



Telkom Tenders

RFP0085/2007 FOR THE SUPPLY OF POINT TO POINT SPLIT MOUNT RADIO EQUIPMENT

Closing date & Time	:	2007-12-20 @ 11:00
Contact Person	:	Kemp van Tonder
Tel	:	(012) 311-8491
Fax	:	(012) 324-2173
e-mail	:	vtondekp@telkom.co.za
Cost of document	:	R 50.00

1.0 SCOPE:

The Proposer shall offer point to point microwave equipment operating in the frequency range L6GHz to 38 GHz. The equipment shall be capable of providing services from 4E1 to 32E1, STM-1 and Ethernet with the future capability to migrate to Native Ethernet. The indoor equipment shall be frequency independent and the outdoor equipment shall be capacity independent. The equipment offered shall thus be a Multi Service Provisioning Platform forming a family of products with maximum commonality. A proposal on a turnkey solution is required.

2.0 Critical criteria

Proposes must meet the following critical criteria in order to be considered for this RFP: 085/07

2.1 Black economic empowerment

The bidder must have an effective Black Shareholding of at least 25.1%. A bidder will be disqualified should they not have at least 25.1% effective Black Shareholding.

2.2 Technical critical criteria

Item	Spec	Paragraph	Description
1	1659	1.2 b	The equipment must be split (Indoor + Outdoor) configuration with a single coaxial cable connecting the indoor and outdoor units.
2	1659	3.1.3 a	All electronic devices shall comply with SANS 60950 (SABS IEC 60950) in terms of safety requirements as stated in Government Gazette 22887, Notice 2336 of 30 November 2001. Compliance to the latest edition of SANS IEC 60950 shall be proven by means of a test report from an ILAC recognised laboratory.
3	1659	3.1.4 & 4	Must comply with specified EMC requirements.
4	1659	6.3	Must meet Telkom's environmental conditions.
5	1659	7.3.2.1 f	The indoor equipment shall be radio frequency independent.



Telkom Tenders

6	1659	7.3.2.1 h i, ii, iii	The indoor unit offered shall be a MSPP platform incorporating the following minimum functionality: Support of converged services and multiple interfaces (PDH/SDH/Ethernet over TDM/Native Ethernet), Built-in cross connect or add-drop multiplexer for routing and aggregation, Support of multiple radio links,
7	1659	7.2.3 f	Outdoor equipment must be capacity independent.
8	1659	7.3.1 c ii, iii, v, vi, vii, viii ix	Must cover the following data capacities 8E1, 16E1, 32E1, STM-1, Fast Ethernet and Gigabit Ethernet
9	1659	7.3.2.1 to 7.3.2.10	Frequency band (L6, U6, U7, U8, 11, 13, 18, 23, 26 and 38) plans and channel spacing must be as specified. Non-complaint equipment shall be excluded.
10	1659	7.5.1 a, c, d, e & g	2Mbit/s, STM-1, Fast Ethernet and Gigabit Ethernet interfaces must be according to ITU-T Recommendation G703 and Telkom specification 2080.
11	1659	7.6.1 a	A built in configuration and maintenance facility Or a local craft access point and common Local Craft Terminal platform for all elements in the family for the same purpose must be available.
12	1659	7.9 a ii	Equipment offered shall make provision for –48V DC operation.
13	2035	3.1.3	All electronic devices shall comply with SANS 60950 (SABS IEC 60950) in terms of safety requirements as stated in Government Gazette 22887, Notice 2336 of 30 November 2001. Compliance to the latest edition of SANS IEC 60950 shall be proven by means of a test report from an ILAC recognised laboratory.
14	2035	6.8.4	To utilise frequency bands to the maximum, antennas shall be able to operate in vertical or horizontal polarisation. Field adjustment shall be possible from one polarisation to the other.
15	2035	6.8.6	Antennas provided must comply with the minimum XPD factors per antenna and per band as specified.

Critical Criteria for the Operating Support Systems (OSS) and Network Management

Item	Spec	Paragraph	Description
16	1741	3.9.2.2	SSL shall be used to provide end-to-end encryption of the data that is sent between a web client and a web server
17	2066	3.1.4.3	There shall be a single northbound interface for all systems
18	2066	3.1.5.1	The EMS shall: Be able to manage one or more NE type(s) from a vendor.
19	2066	4.2.1	The EMS/SNM shall have the capability of monitoring and notifying network and service failures in real time (ie. within 5 seconds):



Telkom Tenders

20	2066	4.2.26.3	It shall be possible from the SNM/EMS to test all services from end to end.
21	2066	4.3.1.1	The SNM/EMS shall allow for activation, provisioning, configuration, modification, interrogation and deactivation of all managed entities, including but not limited to all elements, networks, services, interfaces, hardware modules, and software modules.
22	2067	4.1.1	Communication between NEs on customer premises and their EM shall be in-band
23	2067	4.2.1, 4.2.1.4, 4.2.1.5	For connection to TMNet, the NE/EM/NM shall have one or more of the following interfaces: Ethernet 10Base-T (IEEE 802.3), Ethernet 100Base-T (IEEE 802.3)

3.0 PROPOSERS' CONFERENCE

DATE : 29 NOVEMBER 2007

TIME : To be announced

VENUE : To be announced

Bidders will be informed of the venue and time prior to the Bidders conference.
Please note that attendance is compulsory.

4.0 The tender document can be obtained from Telkom's tender office at the following address:

Attention : Willie Senekal
 Tel number : 012 311-3364

179 Proes street
 Pretoria
 0001