

4G LTE






**TENDER
NOTICE**

FIBER OPTIC CABLE (FOC) CIVIL WORKS

Tender No. **KTRN/ADMIN/S/2018/12/001**

Date of issue: **20 December 2018**

Date of bid submission: : **8th January 2019**

Kigali Heights, 7th Floor
Procurement@ktrn.rw | www.ktrn.rw
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 **RWANDA
NETWORKS**
4G LTE & BEYOND

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1. Introduction

KT Rwanda Networks Ltd (KtRN) is the only 4G LTE infrastructure company in Rwanda, jointly invested by the Government of Rwanda and Korea Telecom (KT) exclusively for wholesale provision of universal mobile broadband network in Rwanda using 4G LTE technology. The wholesale network service for mobile broadband will help to promote healthy competition for advanced retail services and solutions, and will benefit consumers, enterprises and the nation in transforming Rwanda into the ICT hub of East Africa. The company also provides wholesale fixed services based on its national wide fiber infrastructure to licensed operators in Rwanda

2. Details:

KtRN is looking for a competent company that fulfills the stated requirements to offer Fiber Optic Cable (FOC) Civil works - for the award of an annual contract

3. BOQ

Interested bidders are invited to collect the BoQ booklet from KTRN Office Reception at Kigali Heights on 7th floor or visit KTRN website: <https://www.ktrn.rw/> and download tender no.KTRN/ADMIN/S/2018/12/001

Done at Kigali, on 20th December 2018

Felix Kagaba
Procurement Specialist
KT Rwanda Networks Ltd

I. Administrative & Technical Requirements

Administrative Terms of Reference	Bidders' name
1. Specialized in Fiber Optics Projects & Maintenance, with office in Rwanda, known for providing high quality services on time (at least 2 recommendations).	
2. In possession of the following tools: Blowing machine, Thrust boring machines, OFC Splicing Machine, OTDR, Laser Source, Power Meter, Visual Fault Locator, Live Fiber Identifier, Cable Fault Locator, Power Generator, Dewatering Pump, Trenching Tools, Road Meter and OFC Splicing Tool Kit (to be listed in the bid).	
3. Able to have at least 3 teams, that can work simultaneously; each team must have team-leader, FOC engineer and assistance, and driver (Indicate teams in the bid)	
4. Hotline service availability period 7 days x 24 hours	
5. A one year Warranty for quality of executed works is mandatory	

II. Financial Evaluation Analysis of the Bidders

The financial criterion considered the lowest financial bid as the most preferred in

1. The following are the terms of reference (ToR):	Unit	Amount
Transportation Charges		
Transportation Charges for Services to be done Within Kigali City	Each	
Transportation Charges for Services to be done within 150km from Kigali City	Each	
Transportation Charges for Services to be done > 150km from Kigali City	Each	
Site survey BoQ and Drawings Preparations Per site	Each	
Civil Works Services	Unit	
Excavation (trenching) works		
Excavation for SCD pipe, depth 100cm soil	Meter	
Excavation for SCD pipe, depth 100cm hard soil	Meter	
Excavation for SCD pipe, depth 100cm rock	Meter	
Excavation for SCD pipe, depth 100cm footway	Meter	
Excavation for SCD pipe, depth 100cm concrete	Meter	
Excavation for SCD pipe, depth 100cm asphalt	Meter	
Excavation for SCD pipe, depth 80cm soil	Meter	
Excavation for SCD pipe, depth 80cm hard soil	Meter	
Excavation for SCD pipe, depth 80cm rock	Meter	

Excavation for SCD pipe, depth 80cm footway	Meter	
Excavation for SCD pipe, depth 80cm concrete	Meter	
Excavation for SCD pipe, depth 80cm asphalt	Meter	
Excavation for SCD pipe, depth 120cm soil	Meter	
Excavation for SCD pipe, depth 120cm hard soil	Meter	
Excavation for SCD pipe, depth 120cm rock	Meter	
Excavation for SCD pipe, depth 120cm footway	Meter	
Excavation for SCD pipe, depth 120cm concrete	Meter	
Excavation for SCD pipe, depth 120cm Asphalt	Meter	
Laying fiber optic ducts		
Laying SCD pipe 1way(¢ 25x1)	Meter	
Laying SCD pipe 1way(¢ 29x1)	Meter	
Laying SCD pipe 2way(¢ 29x2)	Meter	
Laying SCD pipe 3way(¢ 29x3)	Meter	
Laying SCD pipe 4way(¢ 29x4)	Meter	
Laying SCD pipe 5way(¢ 29x5)	Meter	
Laying SCD pipe 6way(¢ 29x6)	Meter	
Laying SCD pipe 7way(¢ 29x7)	Meter	
Laying SCD pipe 8way(¢ 29x8)	Meter	
Laying SCD pipe 9way(¢ 29x9)	Meter	
Laying SCD pipe 10way(¢ 29x10)	Meter	
Laying of Cable Route Marking Warning Tape	Meter	
Tie together SCD Pipes (using cable ties on each 10m)	Each	
Repair/Reinstatement works		
Reinstatement of asphalt road	Meter	
Reinstatement of concrete road	Meter	
Reinstatement of footway	<u>sgm</u>	
Reinstatement of footway	Meter	
Reinstatement of garden	Meter	
Reinstatement of tiles	Meter	
Reinstatement of tiles	<u>sgm</u>	
Indoor work	Each	
Road, bridge and building crossing		
Services for Culvert Crossing attachment	Meter	
Services for Road Crossing& Reinstatement	Meter	
Services for Bridge Crossing attachment	Meter	
Service for Wall & Building attachment	Meter	
Services for retaining wall construction	Cubed meter	
Services for concrete envelop	Cubed meter	
Construction		
Marking Post Installation (To be installed each 500m)	Each	

