

Clarification in Technical Specifications

Bidder : M/s Arya Communications Pvt. Ltd., Mumbai.

Ref : BOD-DMR/MS/PM/APCO/1617/02 dtd. 06/01/2017

Tender No. - 1223, Sr.No. DGP/17/6162/State Plan/Digital Radio System/Navi Mumbai/123/2016

DMR Digital Radio System in UHF 400 Mhz. for Navi Mumbai (**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 / Clarifications
*	--	--	It is requested to include centralised radio management software with programming over the air & through Bluetooth.	Not Functional requirement of Maharashtra Police. Hence not Accepted.
*	--	--	We recommend that only ILAC (International Laboratory Accreditation co-operation) test certificate / report for MIL810 STD. to be made mandatory.	MIL 810 STD is mandatory.
1	Page 26/ A-8	Power Source-Li-on / Li-polymer Battery pack of 2000 mAh or more	As per Govt. notification BIS certification is required for battery of W/T, it is requested to include the same in the tender condition.	BIS Certification is not necessary.
2	Page 22/ Section-III 2.Rx Tower top amplifier Sr.No.9	Equipment for Demo-At the time of Product evaluation bidder should bring adequate qty. of the offered make & model radios, test jig, dispatcher, digital analyser & other test & measuring instruments required to demonstrate full functionality.	Tower Top Amplifier is not a regular RF component like Radios so kindly omit this clause from demonstration Clause.	Clause stands as it is.

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3	Page 17/ 4.7 Training	<p>The supplier shall train police wireless personnel for the maintenance of the system. Training should be in parts.</p> <p>Part I: In this the supplier shall provide 7 days training to the 10 technical personnel of Maharashtra Police. The training part should cover the following aspects-</p> <p>(i)Description of all functional assemblies of the system, including controls, indicators & monitoring the system.</p> <p>(ii)Line up procedures for the system & adjustment of operating parameters & other operation in keeping with features provided, maintenance procedures, fault diagnostics procedures, over the air programming & over the air rekeying etc.</p> <p>(iii)Practical replacement procedures/ practices for major assemblies including RF units.</p> <p>Part II:- User Operational Training</p> <p>(i)This training program will be conducted at the user's location.</p> <p>(ii)Will be structured so as to train up to 15 of the purchaser's supervisory & operator personnel.</p> <p>(iii)All operators shall be taught the functionality & features of the various types of offered models of wireless sets, handheld, Dispatch Console, Text messenger, GPS Locator etc.</p>	<p>Necessary Technical Training regarding -</p> <p>3) Component level Repairing & Maintenance of the System. Training shall be given to 5 technical persons per district for Two weeks.</p> <p>Operational & User training will be given, however component level repairing training is not possible. We request to delete this clause.</p>	Clause stands as it is.

Sr. No.	Tender Reference (Page No./ Clause No)	Tender Clause	Bidder's Observation / Queries	Response to Queries / Clarifications
5	Page 20/ Section-III Technical Specificati on of required equipment.	b. DMR Tier II Digital Radio Repeater / Base Station Sr.No. A 1 Frequency Range : 400 Mhz. to 470 Mhz.	Most of DMR Vendors having a band for 403 Mhz. to 470 Mhz. UHF B& so kindly amend the freq. band for 403-470 Mhz.	Accepted
6	Page 20/ Section-III Technical Specificati on of required equipment.	d. Environmental Specifications 1. Operating Temperature -30 ⁰ C to + 60 ⁰ C 3. Humidity 95% non-condensing (-20 ⁰ C-60 ⁰ C)	Operating Temperature - Repeater is always recommended to install in well ventilated shelter, we request you to change operating temperature of Repeater as -10 ⁰ C to + 55 ⁰ C. Humidity is always measured on high temp., therefore we request you to change it as 95% non-condensing at 40 ⁰ C	Clause stands as it is.
13	Page 3/ iii.	Registration Certificate of C.S.P.O. / D.G.S.& D./NSIC/SSI with validity of registration mentioned clearly.	Please confirm whether registration is mandatory for all the bidders.	--
14	Page 4/ ix.	Latest Test Report along with letter of the tenderer giving technical specifications to the laboratory asking for latest report i.e. on or after March 2016, of the tendered item should be submitted.	Environmental Tests are carried out once for each model for all of its freq. band same may be considered.	Accepted
15	Page 22/ Sr.No. 22	The testing charges of Government approved laboratories, if any of the samples tendered will have to be paid by the shortlisted Bidders after the short listing of Technical Bids. The rates of testing charges are likely to vary & the tenderer will have to pay the current charges before sending the samples for testing. The samples will not be returned to the tenderer.	Once test reports are submitted. This is not required hence please delete this clause.	--

