

Corrigendum in Tender no. HWT041218524 (for Revised RFP Dated 07.11.2019)

Request for Proposal (RFP) for Selection of System Integrator for Design, Supply, Implementation and Maintenance of a Digital Trunked Radio System (DTRS) in the Police Commissionerates of Ahmedabad City & Gandhinagar District areas. **Tender no. HWT041218524**

Responses to the 2nd pre bid queries for dated 26.11.2019 (for Revised bid dated 07.11.2019) pursuant to the RFP

The bid queries have been responded in this document. RFP Document stands modified to the extent clarifications have been made as enclosed below. In addition, following changes in the RFP bid document itself.

Revised Commercial Bid Format (Volume 1, Clause 13.2.2, Sr.No-7, & Volume 2, Section 4, Clause 4.6.3, Sr.7 BOM))- “ Integrated CAD Quantity is removed from the scope of this RFP”

Sr. No.	Old Criterion (Quantity)	New Criterion (Quantity)
Volume 1, Clause 13.2.2, Sr.No-7 & Volume 2, Section 4, Clause 4.6.3 Sr.N-7, BOM),	“Integrated CAD Consoles at Central Control Room with call taking and dispatching facilities as per scope of work with all the required hardware, software, applicable licenses and 5 years’ onsite warranty. No of Quantity 30.”	Integrated CAD is removed from the scope of this RFP. Vol- 1, Clause 13.2.2, Sr. No-7 Vol - 2, Section - 4.6.3 (BoQ), Sr. No. - 7 stands removed

Note: Those bidders who have submitted financial bid on n-procure website are required to re-submit price as per revised financial bid on nprocure website.

All other tender terms & conditions remain unchanged.

Clarifications of the queries received from the interested bidders for Request for Proposal (RFP) for Selection of System Integrator for Design, Supply, Implementation and Maintenance of a Digital Trunked Radio System (DTRS) in the Police Commissionerates of Ahmedabad City & Gandhinagar District areas (Tender No: HWT041218524(for Revised RFP Dated 07.11.2019)

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
1	Vol - I	7	Eligibility Criterion, Sr. No. 9	The OEM should have supplied & commissioned at least 3 state wide / district wide projects anywhere in world with 75 BTS each for the technology proposed in the proposal. The project should have gone live and working satisfactorily for at least 1 year from the date of publishing of RFP.	It is to submit that district wide network as allowed in this clause may not require as large as 75 BTS. The actual requirement of BTS for district wide network will be much less. Keeping this in view, requirement of BTS quantity requirement in this clause may be reduced to 1/10 th or so of the quantity mentioned herein in this clause which will be in line with the BTS quantity required as given in the bill of material of Scope of Work of the tender.	No change. Additionally, selected bidder will have to provide customer details & contact information for verification.
2	Vol - I	Annexure - B	Draft Master Service Agreement, Clause-7: Payment Terms	Milestones and Payment Schedules for Implementation Phase	It is requested that for the implementation of such large projects, the payment of 60% of contract value on successful delivery of materials at site.	No change.
3	Vol - I	Annexure - B	Draft Master Service Agreement, Clause-6: Work Completion timelines	Go live of complete Network after Supply, Installation, Testing and Commissioning with successful FAT of this scope	It is submitted that the time period given for Go live of complete Network after Supply, Installation, Testing and Commissioning with successful FAT of this scope is indicated as 4 months which seems to be very short for implementation of such projects. It is therefore requested that the time period for this activity may please be increased from 4 months to 6 months.	5 months to be considered and subsequent payment milestones will be updated accordingly.
4	Vol - I	3	Notice Inviting Bids	Last Date and Time for Submission of online Bids	It is to submit that the bid preparation for such tenders involves several rounds of deliberations / communication with radio OEMs for making a fully technically compliant & competitive offer which requires sufficient time. Also the clarifications to the above mentioned queries are awaited. Hence we request you to extend the last date of tender by atleast 3 weeks to enable us in submitting a comprehensive techno-economic bid for the tender.	Please refer corrigendum.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
5	Vol - II	4.12 (Mobile Data Terminal)		The terminal Shall be dash Mountable in Police car with Discrete and strong Mount.	It is advisable to have Rugged Vehicle cradle with keyed lock for theft deterrence along with the rugged mount to withstand the Vibration, shock crash as per MIL-STD 810G test certification. Certificates & Testing <ul style="list-style-type: none"> • Vibration Tested: MIL-STD 810G Non-Operational • Shock Crash Hazard: SAE J1455; Mechanical Shock: 40g • Cycle Test: Latch and Lock - 30,000 Cycles 	Revised clause: The terminal shall be dash mountable in Police cars with discrete and strong mount with lock arrangement. Mount shall meet international standard of MIL-STD-810 G.
6	Vol - II	4.12 (Mobile Data Terminal)		The terminal shall have In-Built GPS	It is advisable to have dedicated GPS instead of Assisted GPS to have more precision. MDT with dedicated GPS can also eliminate the procurement of additional GPS devices and the SIM data services.	Revised clause: The terminal shall have in-built GPS with accuracy up to 50 meters or better.
7	Vol - II	4.12 (Mobile Data Terminal)		The Terminal Shall be DC Powered from vehicle battery and Should have internal Battery for at least 2 hours operation	We request you ask for a reliable branded DC charger with min 3yr warranty. In addition to the DC Charger it is advisable to have a higher Lithium- Ion battery min 7000mAh so that one shift of operation (Approx.8hr)will be taken care in case the patrolling vehicle is stationed at a single point or during any breakdown of the vehicle.	Revised clause: The terminal shall be DC powered from vehicle battery and should have internal battery backup of 7000 mAh for at least 8 hours operation.
8	Vol - II	4.12 (Mobile Data Terminal)		The terminal shall have at least 4" X 5" Capacitive touch screen.	<ol style="list-style-type: none"> 1. It will be very difficult for a Beat constable to view, to operate, navigate, update the action taken report and send back to control room on such smaller display. 2. Screen size of 4 to 5" is available with only one brand and also will limit the competition. 3. Currently many Police departments especially for 4 wheeler they use minimum 7-8" screen size to have better visibility with higher sunlight readable brightness. 4. The common consumers buying trend is also not less than 6" and recent launches by all leading brands are not less than 6". Please find attached GSM Arena report which shows that there is only 17phones were launched in 5"category and 0 phones from 4" to 4.9" size. 5. Hence we propose to have higher screen size from 7" to 8" within the weight specified in RFP. 	Revised clause: The terminal shall have at least 7" (7 inch) diagonal capacitive touch screen.

