base and installation of FDH cabinet with Earth rods/cable, hooks, locks, painting, numbering & Painting of Monogram & Installation of Cabinet & splitters or ODFs	Job	6			
18	Installation of 42U Indoor Rack for ODFs, provision and connectivity of Earth Cable with earth Bar	Job	1			
19	Attachement & Fixing of GI pipe / HDPE pipe /PVC pipe/ PVC Duct with pulling of OFC cable inside pipe / ducts including required accessories/material wall drilling etc	M	10			
20	Installation and fixing of rack type ODFs in 42U cabinet, MSAGs including required accessories etc	No	1			
21	Construction of RCC Hand Hole (2x2x4) with Cover having marking of NTC	No	16			
<b>Sub Total Contractor (Services) PKR.</b>						
<b>Summary</b>						
Contractor (Store)						
Contractor (Services)						
<b>Grand Total (PKR)</b>						

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT****BOQ - Laying of ODN Network from AWKM FDH to Abdul Wali Khan Multiplex Block-A, B, C, Governor KPK Office / Residence,****Governor VVIP Block, Governor Secretariat, Finance & Administration Department Peshawar**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
<b>NTC (Store):</b>						
1	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)	M	2,080			<b>To be Provided by NTC</b>
2	Optical Fiber Cable 6 Fibers (Duct buried , Single Mode, G.652D)	M	600			
3	2 Fiber Drop Fiber (Outdoor Type, Single Mode, G.652D)	M	9,360			
4	Joint Enclosure (24-Fiber)	No	5			
<b>Contractor (Store):</b>						
S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
1	FAT with 2:8 Splitter & allied accessories (Wall Mounted)	No	38			
2	FAT with 2:8 Splitter & allied accessories (Pole Mounted)	No	2			
3	GI Pipe 1" dia 2mm thick with fixing material	M	134			
4	Flexible Steel Pipe 1" dia (including fitting)	M	10			
5	Flexible Plastic Pipe 1" dia (including fitting)	M	10			
6	Duct Patti 2" dia (including fitting)	M	565			
7	Duct Patti 1" dia (including fitting)	M	10			
8	PVC / HDPE Pipe 2" dia thickness 3mm	M	755			
9	PVC / HDPE Pipe 1" dia thickness 3mm	M	10			
10	Warning Tape with NTC Monogram	M	730			
<b>Total Contractor (Store) PKR.</b>						
<b>Contractor Services (C)</b>						
1	Marking and Excavation in <b>Kacha</b> , Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	10			
2	Marking and Excavation in <b>Kacha</b> , Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	87			
3	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <b>4ft x 1.25ft</b> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	300			
4	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <b>4ft x 1.25ft</b> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	333			
5	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	1			

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT****BOQ - Laying of ODN Network from AWKM FDH to Abdul Wali Khan Multiplex Block-A, B, C, Governor KPK Office / Residence,****Governor VVIP Block, Governor Secretariat, Finance & Administration Department Peshawar****e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26****File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26**

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
6	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site <i>without</i> Right of Way (ROW)/ NOC Charges.	M	25			
7	<b>Road Cut</b> with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	1			
8	<b>Road Cut</b> with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	1			
9	<b>Repair of Pacca</b> (PCC / Re-instatement of Tuff Tiles)	M	633			
10	Termination / Splicing OFC cable	Fiber	440			
11	Cleaning, Roding and Pulling of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench	M	130			
12	Hanging of OFC Overhead on Wall / Pole/ Roof / Building with role etc	M	1,795			
13	Attachement & Fixing of GI pipe / HDPE pipe /PVC pipe/ PVC Duct with pulling of OFC cable inside pipe / ducts including required accessories/material wall drilling etc	M	20			
14	Installation of FAT with complete accessories	No	40			
15	Construction of RCC Hand Hole (2x2x4) with Cover having marking of NTC	No	1			
<b>Total Contractor (Services) PKR.</b>						
<b>Summary</b>						
Contractor (Store)						
Contractor (Services)						
<b>Grand Total (PKR)</b>						

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT**

BOQ - Laying of ODN Network from Minister's Block FDH to Home, Revenue & Estate, HEC, Secondary & Elementary Education, PEHEL, Relief, Transport, Library & Labour Department Civil Sectt; Peshawar  
e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26  
File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
<b>NTC (Store):</b>						
1	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)	M	910			<b>To be Provided by NTC</b>
2	Optical Fiber Cable 12 Fibers (Duct buried , Single Mode, G.652D)	M	160			
3	Optical Fiber Cable 6 Fibers (Duct buried , Single Mode, G.652D)	M	180			
4	2 Fiber Drop Fiber (Outdoor Type, Single Mode, G.652D)	M	11,280			
<b>Contractor (Store):</b>						
S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
1	FAT with 2:8 Splitter & allied accessories (Wall Mounted)	No	47			
2	GI Pipe 1" dia 2mm thick with fixing material	M	182			
3	Flexible Steel Pipe 1" dia (including fitting)	M	10			
4	Flexible Plastic Pipe 1" dia (including fitting)	M	10			
5	Duct Patti 2" dia (including fitting)	M	420			
6	Duct Patti 1" dia (including fitting)	M	10			
7	PVC / HDPE Pipe 2" dia thickness 3mm	M	280			
8	PVC / HDPE Pipe 1" dia thickness 3mm	M	10			
9	Warning Tape with NTC Monogram	M	280			
<b>Sub Total Contractor (Store) PKR.</b>						
<b>Contractor (Services):</b>						
1	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft</u> x <u>1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	80			
2	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft</u> x <u>1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	200			
3	<b>Repair of Pacca</b> (PCC / Re-instatement of Tuff Tiles)	M	280			
4	Termination / Splicing OFC cable	Fiber	490			
5	Cleaning, Roding and Pulling of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench	M	1			
6	Hanging of OFC Overhead on Wall / Pole/ Roof / Building with role	M	930			
7	Attachement & Fixing of GI pipe / HDPE pipe /PVC pipe/ PVC Duct with pulling of OFC cable inside pipe / ducts including required accessories/material wall drilling etc	M	10			
8	Installation of FAT with complete accessories	No	47			
<b>Sub Total Contractor (Services) PKR.</b>						
<b>Summary</b>						
Contractor (Store)						
Contractor (Services)						
<b>Grand Total (PKR)</b>						

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT**

**BOQ - Laying of ODN Network from Civil Secretariat FDH to P&D-1, 2 & 3, LAW, CPO Office Governor's Old Annexy,**

**Old IB Office, Police Lines, CTD, FRP Peshawar**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST/PST (Rs.)	Unit Rate with GST/PST (Rs.)	Total Cost with GST/PST (Rs.)
<b>NTC (Store):</b>						
1	Optical Fiber Cable 144 Fibers (Duct buried , Single Mode, G.652D)	M	220			<b>To be Provided by NTC</b>
2	Optical Fiber Cable 48 Fibers (Duct buried , Single Mode, G.652D)	M	250			
3	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)	M	875			
4	Optical Fiber Cable 12 Fibers (Duct buried , Single Mode, G.652D)	M	1,900			
5	Optical Fiber Cable 6 Fibers (Duct buried , Single Mode, G.652D)	M	1,220			
6	2 Fiber Drop Fiber (Outdoor Type, Single Mode, G.652D)	M	15,600			
7	Joint Enclosure (144-Fiber)	No	1			
8	Joint Enclosure (48-Fiber)	No	1			
9	Joint Enclosure (24-Fiber)	No	1			
S#	Description	Unit	Qty	Unit Rate without GST/PST (Rs.)	Unit Rate with GST/PST (Rs.)	Total Cost with GST/PST (Rs.)
<b>Contractor (Store):</b>						
1	FAT with 2:8 Splitter & allied accessories (Wall Mounted)	No	65			
2	GI Pipe 1" dia 2mm thick with fixing material	M	388			
3	Flexible Steel Pipe 1" dia (including fitting)	M	10			
4	Flexible Plastic Pipe 1" dia (including fitting)	M	10			
5	Duct Patti 2" dia (including fitting)	M	945			
6	Duct Patti 1" dia (including fitting)	M	10			
7	PVC / HDPE Pipe 2" dia thickness 3mm	M	1,469			
8	PVC / HDPE Pipe 1" dia thickness 3mm	M	10			
9	Warning Tape with NTC Monogram	M	1,380			
<b>Sub Total Contractor (Store) PKR.</b>						
<b>Contractor (Services):</b>						
1	Marking and Excavation in <b>Kacha</b> , Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	90			
2	Marking and Excavation in <b>Kacha</b> , Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	800			
3	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft</u> x <u>1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	90			
4	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft</u> x <u>1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	400			

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT**

BOQ - Laying of ODN Network from Civil Secretariat FDH to P&amp;D-1, 2 &amp; 3, LAW, CPO Office Governor's Old Annexy,

Old IB Office, Police Lines, CTD, FRP Peshawar

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
5	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	10			
6	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site <i>without</i> Right of Way (ROW)/ NOC Charges.	M	79			
7	<b>Repair of Pacca</b> (PCC / Re-instatement of Tuff Tiles)	M	490			
8	Termination / Splicing OFC cable	Fiber	954			
9	Cleaning, Roding and Pulling of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench	M	280			
10	Hanging of OFC Overhead on Wall / Pole/ Roof / Building with role etc	M	2,666			
11	Attachement & Fixing of GI pipe / HDPE pipe /PVC pipe/ PVC Duct with pulling of OFC cable inside pipe / ducts including required accessories/material wall drilling etc	M	30			
12	Installation of FAT with complete accessories	No	65			
13	Construction of RCC Hand Hole (2x2x4) with Cover having marking of NTC	No	3			
<b>Sub Total Contractor (Services) PKR.</b>						
<b>Summary</b>						
Contractor (Store)						
Contractor (Services)						
<b>Grand Total (PKR)</b>						

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT**

**BOQ -Laying of ODN Network from SDU FDH to SDU, Environment, Health, DC Control Room, HRD, PKHA, Sports,**

**Bar Council, Treasury, Local Govt, Public Health, Irrigation, C&W Halal Food Khyber Rd Peshawar**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
<b>NTC (Store):</b>						
1	Optical Fiber Cable 144 Fibers (Duct buried , Single Mode, G.652D)	M	220			<b>To be Provided by NTC</b>
2	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)	M	220			
3	Optical Fiber Cable 6 Fibers (Duct buried , Single Mode, G.652D)	M	1,790			
4	2 Fiber Drop Fiber (Outdoor Type, Single Mode, G.652D)	M	10,360			
5	Joint Enclosure (144-Fiber)	No	1			
<b>Contractor (Store):</b>						
S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
<b>Contractor (Store):</b>						
1	FAT with 2:8 Splitter & allied accessories (Wall Mounted)	No	39			
2	GI Pipe 1" dia 2mm thick with fixing material	M	132			
3	Flexible Steel Pipe 1" dia (including fitting)	M	10			
4	Flexible Plastic Pipe 1" dia (including fitting)	M	10			
5	Duct Patti 2" dia (including fitting)	M	400			
6	Duct Patti 1" dia (including fitting)	M	10			
7	PVC / HDPE Pipe 2" dia thickness 3mm	M	310			
8	PVC / HDPE Pipe 1" dia thickness 3mm	M	10			
9	Warning Tape with NTC Monogram	M	300			
<b>Sub Total Contractor (Store) PKR.</b>						
<b>Contractor (Services):</b>						
1	Marking and Excavation in <b>Kacha</b> , Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	10			
2	Marking and Excavation in <b>Kacha</b> , Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	90			
3	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft</u> x <u>1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	10			
4	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft</u> x <u>1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	190			
5	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site <i>without</i> Right of Way (ROW)/ NOC Charges.	M	10			
6	<b>Repair of Pacca</b> (PCC / Re-instatement of Tuff Tiles)	M	200			
7	Termination / Splicing OFC cable	Fiber	456			
8	Cleaning, Roding and Pulling of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench	M	1			
9	Hanging of OFC Overhead on Wall / Pole/ Roof / Building with role etc	M	1,890			

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT****BOQ -Laying of ODN Network from SDU FDH to SDU, Environment, Health, DC Control Room, HRD, PKHA, Sports,****Bar Council, Treasury, Local Govt, Public Health, Irrigation, C&W Halal Food Khyber Rd Peshawar****e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26****File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26**

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
10	Attachement & Fixing of GI pipe / HDPE pipe /PVC pipe/ PVC Duct with pulling of OFC cable inside pipe / ducts including required accessories/material wall drilling etc	M	20			
11	Installation of FAT with complete accessories	No	39			
12	Construction of RCC Hand Hole (2x2x4) with Cover having marking of NTC	No	1			
<b>Sub Total Contractor (Services) PKR.</b>						
<b><u>Summary</u></b>						
Contractor (Store)						
Contractor (Services)						
<b>Grand Total (PKR)</b>						

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT**

**BOQ - Laying of ODN Network from PHC FDH to Peshawar High Court, Provincial Assembly, Supreme Court Registry,  
New & Old Judicial Complex, Jail, Culture Tourism, DC Complex, Mines & Minerals, Excise & Taxation, Tehsil Building Peshawar**  
e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26  
File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
<b>NTC (Store):</b>						
1	Optical Fiber Cable 48 Fibers (Duct buried , Single Mode, G.652D)	M	500			<b>To be Provided by NTC</b>
2	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)	M	640			
3	Optical Fiber Cable 12 Fibers (Duct buried , Single Mode, G.652D)	M	100			
4	Optical Fiber Cable 6 Fibers (Duct buried , Single Mode, G.652D)	M	1,165			
5	2 Fiber Drop Fiber (Outdoor Type, Single Mode, G.652D)	M	10,200			
6	Joint Enclosure (48-Fiber)	No	2			
S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
<b>Contractor (Store):</b>						
1	FAT with 2:8 Splitter & allied accessories (Wall Mounted)	No	52			
2	GI Pipe 1" dia 2mm thick with fixing material	M	211			
3	Flexible Steel Pipe 1" dia (including fitting)	M	10			
4	Flexible Plastic Pipe 1" dia (including fitting)	M	10			
5	Duct Patti 2" dia (including fitting)	M	490			
6	Duct Patti 1" dia (including fitting)	M	10			
7	PVC / HDPE Pipe 2" dia thickness 3mm	M	485			
8	PVC / HDPE Pipe 1" dia thickness 3mm	M	10			
9	Warning Tape with NTC Monogram	M	485			
<b>Sub Total Contractor (Store) PKR.</b>						
<b>Contractor (Services):</b>						
1	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	50			
2	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	435			
3	<b>Repair of Pacca</b> (PCC / Re-instatement of Tuff Tiles)	M	485			
4	Termination / Splicing OFC cable	Fiber	512			
5	Cleaning, Roding and Pulling of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench	M	1			
6	Hanging of OFC Overhead on Wall / Pole/ Roof / Building with role etc	M	1,770			
7	Attachement & Fixing of GI pipe / HDPE pipe /PVC pipe/ PVC Duct with pulling of OFC cable inside pipe / ducts including required accessories/material wall drilling etc	M	130			
8	Installation of FAT with complete accessories	No	52			
9	Construction of RCC Hand Hole (2x2x4) with Cover having marking of NTC	No	2			
<b>Sub Total Contractor (Services) PKR.</b>						
<b>Summary</b>						
Contractor (Store)						
Contractor (Services)						
<b>Grand Total (PKR)</b>						

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT**

**BOQ - Laying of ODN Network from Edward FDH to CM House, CM Sectt, Governor's New Annexy, Speaker Res, IGP Res, IG FC Res, PPSC, CS Res, PMG, Premier Intelligence Agency, AG Office, Commissioner Office/Res, DS Railway Res, NBP Zonal Office, Director NTC PE;**  
e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26  
 File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
<b>NTC (Store):</b>						
1	Optical Fiber Cable 48 Fibers (Duct buried , Single Mode, G.652D)	M	450			<b>To be Provided by NTC</b>
2	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)	M	2,190			
3	Optical Fiber Cable 12 Fibers (Duct buried , Single Mode, G.652D)	M	440			
4	Optical Fiber Cable 6 Fibers (Duct buried , Single Mode, G.652D)	M	3,235			
5	2 Fiber Drop Fiber (Outdoor Type, Single Mode, G.652D)	M	13,200			
6	Joint Enclosure (48-Fiber)	No	2			
7	Joint Enclosure (24-Fiber)	No	7			
8	Joint Enclosure (12-Fiber)	No	3			
9	Joint Enclosure (6-Fiber)	No	1			
<b>Contractor (Store):</b>						
1	FAT with 2:8 Splitter & allied accessories (Wall Mounted)	No	55			
2	GI Pipe 1" dia 2mm thick with fixing material	M	141			
3	Flexible Steel Pipe 1" dia (including fitting)	M	10			
4	Flexible Plastic Pipe 1" dia (including fitting)	M	10			
5	Duct Patti 2" dia (including fitting)	M	445			
6	Duct Patti 1" dia (including fitting)	M	10			
7	PVC / HDPE Pipe 2" dia thickness 3mm	M	2,065			
8	PVC / HDPE Pipe 1" dia thickness 3mm	M	10			
9	Warning Tape with NTC Monogram	M	1,805			
<b>Sub Total Contractor (Store) PKR.</b>						
<b>Contractor (Services):</b>						
1	Marking and Excavation in <b>Kacha</b> , Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	780			
2	Marking and Excavation in <b>Kacha</b> , Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	10			
3	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	1,000			
4	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	15			

**DEPLOYMENT OF GPON BASED NETWORK AT PESHAWAR CANTT**

**BOQ - Laying of ODN Network from Edward FDH to CM House, CM Sectt, Governor's New Annexy, Speaker Res, IGP Res, IG FC Res, PPSC, CS Res, PMG, Premier Intelligence Agency, AG Office, Commissioner Office/Res, DS Railway Res, NBP Zonal Office, Director NTC PE;**  
e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26  
 File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
5	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	200			
6	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site <i>without</i> Right of Way (ROW)/ NOC Charges.	M	60			
7	<b>Road Cut</b> with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC including Right of Way (ROW)/ NOC Charges (first time & rental charges as per policy of concerned authority for 3-Years)	M	1			
8	<b>Road Cut</b> with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	M	1			
9	<b>Repair of Pacca</b> (PCC / Re-instatement of Tuff Tiles)	M	1,015			
10	Termination / Splicing OFC cable	Fiber	902			
11	Pulling of OFC Feeder Cable in (CBP New Ducts) with ROW having lease / Rent Charges (as per concerned department policy)	M	710			
12	Pulling of OFC in CBP Ducts / Pipe / Conduit etc (W/O ROW)	M	710			
13	Cleaning, Roding and Pulling of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench	M	340			
14	Hanging of OFC Overhead on Wall / Pole/ Roof / Building with role etc	M	3,200			
15	Attachement & Fixing of GI pipe / HDPE pipe /PVC pipe/ PVC Duct with pulling of OFC cable inside pipe / ducts including required accessories/material wall drilling etc	M	10			
16	Installation of FAT with complete accessories	No	55			
17	Construction of RCC Hand Hole (2x2x4) with Cover having marking of NTC	No	9			
<b>Total Contractor (Services) PKR.</b>						
<b>Summary</b>						
Contractor (Store)						
Contractor (Services)						
<b>Grand Total (PKR)</b>						

**Section-II: Deployment of GPON Network at Murree**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

<b>Section#</b>	<b>Annexure#</b>	<b>Description of Work</b>	<b>Contractor (Store)</b>	<b>Contractor (Services)</b>	<b>Total Amount</b>
<b>Section-II: Deployment of GPON Network at Murree</b>					
<b>Section-II</b>	<b>Annex-B1</b>	BOQ - Murree - Laying GPON Distribution Network			
<b>Grand Total (Section-II) (Rs.) (Inclusive all Govt Taxes)</b>					

**NOTE:**

- \*1 Bidders must quote all BOQ items for each Section/ Annexure.
- \*2 NTC reserves the right to increase, decrease, drop BoQ Items / Annexures solely on its discretion at the time of Contract.
- \*3 Contractor Store will be pre-fabricated as per telecom industry standards
- \*4 Prior approval by NTC PD for specifications, quality and standards is necessary, before deployment at NTC sites
- \*5 NTC reserves the right to reject sub-standard local made store items during approval phase

**Section-II: Deployment of GPON Network at Murree**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

**BOQ - Murree - Laying GPON Distribution Network**

S#	Description	Unit	Total Quantity (Murree)	Unit Price without GST / PST (PKR)	Unit Price with GST PST (PKR)	Total Cost with GST / PST (Rs.)
<b>NTC (Store)</b>						
1	Self-Support Aerial Optical Fiber Cable 48 Fibers (Single Mode, G.652D)	Meter	10,000			<b>To be provided by NTC</b>
2	Self-Support Aerial Optical Fiber Cable 24 Fibers (Single Mode, G.652D)	Meter	3,100			
3	Self-Support Aerial Optical Fiber Cable 6 Fibers (Single Mode, G.652D)	Meter	2,000			
4	Drop Fiber 2 Fiber (Outdoor Type, Single Mode, G.652D)	Meter	1,000			
5	Joint Enclosure (48-Fiber) with accessories	No.	4			
6	Joint Enclosure (24-Fiber) with accessories	No.	2			

S#	Description	Unit	Qty	Unit Rate without GST / PST (Rs.)	Unit Rate with GST / PST (Rs.)	Total Cost with GST / PST (Rs.)
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**Contractor (Store)**

1	Fiber Distribution Hub (FDH) (Weatherproof IP65 or higher, Metal Enclosure) pre-fabricated Cabinet, pre-loaded with <b>96-Fiber ODFs</b> , SC/APC Adapters & Pigails, Splice trays, Cable Management Accessories and <b>Optical Splitters</b> : 1:4 x 4 No. as per site requirement, with complete allied accessories (Outdoor Type)	No.	1			
2	Fiber Access Terminal (FAT) with 1:32 Splitter & allied accessories (Wall Mount / Pole Mount/ Rack mount as per site requirement)	No.	1			
3	Fiber Access Terminal (FAT) with 1:16 Splitter & allied accessories (Wall Mount / Pole Mount/ Rack mount as per site requirement)	No.	2			
4	Fiber Access Terminal (FAT) with 1:8 Splitter & allied accessories (Wall Mount / Pole Mount/ Rack mount as per site requirement)	No.	6			
5	Optical Splitter 1:2 with accessories	No.	1			
6	Optical Splitter 1:4 with accessories	No.	1			
7	Optical Splitter 1:8 with accessories	No.	1			
8	Optical Splitter 1:16 with accessories	No.	1			
9	Optical Splitter 1:32 with accessories	No.	1			
10	OFDF 48-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtails complete (Rack-mount Indoor 'or' Wall mount)	No.	2			
11	OFDF 06-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtails complete (Rack-mount Indoor 'or' Wall mount)	No.	1			
12	Access Termination Box (ATB) - OFDF 02-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters & pigtails complete	No.	27			
13	Optical Patch Cord with connectors 3M, SC/SC, FC/PC, FC/SC, FC/LC, LC/LC	No.	30			
14	Optical Patch Cord with connectors 10M, SC/SC, FC/PC, FC/SC, FC/LC for inteconnectivity of OLT with ODFs	No.	2			
15	HDPE pipe 2" dia Thickness 3mm	Meter	100			
16	HDPE Pipe 1" dia with fixing material	Meter	100			
17	Flexible Steel Pipe 1" dia (including fitting)	Meter	50			
18	GI Pipe 2" 2mm thick with fixing material	Meter	10			
19	GI Pipe 1" dia 2mm thick with fixing material	Meter	10			

**Section-II: Deployment of GPON Network at Murree**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

**BOQ - Murree - Laying GPON Distribution Network**

S#	Description	Unit	Total Quantity (Murree)	Unit Price without GST/ PST (PKR)	Unit Price with GST PST (PKR)	Total Cost with GST/ PST (Rs.)
20	Duct Patti 2" dia (including fitting)	Meter	10			
21	Duct Patti 1" dia (including fitting)	Meter	100			
22	Field Installable Connector with Mechanical Splice and SC Adapter for drop wire termination	No.	10			
23	A4BC Poles with Brackets, U-Clamps for hanging of OFC Cables	No.	5			
24	Angle-Iron Brackets, Clamps, Insulators, Shingles & all Accessories for support & hanging of SSA OFC Cables on poles, buildings etc.	Set	180			
25	RCC Route /Joint Indicator RCC with engraved NTC Monogram	No.	4			
26	Warning Tape with NTC Monogram	Meter	100			
<b>Sub Total Contractor (Store) PKR</b>						
<b>Contractor (Services)</b>						
1	Marking and Excavation in <b>Kacha</b> , Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>including</i> Right of Way (ROW)/ NOC Charges (as per policy of concerned authority)	Meter	5			
2	Marking and Excavation in <b>Kacha</b> , Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	Meter	5			
3	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>including</i> Right of Way (ROW)/ NOC Charges (as per policy of concerned authority)	Meter	5			
4	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench <u>4ft x 1.25ft</u> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges.	Meter	5			
5	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site <i>including</i> Right of Way (ROW)/ NOC Charges (as per policy of concerned authority)	Meter	50			
6	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site <i>without</i> Right of Way (ROW)/ NOC Charges	Meter	5			
7	<b>Road Cut</b> with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>including</i> Right of Way (ROW)/ NOC Charges (as per policy of concerned authority)	Meter	5			

**Section-II: Deployment of GPON Network at Murree**

e-Tender Notice # Dir Dev (North)/1567, 1574, 1577, 1580/OFC/ADV-07/2025-26

File No. Dir Dev (North)/1567, 1574, 1577, 1580/OFC/Tender/2025-26

**BOQ - Murree - Laying GPON Distribution Network**

S#	Description	Unit	Total Quantity (Murree)	Unit Price without GST/ PST (PKR)	Unit Price with GST PST (PKR)	Total Cost with GST/ PST (Rs.)
8	<b>Road Cut</b> with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC <i>without</i> Right of Way (ROW)/ NOC Charges	Meter	5			
9	<b>Repair of Pacca</b> (PCC / Re-instatement of Tuff Tiles)	Meter	10			
10	Joint Splicing of OFC Cables	Fiber	384			
11	Termination Splicing of OFC Cables	Fiber	364			
12	Cleaning, Roding and Pulling of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench ( <i>length of existing trench or duct will be measured</i> )	Meter	20			
13	Hanging, Pulling & Attachment of Aerial OFC Overhead on Wall / Pole/ Roof / Building etc. ( <i>pole to pole length excluding cable loops</i> ) including Right of Way (ROW)/ NOC Charges (as per policy of concerned authority) - ( <i>if required at site</i> )	Meter	13,000			
14	Attachement & Fixing of GI pipe / HDPE pipe /PVC pipe/ PVC Duct with pulling of OFC cable inside pipe / ducts including required accessories/material wall drilling etc	Meter	50			
15	Installation and fixing of FATs, ODFs, ATBs on walls, or in 42U cabinet & MSAG Rack including required accessories etc	Job	44			
16	Fixing of Angle-Iron Brackets, Clamps, Insulators, Shingles & all Accessories for support & hanging of SSA OFC Cables on poles, buildings etc.	Job	180			
17	Construction of Concrete base and installation of FDH cabinet with Earth rods/cable, hooks, locks, painting, numbering & Painting of Monogram & Installation of Cabinet & splitters or ODFs	Job	1			
18	Installation of A4BC Poles with concrete base. steel Band, Earth rods/cable, hooks, locks, painting, numbering & Painting of Monogram & Installation of Poles & splitters or ODFs	Job	5			
19	Construction of RCC Hand Hole (2x2x4) with Cover having marking of NTC	Job	3			
<b>Sub Total Contractor (Services) PKR.</b>						
<b>Summary</b>						
Contractor (Store)						
Contractor (Services)						
<b>Grand Total (Store + Services) PKR.</b>						

**NOTE:**

- \*1 Contractor Store will be pre-fabricated as per telecom industry standards
- \*2 Prior approval by NTC PD for specifications, quality and standards is necessary, before deployment at NTC sites
- \*3 NTC reserves the right to reject sub-standard local made store items during approval phase
- \*4 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

**Section-III: Deployment of GPON Network at Red Zone Islamabad-I****BOQ Summary - 09 x Sites - Red Zone Islamabad-I**

S#	Site Name	Annexures#	Contractor Store (A2)	Contractor Services - (B)	Total Site Amount (PKR)
<b>Section-III: Deployment of GPON Network at Red Zone Islamabad-I</b>					
1	Minister Enclave <i>Outdoor</i>	Annex-C, C1, C2			
2	PM House <i>Indoor+Outdoor</i>				
3	ABCD-Block <i>Indoor</i>				
4	PQRS-Block <i>Indoor</i>				
5	TUV Block <i>Indoor</i>				
6	F-Block BISP <i>Indoor</i>				
7	K-Block <i>Indoor</i>				
8	NTC RHQ F-5/1 <i>Indoor</i>				
9	Cabinet Division <i>Indoor</i>				
	<b>Total Amount (Rs.)</b>				

**NOTE:**

- \*1 Bidders must quote all BOQ items for each Section/ Annexure.
- \*2 NTC reserves the right to increase, decrease, drop BoQ Items solely on its discretion at the time of Contract.
- \*3 Prior approval by NTC PD for specifications, quality and standards is necessary, before deployment at NTC sites
- \*4 NTC reserves the right to reject sub-standard local made store items during approval phase

## Section-III: Deployment of GPON Network at Red Zone Islamabad-I

## BOQ - 09 x Sites - Red Zone Islamabad-I - Laying GPON Distribution Network

S#	Description	Specs	Unit	Total Quantity <i>09 x Iba-1 LHS Sites</i>	Unit Price without GST / PST (PKR)	Unit Price with GST PST (PKR)	Total amount (PKR)
<b>NTC Store (A1)</b>							
1	Optical Fiber Cable 48 Fibers (Duct buried , Single Mode, G.652D)	NTC approved Specifications	meter	2,000	To be provided by NTC		
2	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)		meter	14,100			
3	Optical Fiber Cable 12 Fibers (Duct buried , Single Mode, G.652D)		meter	16,200			
4	Optical Fiber Cable 6 Fibers (Duct buried , Single Mode, G.652D)		meter	18,300			
5	Aerial Optical Fiber Cable 48 Fibers (Single Mode, G.652D)		meter	-			
6	Aerial Optical Fiber Cable 24 Fibers (Single Mode, G.652D)		meter	-			
7	Aerial Optical Fiber Cable 12 Fibers (Single Mode, G.652D)		meter	-			
8	Aerial Optical Fiber Cable 6 Fibers (Single Mode, G.652D)		meter	1,000			
9	Drop Fiber 2 Fiber (Outdoor Type, Single Mode, G.652D)		meter	18,200			
10	Joint Enclosure (48-Fiber) with accessories		No.	2			
11	Joint Enclosure (24-Fiber) with accessories		No.	50			
12	Joint Enclosure (12-Fiber) with accessories		No.	46			
13	Joint Enclosure (6-Fiber) with accessories		No.	29			
<b>Contractor Store (A2)</b>							
1	Indoor Fiber Distribution Cabinet (FDH) - 19-inch rack enclosure , fully pre-loaded with <b>144 ports</b> tray-type ODFs & Optical Splitters 2:2, 2:4, 2:8 as per site requirement with capacity up to 144 SC/LC ports. Suitable for server rooms or telecom closets; allows patching, fiber management, and modular expansion. <u>Indoor-type:</u> Designed for compact installation in telecom rooms. Lightweight, with front-access ODF trays for easy patching. Optimized for co-location with MSAG or other active equipment. Includes ventilation provisions and removable trays.	NTC approved Specifications	No	15			
2	Fiber Distribution Hub (FDH) Factory-assembled with a total capacity of <b>144 fiber ports</b> , fully populated with 144-ports tray-type Optical Distribution Frames (ODFs) and <b>optical splitters</b> (e.g., 2:2, 2:4, 2:8), as per site-specific design requirements. Includes all necessary allied accessories for fiber management. <u>Outdoor-type:</u> Constructed using IP65-rated weatherproof and dustproof materials. Equipped with UV-protected, corrosion-resistant body. Suitable for pole-mounting or plinth installations. Includes lockable doors and cable feedthrough seals.		No	1			
3	Fiber Distribution Hub (FDH) Factory-assembled with a total capacity of <b>96 fiber ports</b> , fully populated with 96-ports tray-type Optical Distribution Frames (ODFs) and <b>optical splitters</b> (e.g., 2:2, 2:4, 2:8), as per site-specific design requirements. Includes all necessary allied accessories for fiber management. <u>Outdoor-type:</u> Constructed using IP65-rated weatherproof and dustproof materials. Equipped with UV-protected, corrosion-resistant body. Suitable for pole-mounting or plinth installations. Includes lockable doors and cable feedthrough seals.		No	5			
4	Fiber Access Terminal (FAT) with <b>1:32 Splitter</b> & allied accessories (Wall Mount / Pole Mount/ Rack mount)		No	136			
5	Fiber Access Terminal (FAT) with <b>1:16 Splitter</b> & allied accessories (Wall Mount / Pole Mount/ Rack mount)		No	55			
6	Fiber Access Terminal (FAT) with <b>1:8 Splitter</b> & allied accessories (Wall Mount / Pole Mount/ Rack mount)		No	25			
7	Optical Spilitter 1:2 with accessories		No	1			
8	Optical Spilitter 1:4 with accessories		No	1			
9	Optical Spilitter 1:8 with accessories		No	1			
10	Optical Spilitter 1:16 with accessories		No	1			
11	Optical Spilitter 1:32 with accessories		No	1			
12	ODF 48-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtails complete (Rack-mount Indoor 'or' Wall mount )		No	11			