Manhole (MH) construction (1,400x1,250mm standards) with cover, rack, grounding and accessories	Each	
Hand hole with its concrete cover (70 X 60 Cm)	Each	
Breaking a hole into existing MH or wall and Reinstatement	Each	
Service for Service Box Construction (600x600x600mm)	Each	
Services for Direct Boring under road (GI Pipe 110)	Meter	
Cable Blowing & Pulling		
FO cable Blowing in to SCD pipe(¢ 25x1)	Meter	
FO cable blowing in to SCD pipe(¢ 29x1)	Meter	
FO cable blowing (Direct Buried)	Meter	
FO cable Pulling in to SCD pipe(¢ 25x1)	Meter	
FO cable Pulling in to SCD pipe(¢ 29x1)	Meter	
FO cable Pulling (Direct Buried)	Meter	
Civil works material supply		
Supply PVC 110	Meter	
Supply Legrand truncking 50 x50	Meter	
Supply Legrand truncking 75 x50	Meter	
Supply Legrand truncking 75 x75	Meter	
Supply Legrand truncking 100 x50	Meter	
Supply flexible conduit	Meter	
Supply GI Pipes (¢ 50)	Meter	
Supply of GI Pipes (¢ 110)	Meter	
FOC Services		
4cores duct cable splicing	Each	
8cores duct cable splicing	Each	
12cores duct cable splicing	Each	
16cores duct cable splicing	Each	
24cores duct cable splicing	Each	
36cores duct cable splicing	Each	
48cores duct cable splicing	Each	
72cores duct cable splicing	Each	
96cores duct cable splicing	Each	
144cores duct cable splicing	Each	
4cores duct cable termination	Each	
8cores duct cable termination	Each	
12cores duct cable termination	Each	
16cores duct cable termination	Each	
24cores duct cable termination	Each	
36cores duct cable termination	Each	
48cores duct cable termination	Each	
72cores duct cable termination	Each	
96cores duct cable termination	Each	
144cores duct cable termination	Each	

Test for FOC 4Cores	Each	
Test for FOC 8Cores	Each	
Test for FOC 12 Core	Each	
Test for FOC 16Cores	Each	
Test for FOC 24Cores	Each	
Test for FOC 36Cores	Each	
Test for FOC 48Cores	Each	
Test for FOC 72Cores	Each	
Test for FOC 96Cores	Each	
Test for FOC144Cores	Each	
Cleaning Manholes and arranging fiber cables	Each	
Installation of Poles (for overhead fiber installation)	Each	
Sub total		
Supply of overhead FOC installation accessories		
Cable reserve stand	Each	
Tension set for ADSS for 14.3mm for 24 core ADSS FOC	Each	
Suspension set for ADSS for 14.4mm for 24 core ADSS FOC	Each	
N-Hookwith fastening clamp for dead end & pass pole messenger wire installation	Each	
Twist Grip Dead End Suspension Wire (SecuresCustomer Drop Cable to the Oringon the aerial pole and the eye bolt installed on the customer premise external building wall)	Each	
Pole brackets	Each	
clamps	Each pole	
Supply of Poles (10m)	Each	
Duct test		
FOC route and manhole inspection per 10km:		
Contractor shall be required to drive upcountry wherever FOC cables pass to verify:		
- Fiber cable safety/ risk;		
- Check man-hole situation and identify need for maintenance, cleaning etc.		
- Report findings and recommendations after the tour		
- This work does not include fiber installed in Kigali		
FOC route and manhole inspection within 150km from Kigali City	per 10km	
FOC route and manhole inspection within > 150km from Kigali City	per 10km	
Sub total		
GRAND TOTAL		

III. TERMS AND CONDITIONS

The company reserves the right to reject the lowest bid if it is higher than the existing contract price.
Bids shall be submitted in sealed envelopes only.

Thank you