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9	Vol - II	4.12 (Mobile Data Terminal)		The terminal shall have at least 1 USB Port	<p>Kindly request you to consider USB 2.0 or 3.0 or Type C as it varies for every manufacturer. Advantages of Type C connectors are highly powerful, because</p> <ul style="list-style-type: none"> · Reversible connector · Extended power delivery capability · Flexible · Alternate mode support 	The terminal shall have at least 1 USB port of Type - 2.0 / 3.0 / C.
10	Vol - II	4.12 (Mobile Data Terminal)		The operating temperature of MDT shall be in the range -30 to 60 degree Celsius. The MDT Unit shall meet international standard (MIL-STD-810 E/F/G Or ETSI 300-019 1-7 Or ETSI EN 300 019-2-5 standard) for shock, drop, vibration, dust, rain and humidity as those standards specification require equipment to undergo mechanical extensive shock & vibration and humidity test procedures.	<p>We request you to consider operating temperature form - 20 C as per MIL-STD-810G which is widely accepted in Defence and Police verticals Globally.</p> <p>Kindly request you ask for min 4 feet drop as per MIL-STD-810G without additional protection cover.</p>	The operating temperature of MDT shall be in the range -20 to 60 degree Celsius.
11	Vol - II	4.12 (Mobile Data Terminal)	Eligibility criteria	Additional point	<ol style="list-style-type: none"> 1. MIL-STD-810G Certificate for MDT needs to be submitted from any Govt Accreditation lab 2. Should have a valid BIS certificate 3. OEMs should be present in India for minimum last 3years. 4. OEM should be ISO certified 5. The same make should be deployed at least 100 Nos in any of the Govt/PSU and should be operational for a min of 1year to have a proven and reliable product. 6. OEM Should have Authorized service center in Gujarat 7. Bidder need to submit "Performance Certificate" obtained from their client / end users for at least continuous successful operation of one year. 	No change.

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12	Vol - II	4.12 (Mobile Data Terminal)	NA	Additional point	<p>Ruggedness</p> <p>1) Since these devices are field usable we request you to ask for min IP-65 certification</p> <p>2) Also we request you to ask for minimum sunlight readable devices with a brightness of 500NITs</p>	<p>Additional clause for MDT (Mobile Data Terminal):</p> <p>1. MDT should be minimum IP-65 rated.</p> <p>2. Brightness in MDT should be minimum 500 nits so it is also visible in sunlight.</p> <p>3. RAM of MDT should be 2 GB or higher and storage memory should be 32 GB or Higher.</p>
13	Vol - I	7	Vol 1, Section 7, Clause No. A) Item 5, Page 12	<p>Prime Bidder should have a minimum average annual turnover of INR 200 Cr in last three financial years i.e. FY 2018-19, FY2017-18 & FY 2016-17.</p> <p>Note: Turnover considered would be a consolidated turnover of the company i.e. A parent Company can use the turnover of its subsidiaries (50% and above holding) but a child company cannot use parent company's turnover.</p>	<p>The turnover requirement in the tender is very high. The present tender project size is much smaller than turn over requirement in the tender. This high turn over requirement will restrict the bids to very few companies who may not be related to radio business. Hence we would like to request that the turnover requirement be changed to INR 100 Crores in the last three financial years i.e. FY 2018-19, FY 2017-18 & FY 2016-17. Please confirm</p>	No change.
14	Vol - I	9	Vol 1, Section 9, Clause No. 9.1, Item 5, Page 40	<p>Total liquidated damages to be levied on the SI shall be capped at 15% of the total contract value.</p> <p>However, Gujarat Police would have right to invoke termination of the contract in case the overall liquidated damages equals 15% of total contract value.</p>	<p>This clause is contradictory to Section No. 9.2 (Implementation Stage SLA) Clause No. 3 on Page No. 41 where total liquidated damages are capped at 10% of the total contract value. Please confirm that the total liquidated damaged shall be capped at 10% of the total contract value.</p>	No change. Please refer updated point with yellow colour in both the clauses mentioned in queries.