## Section-III: Deployment of GPON Network at Red Zone Islamabad-I

## BOQ - 09 x Sites - Red Zone Islamabad-I - Laying GPON Distribution Network

S#	Description	Specs	Unit	Total Quantity 09 x Iba-1 LHS Sites	Unit Price without GST / PST (PKR)	Unit Price with GST PST (PKR)	Total amount (PKR)
13	ODF 24-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtailed complete (Rack-mount Indoor 'or' Wall mount )		No	26			
14	ODF 12-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtailed complete (Rack-mount Indoor 'or' Wall mount )		No	2			
15	ODF 06-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtailed complete (Rack-mount Indoor 'or' Wall mount )		No	25			
16	Access Termination Box (ATB) - ODF 02-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters & pigtailed complete		No	866			
17	Optical Patch Cord with connectors 3M, SC/SC, FC/PC, FC/SC, FC/LC, LC/LC		No	588			
18	Optical Patch Cord with connectors 10M, SC/SC, FC/PC, FC/SC, FC/LC for interconnectivity of OLT with ODFs		No	32			
19	HDPE pipe 3" dia Thickness 3mm		meter	1			
20	HDPE pipe 2" dia Thickness 3mm		meter	5,343			
21	HDPE Pipe 1" dia with fixing material		meter	2,100			
22	Flexible Steel Pipe 2" dia (including fitting)		meter	15			
23	Flexible Steel Pipe 1" dia (including fitting)		meter	13,283			
24	Flexible Plastic Pipe 1" dia (including fitting)		meter	5			
25	GI Pipe 3" 2mm thick with fixing material		meter	70			
26	GI Pipe 2" 2mm thick with fixing material		meter	3			
27	GI Pipe 1" dia 2mm thick with fixing material		meter	9			
28	Duct Patti 2" dia (including fitting)		meter	800			
29	Duct Patti 1" dia (including fitting)		meter	2,120			
30	Field Installable Connector with Mechanical Splice and SC Adapter for drop wire termination		No	866			
31	A4BC Poles with Brackets, U-Clamps for hanging of OFC Cables		No	1			
32	Angle-Iron Brackets, Clamps, Insulators, Shingles & all Accessories for support & hanging of SSA OFC Cables on poles, buildings etc.		Set	1			
33	RCC Route /Joint Indicator RCC with engraved NTC Monogram		No	18			
34	Warning Tape with NTC Monogram		meter	5,180			
<b>Total Contractor Store (A2)</b>							

NTC approved Specifications

S#	Description	Specs	Unit	Total Quantity	Unit Price without GST / PST (PKR)	Unit Price with GST PST (PKR)	Total amount (PKR)
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**Contractor Services (B)**

1	Marking and Excavation in <b>Kacha</b> , Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC (as per policy of concerned authority)		meter	3,950			
2	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC Charges (as per policy of concerned authority)		meter	1,168			
3	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site (as per policy of concerned authority)		meter	268			
4	<b>Thrust Boring</b> ((5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site(as per policy of concerned authority)		meter	2			
5	<b>Road Cut</b> with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC(as per policy of concerned authority)		meter	62			

NTC approved Specifications

## Section-III: Deployment of GPON Network at Red Zone Islamabad-I

## BOQ - 09 x Sites - Red Zone Islamabad-I - Laying GPON Distribution Network

S#	Description	Specs	Unit	Total Quantity 09 x Iba-1 LHS Sites	Unit Price without GST / PST (PKR)	Unit Price with GST PST (PKR)	Total amount (PKR)
6	Repair of Pacca (PCC / Re-instatement of Tuff Tiles)		meter	1,168			
7	Joint Splicing of OFC Cables		Fiber	1,604			
8	Termination Splicing of OFC Cables		Fiber	2,066			
9	Cleaning, Roding and Pulling of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench (length of existing trench or duct will be measured)		meter	14,501			
10	Hanging, Pulling & Attachment of Aerial OFC Overhead on Wall / Pole/ Roof / Building etc. (length of route will be measured point-to-point)		meter	1,000			
11	Fixing of Angle-Iron Brackets, Clamps, Insulators, Shingles & all Accessories for support & hanging of Aerial OFC Cables on poles, buildings etc.		Job	1			
12	Construction of Concrete base and installation of FDH cabinet with Earth rods/cable, hooks, locks, painting, numbering & Painting of Monogram & Installation of Cabinet & splitters or ODFs		Job	6			
13	Installation of 42U Indoor Rack for ODFs, provision and connectivity of Earth Cable with earth Bar		Job	15			
14	Attachement & Fixing of GI pipe / HDPE pipe /Flexible pipe/ Duct Patti with pulling of OFC cable inside pipe / ducts including required accessories/material wall drilling etc		meter	16,305			
15	Installation and fixing of FATs, ODFs, ATBs on walls, in racks, cabinets or MSAG Rack including required accessories etc		Job	1,151			
16	Construction of RCC Hand Hole with cover (3' x '3 x 4' ft) or Supply & fixing of Pre-Fabricated Handhole including fixtures for clamping as per telecom standard & specifications alongwith transportation to site, fixing of handhole. with Coiling and clamping of OFC Cable and numbering as per approved nomenclature		Job	15			
17	Surveys, Planning and design of optimal GPON network based on onground routes, customers locations and site conditions. Provision of proposed GPON schematic diagram with locations of Splitters, FDHs, FATs, NAPs, and ATBs for vetting and approval of NTC before implementation.		Job	9			
18	Preparation and Provision of As-built line diagrams, route diagrams and pin-to-Port diagrams & tagging of Splitters, FDHs, FATs, NAPs, and ATBs of deployed GPON network		Job	9			
<b>Total Contractor Services (B)</b>							
<b>Summary</b>							
NTC Store - (A1)							
Contractor Store - (A2)							
Contractor Services - (B)							
<b>Grand Total (PKR)</b>							

**NOTE:**

- \*1 Contractor Store will be pre-fabricated as per telecom industry standards
- \*2 Prior approval by NTC PD for specifications, quality and standards is necessary, before deployment at NTC sites
- \*3 NTC reserves the right to reject sub-standard local made store items during approval phase
- \*4 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment
- \*5 ROW charges from external roadside areas have been removed as per CDA letter No. CDA/PLW-RP-1(2)/(Genl)/2025/340 dated 13-08-2025 (Subject: Non-collection of Right of Way (ROW) charges for Development / Installation of I.T and I.T related infrastructure / Fiberization in the light of PM's directive)

## Section-III: Deployment of GPON Network at Red Zone Islamabad-I

## Site-wise BOQ - 09 x Sites - Red Zone Islamabad-I - Laying GPON Distribution Network

S#	Description	Specs	Unit	1. Minister Enclave Outdoor	2. PM House Indoor	3. ABCD-Block Indoor	4. PQRS-Block Indoor	5. TUV Block Indoor	6. F-Block BISP Indoor	7. K-Block Indoor	8. NTC RHQ F-5/1	9. Cabinet Division	Total Quantity
<b>NTC Store (A1)</b>													
1	Optical Fiber Cable 48 Fibers (Duct buried , Single Mode, G.652D)		meter	-	1,500	-	-	500	-	-	-	-	2,000
2	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)		meter	1,500	-	2,000	2,000	3,000	2,000	2,000	500	1,100	14,100
3	Optical Fiber Cable 12 Fibers (Duct buried , Single Mode, G.652D)		meter	2,500	-	2,000	2,000	3,000	2,000	2,000	1,500	1,200	16,200
4	Optical Fiber Cable 6 Fibers (Duct buried , Single Mode, G.652D)		meter	2,600	-	6,000	6,000	1,000	500	500	500	1,200	18,300
5	Aerial Optical Fiber Cable 48 Fibers (Single Mode, G.652D)		meter	-	-	-	-	-	-	-	-	-	-
6	Aerial Optical Fiber Cable 24 Fibers (Single Mode, G.652D)		meter	-	-	-	-	-	-	-	-	-	-
7	Aerial Optical Fiber Cable 12 Fibers (Single Mode, G.652D)		meter	-	-	-	-	-	-	-	-	-	-
8	Aerial Optical Fiber Cable 6 Fibers (Single Mode, G.652D)		meter	-	1,000	-	-	-	-	-	-	-	1,000
9	Drop Fiber 2 Fiber (Outdoor Type, Single Mode, G.652D)		meter	1,000	500	4,000	3,000	7,000	500	400	500	1,300	18,200
10	Joint Enclosure (48-Fiber) with accessories		No.	-	2	-	-	-	-	-	-	-	2
11	Joint Enclosure (24-Fiber) with accessories		No.	2	-	2	2	20	-	-	-	24	50
12	Joint Enclosure (12-Fiber) with accessories		No.	6	-	2	2	-	4	4	4	24	46
13	Joint Enclosure (6-Fiber) with accessories		No.	-	2	-	-	-	9	9	9	-	29

Description	1. Minister Enclave Outdoor	2. PM House Indoor	3. ABCD-Block Indoor	4. PQRS-Block Indoor	5. TUV Block Indoor	6. F-Block BISP Indoor	7. K-Block Indoor	8. NTC RHQ F-5/1	9. Cabinet Division	Total Quantity		
<b>Contractor Store (A2)</b>												
1	Indoor Fiber Distribution Cabinet (FDH) - 19-inch rack enclosure , fully pre-loaded with <b>144 ports</b> tray-type ODFs & Optical Splitters 2:2, 2:4, 2:8 as per site requirement with capacity up to 144 SC/LC ports. Suitable for server rooms or telecom closets; allows patching, fiber management, and modular expansion. <u>Indoor-type:</u> Designed for compact installation in telecom rooms. Lightweight, with front-access ODF trays for easy patching. Optimized for co-location with MSAG or other active equipment. Includes ventilation provisions and removable trays.	No	-	2	3	3	2	1	2	1	1	15
2	Outdoor Fiber Distribution Hub (FDH) Factory-assembled with a total capacity of <b>144 fiber ports</b> , fully populated with 144-ports tray-type Optical Distribution Frames (ODFs) and <b>optical splitters</b> (e.g., 2:2, 2:4, 2:8), as per site-specific design requirements. Includes all necessary allied accessories for fiber management. <u>Outdoor-type:</u> Constructed using IP65-rated weatherproof and dustproof materials. Equipped with UV-protected, corrosion-resistant body. Suitable for pole mounting or plinth installations. Includes lockable doors and cable feedthrough seals.	No	1	-	-	-	-	-	-	-	-	1
3	Outdoor Fiber Distribution Hub (FDH) Factory-assembled with a total capacity of <b>96 fiber ports</b> , fully populated with 96-ports tray-type Optical Distribution Frames (ODFs) and <b>optical splitters</b> (e.g., 2:2, 2:4, 2:8), as per site-specific design requirements. Includes all necessary allied accessories for fiber management. <u>Outdoor-type:</u> Constructed using IP65-rated weatherproof and dustproof materials. Equipped with UV-protected, corrosion-resistant body. Suitable for pole mounting or plinth installations. Includes lockable doors and cable feedthrough seals.	No	-	-	1	1	-	1	1	1	-	5
4	Fiber Access Terminal (FAT) with <b>1:32 Splitter</b> & allied accessories (Wall Mount / Pole Mount/ Rack mount)	No	-	-	48	48	40	-	-	-	-	136
5	Fiber Access Terminal (FAT) with <b>1:16 Splitter</b> & allied accessories (Wall Mount / Pole Mount/ Rack mount)	No	-	-	-	-	-	11	11	9	24	55

## Section-III: Deployment of GPON Network at Red Zone Islamabad-I

## Site-wise BOQ - 09 x Sites - Red Zone Islamabad-I - Laying GPON Distribution Network

S#	Description	Specs	Unit	1. Minister Enclave Outdoor	2. PM House Indoor	3. ABCD-Block Indoor	4. PQRS-Block Indoor	5. TUV Block Indoor	6. F-Block BISP Indoor	7. K-Block Indoor	8. NTC RHQ F-5/1	9. Cabinet Division	Total Quantity	
6	Fiber Access Terminal (FAT) with 1:8 Splitter & allied accessories (Wall Mount / Pole Mount/ Rack mount)	NTC approved Specifications	No	13	12	-	-	-	-	-	-	-	25	
7	Optical Splitter 1:2 with accessories		No	1	-	-	-	-	-	-	-	-	1	
8	Optical Splitter 1:4 with accessories		No	1	-	-	-	-	-	-	-	-	1	
9	Optical Splitter 1:8 with accessories		No	1	-	-	-	-	-	-	-	-	1	
10	Optical Splitter 1:16 with accessories		No	1	-	-	-	-	-	-	-	-	1	
11	Optical Splitter 1:32 with accessories		No	1	-	-	-	-	-	-	-	-	1	
12	ODF 48-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtails complete (Rack-mount Indoor 'or' Wall mount)		No	-	1	2	2	5	-	-	-	1	11	
13	ODF 24-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtails complete (Rack-mount Indoor 'or' Wall mount)		No	1	-	4	4	2	4	4	2	5	26	
14	ODF 12-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtails complete (Rack-mount Indoor 'or' Wall mount)		No	-	1	1	-	-	-	-	-	-	2	
15	ODF 06-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtails complete (Rack-mount Indoor 'or' Wall mount)		No	-	-	-	-	20	-	-	-	5	25	
16	Access Termination Box (ATB) - ODF 02-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters & pigtails complete		No	45	15	144	214	273	18	39	18	100	866	
17	Optical Patch Cord with connectors 3M, SC/SC, FC/PC, FC/SC, FC/LC, LC/LC		No	12	12	128	190	100	20	20	16	90	588	
18	Optical Patch Cord with connectors 10M, SC/SC, FC/PC, FC/SC, FC/LC for interconnectivity of OLT with ODFs		No	-	12	4	4	4	2	2	2	2	32	
19	HDPE pipe 3" dia Thickness 3mm		meter	1	-	-	-	-	-	-	-	-	-	1
20	HDPE pipe 2" dia Thickness 3mm		meter	3,343	1,700	100	100	100	-	-	-	-	-	5,343
21	HDPE Pipe 1" dia with fixing material		meter	-	-	-	-	-	500	500	600	500	-	2,100
22	Flexible Steel Pipe 2" dia (including fitting)		meter	15	-	-	-	-	-	-	-	-	-	15
23	Flexible Steel Pipe 1" dia (including fitting)		meter	33	50	3,000	3,000	3,000	1,000	1,000	700	1,500	-	13,283
24	Flexible Plastic Pipe 1" dia (including fitting)		meter	-	-	-	-	-	-	-	-	-	5	5
25	GI Pipe 3" 2mm thick with fixing material		meter	-	70	-	-	-	-	-	-	-	-	70
26	GI Pipe 2" 2mm thick with fixing material		meter	-	3	-	-	-	-	-	-	-	-	3
27	GI Pipe 1" dia 2mm thick with fixing material		meter	6	3	-	-	-	-	-	-	-	-	9
28	Duct Patti 2" dia (including fitting)		meter	100	100	100	100	100	100	100	100	100	-	800
29	Duct Patti 1" dia (including fitting)		meter	130	120	480	480	400	110	110	90	200	-	2,120
30	Field Installable Connector with Mechanical Splice and SC Adapter for drop wire termination		No	45	15	144	214	273	18	39	18	100	-	866
31	A4BC Poles with Brackets, U-Clamps for hanging of OFC Cables		No	1	-	-	-	-	-	-	-	-	-	1
32	Angle-Iron Brackets, Clamps, Insulators, Shingles & all Accessories for support & hanging of SSA OFC Cables on poles, buildings etc.		Set	1	-	-	-	-	-	-	-	-	-	1
33	RCC Route /Joint Indicator RCC with engraved NTC Monogram		No	12	-	2	2	-	1	1	-	-	-	18
34	Warning Tape with NTC Monogram		meter	3,285	125	570	570	-	315	315	-	-	-	5,180

S#	Description	Specs	Unit	1. Minister Enclave Outdoor	2. PM House Indoor	3. ABCD-Block Indoor	4. PQRS-Block Indoor	5. TUV Block Indoor	6. F-Block BISP Indoor	7. K-Block Indoor	8. NTC RHQ F-5/1	9. Cabinet Division	Total Quantity
<b>Contractor Services (B)</b>													
1	Marking and Excavation in Kacha, Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC (as per policy of concerned authority)	NTC approved Specifications	meter	2,520	20	505	505	-	200	200	-	-	3,950
2	Marking and Excavation in Pacca (PCC / Tuff Tiles), Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC (as per policy of concerned authority)		meter	763	85	55	55	-	105	105	-	-	-



**Section-IV: Deployment of GPON Network at Red Zone Islamabad-II****BOQ Summary - 11 x Sites - Red Zone Islamabad-II**

S#	Site Name	Annexures#	Contractor Store (A2)	Contractor Services - (B)	Total Site Amount (PKR)
<b>Section-IV: Deployment of GPON Network at Red Zone Area (Indoor sites), Islamabad</b>					
1	National Assembly <i>Indoor</i>	<b>Annex-D, D1, D2</b>			
2	Supreme Court <i>Indoor</i>				
3	PM Office <i>Indoor</i>				
4	FBR <i>Indoor</i>				
5	Election Commission <i>Outdoor+Indoor</i>				
6	NADRA G-5 <i>Outdoor</i>				
7	Serena <i>Outdoor</i>				
8	PBC Radio Highcourt <i>Indoor+Outdoor</i>				
9	NBP <i>Outdoor</i>				
10	NTC HQs G-5/2 <i>Indoor</i>				
11	PM Staff Offices <i>Outdoor</i>				
<b>Total Amount (Rs.)</b>					

**NOTE:**

- \*1 Bidders must quote all BOQ items for each Section/ Annexure.
- \*2 NTC reserves the right to increase, decrease, drop BoQ Items solely on its discretion at the time of Contract.
- \*3 Prior approval by NTC PD for specifications, quality and standards is necessary, before deployment at NTC sites
- \*4 NTC reserves the right to reject sub-standard local made store items during approval phase

## Section-IV: Deployment of GPON Network at Red Zone Islamabad-II

## BOQ - 11 x Sites - Red Zone Islamabad-II - Laying GPON Distribution Network

S#	Description	Specs	Unit	Total Quantity <i>11 x Iba-II RHS Sites</i>	Unit Price without GST/ PST (PKR)	Unit Price with GST PST (PKR)	Total amount (PKR)
<b>NTC Store (A1)</b>							
1	Optical Fiber Cable 48 Fibers (Duct buried , Single Mode, G.652D)	NTC approved Specifications	meter	8,200	To be provided by NTC		
2	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)		meter	6,300			
3	Optical Fiber Cable 12 Fibers (Duct buried , Single Mode, G.652D)		meter	6,500			
4	Optical Fiber Cable 6 Fibers (Duct buried , Single Mode, G.652D)		meter	6,200			
5	Aerial Optical Fiber Cable 48 Fibers (Single Mode, G.652D)		meter	1,000			
6	Aerial Optical Fiber Cable 24 Fibers (Single Mode, G.652D)		meter	800			
7	Aerial Optical Fiber Cable 12 Fibers (Single Mode, G.652D)		meter	1,900			
8	Aerial Optical Fiber Cable 6 Fibers (Single Mode, G.652D)		meter	5,600			
9	Drop Fiber 2 Fiber (Outdoor Type, Single Mode, G.652D)		meter	10,300			
10	Joint Enclosure (48-Fiber) with accessories		No.	12			
11	Joint Enclosure (24-Fiber) with accessories		No.	64			
12	Joint Enclosure (12-Fiber) with accessories		No.	15			
13	Joint Enclosure (6-Fiber) with accessories		No.	55			
<b>Contractor Store (A2)</b>							
1	Indoor Fiber Distribution Cabinet (FDH) - 19-inch rack enclosure , fully pre-loaded with <b>144 ports</b> tray-type <b>ODFs</b> & Optical Splitters 2:2, 2:4, 2:8 as per site requirement with capacity up to 144 SC/LC ports. Suitable for server rooms or telecom closets; allows patching, fiber management, and modular expansion. <u>Indoor-type:</u> Designed for compact installation in telecom rooms. Lightweight, with front-access ODF trays for easy patching. Optimized for co-location with MSAG or other active equipment. Includes ventilation provisions and removable trays.	NTC approved Specifications	No	7			
2	Fiber Distribution Hub (FDH) Factory-assembled with a total capacity of <b>144 fiber ports</b> , fully populated with 144-ports tray-type Optical Distribution Frames (ODFs) and <b>optical splitters</b> (e.g., 2:2, 2:4, 2:8), as per site-specific design requirements. Includes all necessary allied accessories for fiber management. <u>Outdoor-type:</u> Constructed using IP65-rated weatherproof and dustproof materials. Equipped with UV-protected, corrosion-resistant body. Suitable for pole-mounting or plinth installations. Includes lockable doors and cable feedthrough seals.		No	3			
3	Fiber Distribution Hub (FDH) Factory-assembled with a total capacity of <b>96 fiber ports</b> , fully populated with 96-ports tray-type Optical Distribution Frames (ODFs) and <b>optical splitters</b> (e.g., 2:2, 2:4, 2:8), as per site-specific design requirements. Includes all necessary allied accessories for fiber management. <u>Outdoor-type:</u> Constructed using IP65-rated weatherproof and dustproof materials. Equipped with UV-protected, corrosion-resistant body. Suitable for pole-mounting or plinth installations. Includes lockable doors and cable feedthrough seals.		No	5			
4	Fiber Access Terminal (FAT) with <b>1:32 Splitter</b> & allied accessories (Wall Mount / Pole Mount/ Rack mount)		No	1			
5	Fiber Access Terminal (FAT) with <b>1:16 Splitter</b> & allied accessories (Wall Mount / Pole Mount/ Rack mount)		No	76			
6	Fiber Access Terminal (FAT) with <b>1:8 Splitter</b> & allied accessories (Wall Mount / Pole Mount/ Rack mount)		No	84			
7	Optical Spilitter 1:2 with accessories		No	1			
8	Optical Spilitter 1:4 with accessories		No	1			
9	Optical Spilitter 1:8 with accessories		No	1			
10	Optical Spilitter 1:16 with accessories		No	1			
11	Optical Spilitter 1:32 with accessories		No	1			
7	ODF 48-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtails complete (Rack-mount Indoor 'or' Wall mount )	No	13				

## Section-IV: Deployment of GPON Network at Red Zone Islamabad-II

## BOQ - 11 x Sites - Red Zone Islamabad-II - Laying GPON Distribution Network

S#	Description	Specs	Unit	Total Quantity 11 x Iba-II RHS Sites	Unit Price without GST/ PST (PKR)	Unit Price with GST PST (PKR)	Total amount (PKR)
8	ODF 24-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtailed complete (Rack-mount Indoor 'or' Wall mount )		No	22			
9	ODF 12-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtailed complete (Rack-mount Indoor 'or' Wall mount )		No	2			
10	ODF 06-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtailed complete (Rack-mount Indoor 'or' Wall mount )		No	2			
11	Access Termination Box (ATB) - ODF 02-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters & pigtailed complete		No	468			
12	Optical Patch Cord with connectors 3M, SC/SC, FC/PC, FC/SC, FC/LC, LC/LC		No	392			
13	Optical Patch Cord with connectors 10M, SC/SC, FC/PC, FC/SC, FC/LC for interconnectivity of OLT with ODFs		No	93			
14	HDPE pipe 3" dia Thickness 3mm		meter	5			
15	HDPE pipe 2" dia Thickness 3mm		meter	7,430			
16	HDPE Pipe 1" dia with fixing material		meter	2,515			
17	Flexible Steel Pipe 2" dia (including fitting)		meter	185			
18	Flexible Steel Pipe 1" dia (including fitting)		meter	7,472			
19	Flexible Plastic Pipe 1" dia (including fitting)		meter	5			
25	GI Pipe 3" 2mm thick with fixing material		meter	1			
26	GI Pipe 2" 2mm thick with fixing material		meter	10			
20	GI Pipe 1" dia 2mm thick with fixing material		meter	50			
21	Duct Patti 2" dia (including fitting)		meter	920			
22	Duct Patti 1" dia (including fitting)		meter	2,050			
23	Field Installable Connector with Mechanical Splice and SC Adapter for drop wire termination		No	468			
31	A4BC Poles with Brackets, U-Clamps for hanging of OFC Cables		No	9			
24	Angle-Iron Brackets, Clamps, Insulators, Shingles & all Accessories for support & hanging of SSA OFC Cables on poles, buildings etc.		Set	20			
25	RCC Route /Joint Indicator RCC with engraved NTC Monogram		No	41			
26	Warning Tape with NTC Monogram		meter	5,047			
<b>Total Contractor Store (A2)</b>							

NTC approved Specifications

S#	Description	Specs	Unit	Total Quantity	Unit Price without GST/ PST (PKR)	Unit Price with GST PST (PKR)	Total amount (PKR)
<b>Contractor Services (B)</b>							
1	Marking and Excavation in <b>Kacha</b> , Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC (as per policy of concerned authority)		meter	3,257			
2	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC Charges (as per policy of concerned authority)		meter	1,191			
3	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site (as per policy of concerned authority)		meter	355			
4	<b>Thrust Boring</b> ((5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site(as per policy of concerned authority)		meter	1			

NTC approved Specifications

## Section-IV: Deployment of GPON Network at Red Zone Islamabad-II

## BOQ - 11 x Sites - Red Zone Islamabad-II - Laying GPON Distribution Network

S#	Description	Specs	Unit	Total Quantity 11 x Iba-II RHS Sites	Unit Price without GST/ PST (PKR)	Unit Price with GST PST (PKR)	Total amount (PKR)	
4	Road Cut with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC (as per policy of concerned authority)	NTC approved Specifications	meter	147				
5	Repair of Pacca (PCC / Re-instatement of Tuff Tiles)		meter	1,191				
6	Joint Splicing of OFC Cables		Fiber	1,610				
7	Termination Splicing of OFC Cables		Fiber	2,505				
8	Cleaning, Roding and Pulling of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench (length of existing trench or duct will be measured)		meter	9,220				
9	Hanging, Pulling & Attachment of Aerial OFC Overhead on Wall / Pole/ Roof / Building etc. (length of route will be measured point-to-point)		meter	7,400				
10	Fixing of Angle-Iron Brackets, Clamps, Insulators, Shingles & all Accessories for support & hanging of Aerial OFC Cables on poles, buildings etc.		Job	20				
11	Construction of Concrete base and installation of FDH cabinet with Earth rods/cable, hooks, locks, painting, numbering & Painting of Monogram & Installation of Cabinet & splitters or ODFs		Job	8				
12	Installation of 42U Indoor Rack for ODFs, provision and connectivity of Earth Cable with earth Bar		Job	7				
13	Attachement & Fixing of GI pipe / HDPE pipe / Flexible pipe/ Duct Patti with pulling of OFC cable inside pipe / ducts including required accessories/ material wall drilling etc		meter	10,693				
14	Installation and fixing of FATs, ODFs, ATBs on walls, in racks, cabinets or MSAG Rack including required accessories etc		Job	673				
15	Construction of RCC Hand Hole with cover (3' x 3 x 4' ft) or Supply & fixing of Pre-Fabricated Handhole including fixtures for clamping as per telecom standard & specifications alongwith transportation to site, fixing of handhole. with Coiling and clamping of OFC Cable and numbering as per approved nomenclature		Job	31				
16	Surveys, Planning and design of optimal GPON network based on onground routes, customers locations and site conditions. Provision of proposed GPON schematic diagram with locations of Splitters, FDHs, FATs, NAPs, and ATBs for vetting and approval of NTC before implementation.		Job	11				
17	Preparation and Provision of As-built line diagrams, route diagrams and pin-to-Port diagrams & tagging of Splitters, FDHs, FATs, NAPs, and ATBs of deployed GPON network		Job	11				
<b>Total Contractor Services (B)</b>								
<b>Summary</b>								
NTC Store - (A1)								
Contractor Store - (A2)								
Contractor Services - (B)								
<b>Grand Total (PKR)</b>								

## NOTE:

- \*1 Contractor Store will be pre-fabricated as per telecom industry standards
- \*2 Prior approval by NTC PD for specifications, quality and standards is necessary, before deployment at NTC sites
- \*3 NTC reserves the right to reject sub-standard local made store items during approval phase
- \*4 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment
- \*5 ROW charges from external roadside areas have been removed as per CDA letter No. CDA/PLW-RP-1(2)/(Genl)/2025/340 dated 13-08-2025 (Subject: Non-collection of Right of Way (ROW) charges for Development / Installation of I.T and I.T related infrastructure / Fiberization in the light of PM's directive)







**Section-V: Deployment of GPON Network at PM Staff Colony, Islamabad****BOQ - PM Staff Colony Site Summary**

<b>S#</b>	<b>Site Name</b>	<b>Annexures#</b>	<b>Contractor Store (A2)</b>	<b>Contractor Services - (B)</b>	<b>Total Site Amount (PKR)</b>
<b>Section-V: Deployment of GPON Network at PM Staff Colony, Islamabad</b>					
1	PM Staff Colony <i>Residential Outdoor</i>	Annex-E, E1			
<b>Total Amount (Rs.)</b>					

**NOTE:**

- \*1 Bidders must quote all BOQ items for each Section/ Annexure.
- \*2 NTC reserves the right to increase, decrease, drop BoQ Items solely on its discretion at the time of Contract.
- \*3 Prior approval by NTC PD for specifications, quality and standards is necessary, before deployment at NTC sites
- \*4 NTC reserves the right to reject sub-standard local made store items during approval phase

## Section-V: Deployment of GPON Network at PM Staff Colony, Islamabad

## BOQ - PM Staff Colony Site - Laying GPON Distribution Network

S#	Description	Specs	Unit	Quantity <i>PM Staff Colony Residential</i>	Unit Price without GST / PST (PKR)	Unit Price with GST PST (PKR)	Total amount (PKR)
<b>NTC Store (A1)</b>							
1	Optical Fiber Cable 96 Fibers (Duct buried, Single Mode, G.652D)	NTC approved Specifications	meter	200			
2	Optical Fiber Cable 48 Fibers (Duct buried , Single Mode, G.652D)		meter	2,000			
3	Optical Fiber Cable 24 Fibers (Duct buried , Single Mode, G.652D)		meter	500			
4	Optical Fiber Cable 12 Fibers (Duct buried , Single Mode, G.652D)		meter	2,500			
5	Drop Fiber 2 Fiber (Outdoor Type, Single Mode, G.652D)		meter	10,000			
6	Joint Enclosure (48-Fiber) with accessories		No.	27			
7	Joint Enclosure (24-Fiber) with accessories		No.	6			
<b>Contractor Store (A2)</b>							
	<b>Description</b>			<b>Quantity <i>PM Staff Colony Residential</i></b>	<b>Unit Price without GST / PST (PKR)</b>	<b>Unit Price with GST PST (PKR)</b>	<b>Total amount (PKR)</b>
1	Fiber Distribution Hub (FDH) (Weatherproof IP65 or higher, Metal Enclosure) pre-fabricated Cabinet, pre-loaded with <b>144-Fiber ODFs</b> , SC/APC Adapters & Pigails, Splice trays, Cable Management Accessories and <b>Optical Splitters: 2:4 x 4 No. &amp; 2:8 x 1 No.</b> or as per site requirement, with complete allied accessories (Outdoor Type). Includes all necessary allied accessories for fiber management. <b>Outdoor-type:</b> Constructed using IP65-rated weatherproof and dustproof materials. Equipped with UV-protected, corrosion-resistant body. Suitable for plinth installations. Includes lockable doors and cable feedthrough seals.	NTC approved Specifications	No	1			
2	Fiber Access Terminal (FAT) with <b>2:8 Splitter</b> & allied accessories (Wall Mount / Pole Mount/ Rack mount)		No	54			
3	Optical Spilitter 1:2 with accessories		No	2			
4	Optical Spilitter 1:8 with accessories		No	2			
5	ODF 96-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtails complete (Rack-mount Indoor 'or' Wall mount )		No	1			
6	ODF 48-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters and pigtails complete (Rack-mount Indoor 'or' Wall mount )		No	1			
7	Access Termination Box (ATB) - ODF 02-Fiber Pre loaded with accessories SC/SC, FC/LC, FC/PC, FC/SC, with adapters & pigtails complete		No	300			
8	Optical Patch Cord with connectors 3M, SC/SC, FC/PC, FC/SC, FC/LC, LC/LC		No	100			
9	Optical Patch Cord with connectors 10M, SC/SC, FC/PC, FC/SC, FC/LC for interconnectivity of OLT with ODFs		No	6			
10	HDPE pipe 2" dia Thickness 3mm		meter	2,108			
11	HDPE Pipe 1" dia with fixing material		meter	1,952			
12	Flexible Steel Pipe 1" dia (including fitting)		meter	1,000			
13	GI Pipe 2" 2mm thick with fixing material		meter	10			
14	GI Pipe 1" dia 2mm thick with fixing material		meter	10			
15	Duct Patti 2" dia (including fitting)		meter	100			
16	Duct Patti 1" dia (including fitting)		meter	7,000			
17	Field Installable Connector with Mechanical Splice and SC Adapter for drop wire termination		No	300			
18	RCC Route /Joint Indicator RCC with engraved NTC Monogram		No	20			
19	Warning Tape with NTC Monogram		meter	3,800			
<b>Total Contractor Store (A2)</b>							
<b>Contractor Services (B)</b>							
1	Marking and Excavation in <b>Kacha</b> , Trench <b>4ft x 1.25ft</b> dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC ( <i>as per policy of concerned authority</i> )	Specifications	meter	3,500			

