

NEPAL TELECOMMUNICATIONS AUTHORITY (NTA)

Kamaladi, Kathmandu, Nepal

Amendment No. 1

Supply, Installation and Commissioning of the Probing based Quality of Service Measurement System

National Competitive Bidding (NCB)

IFB No. 01-NTA-QOSMS-2076/77

(Date of issue of Amendment No 1: 7th November, 2019)

Pursuant to Clause No. 9 of ITB of bidding document, all prospective bidders are hereby informed that following are the amendment made in the Bidding Documents for above said contract

S.N.	Bid Clause	Original Provision	Amended Provision
1	ITB 19.2	A Manufacturer's Authorization letter is only required for the following items: (i) Probe	A Manufacturer's Authorization letter is only required for the following items: (i) Probe for mobile Network (ii) Probe for Mobile/Broadband Network (iii) SIM Multiplexer/Server (iv) Voice Call Terminating Unit (v) Central Server
2	Para 4 of Qualification Criteria of Section II	The minimum supply value of goods under a single contract in the last three years shall be NPR 70,000,000.00(Eighty Million)	The minimum supply value of goods under a single contract in the last three years shall be NPR 70,000,000.00(NPR Seventy Million)
3	Para 12 of Qualification Criteria of Section II	The Bidder must have average annual Revenue of 1,000,000.00 (One Million) in last three years.	The Bidder must have average annual Revenue of NPR 114,000,000.00 (NPR One Hundred Fourteen Million) in last three years.
4	Colum 8 (Acceptable Delivery Date) of Delivery and		6 Month from the contract signing date.

	Completion Schedule of Section V		
5	S.N. 1 of list of Goods of Section V	<p>Probe with at least 3 measurement unit per chassis (SW+HW) and communication interfaces such that each unit supports 2G/3G/LTE & LTE-A (Voice & Data) & WLAN interfaces. The probe to support further expansion of up to 64 units under the same controller.</p> <p>The provision to support 5G modems to perform NR based tests to be supported.</p>	<p>Probe with at least 3 measurement unit per chassis (SW+HW) and communication interfaces for SIM Multiplexer/Server such that each unit supports 2G/3G/LTE & LTE-A (Voice & Data) & WLAN interfaces. The probe to support further expansion of up to 64 units under the same controller.</p> <p>The provision to support 5G modems to perform NR based tests to be supported.</p>
6	S.N. 19 of list of Goods of Section V and S.N. 13 of Required Licenses for the Measurement and Reporting system of Delivery and Completion Schedule of Section V	OTT Services Testing with Smartphone: Smartphone OTT App Package for testing OTT Apps like WhatsApp, Viber, YouTube, Dropbox, Facebook, Instagram, Twitter etc.	OTT Services Testing with Probe: OTT App Package for testing OTT Apps like WhatsApp, Viber, YouTube, Dropbox, Facebook, Instagram, Twitter etc.
7	Whole document of Schedule of Requirement & Delivery and Completion Schedule of Section V	Probe with at least 4 measurement units per chassis (SW+HW) and communication interfaces such that each unit supports 2G/ 3G/ LTE/ LTE-A (Voice & Data).	Probe with at least 3 measurement unit per chassis (SW+HW) and communication interfaces for SIM Multiplexer/ Server such that each unit supports 2G/ 3G/ LTE/ LTE-A (Voice & Data).
8	Whole document of Schedule of Requirement & Delivery and Completion Schedule of Section V	Probe with at least 4 measurement units	Probe with at least 3 measurement unit
9	Price Schedule for goods of Section V	Page 43 of Bidding Document	Price Schedule for goods is replaced as Annex-I
10	Drawings of Section V(Schedule of Requirement)	System Architecture and Drawing	The block (Probes (Real Handsets) with different Air Interfaces) is removed.

Price Schedule For Goods

Name of Bidder _____ Invitation for Bid No.: _____

Item	Description	Country of Origin	Quantity	Unit price ¹		Total price (in NRs) (cols. 4x5)
				In Figure	In Words	
1	2	3	4	5		4x5=6
A. Goods						
1.	Probe with at least 3 measurement unit per chassis (SW+HW) and communication interfaces for SIM Multiplexer/ Server such that each unit supports 2G/3G/LTE & LTE-A (Voice & Data) & WLAN interfaces. The probe to support further expansion of up to 64 units under the same controller. The provision to support 5G modems to perform NR based tests to be supported.		4			
2.	Ethernet based Probing system (HW+SW) for Broadband with LAN Interface 10/100/1000.		1			
3.	SIM Multiplexer/ Server to store SIMs centrally with capacity to host at least 75 SIMs and expandable when required. The SIM Multiplexer/ Server must support all kinds of SIMs like Micro- and Nano. The SIM Multiplexer/ Server must have hot swap SIM Card replacement feature.		1			

¹ The price shall include the cost of goods, other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the item, the customs duties, transportation cost up to final delivery, insurance cost, unloading, and any other cost for (incidental) services, if any, related to the delivery of goods. All risks and responsibilities up to the final destination including installation and commissioning of Goods, if applicable, shall be borne by the Supplier.

4.	Voice Call Terminating Unit.		1			
5.	Central Server (for User Interface, Database and all required Test Software).		1			
6.	VPN server or SSL VPN based encryption support (to connect fixed measurement units, probes).		1			
7.	Basic test scenarios: Network Registration, Location update.		1			
8.	Basic Voice call tests: Support 2G/3G & CSFB, VoLTE, VoWifi & 5G capability in future.		1			
9.	Basic Data DL/ UL tests.		1			
10.	Email based tests.		1			
11.	FTP/ HTTP DL/ UL services tests.		1			
12.	GPRS/ UMTS/ LTE & 5G capable service tests. A clear roadmap for 5G support to be provided by vendor.		1			
13.	SMS/ MMS tests. Support for Traceroute, PING.		1			
14.	Voice quality Tests as per ITU Recommendation.		1			
15.	Video Quality Tests as per ITU Recommendation.		1			
16.	Web Browsing Tests.		1			
17.	Reporting, Alarming & Dashboard Feature.		1			
18.	Metering & Billing Accuracy: CDR Comparison, Rating and Billing verification.		1			
19.	OTT Services Testing with probe: OTT App Package for testing OTT Apps like WhatsApp, Viber, YouTube, Dropbox, Facebook, Instagram, Twitter etc.		1			
20.	Customizable Report Template.		1			

21.	Laptop with Latest version of 64-bit Genuine Operating System, Antivirus, 8th Generation i7 Processor, at least 16GB RAM, at least 1TB storage space (including at least 256GB Solid State Drive), Up to 13.3-in. touch display, Weight less than or equal to 1.25 kg).		1			
B. Services						
22.	Installation and Commissioning					
23.	Factory Inspection in Country of Origin for two Personnel from NTA. (Daily Allowance of Personnel will be provided by NTA)					
24.	Training in manufacturers' Testing Lab in Country of Origin for three Personnel from NTA for ten working days (Daily Allowance of Personnel will be provided by NTA)					
25.	One Technical Expert for three months support at NTA office					
26.	AMC for 4 Year after warranty period (one year)					
						Total
						VAT
						Grand Total

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date