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15	Vol - I	8	Vol 1, Section 8, Clause No. 8.17, Page 24	Prices quoted must be firm and final and shall not be subject to any upward modifications, on any account whatsoever. Prices shall be expressed in Indian Rupees (INR) only.	<p>GST law in India is undergoing various changes. In light of the above, we request that Contract value to be exclusive of Goods & Services Taxes & associated cess/levies. Any increase or decrease or new introduction of in taxes or duties or cess or levies be on account on Purchaser. The bidder shall not be getting any advantage from taxes. Hence, we would like to request to consider below updated clause against this requirement: "Price shall be expressed in Indian Rupees (INR) only and shall be exclusive of Goods and Services Taxes, Duties, Taxes & Levies. Any increase or decrease or new introduction of taxes or duties or cess or levies after date of submission shall increase or decrease the contract price accordingly."</p> <p>Since this is a 5 year INR contract with price validity for variations, request consideration of a FX clause - " Any forex fluctuation beyond 3% from USD to INR foreign exchange rate prevailing on the date of bid submission shall subsequently increase or decrease the contract price accordingly"</p>	No change.
16	Vol - I	8	Vol 1, Section 8, Clause No. 8.24, Point - 1, Page 38	The successful bidder shall at his own expense, deposit with department, within 15 calendar days of the notification of award (done through issuance of the Work Order/Purchase Order/Letter of Intent), an unconditional and irrevocable Performance Bank Guarantee (PBG) from a list of approved banks as per the format given in this Bid Document, in favor of Gujarat State Police, Home Department, Govt. Of Gujarat, for the due performance and fulfillment of the contract by the bidder.	The requirement to submit PBG within 15 calendar days of the notification of award is very stringent. It actually implies only 10 banking days. We would like to request that successful bidder be provided 45 calendar days from date of award of contract to submit PBG. Please confirm.	No change.

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17	Vol - I	10	Vol 1, Section No. 10, Clause No. 10.2.1, Page 45	10.2.1. Milestones and Payment Schedules for Implementation Phase	As per current tender conditions, the Milestones and Payment Schedules for implementation phase are stated for implementation of "Complete Network" comprising of both districts Ahmedabad and Gandhinagar combined. However, the processing of licensing will happen separately for both districts which could result in implementation of networks in both districts at separate times. Hence, we would like to request that the Milestone and Payment Schedule for Implementation phase be stated separately for the two districts i.e. Ahmedabad and Gandhinagar on individual basis. Billing and Payment Terms have to be section/phase wise.	As per answer provided against Sr. No. - 2.
18	Vol - I	10	Vol 1, Section No. 10, Clause No. 10.2.1, Page 45 & 46	Mo: Equipment delivery at site accepted by Gujarat Police - 40% of overall capex value M1.1: Installation, Commissioning, Successful FAT of entire Network and Go live of complete Network - 40% of overall capex value M1.2: Three months of successful Operation and Maintenance after Successful FAT of entire Network - 10% of overall capex value M2.1: Twelve months of successful Operation and Maintenance after Successful FAT of entire Network - 10% of overall capex value	The current payment terms stated in the tender are very stringent and shall create an undue hardship for the vendor with no payment linked to Supply and very small mobilisation advance offered. We would like to request to revise this payment term as below: Mo: Mobilization Advance - 2% of overall capex value M1.1: Supply of Equipment - 70% of overall capex value M1.2: Installation, Commissioning, successful FAT and Go live - 28% of overall capex value	As per answer provided against Sr. No. - 2.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
19	Vol - I	11	Vol 1, Section No. 11, Clause No. 11.4, Page 52	11.4. PQ_2: Format for Bank Guarantee for Bid Security (Earnest Money Deposit) PERFORMANCE BANK GUARANTEE	<p>Format in 11.4 is related to Earnest Money Deposit so please change the verbiage of PERFORMANCE BANK GUARANTEE to EARNEST MONEY DEPOSIT in the Bank Guarantee format.</p> <p>The guarantee will enforceable only upto the validity of the PBG.</p> <p>" The Bank undertakes not to revoke this guarantee during it's currency without previous consent of the Gujarat Informatics Limited and further agrees that the guarantee herein contained shall continue to be enforceable through the validity of the Performance Bank Guarantee"</p>	No change. Please refer revised RFP.
20	Vol - I	11	Vol 1, Section No. 11, Clause No. 11.4, Page 53	<p>11.4. PQ_2: Format for Bank Guarantee for Bid Security (Earnest Money Deposit) PERFORMANCE BANK GUARANTEE</p> <p>Note: Bank guarantee should be from any nationalized bank including the public sector bank / private sector bank / commercial bank / cooperative bank and rural bank (operating in India having branch at Ahmedabad / Gandhinagar) as per the GR no.: EMD/10/2018/18/DMO dated 16-04-2018 (http://www.gil.gujarat.gov.in/grs/DMO_2173_16_Apr_2018_714.pdf) issued by Finance Department or further instruction issued by Finance Department time to time.</p>	<p><u>We request verbiage to be updated as below;</u></p> <p>Note: Bank guarantee should be from any nationalized bank including the public sector bank / private sector bank / commercial bank / cooperative bank and rural bank (operating in India having branch at Ahmedabad / Gandhinagar) as per the GR no.: EMD/10/2018/18/DMO dated 16-04-2018 (http://www.gil.gujarat.gov.in/grs/DMO_2173_16_Apr_2018_714.pdf) issued by Finance Department or further instruction issued by Finance Department time to time.</p>	No change.