Sr. No.	Tender Reference (Page No./ Clause No)	Tender Clause	Bidder's Observation / Queries	Response to Queries / Clarifications
16	--	Warranty	Warranty provided will for 3 years on Mobile Wireless Sets & 1 year for accessories.	<p>Warranty period will be after date of commissioning for :-</p> <ol style="list-style-type: none"> 1. Set, Hand Held, Repeater, microwave Link, Dispatcher, Laptop/Computer, TTA etc. will be Three (03) Years. 2. Batteries of Handheld & UPS will be Two (02) Years. 3. Outdoor cabinet, Towers 15 Mtr, 25 Mtr & 45 Mtr will be Five (05) Years. 4. Other accessories will One (01) Years.
17	Page 15/ Sr.No. 4.Services of Supplier Clause 4.1 Site Inspection & Preparation	Site plan & equipment layout plan for DMR Tier II Digital Radio System shall be prepared by supplier. The layout plan shall show interconnecting cable routes between various equipments. This plan should be approved by police wireless authority before start of site work. The Supplier shall carry out the site preparation before the installation of System equipments. Site preparation shall include the site inspection, required civil work, necessary Power supply, UPS, foundation & installations of cabling, wiring, earthing, surge protection to each site, etc. with respect to equipment installation, equipment rack. The purchaser will provide suitable space at repeater site. All Repeater locations are on hill or top of high-rise buildings so suitable lightening protection should be provided by supplier.	<ol style="list-style-type: none"> 1. Kindly specify the requirement of Civil work. 2. Kindly confirm built-up rooms or telecom shelter at the space available with police along with suitable air-conditioning is provided by the purchaser. 3. Kindly clarify the scope for foundation & installation of cabling. 	All Civil work is related to Tower and Outdoor cabinet. Cabling related to equipment connectivity and supply. Sufficient space will be available for Tower & Outdoor cabinet installation.

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18	Page 17/ Sr.No. 4.Services of Supplier Clause 4.5 Testing.	The successful bidder shall test electronic equipment after installation & prepare a test report. This shall be compared with the factory test reports to ensure that there is no deterioration in the equipment parameters during storage, transportation & installation. These test procedures should include test setup & measuring instruments required for test parameters. The performance of individual equipment & complete system shall be tested to ensure that individual equipment & complete system meets the technical specifications & other operational & technical requirements of tender.	Factory test parameters are applicable only on bench & cannot be replicated in to on field or after installations. Hence kindly remove this requirement & limit this to standard acceptance test procedure to be mutually decided & agreed by successful bidder & purchaser.	Clause stands as it is.
19	Page 17/ Sr.No. 4.Services of Supplier Clause 4.6 Documentation	The bidder shall be co-ordinator for obtaining the necessary licenses required for frequency spots & operating licenses for base stations & radios (Static, Mobile & Handheld) on behalf of the purchaser from the concerned government department. The Purchaser will provide all necessary documents to complete the procedure.	For law & enforcement agencies WPC restricts liasoning by private agencies hence request you to delete this clause. 2) Please also confirm that applicable Royalty & license fees including penalty for earlier dues as per the dem& of WPC will be paid by purchaser.	Accepted

