

### Clarification in Technical Specifications

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

Tender No. - 2000Serial No –DGP/17/6162/Retender/DMR-Navi Mumbai/69/2019

DMR System in UHF 400 Mhz. for Navi Mumbai ( **These clarifications are applicable for all the responding bidders** )

<b>Sr. No.</b>	<b>Tender Reference (Page No/ Clause No)</b>	<b>Tender Clause</b>	<b>Bidder's Observation/Queries</b>	<b>Response to Queries/ Clarification</b>
1	Page No.#15	Section A_Site Details for Installation_Inter-Site Radios (On Tabular Column)	Please clarify in details " what is the Intersite Radios"	Intersite radio is the radios used for connecting repeater site-microwave radios for LOS sites and DMR RF patch radios for Non LOS sites. Refer BOM only for quantity.
2	Page No.#15	Section A_SRF channel hardware (On Tabular Column)	Tenderer Intends 18 No.s of Channels (Local and Wide) together. Please confirm which channels are connected in Wide area and share the repeater based network diagram connectivity to understand the network topology in format of Master and peer.	Parsik Hill Repeater will be the Master site and remaining all sites will be the Peer sites.
3	Page No.#16	Proposed DMR Network Diagram of Navi Mumbai Police Commissionarate_Wireless Link	As per Network diagram there is an Indication of Wireless link. Wireless link between "Indian bull bldg RPTR-2", "Ayurvedic College RPTR-2" and "Wood Resort / Barapada RPTR-2". "parasik Hill RPTR Channel-4" & "Control Room". Tenderer Intends for Microwave as a Backhaul. Kindly provide the feasibility report for the Line of Sight (LoS) to establish the link.	Refer pg. No.#25 – Site visit & Radio Coverage. Bidder is supposed to visit and submit detail site survey and radio coverage report prior to quoting.
4	Page No. #19, 22, 26, 30,	Warranty Clause for Mobile, Static, Portable,	Tender intends 5 years warranty for All equipments. Generally AAD offered standard warranty is one year	Clause stands as it is. Warranty period will be from the date of

		Repeater and Dispatcher	and 3 years for Radio main units. Capturing the 5 years Warranty for AAD (which includes consumables like battery, Cables, Antennas, Crimpers etc and the life cycle of AAD is not like that of radios.) is not practical. So Request to amend the warranty as 3 Years for Radio main units and 1 year for for all other AAD items.	successful Acceptance Test Procedure (ATP). Warranty for all the equipments including accessories will be 05 (Five) years except batteries. Warranty of batteries will be 02 (Two) years.
5	Page No. #29	V. SPECIFICAIONS OF DISPATCHER FOR CONTROL ROOM	For dispatcher connectivity need clarification as follows: i. Does Master repeater required stand by ii. Connectivity Between Master repeaters to the Dispatcher server thru IP (Microwave) iii. Does the server needs any stand by iv. Does Analog patch is an part of this network v. Does local channels needs an GPS tracking at control room	i. Master repeater requires stand by with manual changeover ii. Connectivity Between Master repeaters to the Dispatcher server thru IP (Microwave) iii. Dispatcher requires stand by with manual changeover iv. Analog patch is not the part of this network. v. Local channels needs an GPS tracking at control room
6	Page No. 17	Section B, Technical Specification, Digital Wireless Set, D 3	Humidity requested is 30°C 95% to 60°C 95% from 20°C 95% to 60°C 95% from	95% non condensing (30°C to 60°C )- Accepted
7	Page No. 20	Section B, Technical Specification, Digital Handheld Transreceiver, D 3	Humidity requested is 30°C 95% to 60°C from 20°C to 60°C 95% from	95% non condensing (30°C to 60°C )- Accepted
8	Page 3/ clause IX	Latest Test Report along with letter of the tenderer giving	We can submit ILAC (International Laboratory Accreditation co-operation) test certificate / report can be	Accepted.

		<p>technical specifications to the laboratory asking for latest report i.e. on or after March 2018 , of the tendered item should be submitted.</p>	<p>submitted. Please note that these report are generated during product launch or any new feature added to the radio, hence report may not exactly match the date provided in the tender.</p>	
9	<p>page 22, clause 6- Training</p>	<p>Necessary technical training to be given to 30 wireless technical person for two weeks at Police HQ Pune. A) configuration of the system b) component level repairing and maintenance of the system</p>	<p>Operational &amp; Configuration training will be provided, however component level repairing training is not possible. As there is warranty of 05 years and new digital IP-67/68 level radio's are very sophisticated in nature and can not be repaired in general lab environment. We request to delete this clause.</p>	<p>Clause stands as it is.</p>
10	<p>pg. No.#25</p>	<p>H. Mandatory Requirements: #5 Site visit / Radio Coverage</p>	<p>Need an extended time for making a proper survey and Solution freeze. So please Extend the tender date for 3-4 weeks.</p>	<p>Bidder should complete the survey &amp; freeze the solution within stipulated period.</p>
11	<p>Page No # 26</p>	<p>Specification   Microwave   Modulation :2X2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM) progtammable with forward error correction (FEC)</p>	<p>Requested for :2X2 MIMO or SISO - OFDM (BPSK/QPSK/16QAM/64QAM) progtammable with forward error correction (FEC)</p>	<p>Clause stands as it is.</p>