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21	Vol - I	7	Vol 1, Section 7, Clause No. B) Item 9, Page 13	<p>The OEM should have supplied & commissioned at least 3 state wide / district wide projects anywhere in world with 75 BTS each for the technology (APCO P25 Digital Trunking*/TETRA). The project should have gone live and working satisfactorily for at least 1 year from the date of publishing of RFP.</p> <p>Note: * This is only for eligibility criteria.</p>	<p>This requirement should be restricted to ONE project anywhere in the world with 75 BTS. It is not possible to arrange 03 project references of such large size. Also in any other DTRS tender in the country, ONE project reference is asked for pre-qualification. Hence it is requested to change this to ONE project.</p> <p>We also request you to include prime bidders experience in setting DTRS technology offered by him in atleast one state police department in India</p>	As per answer provided against Sr. No. - 1.
22	Vol - I	7	Vol 1, Section 7, Clause No. B) Item 9, Page 13	<p>The OEM should have supplied & commissioned at least 3 state wide / district wide projects anywhere in world with 75 BTS each for the technology (APCO P25 Digital Trunking*/TETRA). The project should have gone live and working satisfactorily for at least 1 year from the date of publishing of RFP.</p> <p>Note: * This is only for eligibility criteria.</p> <p>Documents - Work order and project commissioning / acceptance certificate from end customer.</p>	<p>Work order copies are typically governed by NDA (Non Disclosure Agreement) signed with government customers. Hence, we would like to request that Certificate issued by End Customer with the required details be also accepted against this criteria. Please confirm</p>	No change.
23	Vol - I	3	Vol 1, Section 3, Notice Inviting Bids, Page 6	Last date of bid submission - 10/12/2019	<p>Given the complexity of designing such large digital radio trunking system including field survey and planning for sites and backbone connectivity, we would like to request that the bid submission timelines be considered to be at least 6 weeks from date of issue of clarification response.</p>	As per answer provided against Sr. No. - 4.

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24	Vol - I	9	Vol 1, Section 9, Clause 9.2 Item 3, Page 41	If the liquidated damage reaches 10% of the total contract value, Authority may invoke termination clause.	<p>Cross reference to Vol 1, section 9, clause 9.1 item 5, page 40: Total liquidated damages to be levied on the SI shall be capped at 15% of the total contract value.</p> <p>To avoid any ambiguity and as a standard practice this clause for LD capped at 10% should be considered. Please confirm</p>	As per answer provided against Sr. No. - 14.
25	Vol - I	9	Vol 1, Section 9, Clause 9.3, Page 41	Penalty of INR xxK per day for non-availability at Project site.	<p>a) We understand that Project manager is required to be present on site for the entire implementation phase. However, the remaining team members will be required on need basis of the project. Keeping the entire team onsite for the entire project implementation phase will have high cost impact and also not required or practical. Request to amend the clause accordingly.</p> <p>b) We assume that project duration considered here is of maximum 10 months including WPC process(Page No. 83, Vol 1, Clause 14.2, Item 6), for which the project team has be placed.</p>	No change. Manpower requirement is already updated in revised RFP.
26	Vol - I	9	Vol 1, Section 9, Clause 9.4 Item 1,2,3 & 6, Page 42, 43 & 44	<p>Penalty of x% of total O&M charge to be paid per month</p> <p>Penalty of INR 5000/- per day per radio device shall be applicable for every consecutive day.</p> <p>SLA for Call Failure in a month</p>	<p>SLA penalty looks very stringent. Penalty to be at 0.01% of O&M charge.</p> <p>We would request that overall SLA penalty will be capped to 10 % of O&M charges.</p> <p>Do the penalty apply to redundant equipment which is not causing any loss in communication or features? Would the penalty should be against that device only?</p> <p>Kindly Clarify.</p>	Penalty will be applied to all equipment including redundant equipment.

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27	Vol - I	9	Vol 1, Section 9, Clause 9.4 Item 4 & 5, Page 43	Backbone Connectivity Network Availability for a month	Backbone network availability has to be provided by service provider. The DTRS bidder will not be involved in the SLA of backbone connectivity network as the service provider will be contracting with Gujarat Police directly. Hence this clause should be deleted.	No change.

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28	Vol - I	14.2	Vol 1, Section 14.2, Clause 14 item 13, Page 86	<p>Maintain standard forms of comprehensive insurance including liability insurance, system & facility insurance & any other insurance for the Assets, data, software, etc in the joint names of GSP-HD & the System Integrator, where SI shall be designated as the 'loss payee' in such insurance policies; SI shall be liable to pay premium for the insurance policy & shall ensure that each & every policy shall keep updated from time to time. Insurance will be for the period till 100% Go-live of the Network after FAT (Final Acceptance Testing).</p>	<p>We understand this will include EAR - Erection All Risks covering property loss/damage and third party liability. This insurance will be for the project implementation period. Please confirm</p>	<p>Answer - 1: Yes Answer - 2: No change</p> <p>Revised clause (Vol - 1, Section - 14.2, Clause - 14, Sr. No. - 13): Use the Assets only in accordance with the terms hereof & those contained in the SLAs; Maintain standard forms of comprehensive insurance including liability insurance, system & facility insurance & any other insurance (to cover cases of theft etc.) for the Assets, data, software, etc in the joint names of GSP-HD & the System Integrator, where SI shall be designated as the 'loss payee' in such insurance policies; SI shall be liable to pay premium for the insurance policy & shall ensure that each & every policy shall keep updated from time to time. Insurance will be for the period till 100% Go-live of the Network after FAT (Final Acceptance Testing).</p> <p>Note: In case of any theft or damage to any hardware, assets, data, software etc. due to any reason before 100% Go-live of the Network (i.e. before FAT (Final Acceptance Testing)), successful bidder will be responsible to supply, install, integrate & commission the same new hardware, assets, data, software etc. free of cost.</p>

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						GSP-HD will not bear any cost for this.