## Section-V: Deployment of GPON Network at PM Staff Colony, Islamabad

## BOQ - PM Staff Colony Site - Laying GPON Distribution Network

S#	Description	Specs	Unit	Quantity <i>PM Staff Colony Residential</i>	Unit Price without GST / PST (PKR)	Unit Price with GST PST (PKR)	Total amount (PKR)
2	Marking and Excavation in <b>Pacca</b> (PCC / Tuff Tiles), Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, back-filling, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC (as per policy of concerned authority)	NTC approved	meter	300			
3	<b>Road Boring</b> (5ft beneath road), Laying of Cable or cables/ Laying of HDPE pipe if any & pulling of cable as required at site (as per policy of concerned authority)	NTC approved Specifications	meter	60			
4	<b>Road Cut</b> with reinstatement Trench 4ft x 1.25ft dimensions, Laying of HDPE pipe at 4ft, pulling of OFC cable, disposal of surplus soil, dressing & compacting the soil, proper dumping of joint etc as per standard and specification of NTC (as per policy of concerned authority)		meter	200			
5	<b>Repair of Pacca</b> (PCC / Re-instatement of Tuff Tiles)		meter	300			
6	Joint Splicing of OFC Cables		Fiber	1,440			
7	Termination Splicing of OFC Cables		Fiber	852			
8	Cleaning, Roding and <b>Pulling</b> of OFC Cables through old existing ducts or pulling of additional OFC Cables through new duct/ pipe in common trench (length of existing trench or duct will be measured)		meter	600			
9	Construction of <b>Concrete base</b> and installation of Outdoor FDH cabinet with Earth rods/cable, hooks, locks, painting, numbering & Painting of Monogram & Installation of Cabinet & splitters or ODFs		Job	1			
10	<b>Attachment</b> & Fixing of Flexible pipe, GI pipe / HDPE pipe / Flexible pipe/ Duct Patti with pulling of OFC cable inside pipe / ducts including required accessories/material wall drilling etc		meter	1,020			
11	Installation and <b>fixing</b> of FATs, ODFs, ATBs on walls, or in 42U cabinet & MSAG Rack including required accessories etc		No	60			
12	Construction of RCC HandHole with cover or Supply & fixing of Pre-Fabricated <b>Handhole</b> (3' x 3 x 4' ft) including fixtures for clamping as per telecom standard & specifications alongwith transportation to site, fixing of handhole. with Coiling and clamping of OFC Cable and numbering as per approved nomenclature		No	30			
13	Preparation and Provision of As-built line diagrams, route diagrams and pin-to-Port diagrams & tagging of Splitters, FDHs, FATs, NAPs, and ATBs of deployed GPON network	Job	1				
<b>Total Contractor Services (B)</b>							
<b>Summary</b>							
Contractor Store - (A2)							
Contractor Services - (B)							
<b>Grand Total (PKR)</b>							

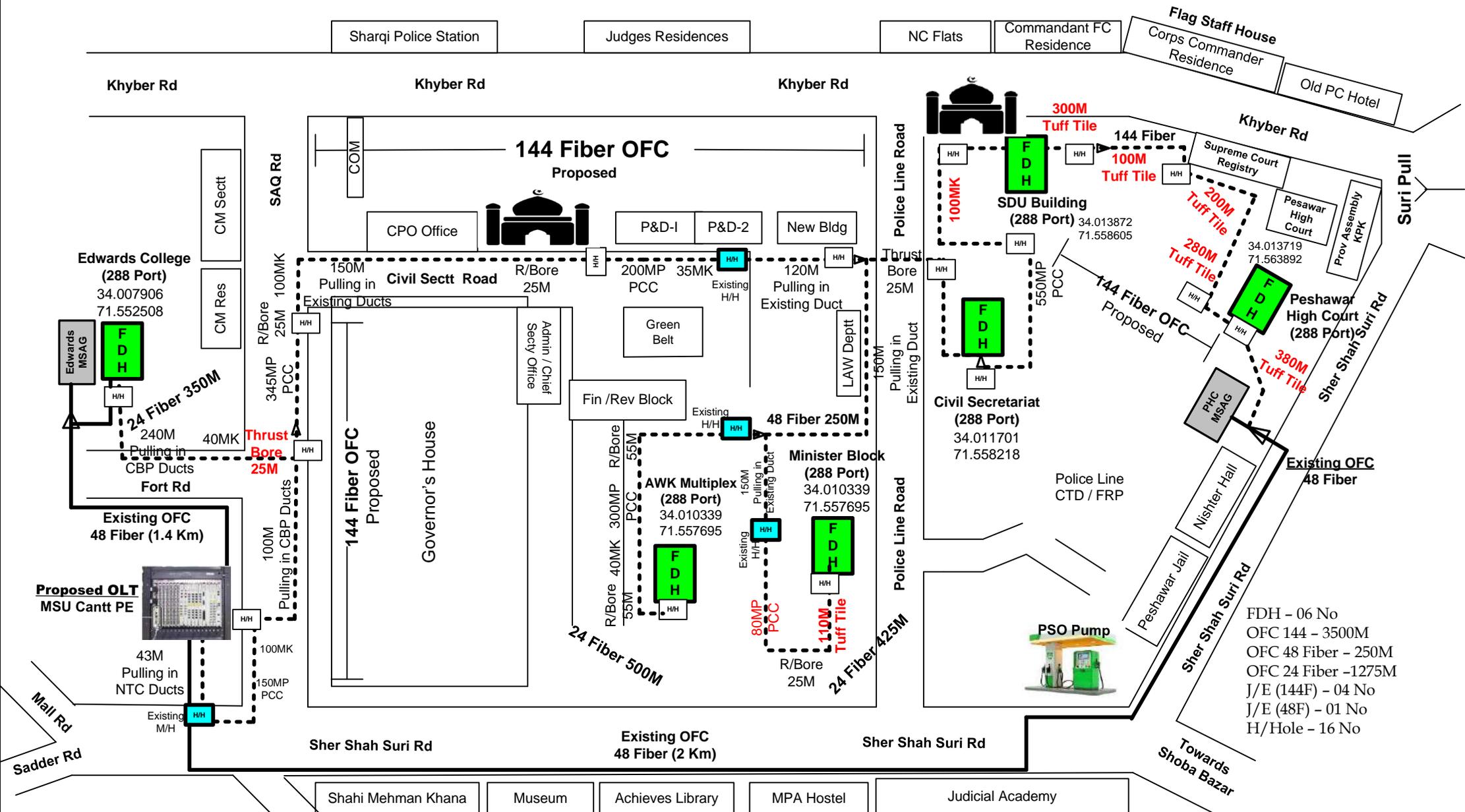
**NOTE:**

- \*1 Contractor Store will be pre-fabricated as per telecom industry standards
- \*2 Prior approval by NTC PD for specifications, quality and standards is necessary, before deployment at NTC sites
- \*3 NTC reserves the right to reject sub-standard local made store items during approval phase
- \*4 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment
- \*5 ROW charges from external roadside areas have been removed as per CDA letter No. CDA/PLW-RP-1(2)/(Genl)/2025/340 dated 13-08-2025 (Subject: Non-collection of Right of Way (ROW) charges for Development / Installation of I.T and I.T related infrastructure / Fiberization in the light of PM's directive)

**ANNEX-G1 to G7, H1, I1 to I9, J1, to J11, K1: DRAWINGS**

# Feeder Cable - (From OLT to 6 x FDHs)

### Laying of 144 Fiber Feeder Cable - Primary Network Regarding Deployment of GPON Based Network at Peshawar Cantt:

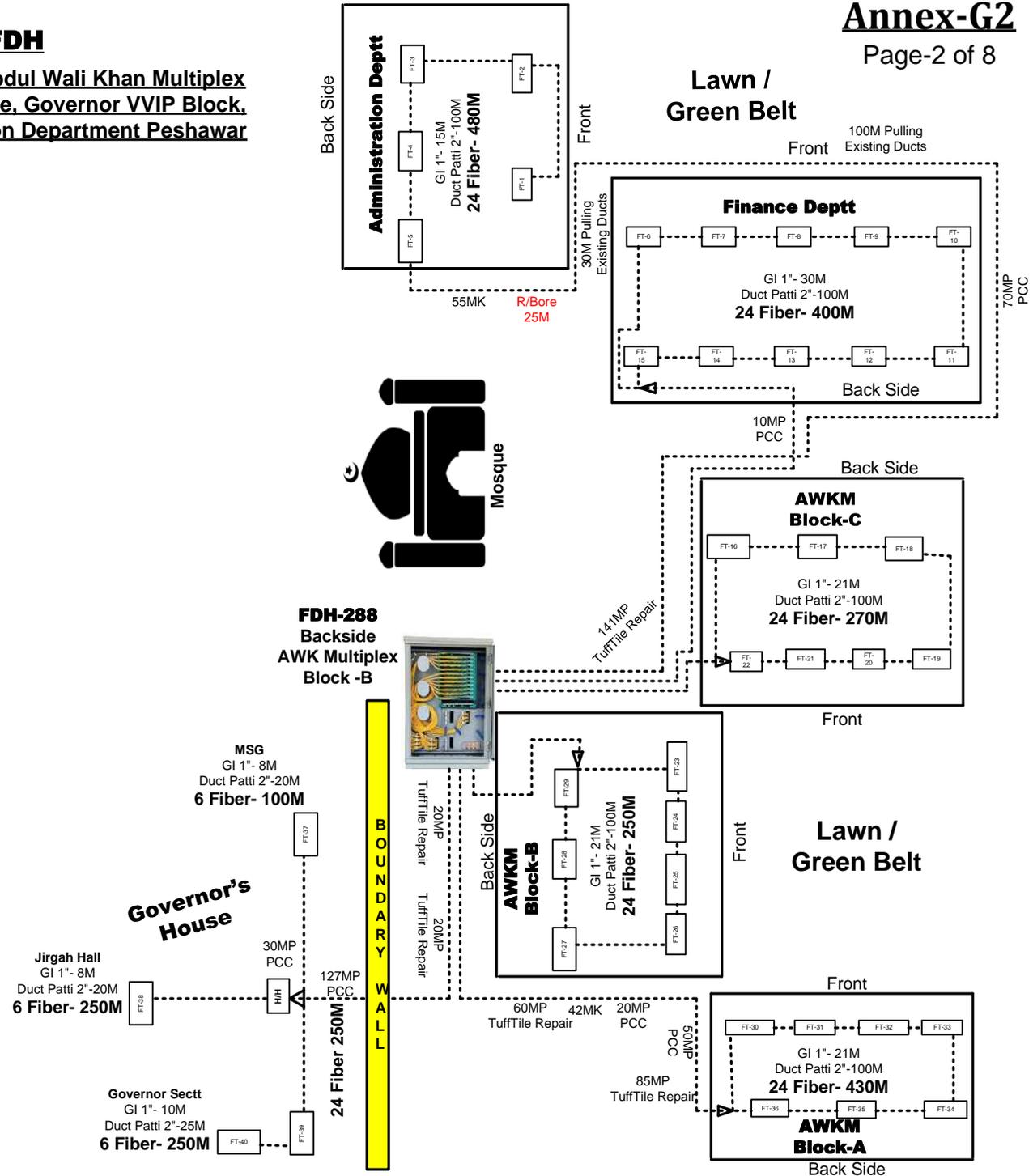


- FDH - 06 No
- OFC 144 - 3500M
- OFC 48 Fiber - 250M
- OFC 24 Fiber - 1275M
- J/E (144F) - 04 No
- J/E (48F) - 01 No
- H/Hole - 16 No



## ODN Network – AWKM FDH

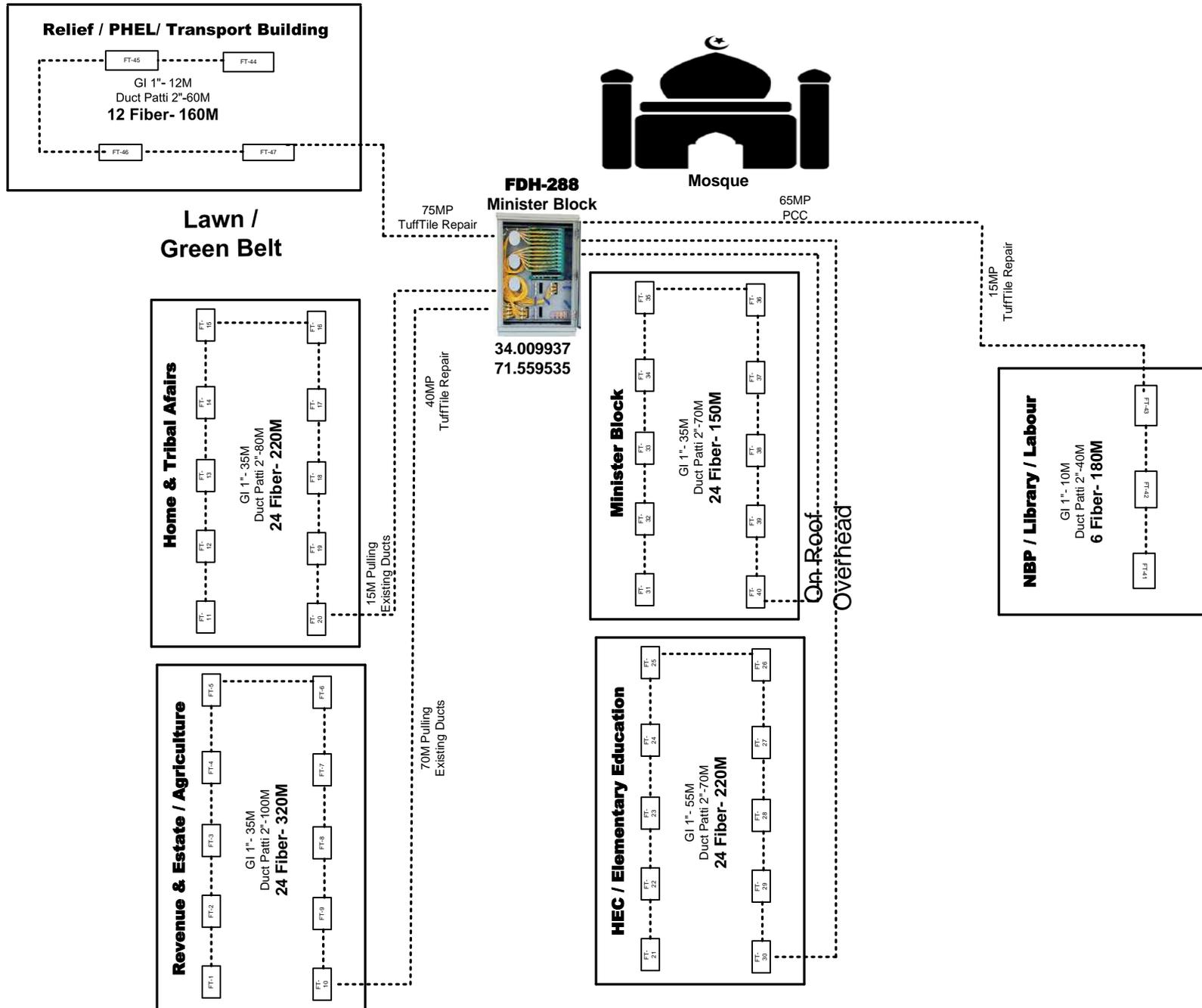
Laying of ODN Network from AWKM FDH to Abdul Wali Khan Multiplex Block-A, B, C, Governor KPK Office / Residence, Governor VVIP Block, Governor Secretariat, Finance & Administration Department Peshawar



OFC 24 – 2080M  
 OFC 6 – 600M  
 FAT 8 Ports- 40 No  
 J/E 24F – 5 No  
 H/Hole – 1 No

## ODN Network – Minister Block FDH

Laying of ODN Network from Minister’s Block FDH to Home, Revenue & Estate, HEC, Secondary & Elementary Education, PEHEL, Relief, Transport, Library & Labour Department Civil Sectt; Peshawar



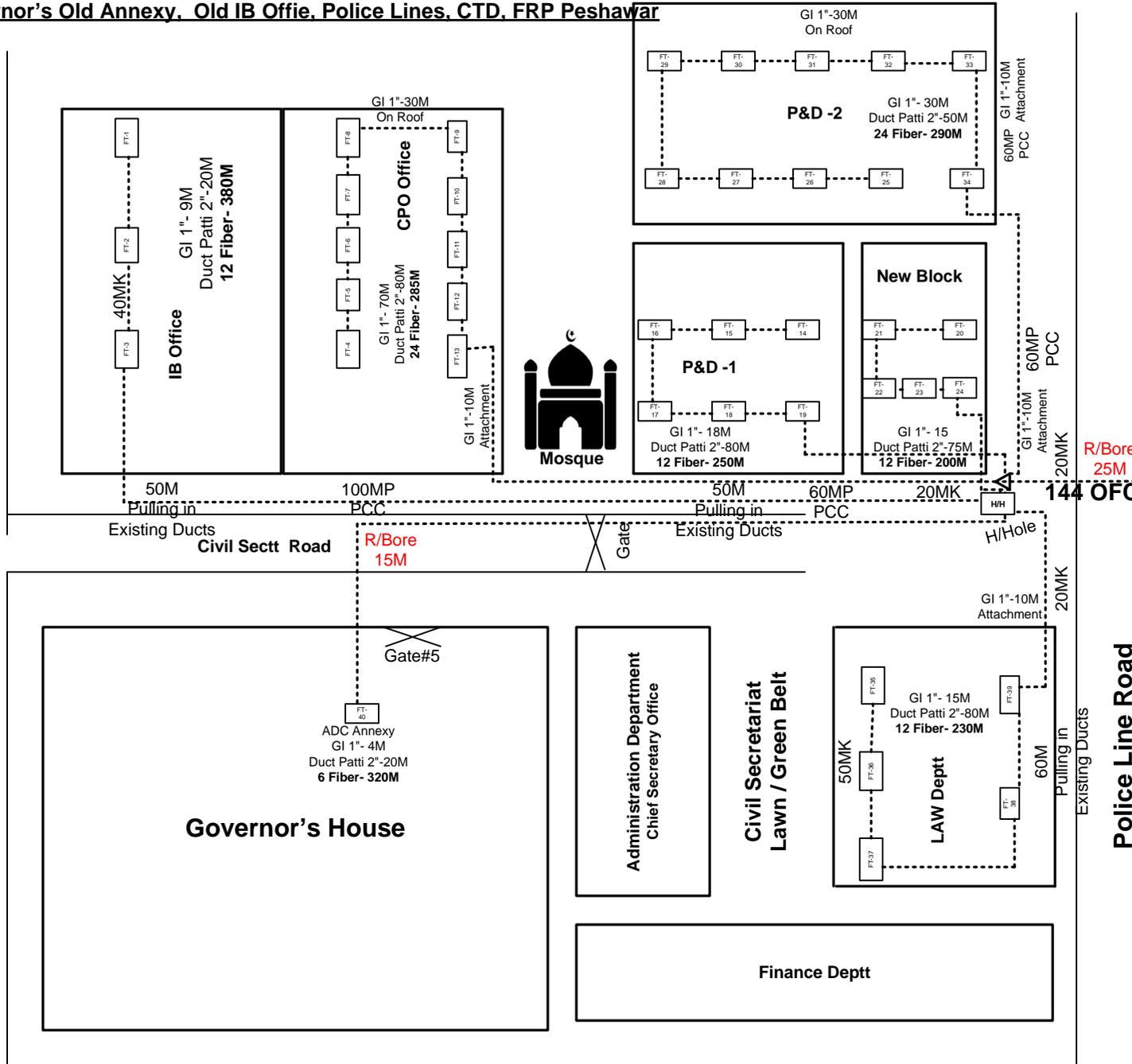
OFC 24 – 910M  
OFC 12 – 160M  
OFC 6 – 180M  
FAT 8 Ports- 47 No

## ODN Network - Civil Sectt FDH

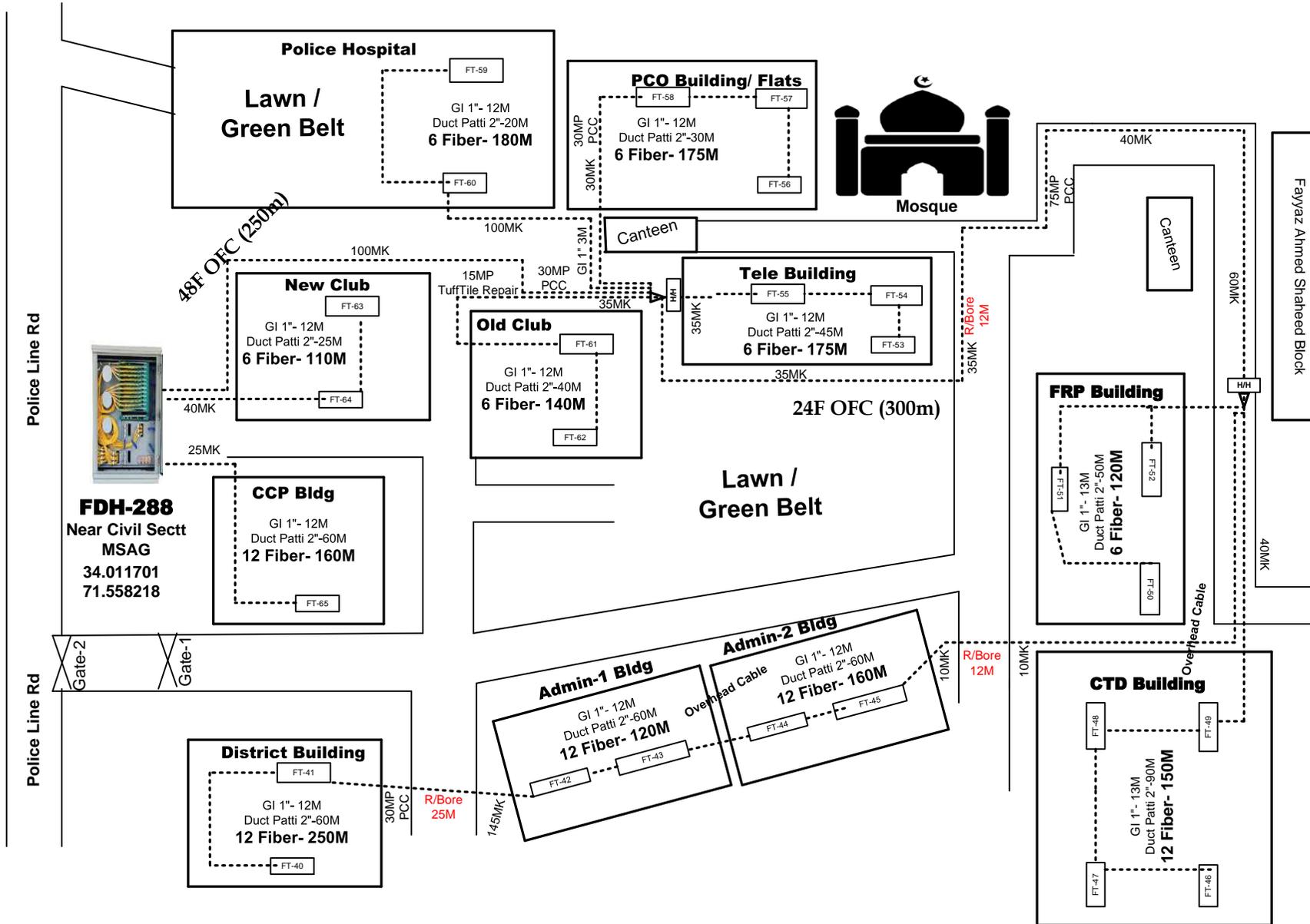
**Laying of ODN Network from Civil Secretariat FDH to P&D-1, 2 & 3, LAW, CPO  
Office Governor's Old Annexe, Old IB Office, Police Lines, CTD, FRP Peshawar**

OFC 144 – 220M  
 OFC 12 – 1060M  
 OFC 24 – 575M  
 OFC 6 – 320M  
 FAT 8 Ports- 39 No  
 J/E 144F – 1 No  
 H/Hole – 1 No

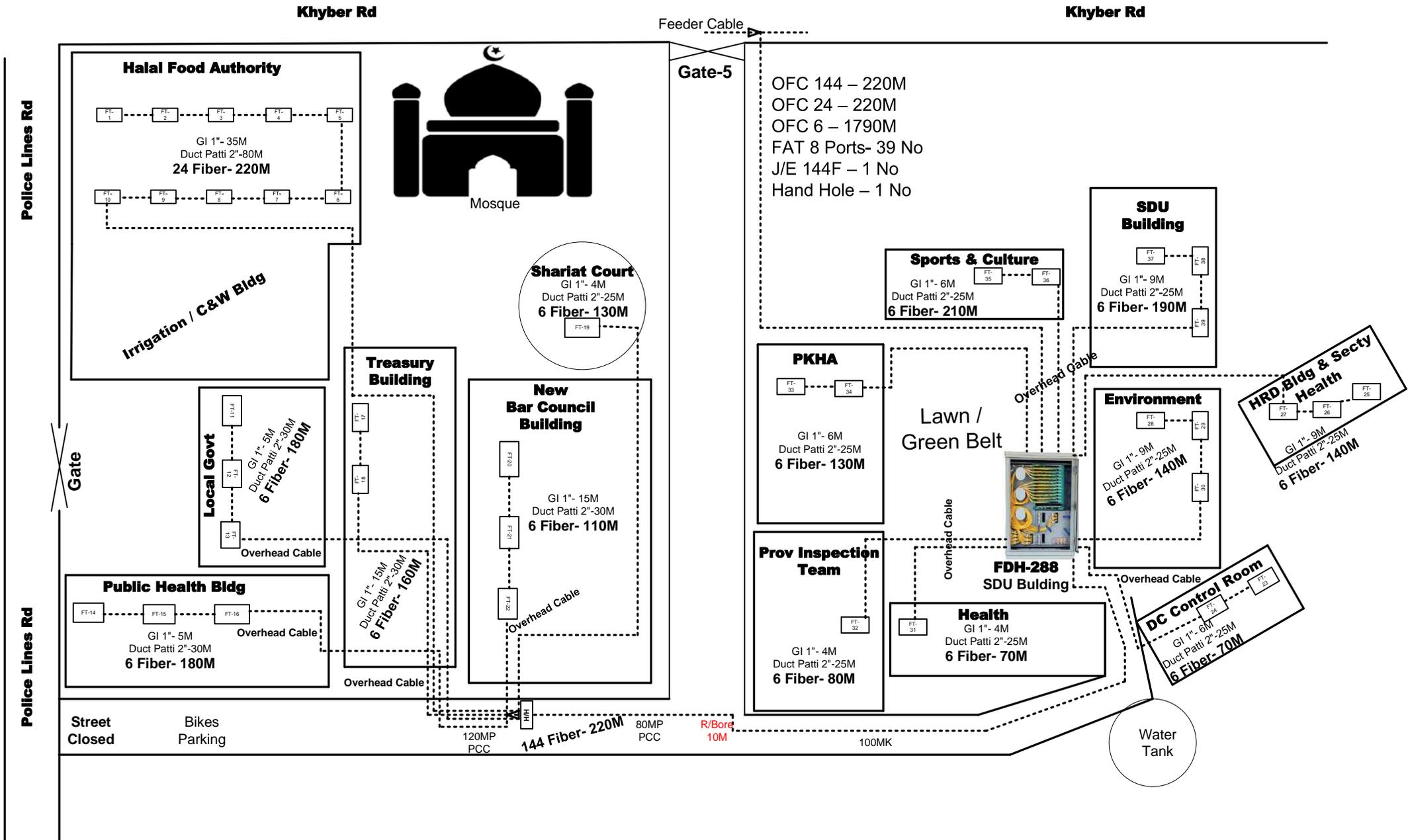
**SAQ ROAD**

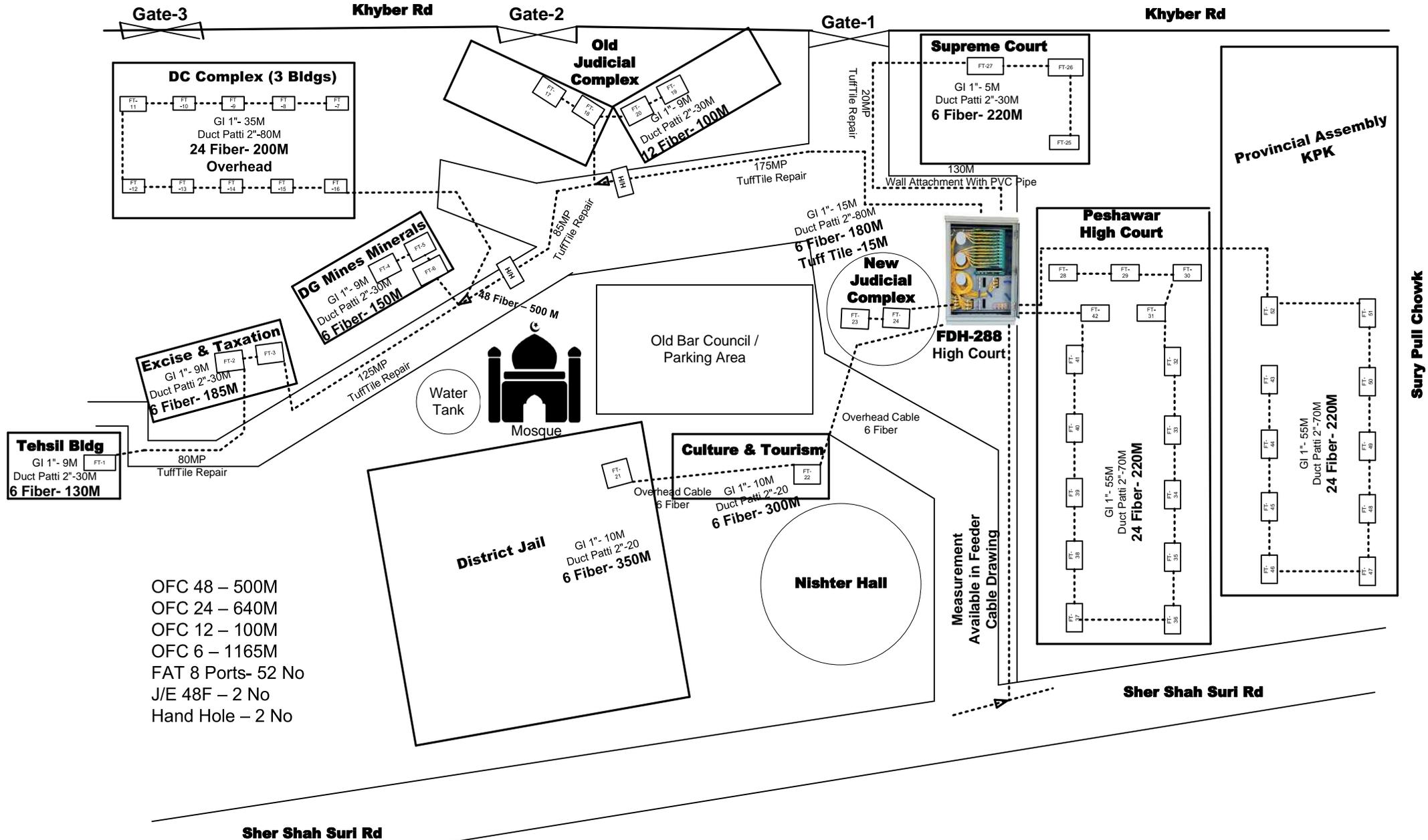


**FDH-288**  
 Near Civil Sectt  
 MSAG  
 34.011701  
 71.558218



- OFC 48 – 250M
- OFC 24 – 300M
- OFC 12 – 840M
- OFC 6 – 900M
- FAT 8 Ports- 26 No
- J/E 48F – 1 No
- J/E 24F – 1 No
- H/Hole – 2 No





