

Section 6. Bill of Quantities (BoQ)

Supply, Installation, Testing And Commissioning Of Optical Fiber Outside Plant Works To Connect Different(48) Banglalink Nodes/ Sites to BTCL's OFC Point under Mymensingh, Jamalpur, Sherpur, Netrokona, Kishoreganj & Tangail Region

A Materials Supply					
Item no	Description of Item	Measurement Unit	Quantity	Unit Price (Including Vat & Tax)	Amount (BDT)
1	Supply of U-Clamp (120mmx90mmx5mm), Steel belt (0.8mmx18mm), Omega rod 8mm (Belgium rod), Nut-bolt (SS 4 inch x10mm dia), Insulator 60mm (Brown), Bockless 18mm, Wire clamp 10mm (Electroplating), Tie-12 inch (best quality) and Relevant materials.	Each	300.00		
2	7.6 Meter RCC pole supply and installation	Nos	20		
3	Cable route warning tape (UC-T)	M	1,908.00		
4	90 mm DWC 1-way Bridge crossing Clamp Steel with necessary accessories including 1W HDPE sub-duct	M	500.00		
5	Supply of Optical Joint closure-12 core	Nos	80.00		
6	Supply of Optical Joint closure-24/48/96 core	Nos	80.00		
7	Supply of 12-Fiber Distribution Frame and installation at BL sites (SC-PC) (wall mount/rack mount based on as plan design)	Nos	100.00		
8	Hand Hole Complete (HH-H1) {including sand filling (Inner dimension 1200X1000X1000 mm ³ , wall thickness & top slab- 150mm)} as per specification. Hand Hole Cover with attachments (HH-CA) as per Specification. Concrete Marker Post as per Specification. Ground rods as per specification. Hand Hole racks & accessories (MH-RA)	Each	200.00		
9	Supply of required of patch cord SC/SC, SC/FC, FC/FC etc. (5/10m) at actual basis	Each	300.00		
10	Supply of single mode optical Pigtail-1M, with high quality (SC-PC) adaptor	Each	1,000.00		
11	12 Fiber Loose Tube Stranded Aerial Armoured (Figure 8)	KM	10.00	OFC and Duct will be supplied by BTCL at actual, based on HDD length.	
12	12 Fiber Loose Tube Stranded, Armoured, Single Sheath & CSM of FRP	KM	28.00		
13	24 Fiber Loose Tube Stranded, Armoured, Single Sheath & CSM of FRP	KM	72.00		
14	48 Fiber Loose Tube Stranded, Armoured, Single Sheath & CSM of FRP	KM	85.00		
15	96 Fiber Loose Tube Stranded, Armoured, Single Sheath & CSM of FRP	KM	2.00		

16	HDPE Silicon Core DUCT (40/33mm)	KM	175	
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B Service					
Item no	Description of Item	Measure ment Unit	Quantity	Unit Price (Including Vat & Tax)	Amount (BDT)
1	Overhead Optical fiber Laying and installation of Clamp	M	10,000.00		
2	40 mm HPDE Pipe conduit (including pulling string) with Sand & Brick Protection in kacha road (UC-H-V1-S)	M	1,000.00		
3	Cable route warning tape (UC-T)	M	1,908.00		
4	90 mm DWC 1-way Bridge crossing Clamp Steel with necessary accessories including 1W HDPE sub-duct	M	1,000.00		
5	40 mm HDPE 1-way Horizontal Directional Drilling (HDD) for crossing road/Rail way (UC-CB-1) or along the road at the depth of minimum 1.85m and operational pit depth should have same depth.	M	165,000.00		
6	Cable blowing	M	180,000.00		
7	Coupler	Each	908.00		
8	Hand Hole complete- Excavation and Construction of reinforced concrete. Hand Hole complete with all civil construction materials, including fixing of Bellmouth, earthing, simple plug, Hand Hole sides and necessary back filling with excavated soil, (HH-H1). Hand Hole cover with Attachments (HH-CA). Installation of Hand Hole Rack & Accessories (MH-RA). Installation of Concrete Marker Post as per Specification. Installation of Ground rods as per specification.	Each	200.00		
9	Duct & Cable route testing	Lot	1.00		
10	12/24/48-Optical Fiber Distribution Frame installation & OFC termination (SC-ODF 12/24/48)	Each	100.00		
11	Termination at Joint Closure (including T-joint at existing Hand Hole-12/24/48 fiber)	Set	160.00		
12	Double hand vertical Work with PVC Flexible pipe (with necessary OFC incerting hole making on base, wall or rooftop)	M	2,000.00		
13	CC casting (Duct incertion point at BL site)	M	500.00		
14	Documentation, as built Drawing & Loop Diagram of the OFC network, with soft copy in DWG and PDF format (with proper GPS location, CR, depth and landmark of each CP, Duct route CR) 3 copy A1 size hard copies with soft copy in DWG and KMZ format.	Set	48.00		
15	Testing for OFC and Accessories including Provisional Acceptance Test (PAT) (4 members CCT/FGT/OAT committee for each site formed by BTCL HQ)	Lot	48.00		
16	Testing for OFC and Accessories including Fimal Acceptance Test (FAT) (4 members FAT committee for each site formed by BTCL HQ)	Lot	48.00		
17	Route/MNO site survey, as plan drawing making and site readiness	Lot	48.00		
18	Transportation cost for material and inspection of BTCL representative (at least 1 inspection for each site should be arranged by contractor while working period).	Lot	48.00		

Note: Road Cutting Compensation will be borne by BTCL.

Notes:

Note-1: VAT, IT and other applicable taxes/surcharges will be deducted from every bill before making any payment as per prevailing rules and regulations.

Note-2: The Contractor has to refill the trench with sufficient sand and excavated soil, and a good compaction has to be done for good repairing of the road with the trenching cost.

Note-3: This is a tentative BoQ. This may be varied at the time of finalization after survey. This variation may be 20%