

Clarification in Technical Specifications

Bidder : Vertel Infotel Pvt. Ltd., New Delhi.

Ref : VIPL/MahPol/2016-17 Dtd. 06/01/2017.

Tender No. - 1224, Sr.No. DGP/17/6162/State Plan/Digital Networks/Nanded range/124/2016

Digital Network for units in Nanded Range **(These clarifications are applicable for all the responding bidders)**

Sr. No.	Tender Reference (Page No/ Clause No)	Tender Clause	Bidder's Observation/Queries	Response to Queries/ Clarification
1	Page 21 Un-priced bill of Material.	Tender cover page mentions towers of 20M,25M & 45 M; while this is not mentioned under the section "Mandatory items to be quoted - Bill of Materials"	<p>We therefore seek the clarifications rather suggest that tower should be optional and this requirements should be addressed by tower vendors only, which will result in savings of significant exchequer to your department and the quality along with service back-up can also be tightly guaranteed since successful tower vendors will be legally bound with Govt. Agreement.</p> <p>It may be worthy to mention that no Radio vendor is India deal with towers and any binding situation to offer towers will only add cost to buyer.</p>	<p>Clause Stands as it is and mandatory quantity of Mast is as follows.</p> <p>20M-Four(04)</p> <p>25M-Four(04)</p> <p>45M- Five(05)</p>
2	Page 23/ Item No.3 Sr.No.3&4	<p>3. Output Power (at antenna port)- 23dBm (adjustable according to requirement of the site.)</p> <p>4. Antenna- Internal as well as 23 dBi external with suitable mounting brackets with 45 Mtr. RF cable.</p>	<p>Kindly note as per WPC, MHA, Govt. of India notification, maximum EIRP in 5.8 GHz. is 36 dBm, while the tender specs out pass this limit.</p> <p>Therefore amendment is solicited to bring this within permissible limit otherwise it transgresses into licensed band.</p> <p>Antenna gain should be mentioned like suitable antenna to achieve 60 Km. distance</p>	<p>Output Power of Microwave Radio= Min.27 dBm</p> <p>Location will be provided at the time of field trail.</p> <p>Suitable Antenna to achieve min.50 KM reliable communication</p>

Sr. No.	Tender Reference (Page No/ Clause No)	Tender Clause	Bidder's Observation/Queries	Response to Queries/ Clarification
3	Page 23/ Item No.3 Sr.No.7	Interface - 10/100/1000 BaseT (RJ45), G703/704, G823/824.	Kindly note that all DMR Repeaters required IP, i.e. Ethernet connectivity for linking. Therefore these unwanted additional interface will only make it prone to high cost of maintenance. Susceptibility to damage & problem in trouble shooting, thus a direct casualty to the system performance. Hence it should be amended accordingly.	Clause stand as it is.
4	Page 23/ Item No.3 Sr.No.7	Interface - 10/100/1000 BaseT (RJ45), G703/704, G823/824. Performance quotient.	Instead of 10 BaseT10/100 BaseT should be specified to cater the future requirements. Kindly make the WPC eqpt. type approval necessary to ascertain the radio link quality and performance in line with WPC regulations.	10/100 Base T accepted. WPC equipment type approval is necessary.
5	Page 23/ Item No.3 Sr.No.5	Lightning protection	Kindly specify the technical details for the lightning protection for outdoor & indoor units.	Lighting protection Outdoor unit: Discharge Device Characteristics Surge : 20KA Indoor unit: Surge capacity:1kA per wire/RJ45 connector, Circuit Type : Three stage series Hybrid.
6	Page 23/ Item No.3 Sr.No.13	Operating Temperature - -40 ⁰ C to +60 ⁰ C	Kindly amend it to -30 ⁰ C to +60 ⁰ C as in case of all other tendered items otherwise it will limit the competition as exponentially increase the price. Kindly note that -30 ⁰ C to +60 ⁰ C equipment operating temperature range is otherwise well enough to combat the environmental endurance in Maharashtra. Kindly apply same to TTA-Tower Top Amplifier since here also it mentions -40 ⁰ C to +60 ⁰ C and amend please.	TTA is not a part of this tender.

Sr. No.	Tender Reference (Page No/ Clause No)	Tender Clause	Bidder's Observation/Queries	Response to Queries/ Clarification
7	Page 23/ Item No.3 Sr.No.4	Antenna - 45 Mtr. RF Cable	Kindly note as 5.8 GHz. freq. band has huge losses in co-axial cable, it is absolutely not recommended to use more than 2 to 4 Mtr. cables. Generally outdoor unit and antenna is co-located to reduce the cable length & viz.-a-viz a losses, while ethernet cable can run from ODU to IDU upto 50 Mtr. Therefore kindly modify the same and also specify the RF cable specifications as no details are mentioned for cables.	This clause is not the part of this tender.
8	Page 23/ Item No.3 Sr.No.6&7	2 MBPS throughput at Ethernet.	It mentions 2 Mbps throughput whereas IDU Interface mentions 10/100/1000 BaseT which is not required. Even 10/100 BaseT is sufficient.	It is cleared in Clarification Sr. No.4
9	Page 23/ Item No.3 Sr.No.8&9	Link eqpt. 1 + 1 Hot Standby	It mentions 1+1 Hot Standby, which means both the links should live all the time. So it requires 4 radios, 4 antennas, 4 power supplies & 2 routers to achieve complete redundancy. Therefore this needs to be amended accordingly. Further router specifications are also not available.	Bidder understanding is correct. There should be 2 routers per 1+1 Hot Standby link. 16 Port Router is necessary.
10	Page 21/ Up-BOM Sr.No.20	Laptop Qty = 25 Nos	However, No configuration/description of laptop is provided. There for kindly modify the same.	Intel core i-5 Min. Fifth generation, 8GB RAM, 1TB HDD, Display minimum 14 inch LED, 4 USB (3.0 – qty-02, 2.0-Qty-02) HDMI OUT, VGA, Two hours battery backup.
11		Payment terms	Kindly clarify the payment terms.	Clarification to be sought by D. G. P. Office.

* * * *