- OFC 48 – 500M
- OFC 24 – 640M
- OFC 12 – 100M
- OFC 6 – 1165M
- FAT 8 Ports- 52 No
- J/E 48F – 2 No
- Hand Hole – 2 No

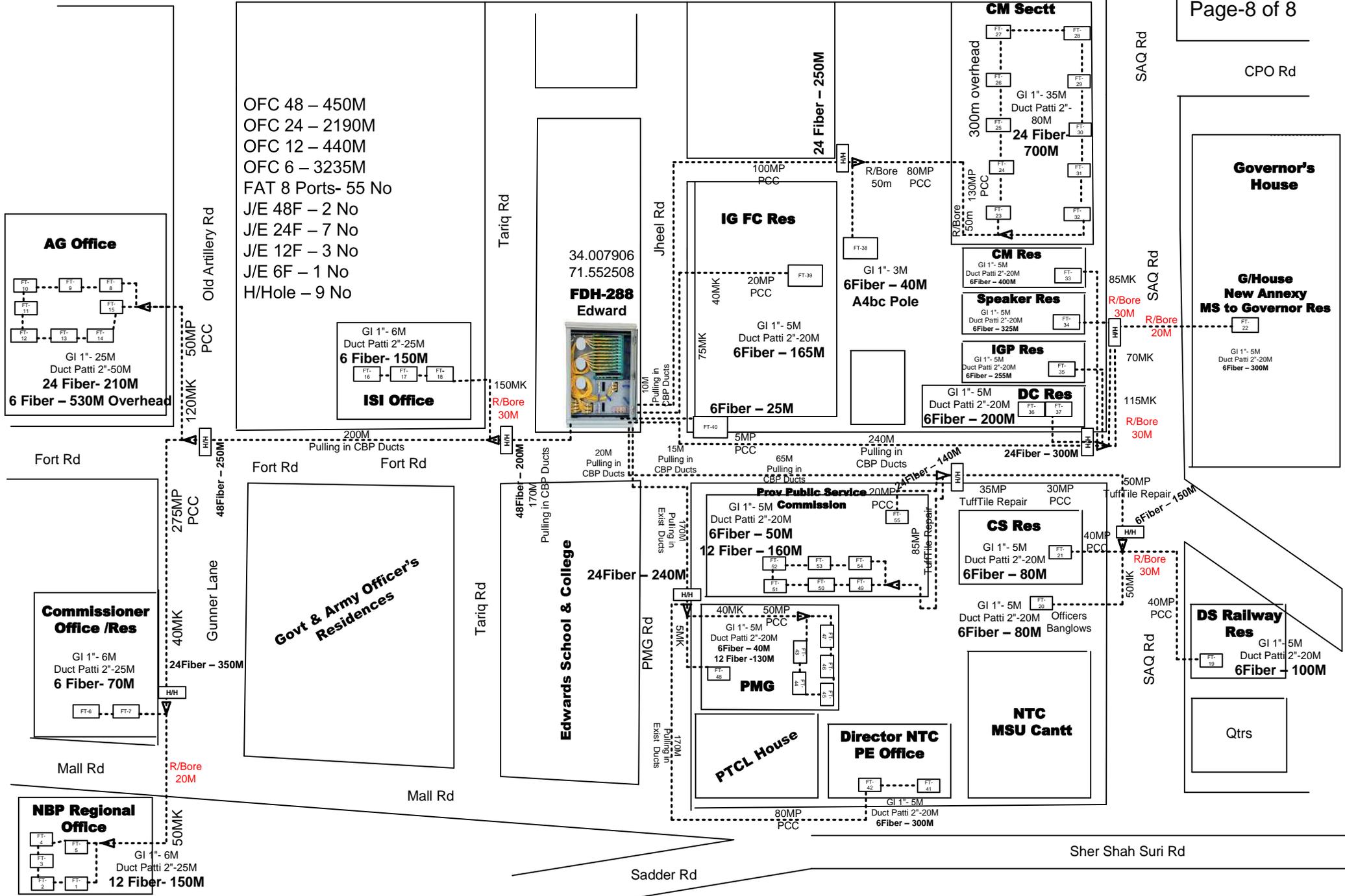


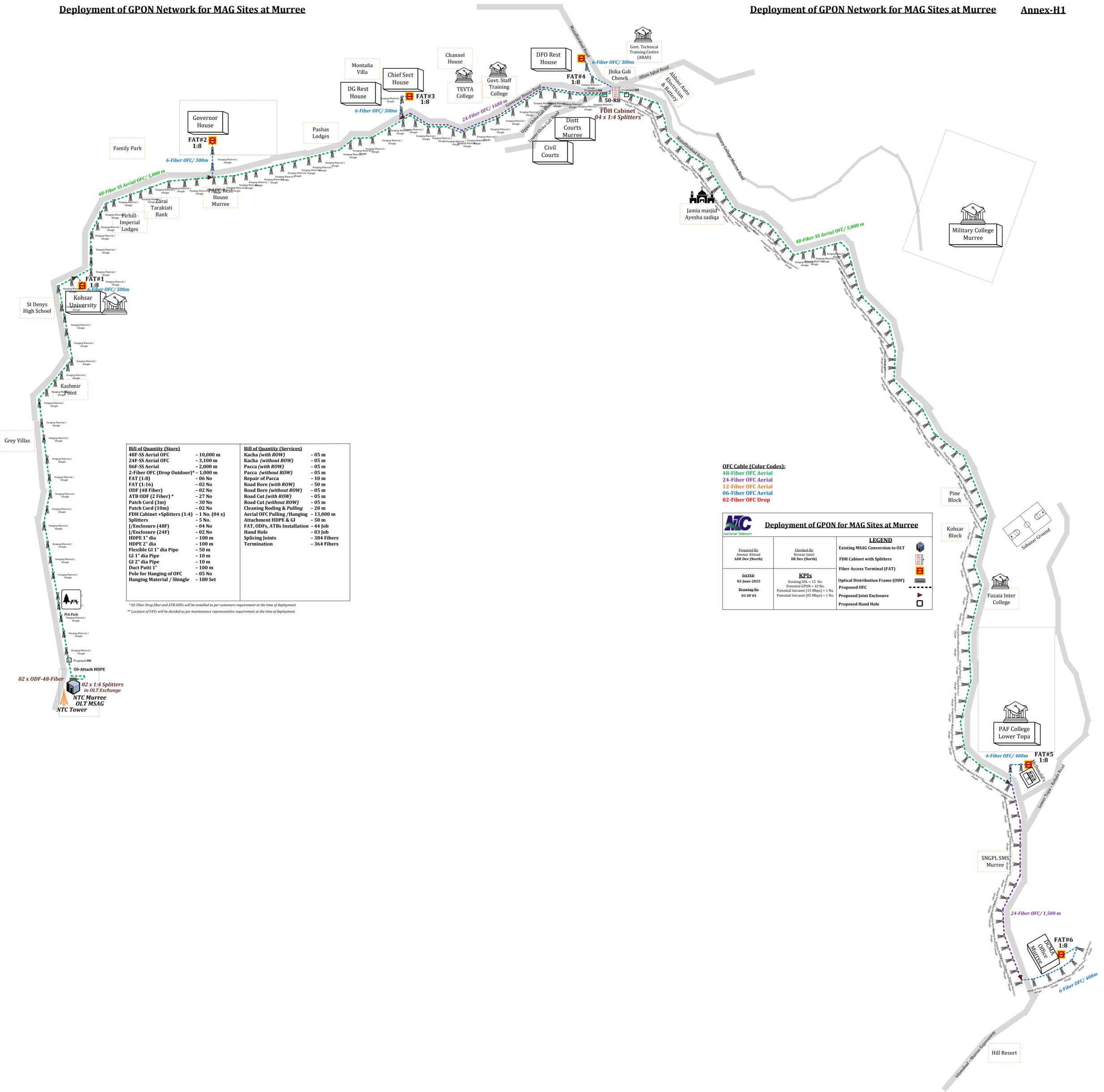
# ODN Network - FDH Edward

Laying of ODN Network from Edward FDH to CM House, CM Sectt, Governor's New Annexy, Speaker Res, IGP Res, IG FC Res, PPSC, CS Res, PMG, Premier Intelligence Agency, AG Office, Commissioner Office/Res, DS Railway Res, NBP Zonal Office, Director NTC PE

## Annex-G7

Page-8 of 8





Bill of Quantity (Store)		Bill of Quantity (Services)	
48F-SS Aerial OFC	- 10,000 m	Kacha (with ROW)	- 05 m
24F-SS Aerial OFC	- 3,100 m	Kacha (without ROW)	- 05 m
06F-SS Aerial	- 2,000 m	Pacca (with ROW)	- 05 m
2-Fiber OFC (Drop Outdoor)*	- 1,000 m	Pacca (without ROW)	- 05 m
FAT (1:8)	- 06 No	Repair of Pacca	- 10 m
FAT (1:16)	- 02 No	Road Bore (with ROW)	- 50 m
ODF (48 Fiber)	- 02 No	Road Bore (without ROW)	- 05 m
ATB ODF (2 Fiber) *	- 27 No	Road Cut (with ROW)	- 05 m
Patch Cord (3m)	- 30 No	Road Cut (without ROW)	- 05 m
Patch Cord (10m)	- 02 No	Cleaning Rodding & Pulling	- 20 m
FDH Cabinet + Splitters (1:4)	- 1 No. (04 x)	Aerial OFC Pulling / Hanging	- 13,000 m
Splitters	- 5 No.	Attachment HDPE & GI	- 50 m
J/Enclosure (48F)	- 04 No	FAT, ODFs, ATBs Installation	- 44 Job
J/Enclosure (24F)	- 02 No	Hand Hole	- 03 Job
HDPE 1" dia	- 100 m	Splicing Joints	- 384 Fibers
HDPE 2" dia	- 100 m	Termination	- 364 Fibers
Flexible GI 1" dia Pipe	- 50 m		
GI 1" dia Pipe	- 10 m		
GI 2" dia Pipe	- 10 m		
Duct Patti 1"	- 100 m		
Pole for Hanging of OFC	- 05 No		
Hanging Material / Shingle	- 180 Set		

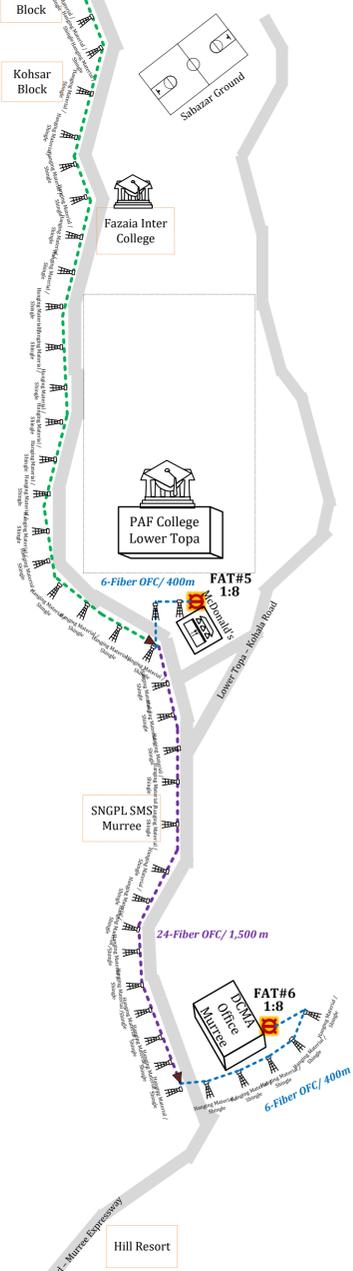
\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment  
 \*\* Location of FATs will be decided as per maintenance representative requirement at the time of deployment

**OFC Cable (Color Codes):**  
 48-Fiber OFC Aerial  
 24-Fiber OFC Aerial  
 12-Fiber OFC Aerial  
 06-Fiber OFC Aerial  
 02-Fiber OFC Drop

**NTC National Telecom**

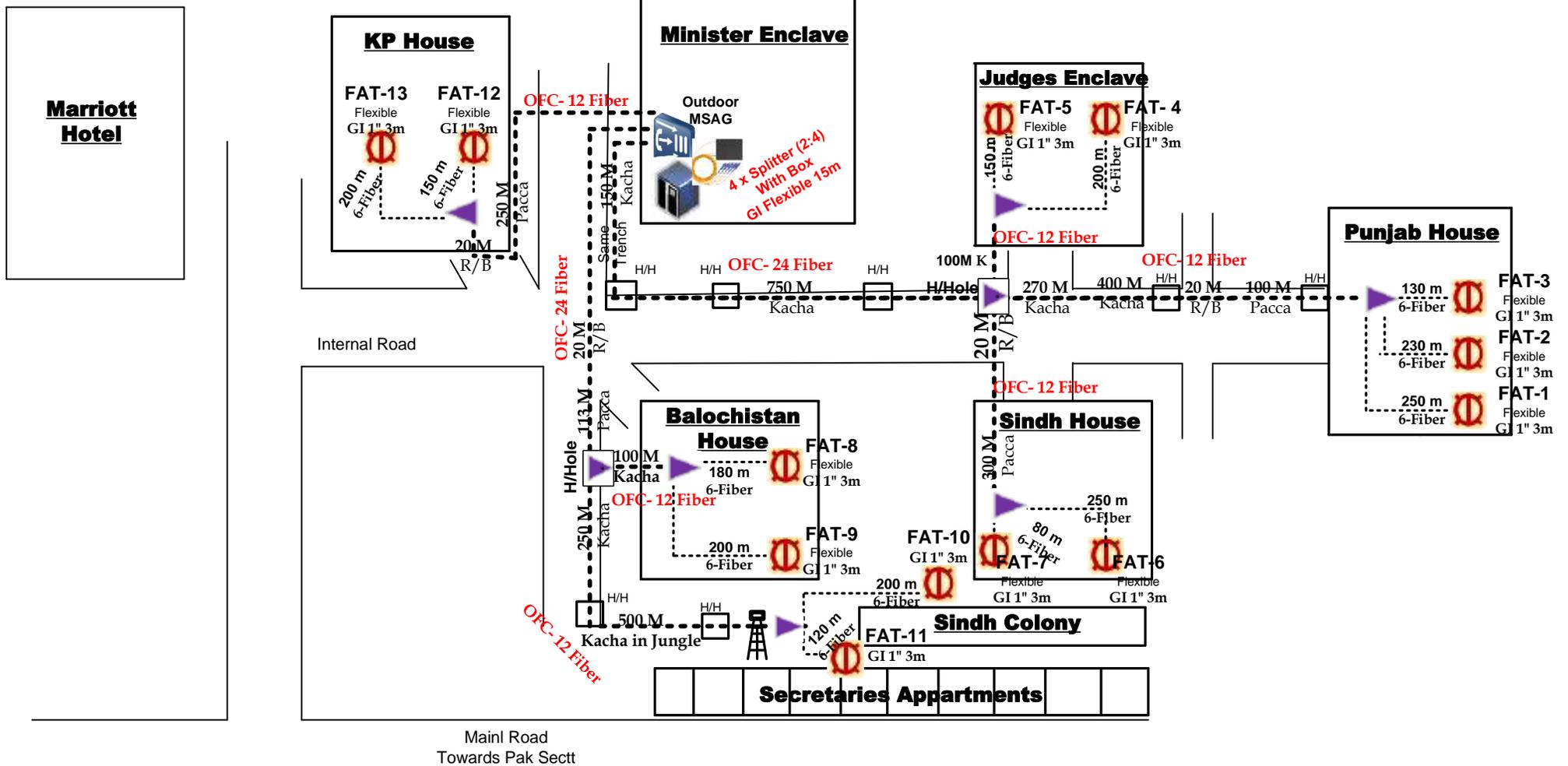
**Deployment of GPON for MAG Sites at Murree**

Prepared By Amur Ahmad ABE Deo (North)	Checked By Rizwan Jamil DE Deo (North)	<b>LEGEND</b> Existing MSAG Conversion to OLT FDH Cabinet with Splitters Fiber Access Terminal (FAT) Optical Distribution Frame (ODF) Proposed OFC Proposed Joint Enclosure Proposed Hand Hole
<b>DATED</b> 02-June-2025 <b>Drawing No</b> 01 OF 01	<b>KPIs</b> Existing DSL = 15 No. Potential GPON = 10 No. Potential Intranet (15 Mbps) = 1 No. Potential Intranet (05 Mbps) = 1 No.	



**Deployment of GPON By Converting Existing Minister Enclave MSAG in to OLT, at KP House, Balochistan House, Punjab House, Judges Enclave, Sindh House, Sindh Colony & Secretaries Residences, Islamabad**

**Annex-11**



<b>Bill of Quantity (Store)</b>		<b>Bill of Quantity (Services)</b>	
(24F) OFC Duct Buried	- 1,500 m	Kacha (ROW)	- 2510 m
(12F) OFC Duct Buried	- 2,500 m	Kacha (Without ROW)	- 10 m
(6F) OFC Aerial	- 2,600 m	Pacca (ROW)	- 753 m
2-Fiber OFC (Drop)	- 1,000 m	Pacca - (Without ROW)	- 10 m
FAT (1:8)	- 13 No	Repair of Pacca	- 763 m
ODF (24 Fiber)	- 01 No	R/Bore (ROW)	- 50 m
ODF (2-Fiber) ATBs	- 55 No	R/Bore (Without ROW)	- 10 m
Patch Cord (3m)	- 12 No	R/Cut (ROW)	- 01 m
Patch Cord (15m)	- 12 No	R/Cut (Without ROW)	- 01 m
FDH Cabinet +Splitters (2:4)	- 1 No. (4 No)	Cleaning Roding & Pulling	- 10 m
J/Enclosure (24F)	- 02 No	Attachment on walls & trays	- 284 m
J/Enclosure (12F)	- 06 No	FAT, ODF Installation	- 74 No
GI 1" dia Flexible Pipe	- 33 m	Splicing & Termination	- 300 F
GI 2" dia Flexible Pipe	- 15 m	H/Hole (3'x3'x4')	- 09 No
GI 1" dia Pipe	- 6 m		
Pole for Hanging of OFC	- 01 No		
Hanging Material /Shingle	- 01 No		
HDPE 2" dia	- 3343 m		
GI 1" dia Flexible Pipe	- 33 m		
Duct Patti 1" Dia	- 130 m		

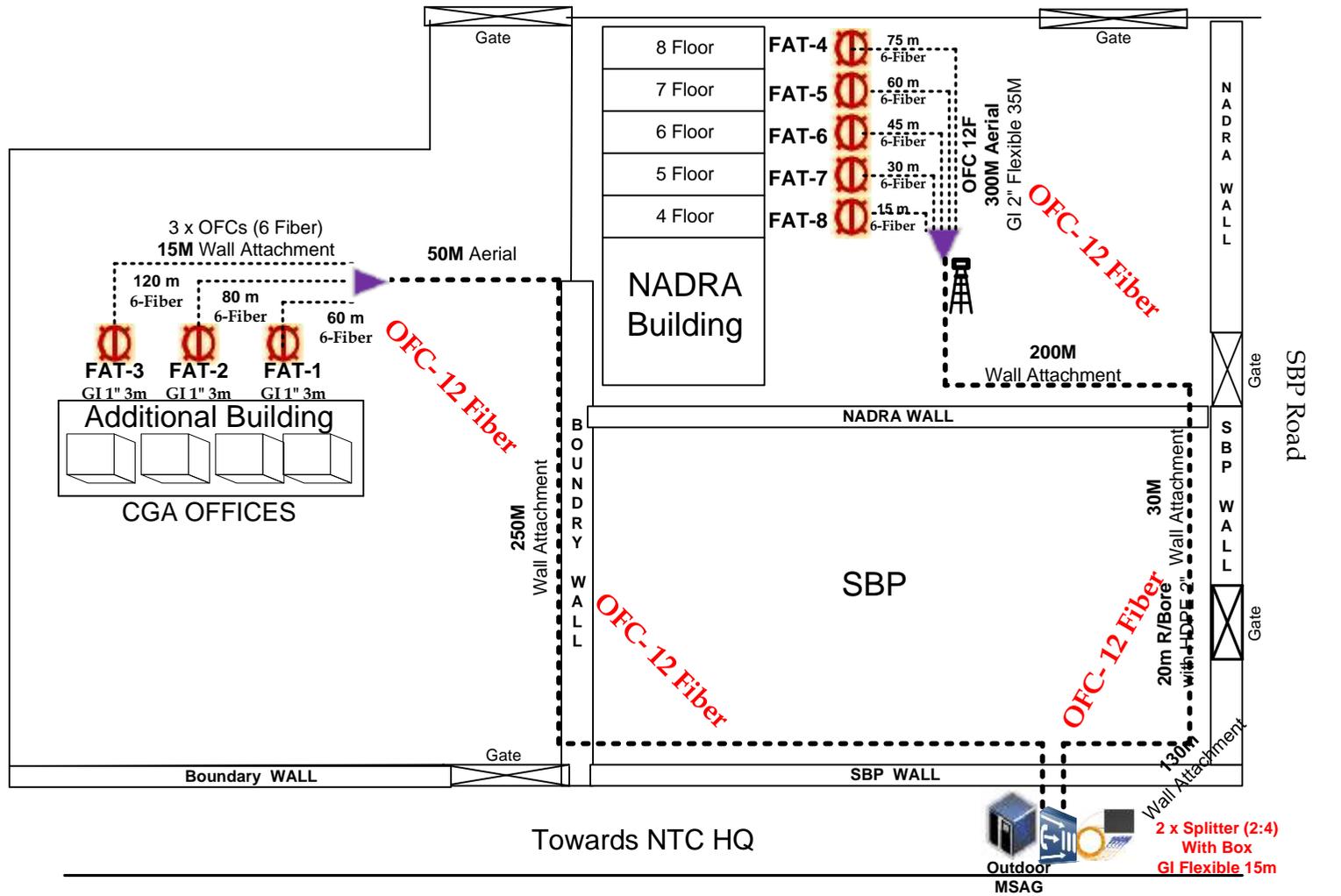
\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

**Deployment of GPON By Converting Existing Minister Enclave MSAG in to OLT, at KP House, Balochistan House, Punjab House, Judges Enclave, Sindh House, Sindh Colony & Secretaries Residences, Islamabad**

**LEGEND**

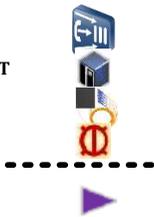
Prepared By Amir Shahzad & Taimur Dev (North) PE	Checked By DE Dev (North) Dev (North) Dte IBA	
DATED 25-09-2024	<b>KPIs</b> Working DSL = 40 Nos	
Drawing No 01 OF 01		

**Deployment of GPON By Converting Existing NADRA MSAG in to OLT, at State Bank, NADRA Building, & Additional Building, Islamabad Annex-12**



Towards NTC HQ

Outdoor MSAG  
 2 x Splitter (2:4)  
 With Box  
 GI Flexible 15m

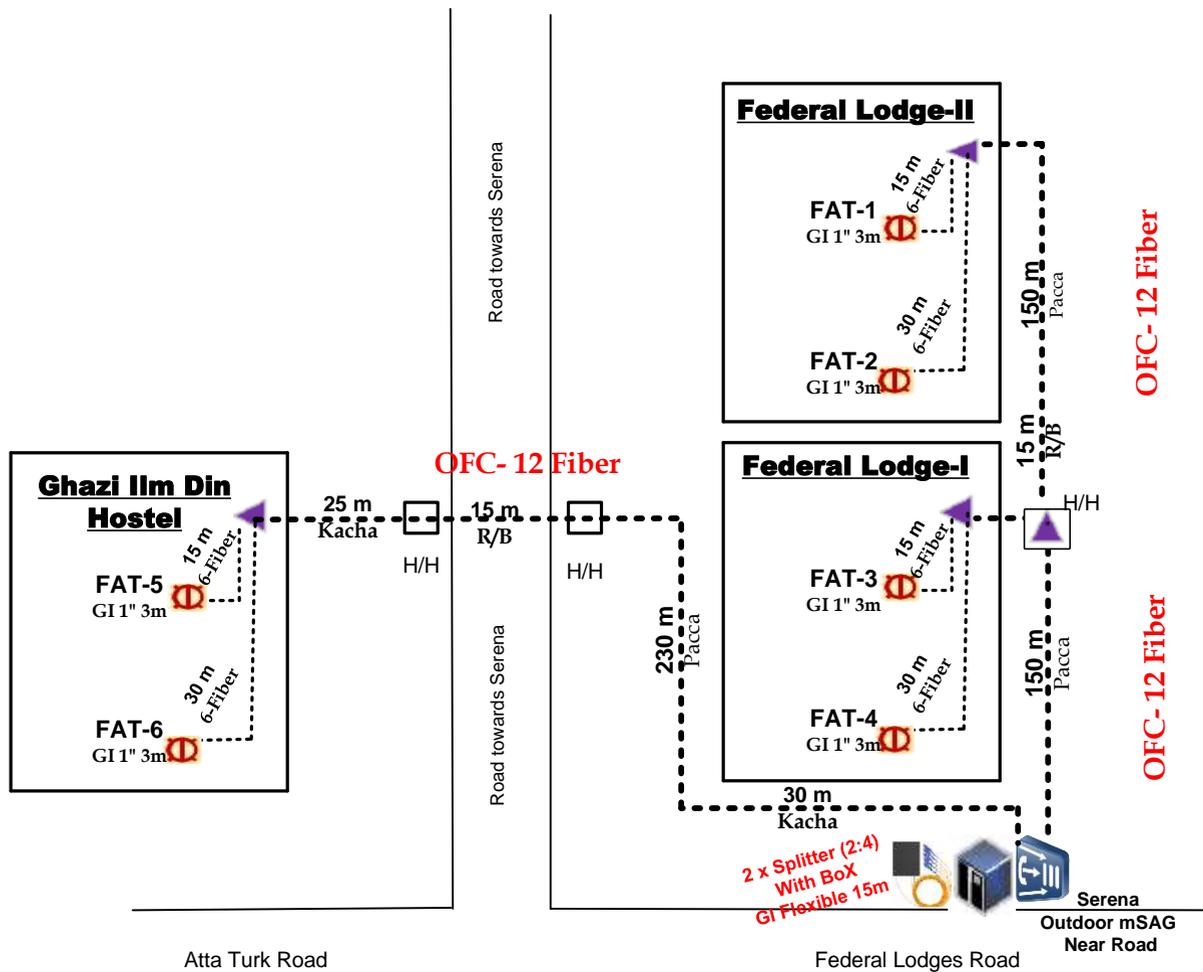
 <b>Deployment of GPON By Converting Existing NADRA MSAG in to OLT, at State Bank, NADRA Building, &amp; Additional Building, Islamabad</b>		
Prepared By Amir Shahzad & Taimur Dev (North) PE	Checked By DE Dev (North) Dev (North) Dte IBA	<b>LEGEND</b> Existing MSAG Existing MSAG convert in to OLT Proposed Splitters with Box Proposed FAT (2:8) Proposed OFC Proposed Joint Enclosure
DATED 25-09-2024 Drawing No 01 OF 01	<b>KPIs</b> Working DSL = 39 Nos	

<b>Bill of Quantity (Store)</b>		<b>Bill of Quantity (Services)</b>	
(12F) OFC Aerial	- 1,000 m	R/Bore (ROW)	- 05 m
(6F) OFC Aerial	- 600 m	R/Bore (Without ROW)	- 15 m
2-Fiber OFC (Drop)	- 1,000 m	R/Cut (ROW)	- 10 m
FAT (1:8)	- 08 No	R/Cut (Without ROW)	- 10 m
ODF (24 Fiber)	- 01 No	Cleaning Roding & Pulling	- 10 m
ODF (2-Fiber) ATBs	- 55 No	Aerial OFC Pulling /Hanging	- 1,600 m
FDH Cabinet +Splitters (2:4)	- 1 No. (2 No)	Attachment on walls & trays	- 1,830 m
Patch Cord (3m)	- 12 No	FAT, ODF Installation	- 64 No
Patch Cord (15m)	- 15 No	Splicing & Termination	- 76 F
J/Enclosure (12F)	- 02 No		
GI 2" dia Flexible Pipe	- 50M		
GI 1" dia Pipe	- 1,600 m		
HDPE 2" dia (in R/B)	- 20M		
Pole for Hanging of OFC	- 01 No		
Hanging Material /Shingle	- 01 No		
HDPE 2" dia	- 20 m		
Duct Patti 1" Dia	- 80 m		

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

**Deployment of GPON By Converting Existing  
Serena mSAG in to OLT, at Federal Lodges-I & II and Ghazi IIm Din Hostel Islamabad**

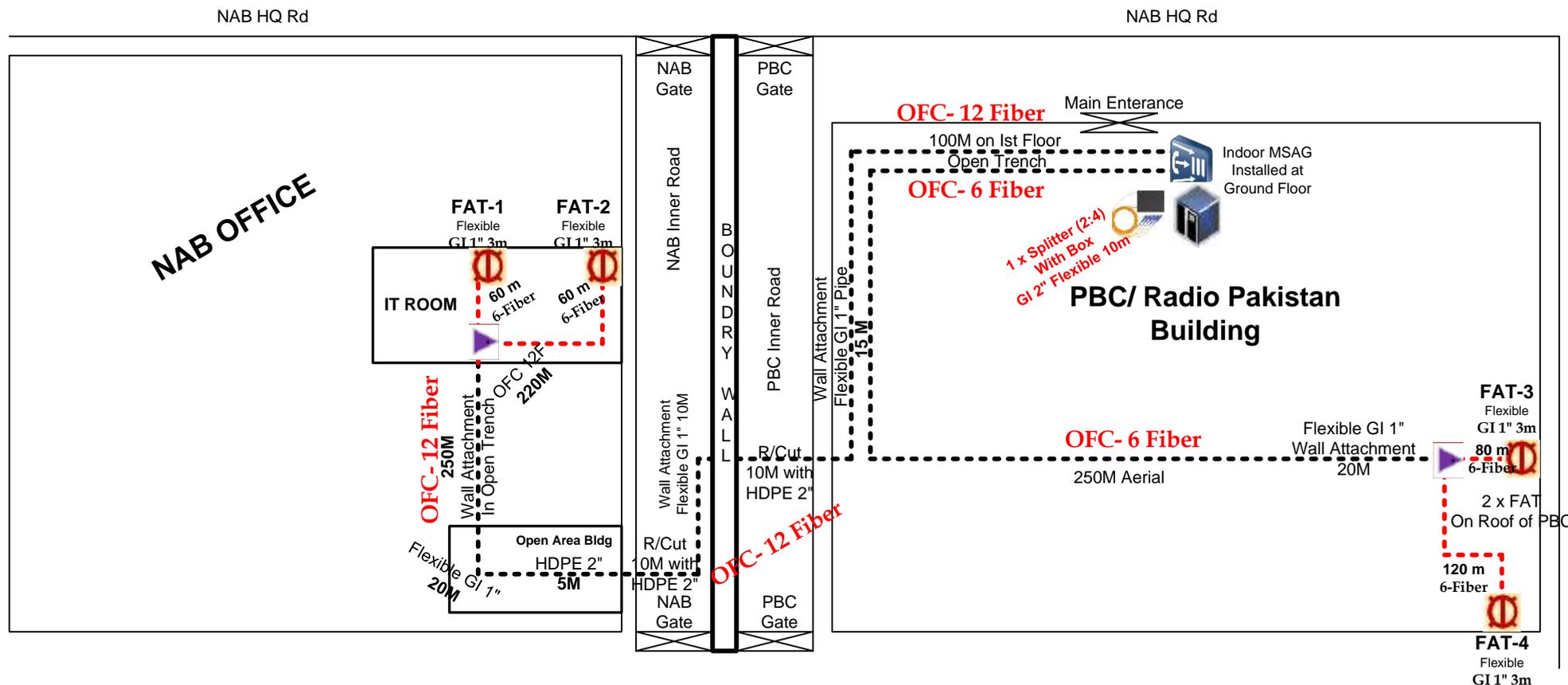
**Annex-13**



 <p align="center"><b>Deployment of GPON By Converting Existing Serena MSAG in to OLT, at Federal Lodges-I &amp; II and Ghazi IIm Din Hostel Islamabad</b></p>		
<p><b>Prepared By</b> Amir Shahzad &amp; Taimur Dev (North) PE</p>	<p><b>Checked By</b> DE Dev (North) Dev (North) Dte IBA</p>	<p align="center"><b>LEGEND</b></p> <p>Existing MSAG </p> <p>Existing MSAG convert in to OLT </p> <p>Proposed Splitters with Box </p> <p>Proposed FAT (2:8) </p> <p>Proposed OFC </p> <p>Proposed Joint Enclosure </p>
<p><b>DATED</b> 25-09-2024</p> <p><b>Drawing No</b> 01 OF 01</p>	<p align="center"><b>KPIs</b></p> <p>Working DSL = 18 Nos</p>	