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29	Vol - II	4	Vol 2 , Section 4 ,Clause 4.9 Item 4) ,Page 32	<p>a) All electrical & electronics equipment installed at central switching centers, BTS sites etc. are to be earthen by implementing 2 separate earth grids for electrical & electronics components. Each earth grid will have minimum 2 earth pits having arrangement of plate earthing. All metallic objects on the premises that are likely to be energized by electric currents should be effectively grounded. There should be enough space between data and power cabling and there should not be any cross wiring of the two to avoid any interference or corruption of data. Bidder will have to make all required arrangements of earthing including (but not limited to) preparing earthing pits, laying earthing strips from earthing pits to equipment room, laying earthing cables from various equipment to earthing strips in an equipment room etc. Proper earthing will be a responsibility of a bidder, any fault/issue in an electronics due to poor earthing will be bidder's responsibility & bidder will have to bear cost of rectification/replacement of faulty equipment.</p>	<p>We understand that Gujarat Police will provide earthing point in every equipment room whereby SI vendor can connect the grounding cables from system equipment to those termination points. Please confirm.</p>	<p>No change.</p>

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30	Vol - II	4	Vol 2 , Section 4 , Clause 4.14, Page 66	<p>1. The Bidder shall provide employee training for all Call Takers and Administrative Staff. Training shall be detailed in the proposal. Details shall include a full training curriculum and the level of proficiency expected for each training module or class. Bidder is expected to provide following:</p> <p>2. Operational training of Hand held devices to all users & refresher training once in year for project duration. Also set of police staff say 300 to 500, are to be trained as trainers who would, in turn, impart Operational training of Hand held devices to their colleagues as & when required.</p>	<p>a). The Training requirement stated for operational training(For Subscriber usage) is very large. Gujarat police can identify a group of users who can be trained and based on philosophy of 'train the trainer', bidder can train these set of users who can further train Gujarat police personnel as required. Based on same, we would like to propose local training for 20 to 50 people in each Commissionerate at customer location. Please confirm if the same is acceptable.</p> <p>Please define project duration. In case project duration includes warranty period then per year training will significantly increase the cost. Moreover, once the initial training is conducted, there is no further training required. Please comment if per year training still needs to be considered.</p>	No change.
31	Vol - II	5	Vol 2 ,Section 5, Clause 5.1, Page 67	<p>1. A Project Management office will be set up during the start of the project. The PMO will, at the minimum, include a designated full time Project Manager from SI. It will also include key persons from other relevant stakeholders including members of Gujarat Police and other officials / representatives by invitation. The operational aspects of the PMO need to be handled by the SI including maintaining weekly statuses, minutes of the meetings, weekly / monthly project plans, etc.</p>	<p>We assume that suitable location at police premises will be provided to set up Project Management office(PMO). Please confirm.</p>	Please refer note at the end of Section - 5.