Sr. No.	Tender Reference (Page No./ Clause No)	Tender Clause	Bidder's Observation / Queries	Response to Queries / Clarifications
20	Page 18/ Sr.No. 4.Services of Supplier Clause 4.9 Technical Support	Successful bidder shall provide his supervisory personnel at the premises of the purchaser, to oversee the installation & commissioning of equipments, to perform commissioning tests at the purchaser's site & demonstrate full compliance of equipments / systems supplied by him. Supplier shall carry out on-site replacement, repairs in equipment supplied by him during the Three years warranty period & will provide 24x7 technical support during warranty period. The fault which directly affects working of communication groups should not be pending for more than two hours after attending the fault during warranty period. Technical support of supplier should cover all components, wiring, batteries, towers, cabinets etc. of supplied system during warranty period. The transportation for such work is responsibility of supplier.	<p>1) Kindly confirm necessary & required spares will be purchased & maintained by purchaser for onsite replacements.</p> <p>2) As onsite repairs are not possible for digital radio equipments kindly remove requirements regarding onsite replacement.</p> <p>3) As warranty is applicable only for electronics items & not on consumables like wiring, batteries etc. requested you to remove this from requirements.</p>	<p>As this is one whole project "Necessary & required spares / equipment's shall be maintained by bidder to fulfill clause".</p> <p>It is cleared in this clarification of Sr. No. 16.</p>
21	Page 21 Sec..III G Sr.No.2 Installation & Commissioning	<p>Repeater Site Installation</p> <p>1) Installation of Receiver & Transmitter Aerial. 2) Layout of RF Cable. 3) Repeater Site Linking with the help of Microwave Link.</p> <p>4) Proper earthing to be done at the repeater site.</p> <p>B. Control Room Installation</p> <p>1) Dispatcher system with necessary Hardware & Software.</p>	Kindly specify the detailed scope for the requirement of "Proper earthing to be done at the repeater site".	Earthing to be done as per standard norms.

Sr. No.	Tender Reference (Page No./ Clause No)	Tender Clause	Bidder's Observation / Queries	Response to Queries / Clarifications
22	Page 22 Sec..III Sr.No.2	Rx Tower Top amplifier 400 Mhz. with accessories.	As the repeaters are required to be supplied with duplexer (as per F-2) & single 6dB GP antenna (as per F-3) Kindly clarify where Rx Tower Top amplifier will be used in the System ?	Yes, Tower Tops amplifier is going to be use.
23	Page 23 Sec..III No. 3 Sr.No.3&4	<p>3. Output Power at Antenna Port - 23 dBm (adjustable according to requirement of the site)</p> <p>4. Internal as well as 23 dBi external with suitable mounting brackets with 45 meter RF cable.</p>	<p>1. As per WPC notification no G.S.R.38 (E) dtd. 19/01/2007 use of wireless equipment in the 5.825 to 5.875 GHz is license free subject to maximum effective Isotropic Radiated Power (Radio Output + Antenna Gain) is limited to (3) 4 Watt. peak or 36 dBm. Request you to replace given parameters for output power & Antenna gain in line with WPC guidelines for EIRP to use 5.8 GHz. Radios as license free radios.</p> <p>2. Antenna of the Radio can be either external or internal but not both. Request you to amend this requirement. Alternatively please consider external antenna for primary link & integrated Antenna for secondary link.</p>	<p>Output Power of Microwave Radio = Min. 27 dBm</p> <p>Suitable Antenna to achieve reliable communication.</p>
24	Page 23 Sec..III No. 3 Sr.No.7	Interface 10/100/1000 BaseT (RJ45), G703/704, G823/824.	<p>1) As radios required to work on purely ethernet / IP (10/100) Base T for extending IPSC connectivity between repeater site request you to remove E1 based interface requirements of G703/704, G823/824</p> <p>2) Under Specification No.6, user data through put requirement is mentioned only 2 mbps, request you to remove interface requirement of 10/100/1000 BaseT and change it to 10/100 BaseT</p>	<p>1) Clause stands as it is.</p> <p>2) 10/100 Base T accepted.</p>