<b>Bill of Quantity (Store)</b>		<b>Bill of Quantity (Services)</b>	
(12F) OFC Duct Buried	- 800 m	Kacha (ROW)	- 55m
(6F) OFC Aerial	- 200 m	Kacha (Without ROW)	- 01m
2-Fiber OFC (Drop)	- 500 m	Pacca (ROW)	- 530 m
FAT (1:8)	- 06 No	Pacca - (Without ROW)	- 01 m
ODF (24 Fiber)	- 01 No	Repair of Pacca	- 530 m
ODF (2-Fiber) ATBs	- 18 No	R/Bore (ROW)	- 30 m
Patch Cord (3m)	- 18 No	R/Bore (Without ROW)	- 01 m
Patch Cord (15m)	- 12 No	R/Cut (ROW)	- 01 m
FDH Cabinet +Splitters (2:4)	- 1 No. (2 No)	R/Cut (Without ROW)	- 01 m
J/Enclosure (12F)	- 04 No	Cleaning Roding & Pulling	- 1 m
GI 1" dia Pipe	- 18 m	Aerial OFC Pulling /Hanging	- 200 m
HDPE 2" dia	- 700 m	Attachment on walls & trays	- 340 m
Hanging material /Shingle	- 03 No	FAT, ODF Installation	- 32 No
GI 1" dia Flexible Pipe	- 50 m	Splicing & Termination	- 120 F
Duct Patti 1" Dia	- 60 m	Hand Hole (3'x3'x4')	- 4 No

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

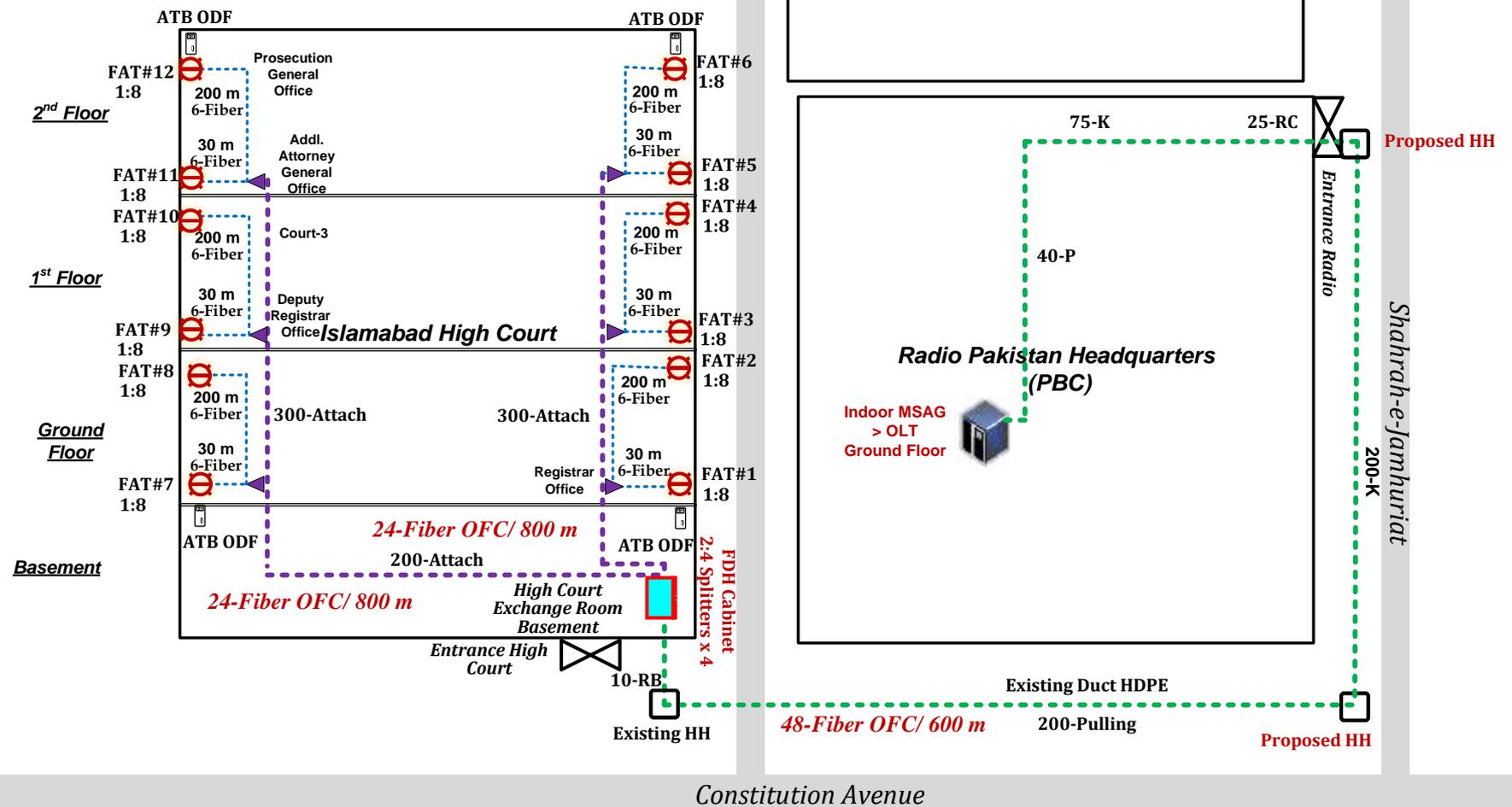


**Deployment of GPON By Converting Existing PBC MSAG in to OLT, at PBC/ Radio Pakistan Building, NAB Office Building, Islamabad**

Prepared By Amir Shahzad & Taimur Dev (North) PE	Checked By DE Dev (North) Dev (North) Dte IBA	<p><b>LEGEND</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: left;"> <p>Existing MSAG</p> <p>Existing MSAG convert in to OLT</p> <p>Proposed Splitters with Box</p> <p>Proposed FAT (2:8)</p> <p>Proposed OFC</p> <p>Proposed Joint Enclosure</p> </div> <div style="text-align: center;"> </div> </div>
DATED 25-09-2024  Drawing No 01 OF 01	<p style="text-align: center;"><b>KPIs</b></p> Working DSL = 4 Nos	

Bill of Quantity (Store)	Bill of Quantity (Services)
(12F) OFC Aerial - 700 m	R/Cut (ROW) - 10 m
(6F) OFC Aerial - 700 m	R/Cut (Without ROW) - 10 m
2-Fiber OFC (Drop) - 100 m	Cleaning Roding & Pulling - 250 m
FAT (2:8) - 04 No	Aerial OFC Pulling/Hanging - 1310 m
ODF (24 Fiber) - 01 No	Attachment on walls & trays - 400 m
ODF (2-Fiber) ATBs - 08 No.	FAT, ODF Installation - 12 No
Splitter (2:4) - 01 No	Splicing & Termination - 56 F
Patch Cord (3m) - 12 No	
Patch Cord (10m) - 04 No	
J/Enclosure (12F) - 01 No	
J/Enclosure (6F) - 01 No	
GI 1" dia Flexible Pipe - 77 m	
GI 2" dia Flexible Pipe - 10 m	
HDPE 2" dia - 25 m	
GI 1" dia Flexible Pipe - 100 m	
Duct Patti 1" Dia - 60 m	

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment



Bill of Quantity (Store)		Bill of Quantity (Services)	
48-Fiber OFC (Duct Buried)	- 6,00 meter	Kacha (with ROW)	- 200 meter
24-Fiber OFC (Duct Buried)	- 1,500 meter	Kacha (without ROW)	- 75 meter
12-Fiber OFC (Duct Buried)	- 1,000 meter	Pacca (with ROW)	- 10 meter
6-Fiber OFC (Duct Buried)	- 1,500 meter	Pacca - (without ROW)	- 40 meter
2-Fiber OFC (Drop Indoor)	- 200 meter	Repair of Pacca	- 50 meter
FAT (1:8)	- 12 No	R/Bore (with ROW)	- 10 meter
ODF (48-Fiber)	- 02 No	R/Bore (without ROW)	- 10 meter
ODF (24-Fiber)	- 01 No	R/Cut (with ROW)	- 25 meter
ODF (2-Fiber) ATBs	- 16 No.	R/Cut (without ROW)	- 10 meter
Patch Cord (3m)	- 14 No	Cleaning Roding & Pulling	- 500 meter
Patch Cord (10m)	- 4 No	Attachment on walls & trays	- 1,620 meter
FDH Cabinet + Splitters (2:4)	- 1 No. (4 No)	FAT, ODF Installation	- 25 No
J/Enclosure (24F)	- 08 No	Hand Hole	- 02 No.
HDPE 2" dia	- 1,500 meter	Splicing / Termination	- 377 Fiber
GI 1" dia Flexible Pipe	- 1,500 meter		
Duct Patti 1" Dia	- 100 m		

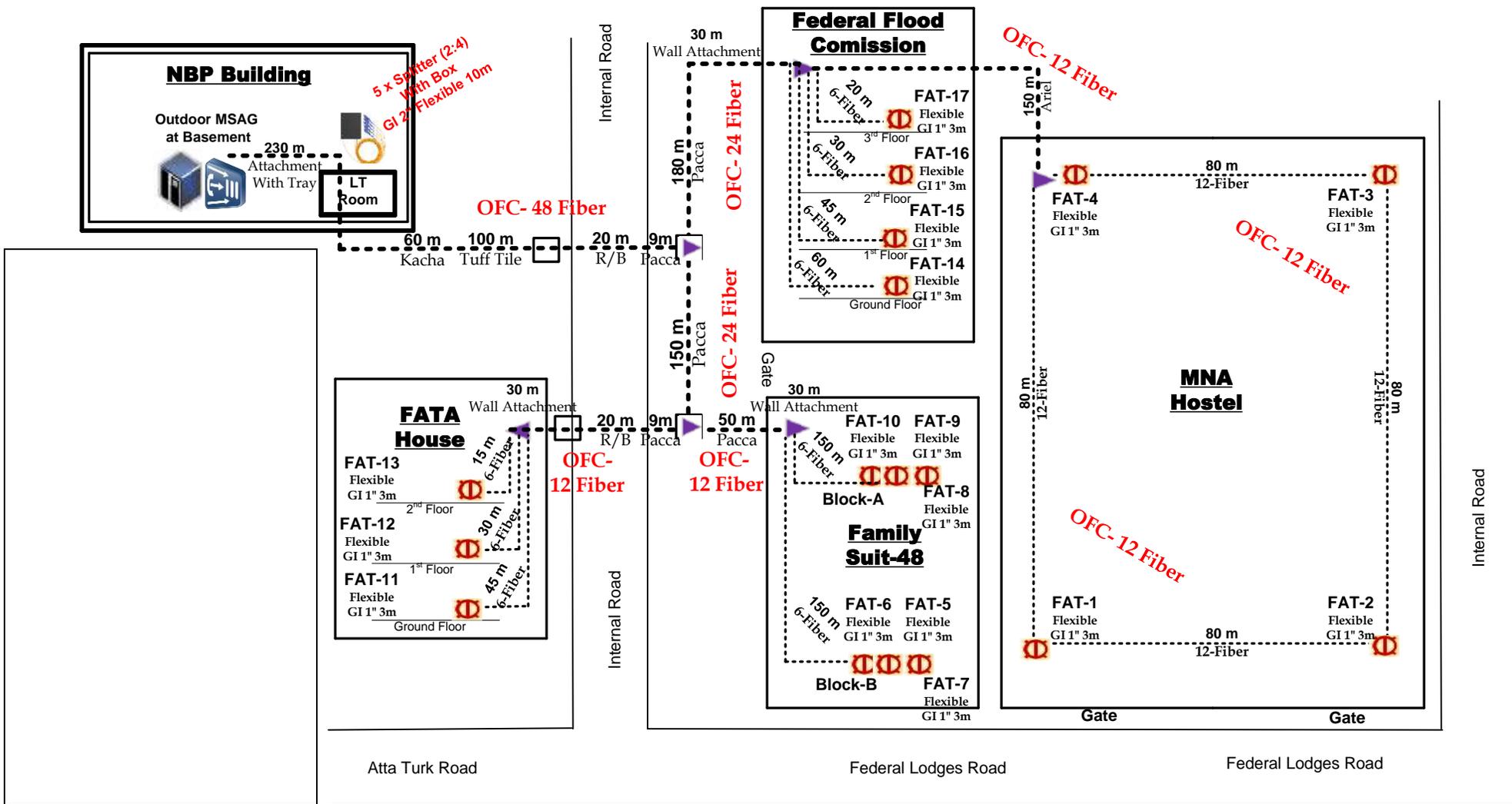
**OFC Cable (Color Codes):**  
 48-Fiber OFC Duct  
 24-Fiber OFC Duct  
 12-Fiber OFC Duct  
 06-Fiber OFC Duct  
 02-Fiber OFC Drop

**Deployment of GPON at Islamabad High Court by Converting Existing Radio Pakistan Indoor MSAG to OLT**

Prepared By: Ammar Ahmad ADE Dev (North)	Checked By: Rizwan Jamil DE Dev (North)	<p style="text-align: center;"><b>LEGEND</b></p> <p>Existing MSAG Conversion to OLT </p> <p>FDH Cabinet with Splitters </p> <p>Fiber Access Terminal (FAT) </p> <p>Proposed OFC </p> <p>Proposed Joint Enclosure </p> <p>Proposed Hand Hole </p>
DATED 02-feb-2025  Drawing No 01 OF 01	<p style="text-align: center;"><b>KPIs</b></p> Working DSL = 13 Nos	

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

Islamabad



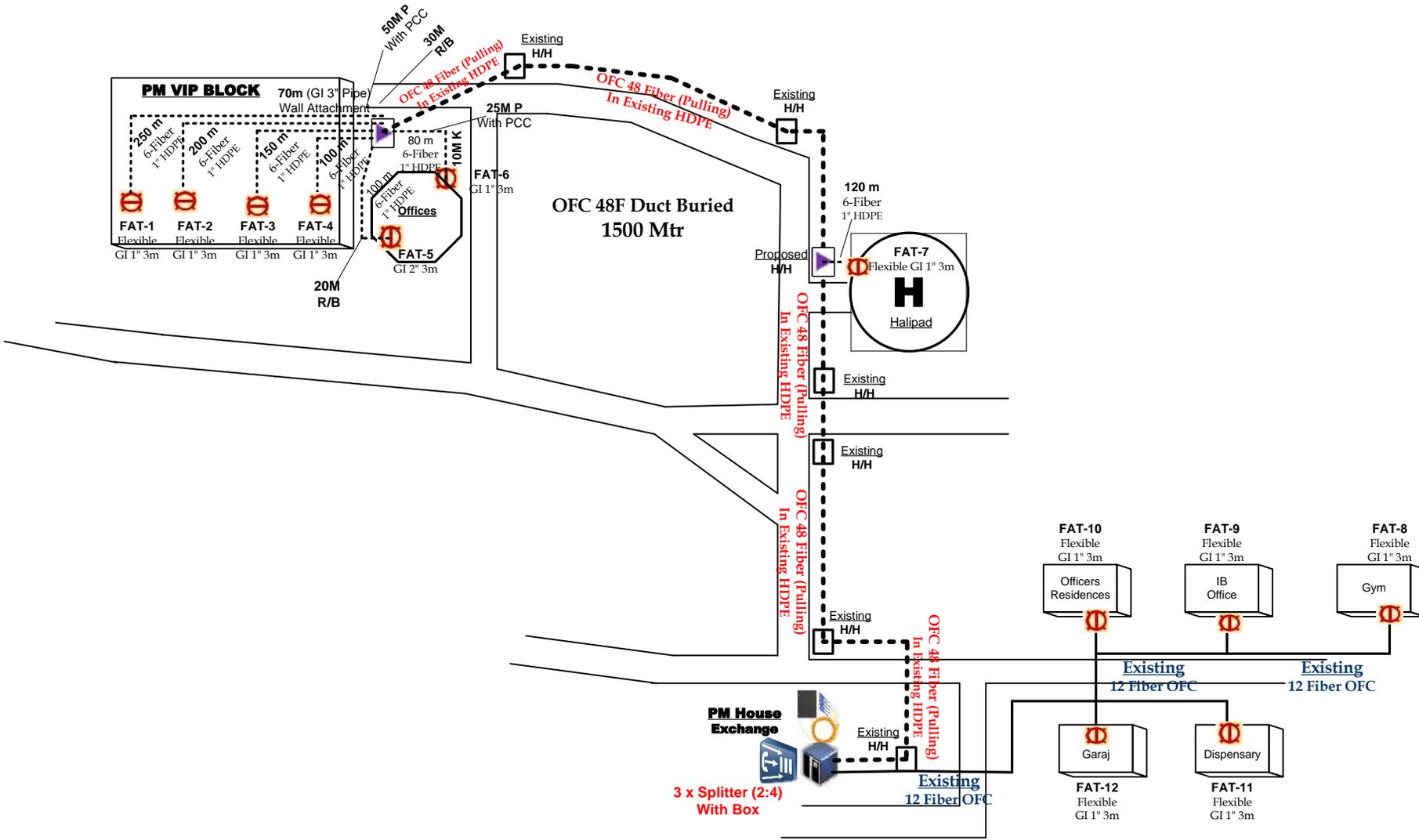
**NTC National Telecom**

**Deployment of GPON By Converting Existing NBP MSAG in to OLT, at Federal Flood Commission, Family Suit-48, FATA House & MNA Hostel Islamabad**

Prepared By Amir Shahzad & Taimur Dev (North) PE	Checked By DE Dev (North) Dev (North) Dte IBA	<p><b>LEGEND</b></p> <p>Existing MSAG </p> <p>Existing MSAG convert in to OLT </p> <p>Proposed Splitters with Box </p> <p>Proposed FAT (2:8) </p> <p>Proposed OFC </p> <p>Proposed Joint Enclosure </p>
DATED 25-09-2024	KPIs Working DSL = 32 Nos	
Drawing No 01 OF 01		

Bill of Quantity (Store)	Quantity	Bill of Quantity (Services)	Quantity
(48F) OFC Duct Buried	- 600 m	Kacha (ROW)	- 10 m
(24F) OFC Duct Buried	- 500 m	Kacha (Without ROW)	- 50 m
(12F) OFC Duct Buried	- 200 m	Pacca/Tuff Tile (ROW)	- 400 m
(12F) OFC Aerial	- 500 m	Pacca/Tuff Tile - (Without ROW)	- 100 m
(6F) OFC Aerial	- 500 m	Repair of Pacca	- 500 m
2-Fiber OFC (Drop)	- 700 m	R/Bore (ROW)	- 40 m
FAT (1:8)	- 17 No	R/Bore (Without ROW)	- 10 m
ODF (48 Fiber)	- 01 No	R/Cut (ROW)	- 10 m
ODF (2-Fiber) ATBs	- 44 No.	R/Cut (Without ROW)	- 10 m
FDH Cabinet +Splitters (2:4)	- 1 No. (5 No)	Cleaning Roding & Pulling	- 50 m
Patch Cord (3m)	- 32 No	Attachment on walls & trays	- 320 m
Patch Cord (15m)	- 12 No	Aerial OFC Pulling /Hanging	- 500 m
J/Enclosure (48F)	- 01 No	FAT, ODF Installation	- 50 No
J/Enclosure (24F)	- 03 No	Splicing & Termination	- 298 F
J/Enclosure (12F)	- 02 No	Hand Hole (3'x3'x4')	- 5 No
GI 1" dia Flexible Pipe	- 51 m		
HDPE 2" dia	- 770 m		
HDPE 1" dia	- 15 m		
Duct Patti 1" Dia	- 170 m		

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment





**Deployment of GPON By Converting Existing PM House MSAG in to OLT at Islamabad**

**LEGEND**

- Existing MSAG 
- Existing MSAG convert in to OLT 
- Proposed FAT (2:8) 
- Existing OFC 
- Proposed OFC 
- Proposed Joint Enclosure 
- Hand Hole (Existing) 

Prepared By  
Amir Shahzad & Taimur  
Dev (North) PE

DATED  
25-09-2024

Drawing No  
01 OF 01

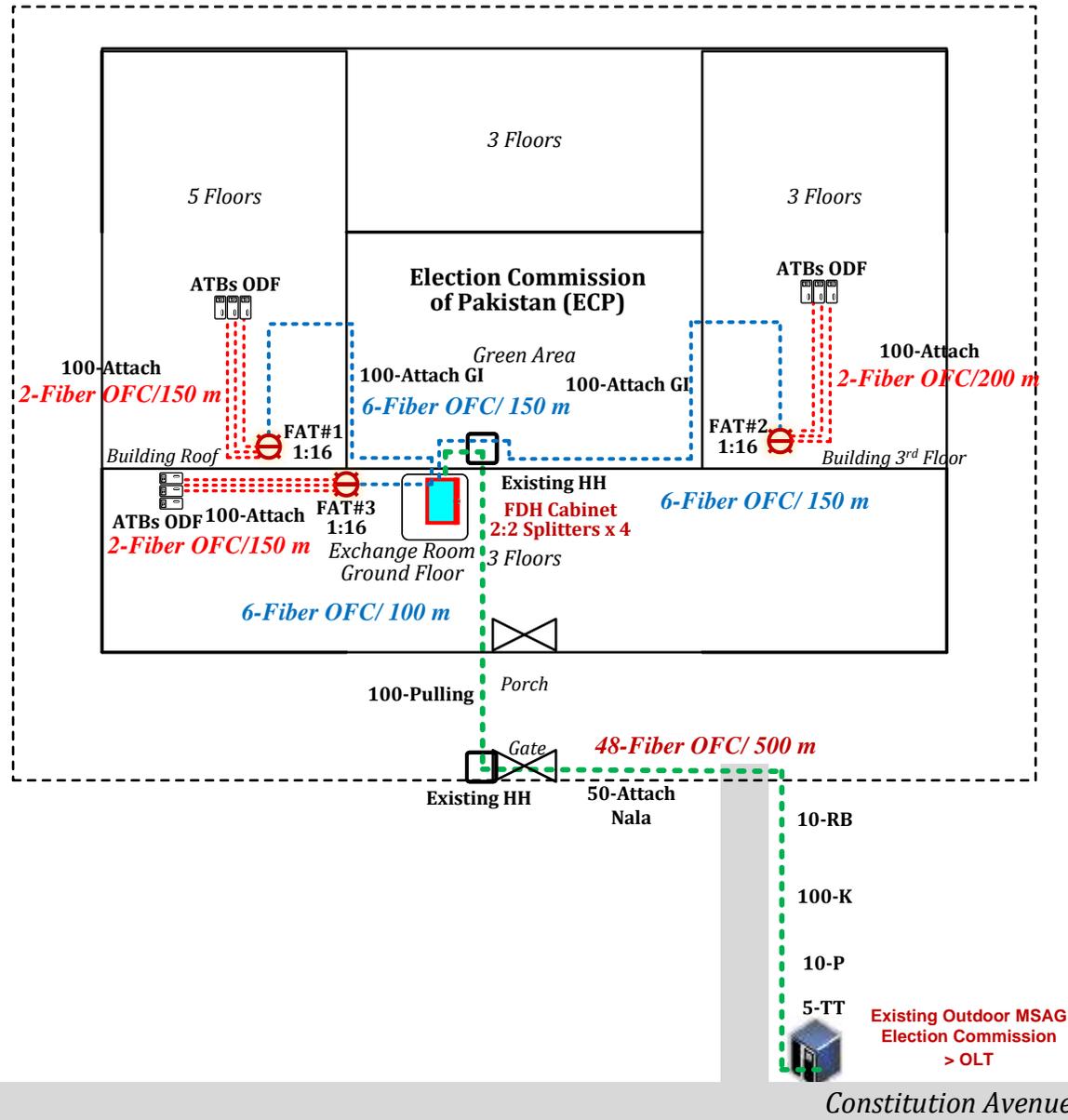
Checked By  
DE Dev (North)  
Dev (North) Dte IBA

**KPIs**  
Working DSL = 14 Nos

Bill of Quantity (Store)		Bill of Quantity (Services)	
(48F) OFC Duct Buried	- 1500 m	Kacha Rocky (ROW)	- 10 m
(6F) Aerial OFC	- 1000 m	Kacha Rocky (Without ROW)	- 10 m
2-Fiber OFC (Drop Indoor)	- 500 m	Pacca (ROW)	- 75 m
FAT (2:8)	- 12 No	Pacca - (Without ROW)	- 10 m
ODF (48 Fiber)	- 01 No	Repair of Pacca	- 85 m
ODF (2-Fiber) ATBs	- 20 No.	R/Bore (ROW)	- 50 m
Patch Cord (3m)	- 12 No	R/Bore (Without ROW)	- 10 m
Patch Cord (15m)	- 12 No	R/Cut (ROW)	- 10 m
Splitters (2:4)	- 03 No	R/Cut (Without ROW)	- 10 m
Splitter Box	- 02 Nos	Cleaning Roding & Pulling	- 1,500 m
J/Enclosure (48F)	- 02 No	Attachment on walls & trays	- 346 m
J/Enclosure (6F)	- 02 No	Aerial OFC Pulling / Hanging	- 1,000 m
HDPE 2" dia	- 1,700 m	FAT, ODF Installation	- 34 No
GI 1" dia Flexible Pipe	- 50 m	RCC Hand Hole (3'x3'x4')	- 02 No
GI 3" dia Pipe	- 70 m	Splicing / Termination	- 294 F
Duct Patti 1" with fitting	- 120 m		

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

# Deployment of GPON at Election Commission of Pakistan (ECP) by converting existing Election Commission Outdoor MSAG to OLT



<b>Deployment of GPON at Election Commission of Pakistan (ECP) by converting existing Election Commission Outdoor MSAG to OLT</b>		
Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)	<b>LEGEND</b> Existing MSAG Conversion to OLT FDH Cabinet with Splitters Fiber Access Terminal (FAT) Proposed OFC Proposed Joint Enclosure Proposed Hand Hole
DATED 09-Feb-2025  Drawing No 01 OF 01	<b>KPIs</b> Working DSL = 6 Nos	

Bill of Quantity (Store)	Bill of Quantity (Services)
48-Fiber OFC (Duct Buried) - 500 meter	Kacha (with ROW) - 100 meter
6-Fiber OFC (Duct Buried) - 400 meter	Kacha (without ROW) - 5 meter
2-Fiber OFC (Drop Indoor) - 500 meter	Pacca / TT (with ROW) - 15 meter
FAT (1:16) - 04 No	Pacca / TT- (without ROW) - 5 meter
ODF (48-Fiber) - 02 No	Repair of Pacca - 20 meter
ODF (24-Fiber) - 01 No	R/Bore (with ROW) - 10 meter
ODF (2-Fiber) ATBs - 08 No.	R/Bore (without ROW) - 5 meter
Patch Cord (3m) - 08 No	R/Cut (with ROW) - 5 meter
FDH Cabinet +Splitters (2:2) - 1 No. (2 No)	R/Cut (without ROW) - 5 meter
HDPE 2" dia - 200 meter	Cleaning Roding & Pulling - 100 meter
GI 1" dia Flexible Pipe - 400 Meter	Attachment on walls & trays - 450 meter
Duct Patti 1" - 40 Meter	FAT, ODF Installation - 15 No
	Splicing / Termination - 180 Fiber

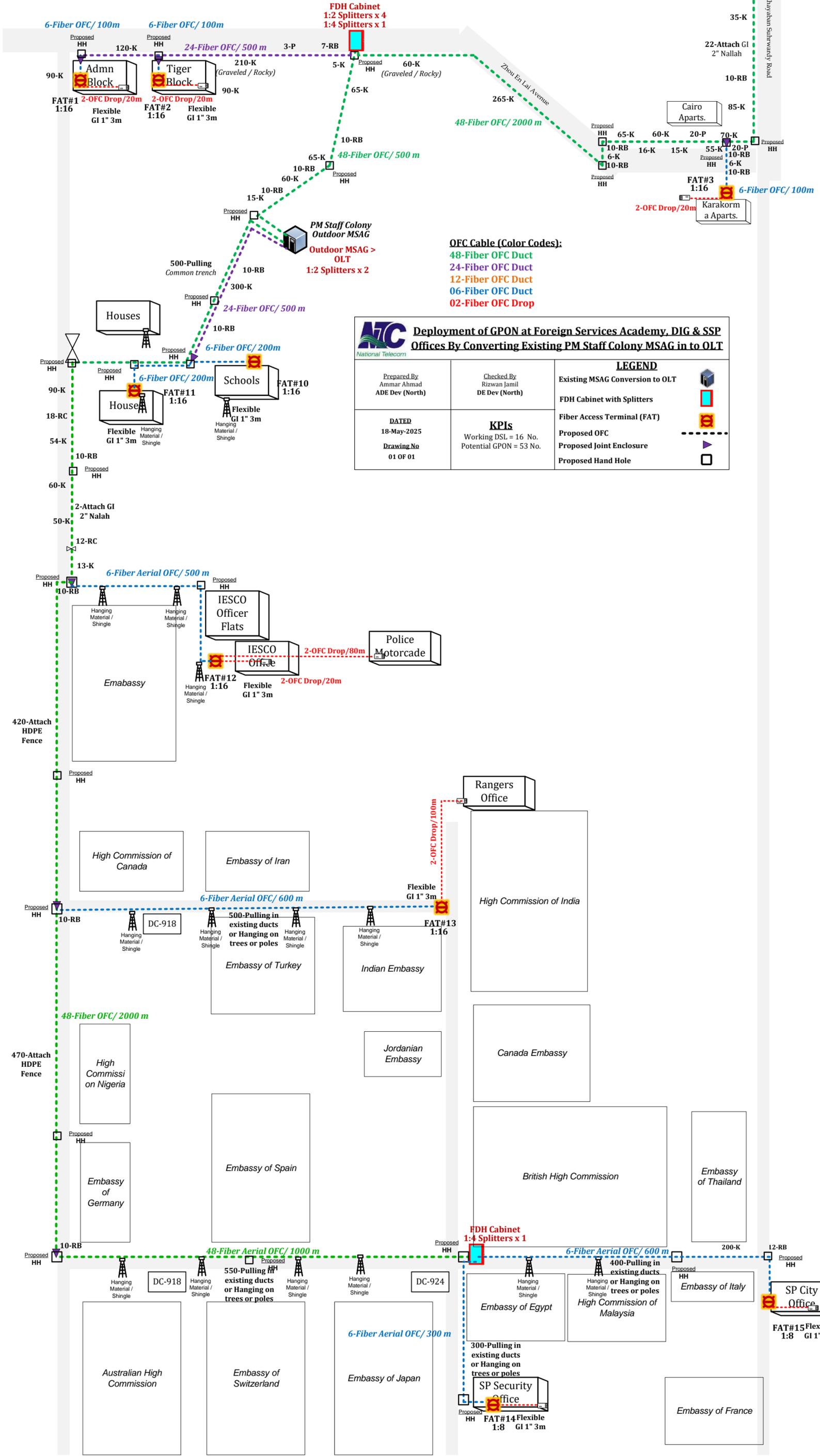
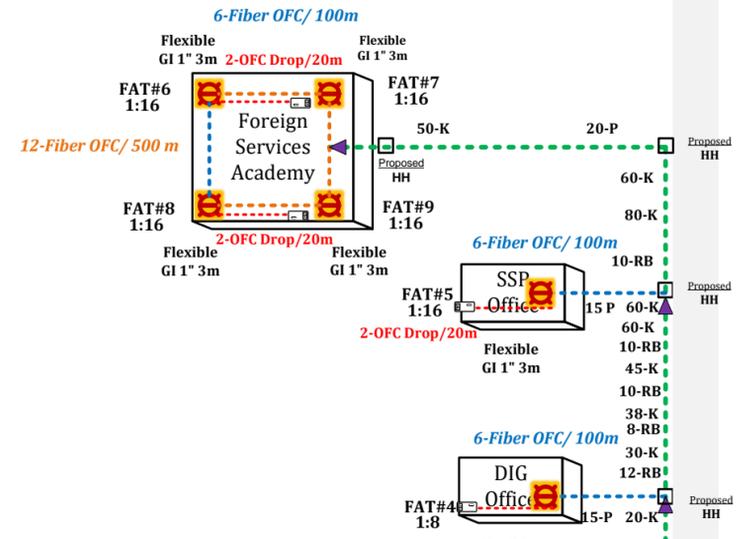
**OFC Cable (Color Codes):**  
48-Fiber OFC Duct  
24-Fiber OFC Duct  
12-Fiber OFC Duct  
06-Fiber OFC Duct  
02-Fiber OFC Drop