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32	Vol - II	5	Vol 2, Section 5, Clause 5.4 Item 1), Page 68	The table below provides the minimum qualification of a Project team for entire Project implementation phase. The below team should be placed onsite for entire Project implementation phase.	<p>Project manager is required to be present on site for the entire implementation phase. However the remaining team members will be required on need basis of the project. Keeping the entire team onsite for the entire project implementation phase will have high cost impact and also not required or practical. Request to amend the clause accordingly.</p> <p>We assume that project duration considered here is of maximum 10 months including WPC process(Page No. 83, Vol 1,Clause 14.2, Item 6), for which the project team has be placed.</p>	As per answer provided against Sr. No. - 25.
33	Vol - II	5	Vol 2 , Section 5 , Clause 5.5, Page 69	1. SI will have to provide below mentioned minimum manpower during entire Operation and Maintenance period. SI will be free to deploy more manpower to adhere to the SLAs mentioned in Vol – 1 of this RFP. Bidder shall not engage any O&M team members / labors having criminal records, unsound mind and poor health.	Site maintenance manager is required to be present on site for the entire warranty period. However the remaining team members will be required on need basis. Keeping the entire team onsite for the entire O&M period will have high cost impact and also not required or practical. Request to amend the clause accordingly.	2 nos. Network engineers are removed from Operation and Maintenance Team. Balance O&M team remains as it is.
34	Vol - I	7	Vol 1, Section 7, Clause 15, Pg No.- 14	"In case of consortium, not more than three parties are permitted....."	This clause provides that more than three parties are not permitted to form a consortium, whereas Vol 1, Section 8.21.1 provides that OEM must be present as one of the consortium partner in every BID. In the event the Radio System comprises of more than 3 OEMs in total, please clarify if all OEMs will need to be a part of the consortium and Vol 1, Section 8.21.1 will be amended accordingly ?	OEM supplying radio system components like central switch, BTS & controller etc. must be present as one of the consortium partner in a BID.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
35	Vol - I	14.2	Vol 1, Section 14.2, Clause 26.4, Pg No.- 92	"To the extent that the System Integrator's Proprietary Information is incorporated within the Deliverables, System Integrator and its employees engaged hereby grant to GSP-HD a worldwide, perpetual, irrevocable, non-exclusive, transferable, paid-up right and license to use, copy, modify (or have modified), use and copy derivative works for the benefit of and internal use of GSP-HD."	The definition of "Propriety Information" is not provided. Please provide the definition. Motorola's position with respect to IPR transfers is as follows - "No transfer of any pre-existing intellectual property ("Background IP") incorporated with the Deliverables is intended by way of this Agreement. GSP-HD shall have a conditional, revocable and non-exclusive license to use and sub-license any software that is part of Deliverables under this Agreement. System Integrator shall retain all the intellectual property rights in the inventions relating to the Deliverables under this Agreement ("Foreground IP") unless all those inventions are 100% funded by GSP-HD and a clear distinction can be drawn between Background IP and Foreground IP. "	As per answer provided against Sr. No. - 109.
36	Vol - I	13.2.3	Vol 1, Section - 13.2.3 (2), Pg No.- 74	O&M Period will start with successful completion of Final Acceptance Testing of entire network	O&M period for each phase or section to start from earlier of Final Acceptance Test or Revenue Operation Date or System's Beneficial Use whichever is earlier.	No change.
37	Vol - I	Annexure - B	Vol 1, Annexure B, 14(3),(13),(16), Pg No.- 80	Ownership & Insurance	Ownership and Risk & Rewards of the Supplies to be transferred to the Purchaser as per INCO Terms.	No change.
38	Vol - I	29	Vol 1 - Section - 29 (b), Pg No.- 94	Termination for Convenience	In case of Termination for Convenience - All payment for work done till date of termination has to be paid by Purchaser to Bidder.	Please refer Vol - 1, Section - 14.2, Clause - 29 (c), Sr. No. - 5.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
39	Vol - I		Vol 1, Clause 14, Item 3, Page 86	Assets would be owned by the GSP-HD after Go-live of the Project, however, the System Integrator would be custodian of the same during the entire contract period and would take care of all wear-tear, insurance, theft etc. during the entire contract period so that the SLAs are not affected.	Sub contractor will handover the equipment delivered for project to Gujarat Police after delivery/Inventory check at Gujarat Police warehouse. Post inventory check "custodian of the same during the entire contract period and would take care of all wear-tear, insurance, theft etc. during the entire contract period so that the SLAs are not affected" will be the responsibility of Gujarat Police. Please amend the clause accordingly.	Revised clause (Vol - 1, Section - 14.2, Clause - 14, Sr. No. - 3): Assets would be owned by the GSP-HD after Go-live of the Project, however, the System Integrator would be custodian of the same during the entire contract period and would take care of all wear-tear etc. during the entire contract period so that the SLAs are not affected.
40	Vol - II	4	Volume 2, Section 4, Clause 4.3 Item 1 & 2, Page 10	Details of Police Stations and Other Locations	1) Not enough sites are available for Gandhinagar District. 2) Many of the sites given for Gandhinagar mention "No Space for Lattice Tower" 3) The given sites are inadequate for positioning the Base Station sites for good RF coverage. Please provide a more exhaustive list of sites for optimised RF Coverage planning.	For Gandhinagar district, wherever Police stations are not available, bidders are free to plan BTS site for adequate RF coverage. Police department / Home department will support to acquire nearby government office / place to implement the site. Bidders are also required to make use of all Police station locations for planning BTS sites. It should not happen that Police station locations are not planned for BTS sites and other locations are planned.
41	Vol - II	4	Volume 2, Section 4, Clause 4.4 Item e), Page 11	Bidder will be responsible to ensure full in-building coverage in the building / places / campuses listed in Annexure – III.	Building plans would be required and ground survey needs to be conducted before the bid submission, for assessing the requirements. Please advise on the Point of Contact who'd help in getting the required permissions for survey. The in-building solution without Building Plans will be inconclusive and should not be treated as binding.	Ok, bidder will have to quote unit price in Financial bid for required components for in-building coverage as per defined BoQ line items (approximate quantities are already given in Financial bid). If additional quantities are required to fulfill full in-building coverage during implementation, GSP-HD will pay to SI for additional quantities at the discovered rate.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
42	Vol - II	4	Volume 2, Section 4, Clause 4.4 Item i), Page 11	There may be instances where temporary coverage will be required inside the building (other than the critical buildings and important places defined in Annexure – III) for an operation. Bidder should explain in their response how this requirement can be achieved.	<p>The RF coverage for any building other than those listed in Annexure III shall be on a best effort basis and the coverage cannot be guaranteed to the criteria mentioned in clause 4.4 e).</p> <p>Temporary coverage may be achieved through deployment of a Digital Vehicular Repeater System.</p> <p>In case the same is required, we request you to introduce a separate line item in BoQ with the required quantity for this solution.</p>	<p>Please refer complete clause of RFP Vol 2/ Section 4.4/ i</p> <p>Also, Refer RFP Vol 1/ Section 13.2.2/ Sr. No 13</p>
43	Vol - II	4	Volume 2, Section 4, Clause 4.4 Item j), Page 12	The bidder shall visit the existing sites, access the suitability of the sites for installation of proposed base stations. The additional requirements at the site with respect to shelter, electrical requirements, infrastructure, temperature maintaining system, power backup facilities shall be quoted by the bidder if the site is chosen for installation of the base station.	<p>The survey and assessment of the specified sites for availability of various infrastructure can best be ascertained by Gujarat Police. Moreover, it'll take months for prospective bidders to survey more than 40 sites.</p> <p>Hence we request the assessment be done by the department and a fixed BoQ should be released so that all bidders offer similar type and quantity of equipment.</p> <p>Further, a room should be chosen by the department and earmarked for setting up the equipment room, for ascertaining the amount of work required to make it suitable for housing the equipment.</p> <p>Please confirm.</p>	No Change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
44	Vol - II	4	Volume 2, Section 4, Clause 4.4 Item r), Page 12	Portable BTS as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty. Portable BTS shall be enabled with 8 channels at least to support public gathering event. Portable BTS shall support extended temperature range up to 50 degree C and IP 66.	<p>Portable base stations have lesser capacity/capability and are generally used to augment RF coverage on a temporary basis. Nevertheless, the base stations house critical electronic components and still require a secure, temperature controlled environment for longevity of equipment.</p> <p>We request you to limit the number of carriers to 2-3 and remove the Ingress Protection, for us to offer a suitable, tested product.</p>	No change.
45	Vol - II	4	Volume 2, Section 4, Clause 4.5, Page 13	Frequency Planning	<p>We'd like to understand the basis of the Number of Voice channels required, as mentioned in "Volume 2, Section 4, Clause 4.7 Item 32), Page 27".</p> <p>If the said clause is binding, then the bidder shall not be responsible to convince the Government Authorities, as required in Section 4.5.</p> <p>We'd like to highlight that given the number of radios subscribers intended to be purchased, the number of carriers asked for in subsequent sections of this tender cannot be justified, and would entail a huge cost to the customer, in terms of loyalty payments every year, while most of them would remain idle.</p> <p>Hence, we request you to either leave it to the bidder to propose according to the number of operational groups and "Grade of Service" specified by you, or limit it to maximum 8 channels in city environment and 4 channels in rural,</p> <p>Please confirm.</p>	<p>Below mentioned requirement related to Rathayatra route is removed from the scope of this RFP. All other points of Volume 2, Section 4, Clause 4.7 Item 32 remains as it is.</p> <p>At least 32 channels (31 voice traffic channels + 1 control channel) in Base Station sites which will cover Rathayatra route in Ahmedabad city).</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
46	Vol - II	4	Volume 2, Section 4, Clause 4.6.1 Item 3), Page 16	Minimum number of Base Station sites to be implemented is indicated in below table. SI will be responsible to plan adequate number of Base Stations equal / greater than the specified minimum numbers for any offered technology to fulfill the requirements specified in this tender.	<p>1) 3 watt hand portable radio in TETRA is available with only one manufacturer and RF design based on such a radio would bind the user with a single OEM for the rest of the life of the Radio System. 1.8 watt portable radios are available with multiple vendors and hence design of the TETRA network should be based on 1.8 watt so that Gujarat police in future has the flexibility of buying radios from multiple vendors at competitive rate. Hence we would request you to remove 3 watt hand portable radio from tender.</p> <p>2) The number of base stations specified for TETRA are inadequate to meet the coverage criteria stated in the tender. According to our coverage analysis a minimum of 24 sites for TETRA to fulfill the coverage requirement mentioned in tender to ensure there is a level playing field within the respective technologies. Hence, we request to amend the site requirements accordingly as per the these numbers</p>	No change.
47	Vol - II	4	Volume 2, Section 4, Clause 4.6.1 Item 3), Page 16	Minimum number of Base Station sites to be implemented is indicated in below table. SI will be responsible to plan adequate number of Base Stations equal / greater than the specified minimum numbers for any offered technology to fulfill the requirements specified in this tender.	Please provide the bifurcation of the number of Base stations required for Ahmedabad and Gandhinagar.	As per answer provided against Sr. No. - 46.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
48	Vol - II	4	Volume 2, Section 4, Clause 4.6.1 Item 7) b), Page 18	The solution proposed must provide higher reliability, better performance, higher security and easy scalability.	<p>The clause mentions the requirements in relative terms which are not quantifiable and create ambiguity. Please define the requirements in quantifiable terms. For security, Security/Encryption has various levels: FIPS 140-2 Level 3 being the highest.</p> <p>We request the same being mentioned along with other relevant specifications.</p>	No change.
49	Vol - II	4	Volume 2, Section 4, Clause 4.6.3 Item 1. 5), Page 20	Base Station Sites with Redundant Site Controller, transceivers, combiner, RF Cable, Antennae System and Accessories as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty. Quantity 10/12/15	<p>1) 3 watt hand portable radio in TETRA is available with only one manufacturer and RF design based on such a radio would bind the user with a single OEM for the rest of the life of the Radio System. 1.8 watt portable radios are available with multiple vendors and hence design of the TETRA network should be based on 1.8 watt so that Gujarat police in future has the flexibility of buying radios from multiple vendors at competitive rate. Hence we would request you to remove 3 watt hand portable radio from tender.</p> <p>2) The number of base stations specified for TETRA are inadequate to meet the coverage criteria stated in the tender. According to our coverage analysis a minimum of 24 sites for TETRA to fulfill the coverage requirement mentioned in tender to ensure there is a level playing field within the respective technologies. Hence, we request to amend the site requirements accordingly as per the these numbers</p>	As per answer provided against Sr. No. - 46.
50	Vol - II	4	Volume 2, Section 4, Clause 4.6.3 Item 1.	SMPS as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty	<p>This we understand is a Switched Mode Power Supply.</p> <p>Please explain what kind of software and license is required to be supplied with the SMPS.</p>	Revised Clause: SMPS as per scope of work with all the required hardware, software (if applicable) and 5 years on-site warranty