### Clarification in Technical Specifications

**Bidder :M/s Syrma Technology Pvt. Ltd., Mumbai.**

Tender No. - 2000 Serial No –DGP/17/6162/Retender/DMR-Navi Mumbai/69/2019

DMR 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/ Clarification
1	Page 3/clause 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 2018 , of the tendered item should be submitted.	We can submit ILAC (International Laboratory Accreditation co-operation) test certificate / report can be submitted. Please note that these report are generated during product launch or any new feature added to the radio, hence report may not exactly match the date provided in the tender.	Accepted.
2	Page 19/clause H, sub clause 1-Equipment of Demo	At the time of product evaluation bidder should bring adequate qty. of the e offered make & model radios, test jig, other test & measuring instruments required to demonstrate full functionality Radio	We request you to waive off the demo for larger participation and smooth tender process OR limited the Demo to 1 rprr, 2 portable and one mobile for testing the feature of DMR tier II radio.	Clause stands as it is.

3	3 Page 19/clause H, sub clause 7- Warranty	05 years from successful acceptance procedure ( ATP). Warranty for all the equipment including accessories is 05 years.	We assume that warranty for handheld radio will be one year from the date of acceptance, kindly clarify	Clause stands as it is.  Warranty period will be from the date of successful Acceptance Test Procedure (ATP). Warranty for all the equipments including accessories will be 05 (Five) years except batteries. Warranty of batteries will be 02 (Two) years.
4	Page 19-20- digital radio handheld , clause D, environmental specification, Sub clause 5 IP standard	IP-68	We request to change the IP standard to iP-67 for larger participation from OEM.	Clause stands as it is.
5	page 22, clause 6- Training	Necessary technical training to be given to 30 wireless technical person for two weeks at Police HQ Pune. A) configuration of the system b) component level repairing and maintenance of the system	Operational & Configuration training will be provided, however component level repairing training is not possible. As there is warranty of 05 years and new digital IP-67/68 level radio's are very sophisticated in nature and can not be repaired in general lab environment. We request to delete this clause.	Clause stands as it is.
6			We request you to allow multiple OEM for this requirement to prove the interoperability which one of the prime criteria of DMR Tier II	Refer page 25, clause H-1 Interoperability.

**Clarification in Technical Specifications**

**Bidder :M/s Sanchar Telesystems Ltd.**

Tender No. – 2000 Serial No –DGP/17/6162/Retender/DMR-Navi Mumbai/69/2019

DMR 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/ Clarification
1	Page No 20 (IP Standard)	IP-68	<p>As per the tender, Bidders are require to offer IP68 Transreceiver. Here we wish to bring your kind notice that many of the manufacturers do not have IP68 and offered IP67 Transreceiver. The Kenwood DMR handheld Transreceiver (model NX-3220)also comply to IP67</p> <p>For your kind information MHA specification for Digital Handheld transceiver also does not mention IP68 standards.</p> <p>Request amend IP standard as under :- IP67</p>	Clause stands as it is.

### Clarification in Technical Specifications

**Bidder : M/s Enviro Safety Pvt. ltd.**

Tender No. – 2000 Serial No –DGP/17/6162/Retender/DMR-Navi Mumbai/69/2018

DMR 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/ Clarification
1	Page No.29 of 38 (S.No 3 of V)	Specification of Dispatcher for Control Room: Capacity : Minimum 1200 radios per dispatcher	Dispatcher requirement is 02 Nos. The total requirement of Handheld and Mobile/Static (450+350): 800 Nos.  Kindly clarify the following : 1. Is customer looking for 1200 Radio license per dispatcher. 2. If the requirement is 1200 Radios per dispatcher, the total requirement radio licenses are 2400 for two dispatchers. Is our understanding is correct. 3. Also these two dispatchers are installed at Control Room. 4. Is Customer looking for 01 x Server & 02 Client configuration of IP Dispatcher.	Our requirement is Two Dispatcher in Working +stand-by (manual switchover) configuration, having capacity of minimum 1200 radios.  Both dispatchers will be installed at same location in Working + Stand-by (manual switchover) configuration.  We do not require Server-Client based solution.
2	Page No 01 of 38 Ser No (c)	Online Submission of Tender date : 19 April 2019	Due to number of holidays during current week., we have less time for bid preparation & more number of associated components & site survey is being takes place. Request you to kindly extend the date of bid submission for two weeks from the date of clarifications.	Bid submission date extend to 1 week from the date of clarifications.