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

Bill of Quantity (Store)		Bill of Quantity (Services)	
48F-OFC Duct Buried	- 4,500 m	Kacha (with ROW)	- 2581 m
24F-OFC Duct Buried	- 1,000 m	Kacha (without ROW)	- 180 m
12F-OFC Duct Buried	- 500 m	Pacca (with ROW)	- 80 m
06F-OFC Duct Buried	- 1,000 m	Pacca (without ROW)	- 10 m
48F-Aerial OFC	- 1,000 m	Repair of Pacca	- 90 m
06F-Aerial OFC	- 2,000 m	Road Bore (with ROW)	- 209 m
2-Fiber OFC (Drop Outdoor)*	- 1,200 m	Road Bore (without ROW)	- 10 m
FAT (1:16)	- 12 No	Road Cut (with ROW)	- 30 m
FAT (1:8)	- 03 No	Road Cut (without ROW)	- 10 m
ODF (48 Fiber)	- 02 No	Cleaning Roding & Pulling	- 2250 m
ODF (24 Fiber)	- 02 No	Aerial OFC Pulling /Hanging	- 3,800 m
ODF (6 Fiber)	- 02 No	Attachment HDPE & GI	- 960 m
ATB ODF (2 Fiber) *	- 184 No	FAT Installation with Splicing	- 214 No
Patch Cord (3m)	- 30 No	Hand Hole	- 20 No
Patch Cord (15m)	- 06 No	Splicing Joints	- 72 Fibers
FDH Cabinet+Splitters (1:2)	- 2 No.(05 x)	Termination	- 300 Fibers
J/Enclosure (48F)	- 07 No		
J/Enclosure (24F)	- 03 No		
J/Enclosure (06F)	- 02 No		
HDPE 2" dia	- 4070 m		
HDPE 1" dia	- 500 m		
GI 1" dia Flexible Pipe	- 45 m		
GI 1" dia Pipe	- 10 m		
GI 2" dia Pipe	- 10 m		
Pole for Hanging of OFC	- 08 No		
Hanging Material / Shingle	- 14 Set		

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

\*\* The PM Staff and adjacent are sensitive area and consists of foreign embassies, due to which digging permission may not be granted hence, aerial and pulling option is kept



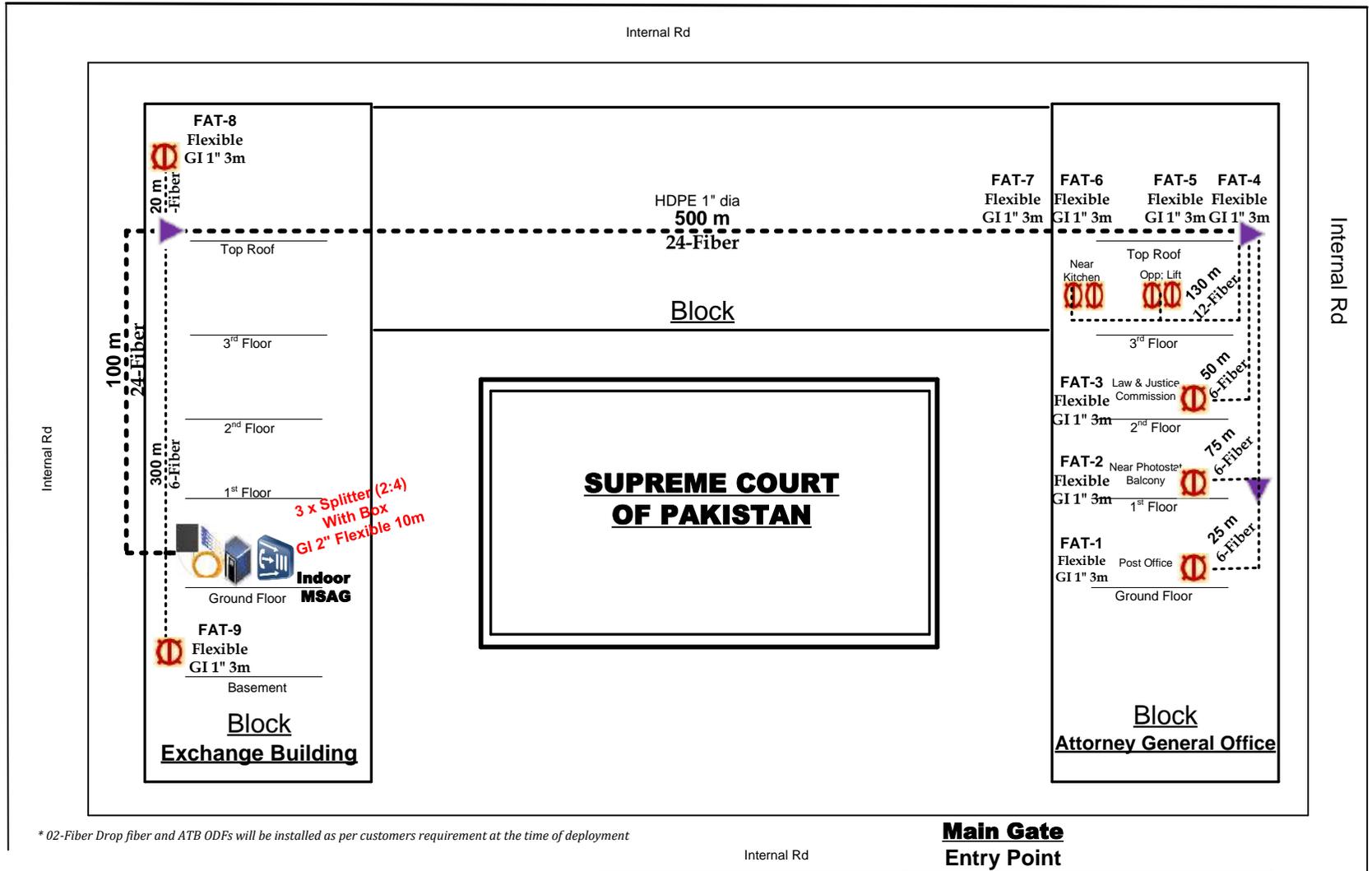
**OFC Cable (Color Codes):**  
 48-Fiber OFC Duct  
 24-Fiber OFC Duct  
 12-Fiber OFC Duct  
 06-Fiber OFC Duct  
 02-Fiber OFC Drop

**ATC National Telecom**

**Deployment of GPON at Foreign Services Academy, DIG & SSP Offices By Converting Existing PM Staff Colony MSAG in to OLT**

LEGEND	
Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)
DATED 18-May-2025	KPIs Working DSL = 16 No. Potential GPON = 53 No.
Drawing No 01 OF 01	

- Existing MSAG Conversion to OLT
- FDH Cabinet with Splitters
- Fiber Access Terminal (FAT)
- Proposed OFC
- Proposed Joint Enclosure
- Proposed Hand Hole



\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

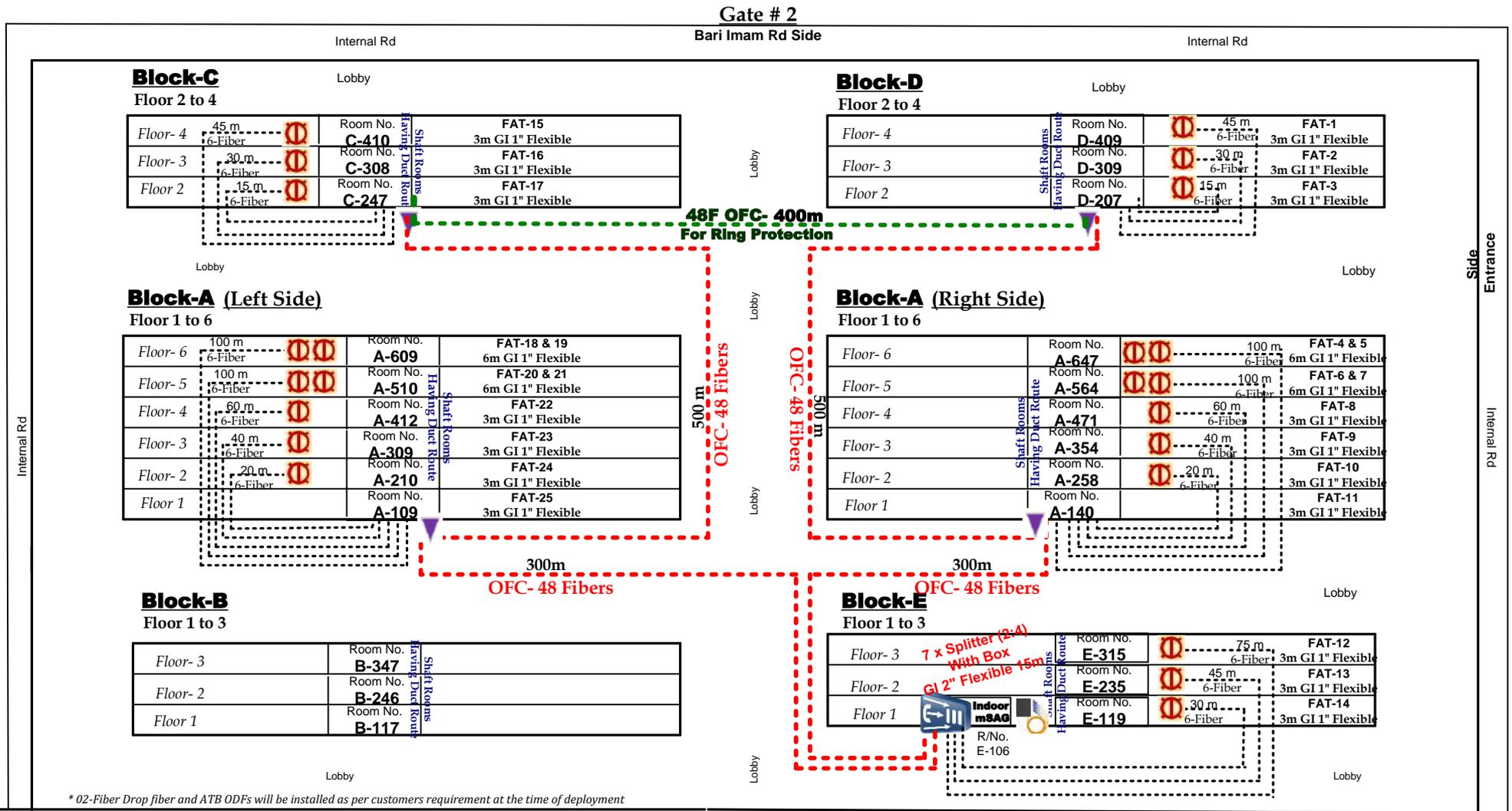
**ATC** National Telecom

**Deployment of GPON By Converting Existing MSAG in to OLT, at Supreme Court of Pakistan Islamabad**

Prepared By Amir Shahzad & Taimur Dev (North) PE	Checked By DE Dev (North) Dev (North) Dte IBA	<b>LEGEND</b> Existing MSAG                  Existing MSAG convert in to OLT                  Proposed Splitters with Box                  Proposed FAT (2:8)                  Proposed OFC                  Proposed Joint Enclosure
DATED 25-09-2024  Drawing No 01 OF 01	<b>KPIs</b> Working DSL = 35 Nos	

Bill of Quantity (Store)	Bill of Quantity (Services)
(24F) OFC Aerial - 800 m	Cleaning Roding & Pulling - 100 m
(12F) OFC Aerial - 200 m	Attachment on walls & trays - 227 m
(6F) OFC Aerial - 600 m	Aerial OFC Pulling /Hanging - 1660 m
2-Fiber OFC (Drop) - 500 m	FAT, ODF Installation - 58 No
FAT (1:8) - 09 No	Splicing & Termination - 112 F
ODF (24 Fiber) - 01 No	
ODF (2-Fiber) ATBs - 48 No.	
FDH Cabinet +Splitters (2:4) - 1 No. (3 No)	
Patch Cord (3m) - 12 No	
Patch Cord (10m) - 12 No	
J/Enclosure (24F) - 02 No	
J/Enclosure (6F) - 01 No	
GI 1" dia Flexible Pipe - 27 m	
GI 2" dia Flexible Pipe - 10 m	
HDPE 1" dia - 500 m	
Duct Patti 1" Dia - 90 m	

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment



**ATC National Telecom**

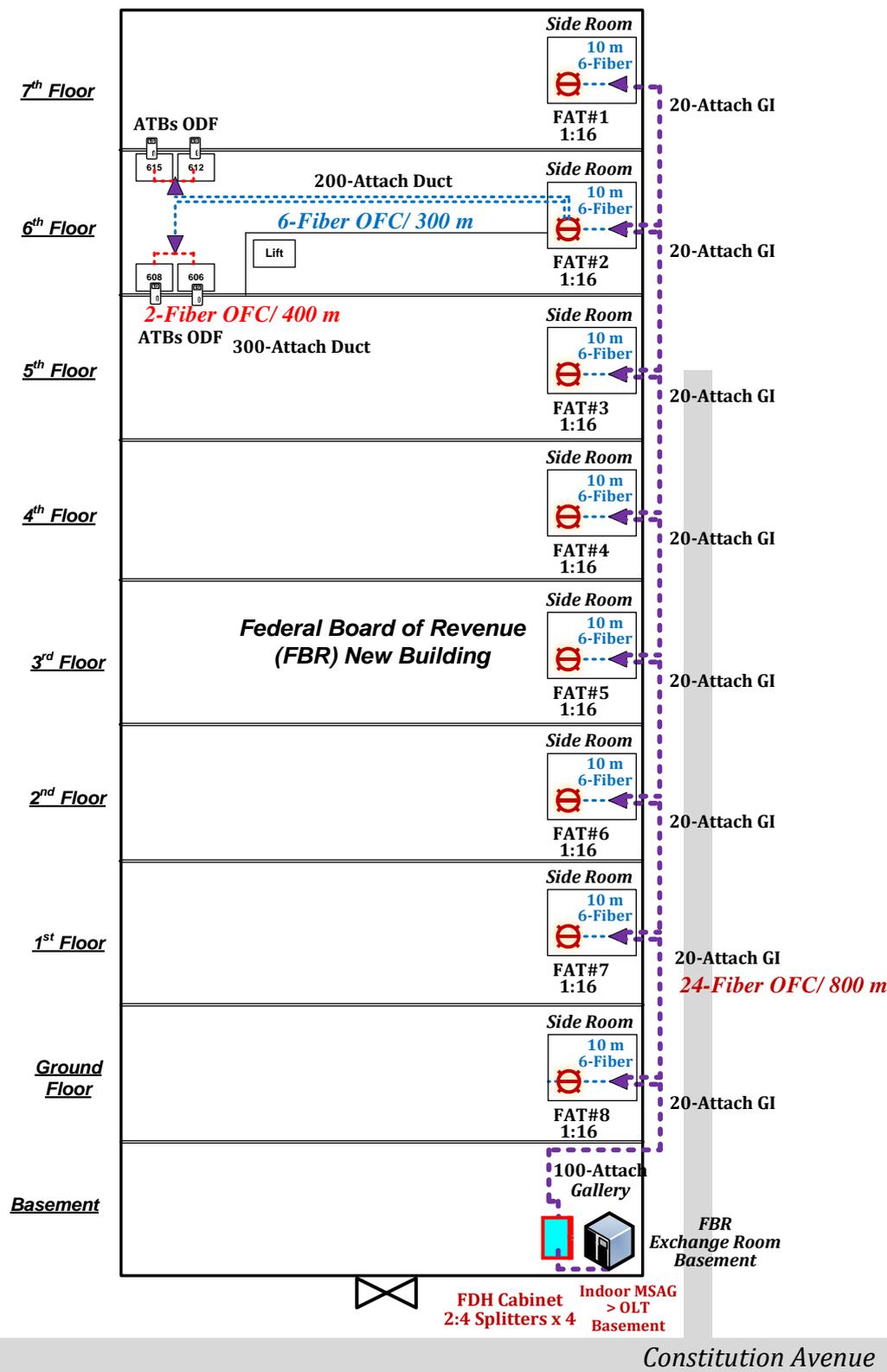
### Deployment of GPON By Converting Existing Pm Office mSAG in to OLT, at Pm Office / Secretariat Islamabad

Prepared By Amir Shahzad & Taimur Dev (North) PE	Checked By DE Dev (North) Dev (North) Dte IBA	<p style="text-align: center;"><b>LEGEND</b></p> <p>Existing mSAG</p> <p>Existing mSAG convert in to OLT</p> <p>Proposed Splitters with Box</p> <p>Proposed FAT (2:8)</p> <p>Proposed OFC</p> <p>Proposed Joint Enclosure</p>
DATED 25-09-2024	<b>KPIs</b> Working DSL = 67 Nos	
Drawing No 02 OF 02		

**Gate # 1**  
Front Side  
main Entrance

Bill of Quantity (Store)	Quantity	Bill of Quantity (Services)	Quantity
(48F) OFC Duct Buried	- 2,000 m	Cleaning, Roding, Pulling	- 3,000 m
(06F) OFC Aerial	- 1,000 m	Attachment on walls & trays	- 385 M
2-Fiber OFC (Drop)	- 1,000 m	FAT, ODF Installation	- 119 No
FDH Cabinet +Splitters (2:4)	- 1 No. (7 No)	Splicing / Termination	- 494 F
ODF (48 Fiber)	- 02 No		
ODF (2-Fiber) ATBs	- 92 No.		
Splitter (2:4)	- 07 No		
Patch Cord (3m)	- 96 No		
Patch Cord (15m)	- 24 No		
J/Enclosure (48F)	- 04 No		
GI 1" dia Flexible Pipe	- 100 m		
GI 2" dia Flexible Pipe	- 15 m		
GI 1" dia Pipe with fitting	- 10 m		
Duct Patti 1" with fitting	- 250 m		
Duct Patti 2" with fitting	- 10 m		

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment



		<b>Deployment of GPON at Federal Board of Revenue (FBR) by converting existing FBR Indoor MSAG to OLT</b>	
Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)	<b>LEGEND</b>	
		Existing MSAG Conversion to OLT	
		FDH Cabinet with Splitters	
		Fiber Access Terminal (FAT)	
DATED 09-Feb-2025	KPIs Working DSL = 5 Nos	Proposed OFC	
Drawing No 01 OF 01		Proposed Joint Enclosure	
		Proposed Hand Hole	

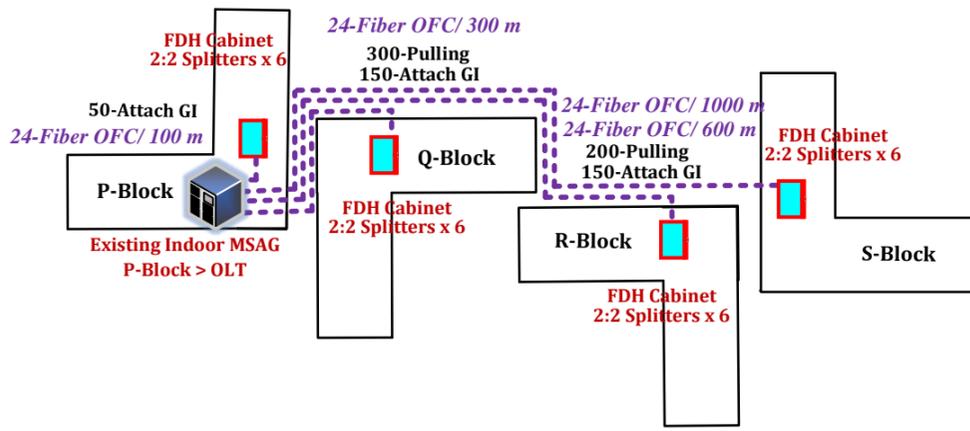
Bill of Quantity (Store)		Bill of Quantity (Services)	
24-Fiber OFC (Duct Buried)	- 800 meter	Cleaning Roding & Pulling	- 400 meter
6-Fiber OFC (Duct Buried)	- 600 meter	Attachment on walls & trays	- 880 meter
2-Fiber OFC (Drop Indoor)	- 400 meter	FAT, ODF Installation	- 19 No
FAT (1:16)	- 08 No	Splicing / Termination	- 108 Fiber
ODF (48-Fiber)	- 01 No		
ODF (24-Fiber)	- 02 No		
ODF (2-Fiber) ATBs	- 08 No.		
Patch Cord (3m)	- 08 No		
Patch Cord (10m)	- 2 No		
FDH Cabinet +Splitters (2:4)	- 1 No. (4 No)		
J/Enclosure (24F)	- 08 No		
HDPE 2" dia	- 20 meter		
GI 1" dia Flexible Pipe	- 200 meter		
Duct Patti 1" Dia	- 580 meter		

**OFC Cable (Color Codes):**  
 48-Fiber OFC Duct  
 24-Fiber OFC Duct  
 12-Fiber OFC Duct  
 06-Fiber OFC Duct  
 02-Fiber OFC Drop

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

# Deployment of GPON at P,Q,R,S Block Pak Secretariat by converting existing P-Block Indoor MSAG to OLT Annex-14

## P,Q,R,S Blocks OLT to FDHs Connectivity



## P-Block FDH to FATs & ATBs Connectivity

P-Block (Left Side)		Shaft Room Having Duct Route		(Right Side) Block-P		KPIs	
Floor GF, 1 to 4				Floor GF, 1 to 6		Working DSL = 05 Nos	
			80-Attach GI	1:32 FAT#12	ATBs ODF	Floor-6	6-Fiber OFC/ 350 m
			70-Attach GI	1:32 FAT#11	ATBs ODF	Floor-5	6-Fiber OFC/ 300 m
6-Fiber OFC/ 250 m	Floor-4	60-Attach GI	60-Attach GI	1:32 FAT#10	ATBs ODF	Floor-4	6-Fiber OFC/ 250 m
6-Fiber OFC/ 200 m	Floor-3	50-Attach GI	50-Attach GI	1:32 FAT#8	ATBs ODF	Floor-3	6-Fiber OFC/ 200 m
6-Fiber OFC/ 150 m	Floor-2	40-Attach GI	40-Attach GI	1:32 FAT#6	ATBs ODF	Floor-2	6-Fiber OFC/ 150 m
6-Fiber OFC/ 100 m	Floor-1	30-Attach GI	30-Attach GI	1:32 FAT#4	ATBs ODF	Floor-1	6-Fiber OFC/ 100 m
6-Fiber OFC/ 50 m	Ground	20-Attach GI	20-Attach GI	1:32 FAT#2	ATBs ODF	Ground	6-Fiber OFC/ 50 m
	Basement	800-Attach (False ceiling) 2-Fiber OFC/1000 m (15 customers ATBs per floor one side)		800-Attach (False ceiling) 2-Fiber OFC/1000 m (15 customers ATBs per floor one side)		Basement	

24-Fiber OFC From GPON Board P-Block OLT

FDH Cabinet / ODF 2:2 Splitters x 6

## Q-Block FDH to FATs & ATBs Connectivity

Q-Block (Left Side)		Shaft Room Having Duct Route		(Right Side) Block-Q		KPIs	
Floor GF, 1 to 4				Floor GF, 1 to 6		Working DSL = 29 Nos	
			80-Attach GI	1:32 FAT#12	ATBs ODF	Floor-6	6-Fiber OFC/ 350 m
			70-Attach GI	1:32 FAT#11	ATBs ODF	Floor-5	6-Fiber OFC/ 300 m
6-Fiber OFC/ 250 m	Floor-4	60-Attach GI	60-Attach GI	1:32 FAT#10	ATBs ODF	Floor-4	6-Fiber OFC/ 250 m
6-Fiber OFC/ 200 m	Floor-3	50-Attach GI	50-Attach GI	1:32 FAT#8	ATBs ODF	Floor-3	6-Fiber OFC/ 200 m
6-Fiber OFC/ 150 m	Floor-2	40-Attach GI	40-Attach GI	1:32 FAT#6	ATBs ODF	Floor-2	6-Fiber OFC/ 150 m
6-Fiber OFC/ 100 m	Floor-1	30-Attach GI	30-Attach GI	1:32 FAT#4	ATBs ODF	Floor-1	6-Fiber OFC/ 100 m
6-Fiber OFC/ 50 m	Ground	20-Attach GI	20-Attach GI	1:32 FAT#2	ATBs ODF	Ground	6-Fiber OFC/ 50 m
	Basement	800-Attach (False ceiling) 2-Fiber OFC/1000 m (15 customers ATBs per floor one side)		800-Attach (False ceiling) 2-Fiber OFC/1000 m (15 customers ATBs per floor one side)		Basement	

24-Fiber OFC From GPON Board P-Block OLT

FDH Cabinet / ODF 2:2 Splitters x 6

## R-Block FDH to FATs & ATBs Connectivity

R-Block (Left Side)		Shaft Room Having Duct Route		(Right Side) Block-R		KPIs	
Floor GF, 1 to 4				Floor GF, 1 to 6		Working DSL = 109 Nos	
			80-Attach GI	1:32 FAT#12	ATBs ODF	Floor-6	6-Fiber OFC/ 350 m
			70-Attach GI	1:32 FAT#11	ATBs ODF	Floor-5	6-Fiber OFC/ 300 m
6-Fiber OFC/ 250 m	Floor-4	60-Attach GI	60-Attach GI	1:32 FAT#10	ATBs ODF	Floor-4	6-Fiber OFC/ 250 m
6-Fiber OFC/ 200 m	Floor-3	50-Attach GI	50-Attach GI	1:32 FAT#8	ATBs ODF	Floor-3	6-Fiber OFC/ 200 m
6-Fiber OFC/ 150 m	Floor-2	40-Attach GI	40-Attach GI	1:32 FAT#6	ATBs ODF	Floor-2	6-Fiber OFC/ 150 m
6-Fiber OFC/ 100 m	Floor-1	30-Attach GI	30-Attach GI	1:32 FAT#4	ATBs ODF	Floor-1	6-Fiber OFC/ 100 m
6-Fiber OFC/ 50 m	Ground	20-Attach GI	20-Attach GI	1:32 FAT#2	ATBs ODF	Ground	6-Fiber OFC/ 50 m
	Basement	800-Attach (False ceiling) 2-Fiber OFC/1000 m (15 customers ATBs per floor one side)		800-Attach (False ceiling) 2-Fiber OFC/1000 m (15 customers ATBs per floor one side)		Basement	

24-Fiber OFC From GPON Board P-Block OLT

FDH Cabinet / ODF 2:2 Splitters x 6

## S-Block FDH to FATs & ATBs Connectivity

S-Block (Left Side)		Shaft Room Having Duct Route		(Right Side) Block-S		KPIs	
Floor GF, 1 to 4				Floor GF, 1 to 6		Working DSL = 50 Nos	
			80-Attach GI	1:32 FAT#12	ATBs ODF	Floor-6	6-Fiber OFC/ 350 m
			70-Attach GI	1:32 FAT#11	ATBs ODF	Floor-5	6-Fiber OFC/ 300 m
6-Fiber OFC/ 250 m	Floor-4	60-Attach GI	60-Attach GI	1:32 FAT#10	ATBs ODF	Floor-4	6-Fiber OFC/ 250 m
6-Fiber OFC/ 200 m	Floor-3	50-Attach GI	50-Attach GI	1:32 FAT#8	ATBs ODF	Floor-3	6-Fiber OFC/ 200 m
6-Fiber OFC/ 150 m	Floor-2	40-Attach GI	40-Attach GI	1:32 FAT#6	ATBs ODF	Floor-2	6-Fiber OFC/ 150 m
6-Fiber OFC/ 100 m	Floor-1	30-Attach GI	30-Attach GI	1:32 FAT#4	ATBs ODF	Floor-1	6-Fiber OFC/ 100 m
6-Fiber OFC/ 50 m	Ground	20-Attach GI	20-Attach GI	1:32 FAT#2	ATBs ODF	Ground	6-Fiber OFC/ 50 m
	Basement	800-Attach (False ceiling) 2-Fiber OFC/1000 m (15 customers ATBs per floor one side)		800-Attach (False ceiling) 2-Fiber OFC/1000 m (15 customers ATBs per floor one side)		Basement	

24-Fiber OFC From GPON Board P-Block OLT

FDH Cabinet / ODF 2:2 Splitters x 6

## Deployment of GPON at P,Q,R,S Block Pak Secretariat by converting existing P-Block Indoor MSAG to OLT

Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)	<b>LEGEND</b> Existing MSAG Conversion to OLT FDH Cabinet with Splitters Fiber Access Terminal (FAT) Proposed OFC Proposed Joint Enclosure Proposed Hand Hole
DATED 09-Feb-2025	KPIs Working DSL = 190 Nos	
Drawing No 01 OF 01		

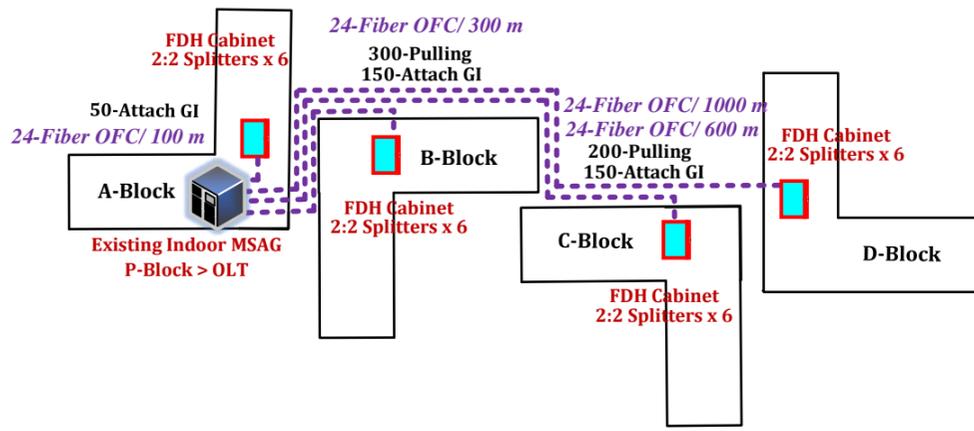
Bill of Quantity (Store)	Bill of Quantity (Services)
24-Fiber OFC (Duct Buried) - 2,000 meter	Kacha (with ROW) - 5 meter
12-Fiber OFC (Duct Buried) - 2,000 meter	Kacha (without ROW) - 500 meter
6-Fiber OFC (Duct Buried) - 6,000 meter	Pacca /TT (with ROW) - 5 meter
2-Fiber OFC (Drop Indoor) - 3,000 meter	Pacca /TT- (without ROW) - 50 meter
FDH Cabinet + Splitters (2:2) - 4 No. (6 No)	Repair of Pacca - 55 meter
FAT (1:32) (wall/ rack mount) - 48 No.	R/ Bore (with ROW) - 5 meter
ODF (48-Fiber) - 02 No.	R/ Bore (without ROW) - 50 meter
ODF (24-Fiber) - 04 No.	Cleaning Roding & Pulling - 3,000 meter
ODF (2-Fiber) ATBs - 190 No.	Attachment on walls & trays - 3,580 meter
Patch Cord (3m) - 190 No.	FDH + Splitters Installation - 4 No.
Patch Cord (10m) - 4 No.	FAT, ODF Installation - 315 No.
J/Enclosure (24F) - 02 No.	Splicing / Termination - 400 Fiber
J/Enclosure (6F) - 02 No.	
HDPE 2" dia - 100 meter	
GI 1" dia Flexible Pipe - 3,000 meter	
Duct Patti 1" - 480 Meter	