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
			20), Page 21			
51	Vol - II	4	Volume 2, Section 4, Clause 4.6.3 Item 1. 29, 30, 31, 32) Page 22	Quantity of Portables, Mobile, Fixed Station and ATEX/IECEX Radios.	Please provide the bifurcation of the number of each radio type required for Ahmedabad and Gandhinagar.	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
52	Vol - II	4	Volume 2, Section 4, Clause 4.7 Item 32), Page 27	<p>The proposed digital trunked radio network will consist of the following:</p> <ul style="list-style-type: none"> • Main and fully Redundant core switching system to be provided with card level redundancy – For ex. : redundant power cards, redundant control cards, redundant switching cards etc. with all other critical modules in redundancy. • Base Station sites with at least 16 channels (15 voice traffic channels + 1 control channel) in Ahmedabad city. • Base Station sites with at least 8 channels (7 voice traffic channels + 1 control channel) in Gandhinagar district. • If additional channels are required for AVLS or data application (as dedicated channels), they must be provided separately of the requested voice traffic channels. <p>Remotely configurable & plug & play modules for flexibility must be provided for all locations.</p> <ul style="list-style-type: none"> • Dispatcher Consoles • Hand-Held/ portable radios • Fixed/Static radios • Mobile Radios for vehicle configuration • Interfaces at Network infrastructure and subscriber radios to facilitate GPS based Tracking System for surveillance of team and vehicle. • Gateway for Integration of Legacy VHF & UHF systems with the DRTS at both geographical areas. • Special Hand free kit with helmet mounted earphones and wind fording microphone (with windscreen) & Portable radio charging kit to be connected with bike alternator battery for Police bikers as per quantity specified in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio sets in similar quantity (out of total quantity being purchased as per BOQ in this RFP) will need to be specially adapted for mounting on motorcycle platform for charging from the bike alternator battery. • All other BOQ line item as specified with 	<p>We understand that the redundancy for all critical modules in the centralised main switch shall be provisioned at the geographical redundant switch. Please confirm</p>	<p>No, refer Vol - 2, Section - 4.8, Sr. No. 30. So, bidder has to provide switch level redundancy (as per above clause) + geo redundancy with 2 switches (at Ahmedabad & Gandhinagar).</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
				<p>quantity details in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio charging kit should be housed in IP67 enclosure which is to be mounted on the Motorcycle. Portable radio should be able to connect to the Network while charging, so that Police Person can participate in a group call/individual call, send/receive messages, send geo coordinates etc. including all the functionalities, which radio offers when it is not being charged. Bidder has to plan Network coverage & capacity with regards to Hardware, Software and Services for the requirements mentioned in the RFP. (In addition to present clause - At least 32 channels (31 voice traffic channels + 1 control channel) in Base Station sites which will cover Rathyatra route in Ahmedabad city).</p>		