Sr. No.	Tender Reference (Page No./ Clause No)	Tender Clause	Bidder's Observation / Queries	Response to Queries / Clarifications
25	Page 22 Sec..III No. 3 Sr.No.8&9	8. Link Equipments-Outdoor Radios-4, Antenna-4, Router-1, DC Power Supply-2 9. Mode of Operation-1+1 Hot Standby	1. Please confirm DC Power Supply-2 means IDU/PoE Unit which works on 230V AC Power & gives DC Power to Radio ODU. 2. Kindly Specify the input power requirement of Router.	Link Equipment's-Outdoor Radios-4, Antenna-4, DC operated IDU-4, Router-2, DC Power Supply-2. DC operated Router is required.
26	Page 22 Sec..III No. 3 Sr.No.13	Operation Temperature -40 ⁰ C to 60 ⁰ C	M/W Radios being telecom grade equipments normally have the following ratings. Outdoor Unit : -40 ⁰ C to 55 ⁰ C Indoor Unit : 0 ⁰ C to 40 ⁰ C request you to change the requirement as per this.	Clause stands as it is.
27	Page 22 Sec..III No. 3 Sr.No.18	Cabinet - 19" Rack of Suitable dimension.	Kindly allow usage of 19" Rack mentioned under repeater requirement to house M/W IDU as connectivity / interfaces are required with repeaters or kindly specify whether we need to consider separate rack for M/W IDU & associated items.	Separate rack for M/W IDU & associated items is necessary.
28	Page 30 Sec..III No. 7	Programming Kit - 7. Laptop based programming hardware should be provided with heavy duty carrying case.	Kindly specify whether laptop needs to be considered along with programming hardware ? if yes please specify the qty. required.	Qty-02 Intel core i-5 Min. Five generation, 8GB,RAM, 1TB HDD, Display minimum 14 inch LED,4USB(3.0 -qty-02,2.0-Qty-02)HDMI OUT, VGA, Two hours battery backup.

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29	Page 32 Sec..III No.19	Towers - 45 Mtr. SSM Tower for Parsik Hill Rptr. 19. Foundation of Mast - The foundation structure design should be approved by local PWD authority & actual foundation should be carried out under the guidance & supervision of local PWD Officer with co-ordination of local police wireless officer at City / Dist./ Range Office. The charges incurred should be borne by the bidder. The satisfactory foundation work certificate from the local PWD authority be obtained by the bidder.	As per the specification No.16 structural approval needs to be taken from SERC/IIT/COEP. Request you to waive the requirement of PWD supervision, inspection & certification.	Clause stands as it is.
30	Page 33 Sec..III No. 21	Towers - 45 Mtr. SSM Tower for Parsik Hill Rptr. 21. Warranty & defect liability period - Five years from the date of satisfactory installations.	In line with warranty requirement mentioned for other equipments which are part of tender request you to change warranty period to 3 years from 5 years so as to maintain uniformity & submission of required bank guarantees.	It is cleared in this clarification of Sr. No. 16.
31	Page 33 Sec..III No.9 b. Sr.No.19	b) 25 Mtr. SSM Tower for Mataji Hill Repeater - Foundation of Mast - Foundation of Mast - The foundation structure design should be approved by local PWD authority & actual foundation should be carried out under the guidance & supervision of local PWD Officer with co-ordination of local police wireless officer at City / Dist./ Range Office. The charges incurred should be borne by the bidder. The satisfactory foundation work certificate from the local PWD authority be obtained by the bidder.	As per the specification No.19 structural approval needs to be taken from SERC/IIT/COEP. Request you to waive the requirement of PWD supervision, inspection & certification.	Clause stands as it is.

Sr. No.	Tender Reference (Page No./ Clause No)	Tender Clause	Bidder's Observation / Queries	Response to Queries / Clarifications
32	Page 33 Sec..III No.9C Sr.No.23	25 Mtr. SSM Tower for Mataji Hill Repeater. Warranty-Five years on site comprehensive.	In line with warranty requirement mentioned for other equipments which are part of the tender request you to change warranty period to 3 years from 5 years so as maintain uniformity & submission of required bank guarantees.	It is cleared in this clarification of Sr. No. 16.
33	Page 34 Sec..III C Sr.No.13	15 Mtr. SSM Tower for Ambiance Court, building, India Bull Building Repeater. Warranty-Five years on site comprehensive.	In line with warranty requirement mentioned for other equipments which are part of the tender request you to change warranty period to 3 years from 5 years so as maintain uniformity & submission of required bank guarantees.	It is cleared in this clarification of Sr. No. 16.
34	Page 34 Sec..III C Sr.No.10	10 - Outdoor cabinet for Repeater	Please confirm whether you require telecom shelter or 19" rack as specified under repeaters requirement. if its a rack it has to be placed indoors in the room provided by you.	Only out door cabinets (Telecom Shelter) are required.
35	Page 34 Sec..III C Sr.No.10	10 - Outdoor cabinet for Repeater 11. Service life - minimum 10 years	In line with warranty requirement mentioned for other equipments which are part of the tender request you to change warranty period to 3 years from 10 years so as maintain uniformity & submission of required bank guarantees.	10 years is the service life of the Outdoor Cabinet. It is cleared in this clarification of Sr. No. 16.

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