**OFC Cable (Color Codes):**  
 48-Fiber OFC Duct  
 24-Fiber OFC Duct  
 12-Fiber OFC Duct  
 06-Fiber OFC Duct  
 02-Fiber OFC Drop

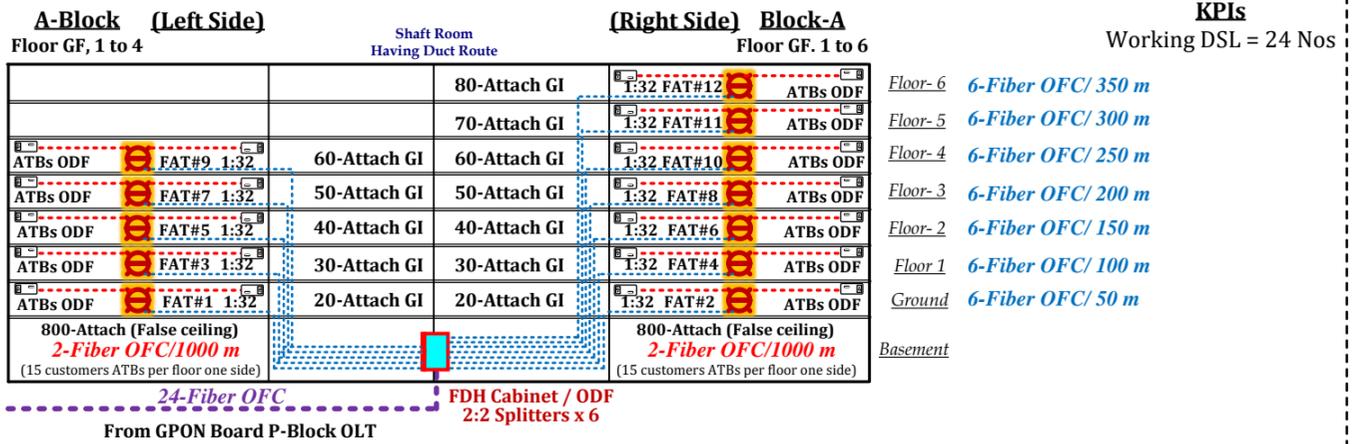
\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

# Deployment of GPON at A,B,C,D Block Pak Secretariat by converting existing A-Block Indoor MSAG to OLT Annex-15

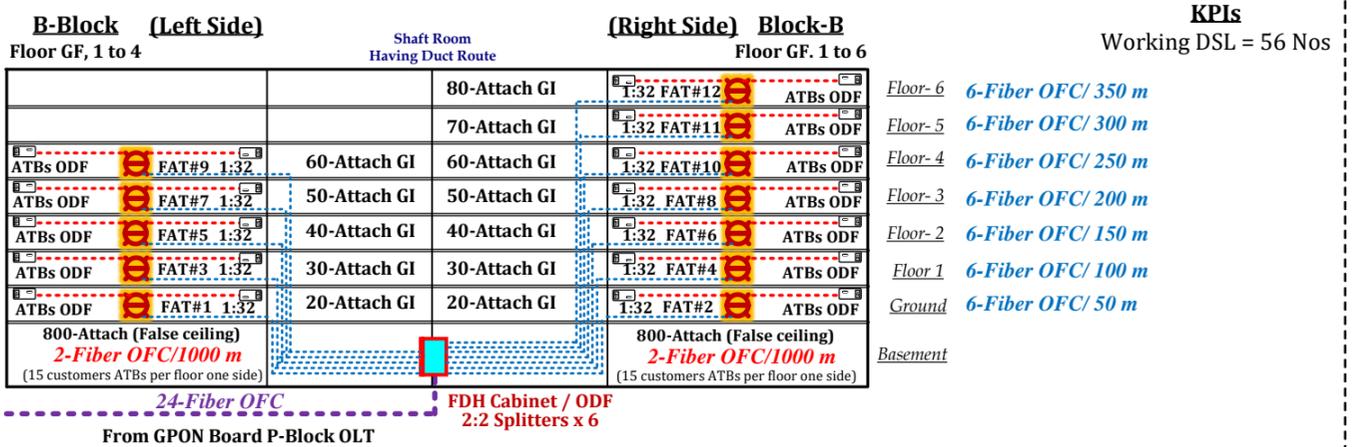
## A,B,C,D Blocks OLT to FDHs Connectivity



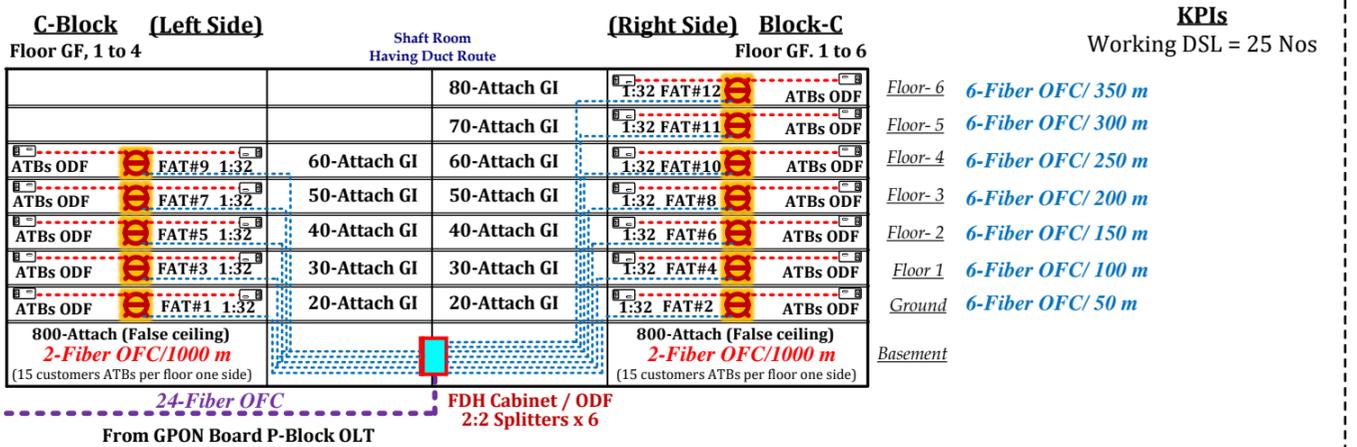
## A-Block FDH to FATs & ATBs Connectivity



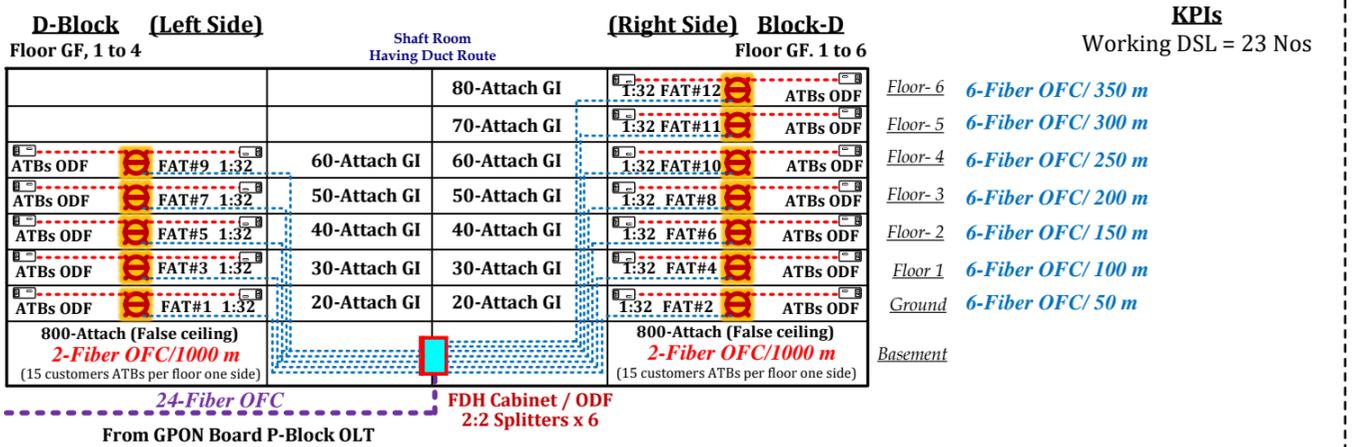
## B-Block FDH to FATs & ATBs Connectivity



## C-Block FDH to FATs & ATBs Connectivity



## D-Block FDH to FATs & ATBs Connectivity



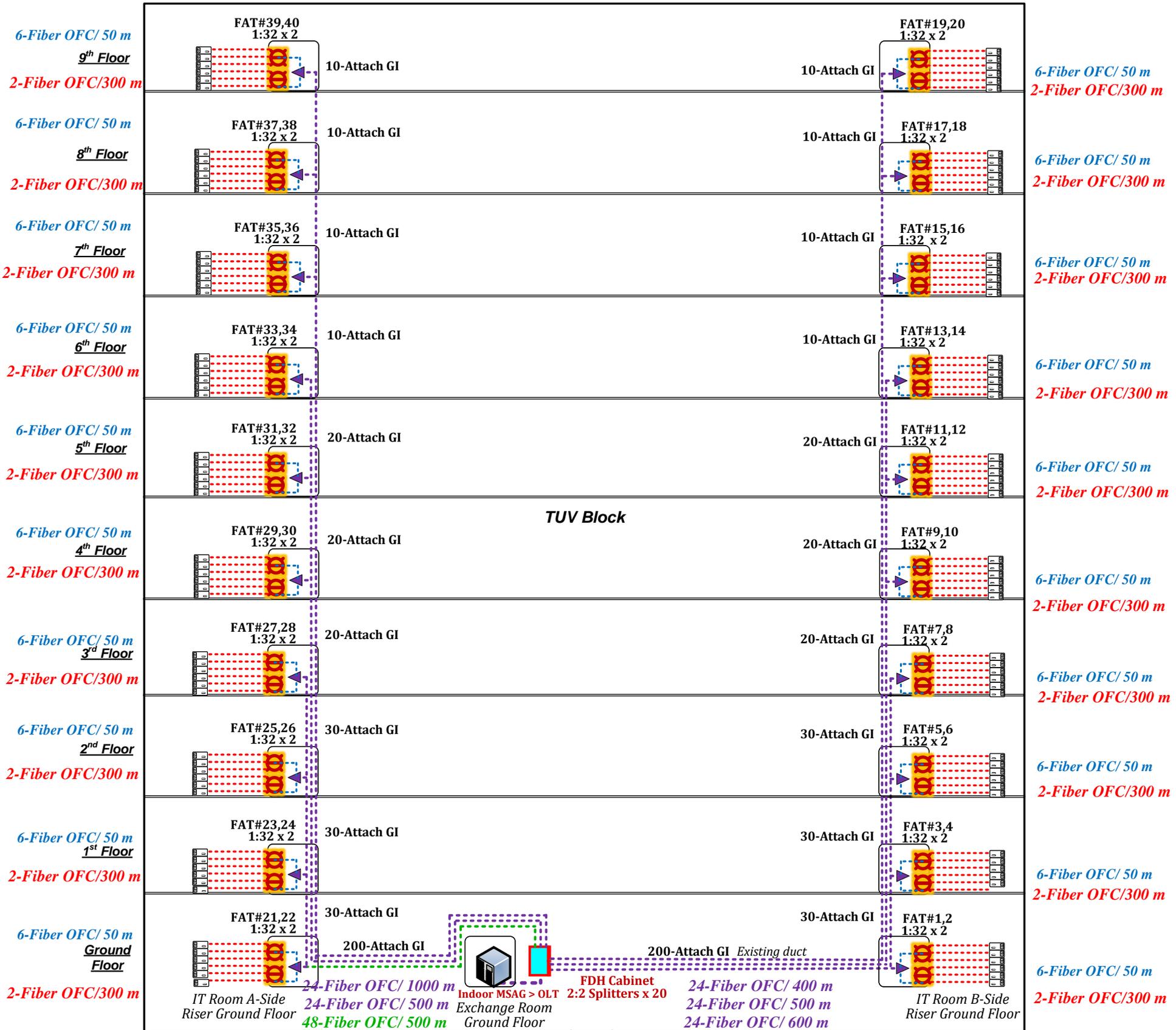
## Deployment of GPON at A,B,C,D Block Pak Secretariat by converting existing A-Block Indoor MSAG to OLT

	Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)	<b>LEGEND</b> Existing MSAG Conversion to OLT FDH Cabinet with Splitters Fiber Access Terminal (FAT) Proposed OFC Proposed Joint Enclosure Proposed Hand Hole
DATED 09-Feb-2025 Drawing No 01 OF 01	KPIs Working DSL = 128 Nos		

Bill of Quantity (Store)		Bill of Quantity (Services)	
24-Fiber OFC (Duct Buried)	- 2,000 meter	Kacha (with ROW)	- 5 meter
12-Fiber OFC (Duct Buried)	- 2,000 meter	Kacha (without ROW)	- 500 meter
6-Fiber OFC (Duct Buried)	- 8,600 meter	Pacca /TT (with ROW)	- 5 meter
2-Fiber OFC (Drop Indoor)	- 4,000 meter	Pacca /TT- (without ROW)	- 50 meter
FDH Cabinet +Splitters (2:2)	- 4 No. (6 No)	Repair of Pacca	- 55 meter
FAT (1:32) (wall/ rack mount)	- 48 No.	R/Bore (with ROW)	- 5 meter
ODF (48-Fiber)	- 02 No.	R/Bore (without ROW)	- 50 meter
ODF (24-Fiber)	- 04 No.	Cleaning Roding & Pulling	- 3,000 meter
ODF (2-Fiber) ATBs	- 176 No.	Attachment on walls & trays	- 3,580 meter
Patch Cord (3m)	- 190 No.	FDH + Splitters Installation	- 4 No.
Patch Cord (10m)	- 4 No.	FAT, ODF Installation	- 231 No.
J/Enclosure (24F)	- 02 No.	Splicing / Termination	- 400 Fiber
J/Enclosure (6F)	- 02 No.		
HDPE 2" dia	- 100 meter		
GI 1" dia Flexible Pipe	- 3,000 meter		
Duct Patti 1"	- 480 Meter		

**OFC Cable (Color Codes):**  
 48-Fiber OFC Duct  
 24-Fiber OFC Duct  
 12-Fiber OFC Duct  
 06-Fiber OFC Duct  
 02-Fiber OFC Drop

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment



**NTC** National Telecom

**Deployment of GPON at TUV Kohsar Block by converting existing TUV Block Indoor MSAG to OLT**

Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)	<b>LEGEND</b> Existing MSAG Conversion to OLT FDH Cabinet with Splitters Fiber Access Terminal (FAT) Proposed OFC Proposed Joint Enclosure Proposed Hand Hole
DATED 09-Feb-2025	<b>KPIs</b> Working DSL = 243 Nos	
Drawing No 01 OF 01		

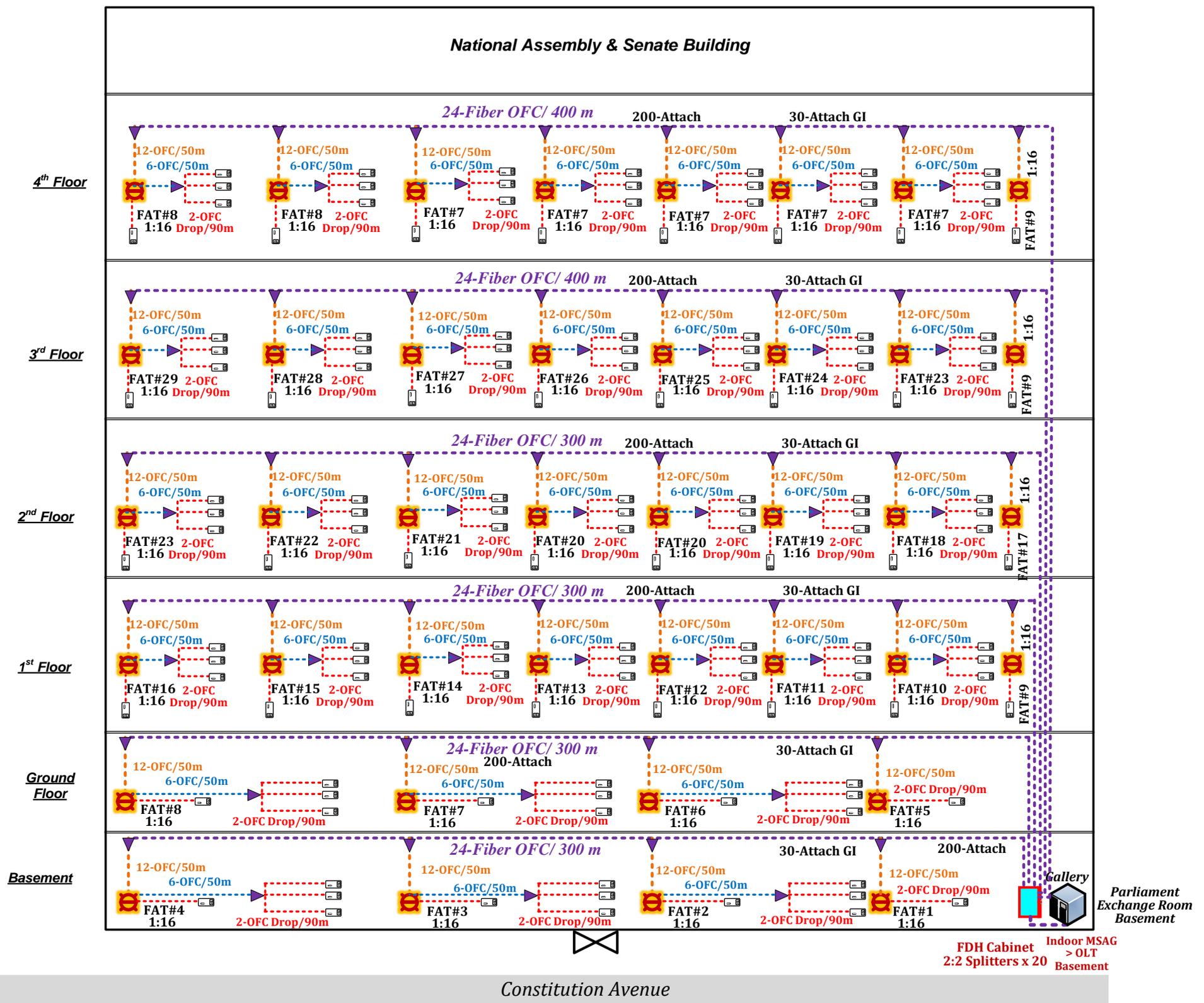
Bill of Quantity (Store)		Bill of Quantity (Services)	
48-Fiber OFC (Duct Buried)	- 500 meter	Cleaning Roding & Pulling	- 3,000 meter
24-Fiber OFC (Duct Buried)	- 3,000 meter	Attachment on walls & trays	- 3,500 meter
12-Fiber OFC (Duct Buried)	- 3,000 meter	FAT, ODF Installation	- 401 No
6-Fiber OFC (Duct Buried)	- 1,000 meter	Splicing / Termination	- 400 Fiber
2-Fiber OFC (Drop Indoor)	- 7,000 meter		
FAT (1:32)	- 40 No		
ODF (48-Fiber)	- 05 No		
ODF (24-Fiber)	- 02 No		
ODF (06-Fiber)	- 20 No		
ODF (2-Fiber) ATBs	- 334 No		
Patch Cord (3m)	- 100 No		
Patch Cord (10m)	- 4 No		
FDH Cabinet +Splitters (2:2)	- 1 No. (20 x)		
J/Enclosure (24F)	- 20 No		
HDPE 2" dia	- 100 meter		
GI 1" dia Flexible Pipe	- 3,000 meter		
Duct Patti 1"	- 400 Meter		

**OFC Cable (Color Codes):**  
 48-Fiber OFC Duct  
 24-Fiber OFC Duct  
 12-Fiber OFC Duct  
 06-Fiber OFC Duct  
 02-Fiber OFC Drop

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

# Deployment of GPON at National Assembly by converting existing National Assembly Indoor MSAG to OLT Annex-I7

112 meters



Constitution Avenue

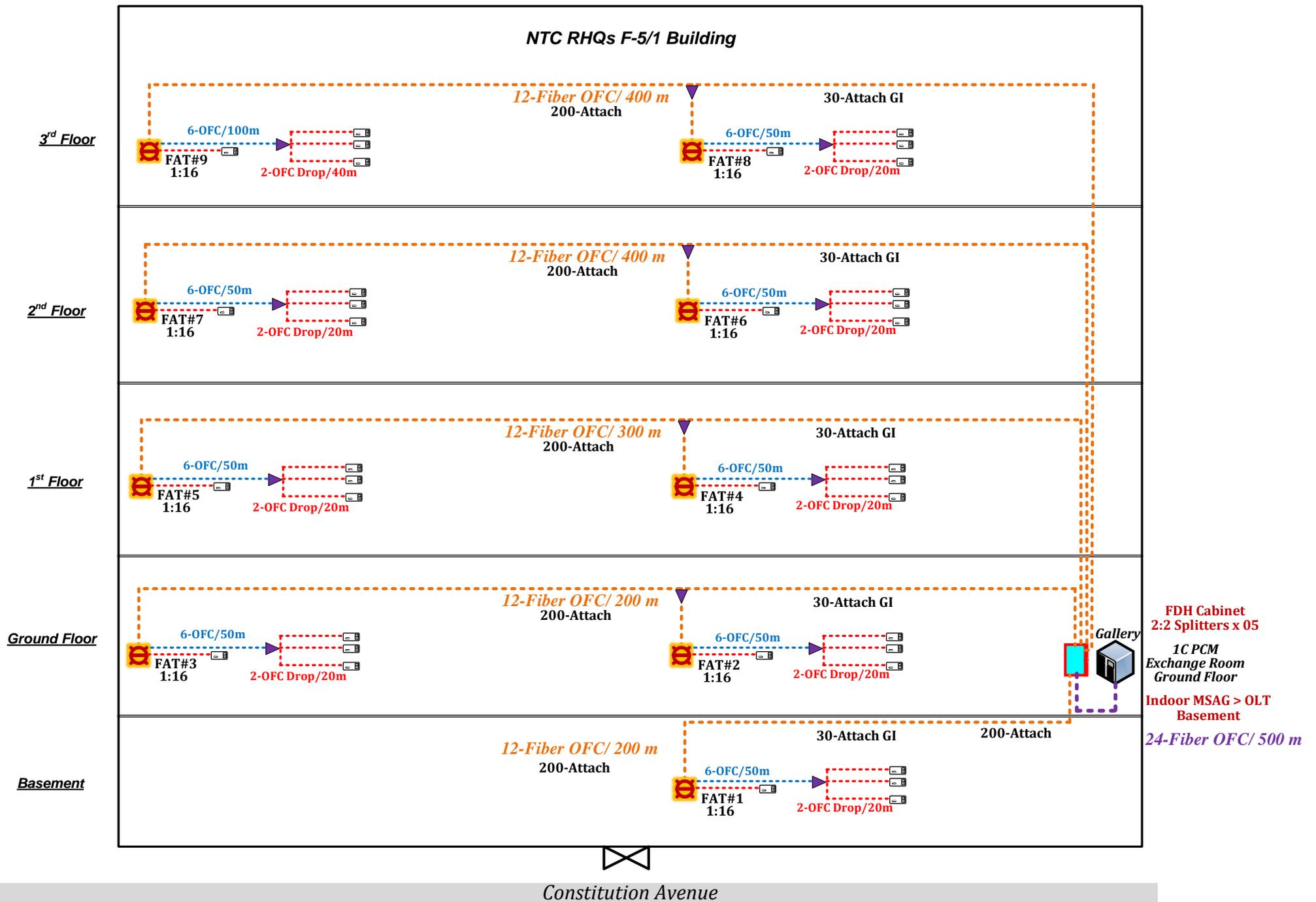
 <b>Deployment of GPON at National Assembly by converting existing National Assembly Indoor MSAG to OLT</b>	
Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)
DATED 09-Feb-2025 Drawing No 01 OF 01	<b>KPIs</b> Working DSL = 148 Nos
<b>LEGEND</b>	
Existing MSAG Conversion to OLT 	
FDH Cabinet with Splitters 	
Fiber Access Terminal (FAT) 	
Proposed OFC 	
Proposed Joint Enclosure 	
Proposed Hand Hole 	

Bill of Quantity (Store)		Bill of Quantity (Services)	
24-Fiber OFC (Duct Buried)	- 2,000 meter	Cleaning Roding & Pulling	- 2,000 meter
12-Fiber OFC (Duct Buried)	- 2,000 meter	Attachment on walls & trays	- 3,500 meter
6-Fiber OFC (Duct Buried)	- 2,000 meter	FAT, ODF Installation	- 255 No
2-Fiber OFC (Drop Indoor)	- 4,000 meter	Splicing Fibers	- 480 Fiber
FAT (1:16)	- 40 No	Termination Fibers	- 864 Fiber
ODF (48-Fiber)	- 01 No		
ODF (24-Fiber)	- 10 No		
ODF (2-Fiber) ATBs	- 204 No		
Patch Cord (3m)	- 150 No		
Patch Cord (10m)	- 2 No		
FDH Cabinet + Splitters (2:2)	- 1 No. (20 x)		
J/Enclosure (24F)	- 40 No		
J/Enclosure (6F)	- 40 No		
HDPE 1" dia	- 1,000 meter		
GI 1" dia Flexible Pipe	- 3,000 meter		
Duct Patti 1"	- 400 Meter		

**OFC Cable (Color Codes):**  
 48-Fiber OFC Duct  
 24-Fiber OFC Duct  
 12-Fiber OFC Duct  
 06-Fiber OFC Duct  
 02-Fiber OFC Drop

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

70 meters



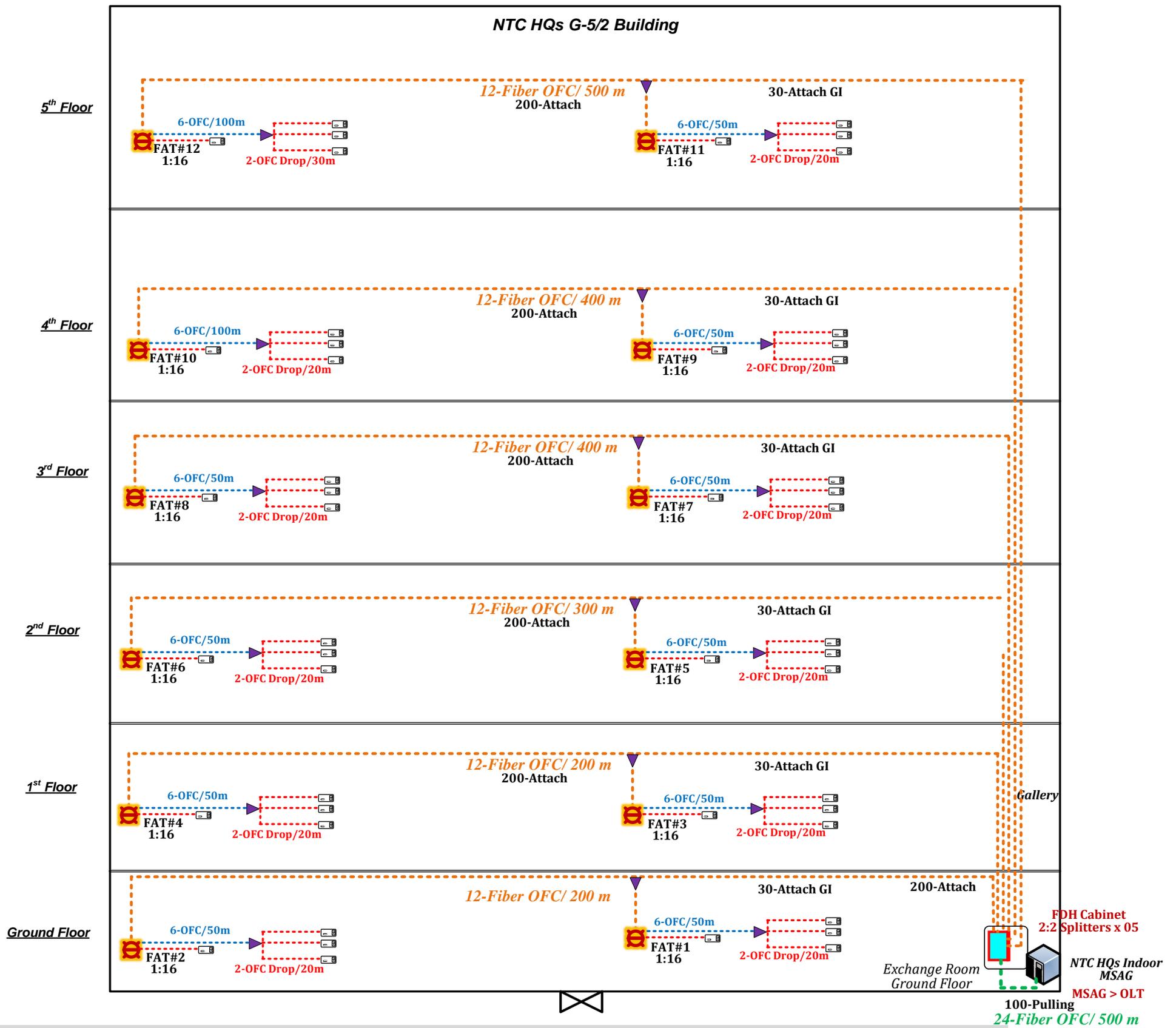
<b>Deployment of GPON at NTC RHQs Building F-5 by converting existing 1C Indoor MSAG to OLT</b>	
Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)
<b>LEGEND</b>	
Existing MSAG Conversion to OLT	
FDH Cabinet with Splitters	
Fiber Access Terminal (FAT)	
Proposed OFC	
Proposed Joint Enclosure	
Proposed Hand Hole	
DATED 09-Feb-2025 Drawing No 01 OF 01	KPIs Working DSL = 16 Nos

Bill of Quantity (Store)		Bill of Quantity (Services)	
24-Fiber OFC (Duct Buried)	- 500 meter	Cleaning Roding & Pulling	- 600 meter
12-Fiber OFC (Duct Buried)	- 1,500 meter	Attachment on walls & trays	- 890 meter
6-Fiber OFC (Duct Buried)	- 500 meter	FAT, ODF Installation	- 33 No
2-Fiber OFC (Drop Indoor)	- 500 meter	Splicing Fibers	- 102 Fiber
FAT (1:16)	- 9 No	Termination Fibers	- 200 Fiber
ODF (24-Fiber)	- 02 No		
ODF (2-Fiber) ATBs	- 22 No		
Patch Cord (3m)	- 20 No		
Patch Cord (10m)	- 2 No		
FDH Cabinet +Splitters (2:2)	- 1 No. (05 x)		
J/Enclosure (12F)	- 04 No		
J/Enclosure (6F)	- 09 No		
HDPE 1" dia	- 600 meter		
GI 1" dia Flexible Pipe	- 700 meter		
Duct Patti 1"	- 90 Meter		

**OFC Cable (Color Codes):**  
 48-Fiber OFC Duct  
 24-Fiber OFC Duct  
 12-Fiber OFC Duct  
 06-Fiber OFC Duct  
 02-Fiber OFC Drop

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

70 meters



**NTC** National Telecom

**Deployment of GPON at NTC HQs G-5/2 by converting existing NTC HQs Indoor MSAG to OLT**

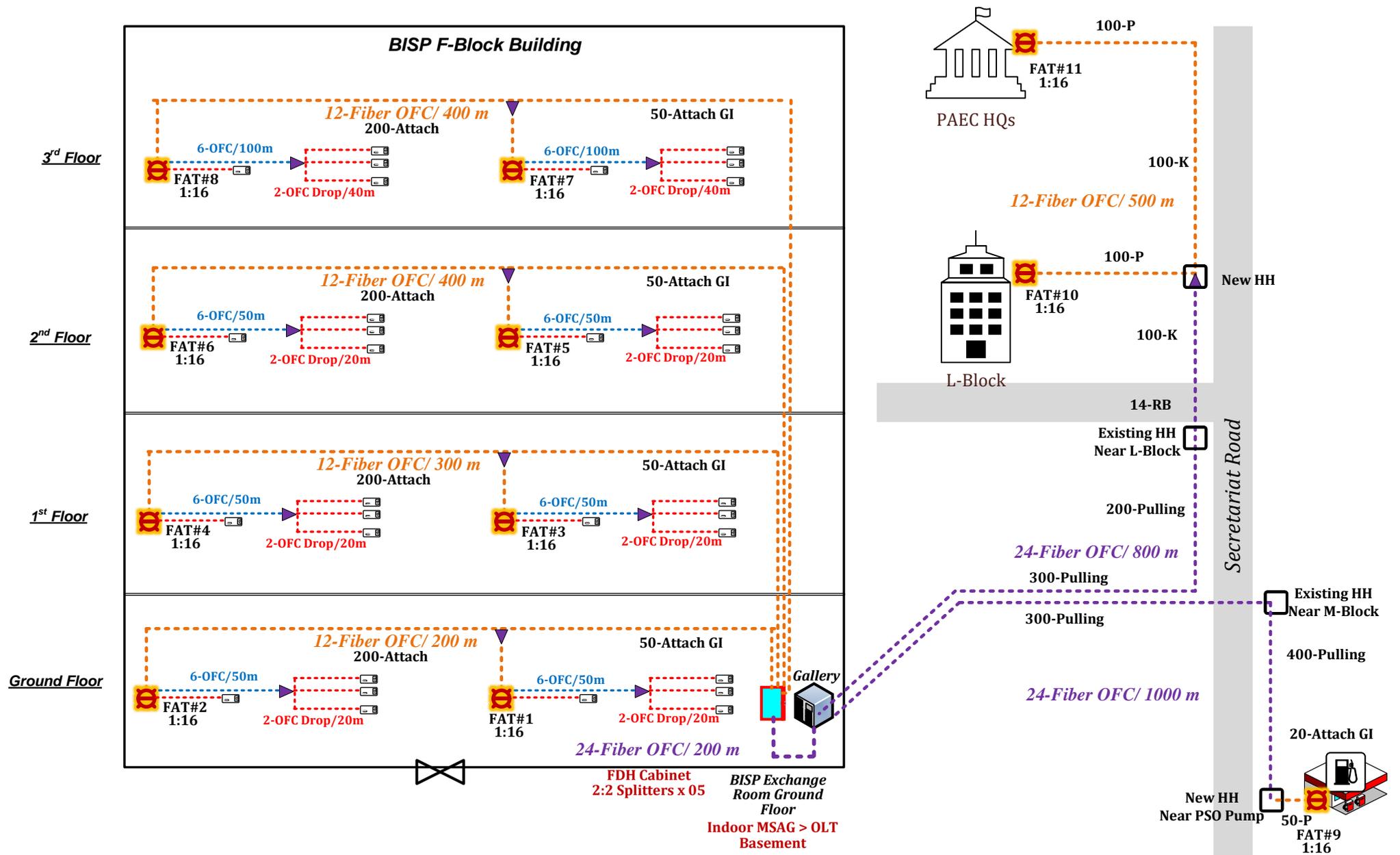
Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)	<b>LEGEND</b>
<b>DATED</b> 09-Feb-2025	<b>KPIs</b> Working DSL = 06 Nos	Existing MSAG Conversion to OLT
<b>Drawing No</b> 01 OF 01		FDH Cabinet with Splitters
		Fiber Access Terminal (FAT)
		Proposed OFC
		Proposed Joint Enclosure
		Proposed Hand Hole

Bill of Quantity (Store)		Bill of Quantity (Services)	
24-Fiber OFC (Duct Buried)	- 500 meter	Cleaning Roding & Pulling	- 500 meter
12-Fiber OFC (Duct Buried)	- 2,000 meter	Attachment on walls & trays	- 1,225 meter
6-Fiber OFC (Duct Buried)	- 700 meter	FAT, ODF Installation	- 24 No
2-Fiber OFC (Drop Indoor)	- 200 meter	Splicing Fibers	- 200 Fiber
FAT (1:16)	- 12 No	Termination Fibers	- 200 Fiber
ODF (48-Fiber)	- 02 No		
ODF (24-Fiber)	- 04 No		
ODF (2-Fiber) ATBs	- 08 No		
Patch Cord (3m)	- 20 No		
Patch Cord (10m)	- 2 No		
FDH Cabinet +Splitters (2:2)	- 1 No. (05 x)		
J/Enclosure (12F)	- 06 No		
J/Enclosure (6F)	- 12 No		
HDPE 1" dia	- 500 meter		
GI 1" dia Flexible Pipe	- 1,000 meter		
Duct Patti 1"	- 1,20 Meter		

**OFC Cable (Color Codes):**  
 48-Fiber OFC Duct  
 24-Fiber OFC Duct  
 12-Fiber OFC Duct  
 06-Fiber OFC Duct  
 02-Fiber OFC Drop

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

# Deployment of GPON at BISP F-Block Building by converting existing BISP F-block Indoor MSAG to OLT Annex-J10



\*\* Pak secretariat (L-Block and PAEC HQs) is a sensitive area and consists of Secure authorities, due to which digging permission may not be granted hence actual deployment plan is subject to change

**Deployment of GPON at BISP F-Block Building by converting existing BISP F-block Indoor MSAG to OLT**

Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)	<b>LEGEND</b>
<b>DATED</b> 09-Feb-2025	<b>KPIs</b> Working DSL = 16 Nos	Existing MSAG Conversion to OLT
<b>Drawing No</b> 01 OF 01		FDH Cabinet with Splitters
		Fiber Access Terminal (FAT)
		Proposed OFC
		Proposed Joint Enclosure
		Proposed Hand Hole

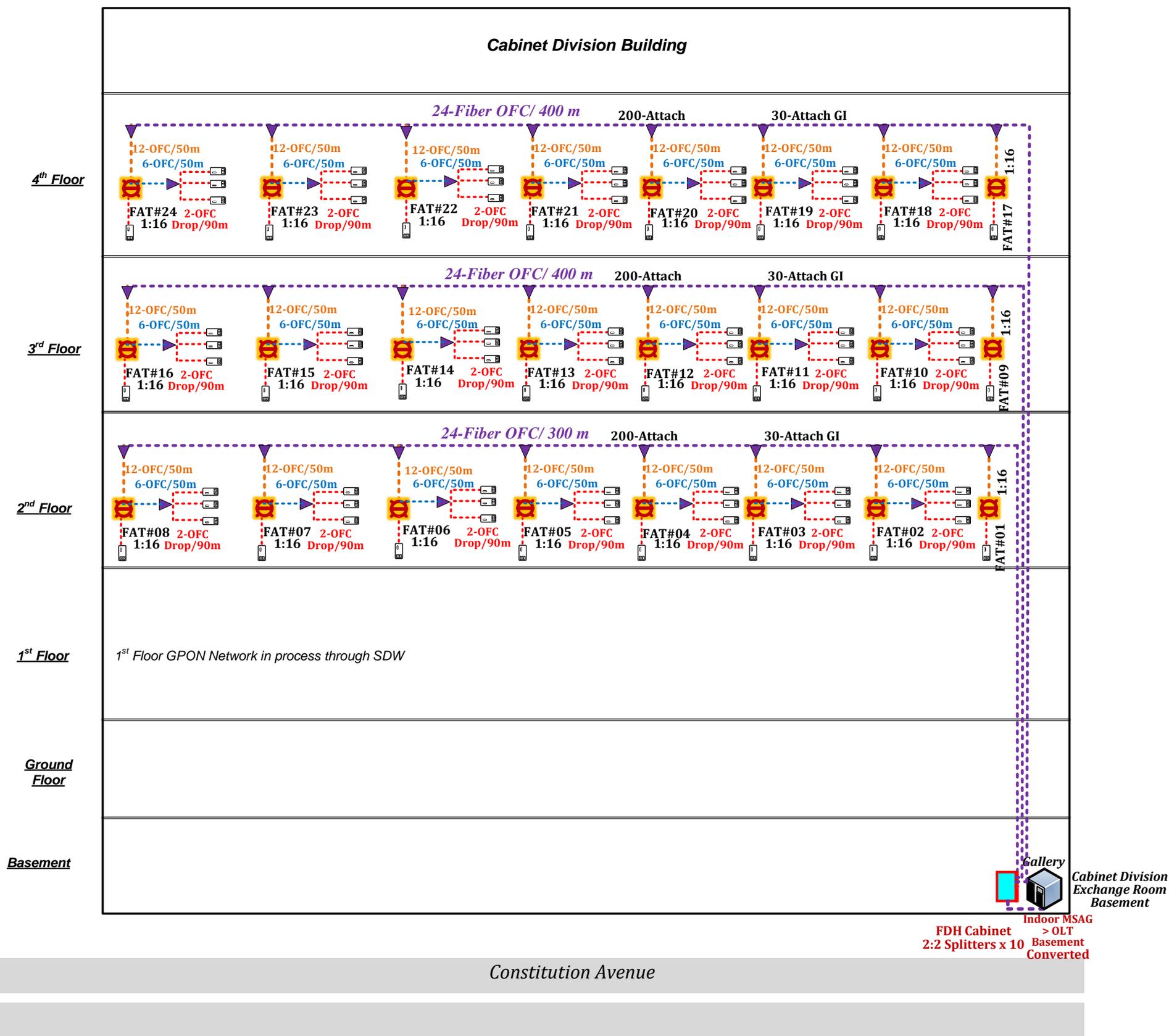
Bill of Quantity (Store)	Bill of Quantity (Services)
24-Fiber OFC (Duct Buried) - 2,000 meter	Kacha (with ROW) - 100 meter
12-Fiber OFC (Duct Buried) - 2,000 meter	Kacha (without ROW) - 100 meter
6-Fiber OFC (Duct Buried) - 500 meter	Pacca / TT (with ROW) - 5 meter
2-Fiber OFC (Drop Indoor) - 500 meter	Pacca / TT- (without ROW) - 100 meter
FAT (1:16) - 11 No	Repair of Pacca - 105 meter
ODF (24-Fiber) - 04 No	R/Bore (with ROW) - 14 meter
ODF (2-Fiber) ATBs - 22 No	R/Bore (without ROW) - 5 meter
Patch Cord (3m) - 20 No	R/Cut (with ROW) - 5 meter
Patch Cord (10m) - 2 No	R/Cut (without ROW) - 5 meter
FDH Cabinet + Splitters (2:2) - 1 No. (05 x)	Cleaning Roding & Pulling - 1,200 meter
J/Enclosure (12F) - 04 No	Attachment on walls & trays - 1,210 meter
J/Enclosure (6F) - 09 No	FAT, ODF Installation - 37 No
HDPE 2" dia - 500 meter	Splicing Fibers - 200 Fiber
HDPE 1" dia - 500 meter	Termination Fibers - 200 Fiber
GI 1" dia Flexible Pipe - 1,000 meter	Hand Hole (3'x3'x4') - 2 No
Duct Patti 1" - 110 Meter	

**OFC Cable (Color Codes):**  
48-Fiber OFC Duct  
24-Fiber OFC Duct  
12-Fiber OFC Duct  
06-Fiber OFC Duct  
02-Fiber OFC Drop

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment



112 meters



Constitution Avenue

<p><b>Deployment of GPON at Cabinet Division Building</b></p>		
Prepared By Ammar Ahmad ADE Dev (North)	Checked By Rizwan Jamil DE Dev (North)	<p><b>LEGEND</b></p> Existing MSAG Conversion to OLT FDH Cabinet with Splitters Fiber Access Terminal (FAT) Proposed OFC Proposed Joint Enclosure Proposed Hand Hole
DATED 09-Feb-2025 Drawing No 01 OF 01	<p><b>KPIs</b></p> Working DSL = 89 Nos	

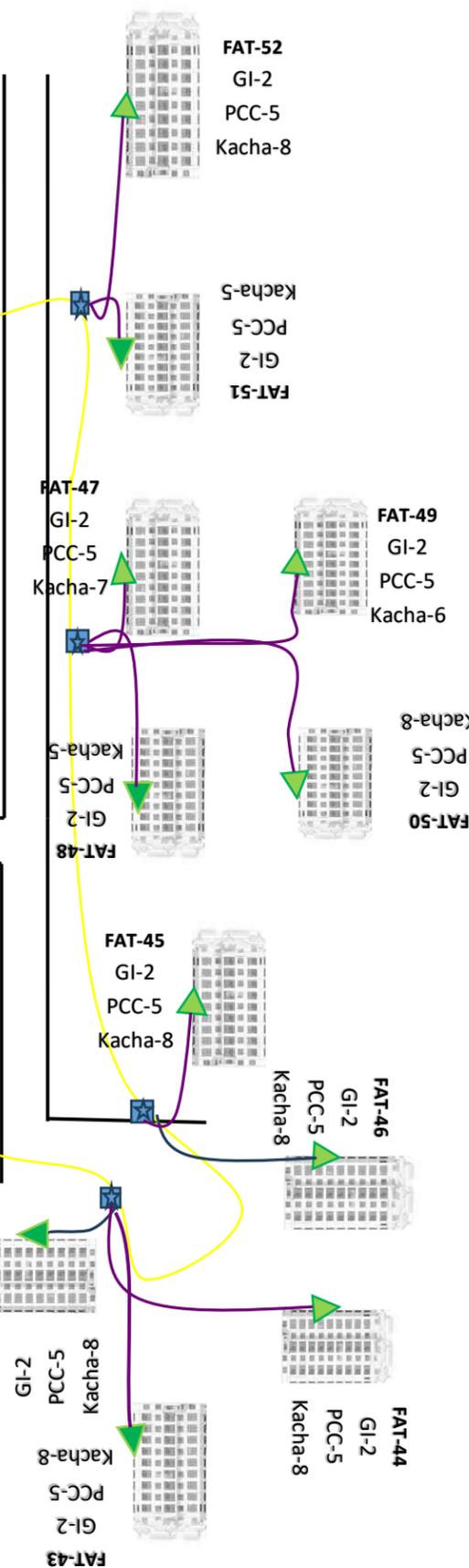
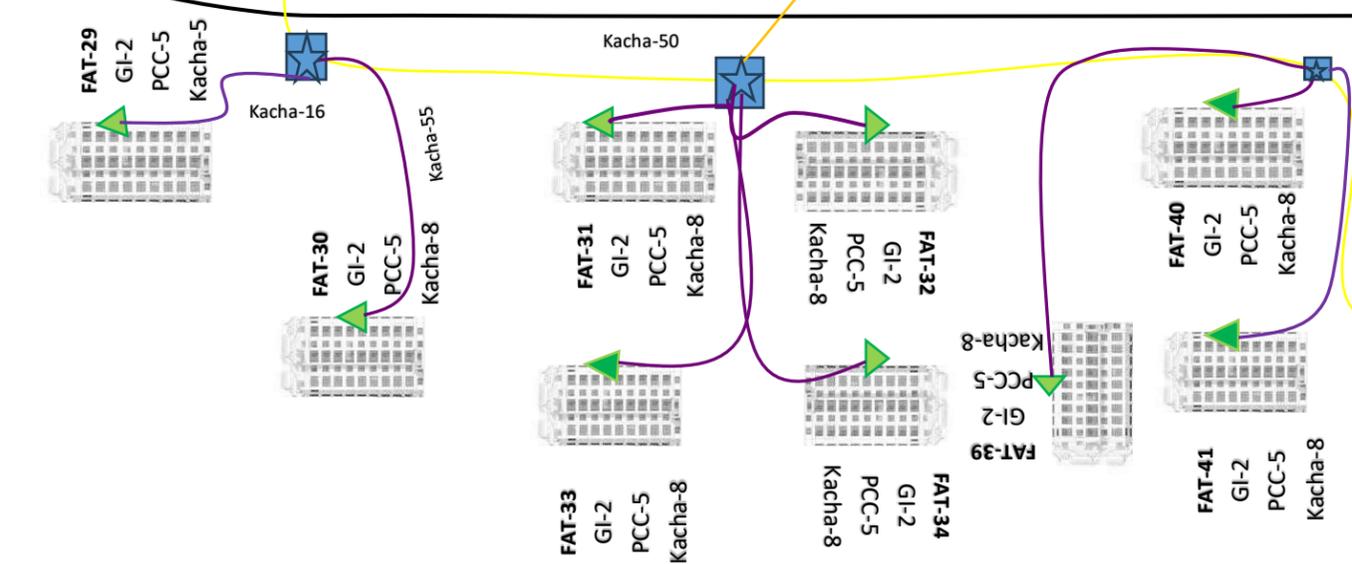
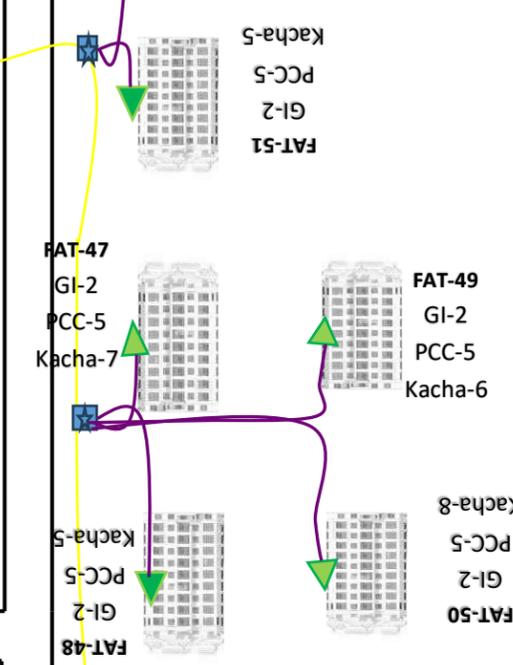
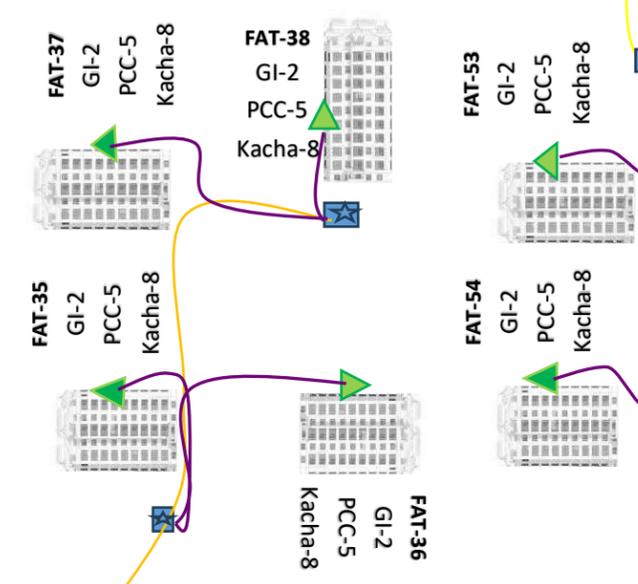
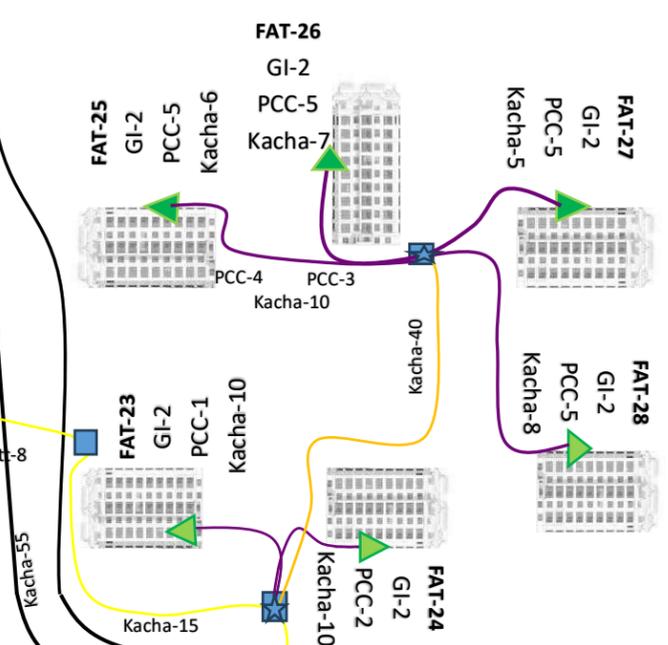
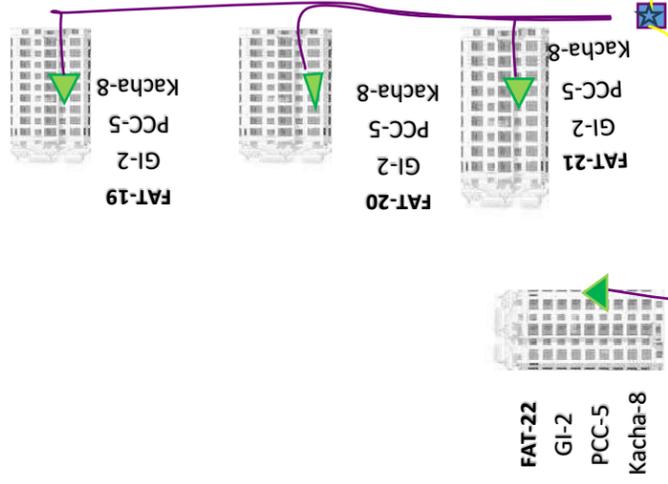
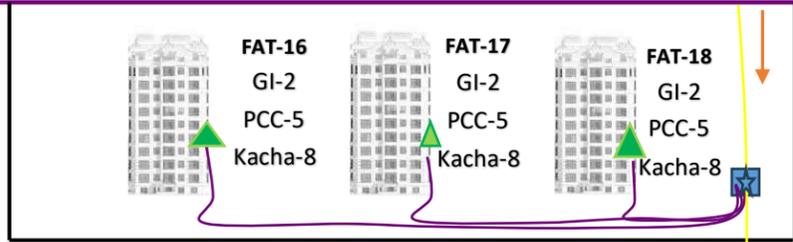
Bill of Quantity (Store)		Bill of Quantity (Services)	
24-Fiber OFC (Duct Buried)	- 1,100 meter	Cleaning Roding & Pulling	- 1,000 meter
12-Fiber OFC (Duct Buried)	- 1,200 meter	Attachment on walls & trays	- 2,500 meter
6-Fiber OFC (Duct Buried)	- 1,200 meter	FAT, ODF Installation	- 125 No
2-Fiber OFC (Drop Indoor)	- 1,300 meter	Splicing Fibers	- 250 Fiber
FAT (1:16)	- 24 No	Termination Fibers	- 300 Fiber
ODF (48-Fiber)	- 01 No		
ODF (24-Fiber)	- 5 No		
ODF (2-Fiber) ATBs	- 90 No		
Patch Cord (3m)	- 90 No		
Patch Cord (10m)	- 2 No		
FDH Cabinet + Splitters (2:2)	- 1 No. (10 x)		
J/Enclosure (24F)	- 24 No		
J/Enclosure (6F)	- 24 No		
HDPE 1" dia	- 500 meter		
GI 1" dia Flexible Pipe	- 1,500 meter		
Duct Patti 1"	- 200 Meter		

**OFC Cable (Color Codes):**  
 48-Fiber OFC Duct  
 24-Fiber OFC Duct  
 12-Fiber OFC Duct  
 06-Fiber OFC Duct  
 02-Fiber OFC Drop

\* 02-Fiber Drop fiber and ATB ODFs will be installed as per customers requirement at the time of deployment

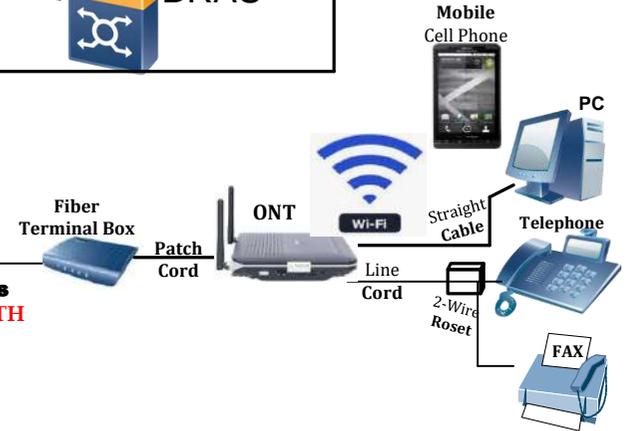
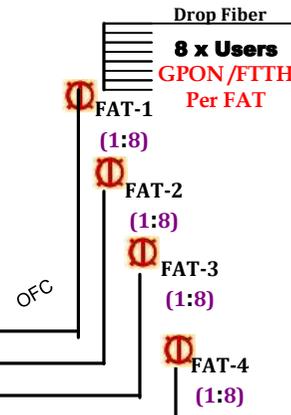
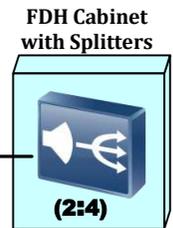
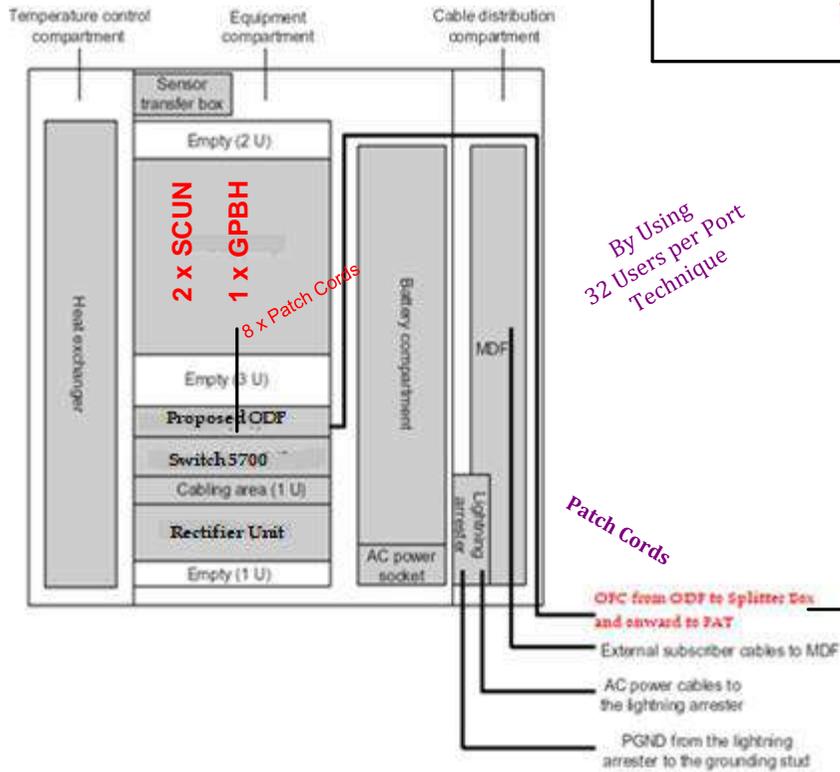
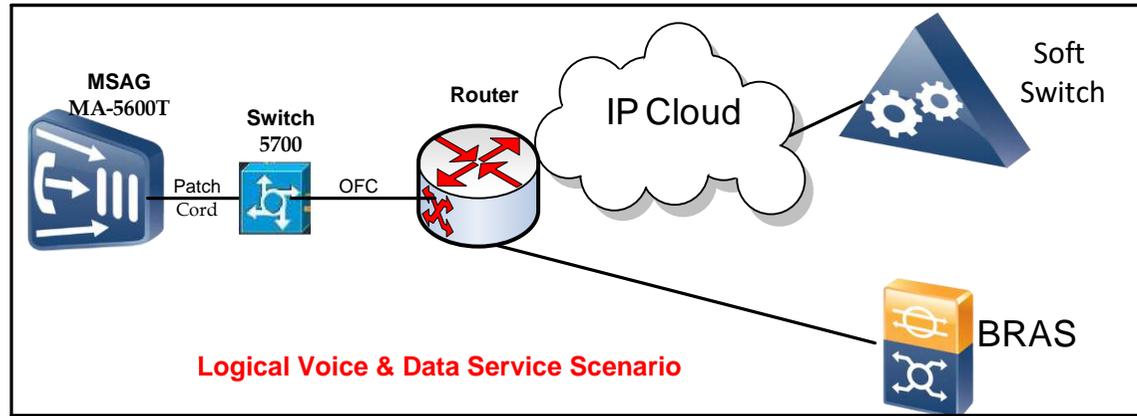


# PLAY GROUND



# Logical Connectivity Diagram - Deployment of GPON Network at Red zone Area Islamabad

Annex-Q22



## Deployment of GPON By Converting Existing MSAGs (Outdoor /Indoor) in to OLT, at Redzone Islamabad and it's Logical Diagram Regarding Voice & Data Services Scenarios

<p>Prepared By Amir Shahzad &amp; Taimur Dev (North) PE</p>	<p>Checked By DE Dev (North) Dev (North) Dte IBA</p>	<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>Existing MSAG (Outdoor/Indoor)</li> <li>Existing Switch 5700 Installed in MSAGs</li> <li>Existing Router</li> <li>Existing BRAS</li> <li>Existing Soft Switch</li> </ul>
<p>DATED 25-09-2024</p>	<p>Drawing No 01 OF 01</p>	

**ANNEX-L: COMMERCIAL COMPLIANCE STATEMENT**

S.#	Description	Complied	Not Complied	Partially complied	Remarks
	<b>Section-I: Instructions to the bidders</b>				
1	Invitation to e-Bids				
2	Introduction				
3	Scope Of Work				
4	Qualification Criterion Of Bidders				
5	Cost Of Tendering				
6	Clarifications Of Tender Documents				
7	Amendment Of Tender Documents				
8	Preparation Of Bid				
9	Price				
10	Bid Security				
11	Validity Of Bids				
12	Deadline For Submission of Bid				
13	Opening Of Bid				
14	Responsiveness of Bidders				
15	Evaluation Criterion for Advantageous				
16	Clarifications / Corrections Of Bid				
17	Commercial Compliance Statement				
18	Engineering Survey				
19	Variation Order				
20	Award Criteria & NTC's Right				
21	Notification Of Award & Signing of				
	<b>Section-II: Contract Terms &amp; Conditions</b>				
1	Performance Security				
2	Contractors Responsibilities				
3	Transportation / packing				
4	NTC Responsibilities				
5	Time For Completion				
6	Warranty / Services				
7	Liquidated Damages				
8	Provisional Acceptance Certificate				
9	Payment				
10	Final Acceptance Certificate				
11	Repeat Order				
12	Default By Contractor				
13	Arbitration And Applicable Law				
14	Force Majeure				
15	Termination For Insolvency				
16	Termination For Convenience				
17	Debarment / Blacklisting Of Firm				
18	Integrity				
19	Project Director/ Ultimate Consignee				
20	Local Training				
21	Declaration Beneficial Owners'				
22	Bidder's Details				

	<b>Section-III Important Conditions of Contract</b>				
1	Definitions & Interpretation				
2	Director Development North and				
3	Drawing and Test Documents				
4	Contract Agreement				
5	Contractor Obligation				
6	Site Data				
7	Sufficiency of Contract Price				
8	Program Be Furnished				
9	Contractor's Supervisor at Site				
10	Watching, Light and Safety Precautions				
11	Compliance with Statutes, Regulation &				
12	Care of Work				
13	Damage to Persons or Property And				
14	Patent Rights and Royalties				
15	Supply of Plant, Material & Labors				
16	Clearance of Site on Completion				
17	Labour				
18	Work Material and Plant				
19	Inspection and Testing During Execution				
20	Removal of Improper Material or Work				
21	Suspension of Work				
22	Extension of Time for Completion				
23	Rate of Progress				
24	Test on Completion				
25	Maintenance and Defects Liability Period				
26	Alterations, Additions and Omissions				
27	Property in Material and Plant				
28	Certification and Payment				
29	Measurement				
30	Provisional Sums				
31	Remedies and Powers				
32	Risk and Responsibility				
33	Care of The Work and Risk Transfer Date				
34	Damage to Property and Injury To Persons				
35	Limitation of Liability				
36	Insurance				
37	Change in Cost and Legislation				
38	Provisional Acceptance Certificate (PAC)				
39	Provision of Store				
40	Right of Way				
41	Temporary Bar/ Black-Listing of Firm				
42	Compliance Statement				
43	Certificate				

**ANNEX-M: BID SECURITY FORMAT**

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

To,

DIRECTOR DEVELOPMENT (NORTH),  
NATIONAL TELECOMMUNICATION CORPORATION  
REGIONAL HEADQUARTERS 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-N: PERFORMANCE BOND FORMAT**

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

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

TO,  
DIRECTOR DEVELOPMENT (NORTH),  
NATIONAL TELECOMMUNICATION CORPORATION  
REGIONAL HEADQUARTERS 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 Director  
Development North National Telecommunication Corporation, F-5/1 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-O: 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)