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
53	Vol - II	4	Volume 2, Section 4, Clause 4.7 Item 32), Page 27	<p>The proposed digital trunked radio network will consist of the following:</p> <ul style="list-style-type: none"> • Main and fully Redundant core switching system to be provided with card level redundancy – For ex. : redundant power cards, redundant control cards, redundant switching cards etc. with all other critical modules in redundancy. • Base Station sites with at least 16 channels (15 voice traffic channels + 1 control channel) in Ahmedabad city. • Base Station sites with at least 8 channels (7 voice traffic channels + 1 control channel) in Gandhinagar district. • If additional channels are required for AVLS or data application (as dedicated channels), they must be provided separately of the requested voice traffic channels. Remotely configurable & plug & play modules for flexibility must be provided for all locations. • Dispatcher Consoles • Hand-Held/ portable radios • Fixed/Static radios • Mobile Radios for vehicle configuration • Interfaces at Network infrastructure and subscriber radios to facilitate GPS based Tracking System for surveillance of team and vehicle. • Gateway for Integration of Legacy VHF & UHF systems with the DRTS at both geographical areas. • Special Hand free kit with helmet mounted earphones and wind fording microphone (with windscreen) & Portable radio charging kit to be connected with bike alternator battery for Police bikers as per quantity specified in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio sets in similar quantity (out of total quantity being purchased as per BOQ in this RFP) will need to be specially adapted for mounting on motorcycle platform for charging from the bike alternator battery. • All other BOQ line item as specified with 	<p>Due to high efficiency that Trunking brings in frequency use, a high number of talkgroups can be accommodated in the system. Hence, the number of required traffic channels may be limited to 8 per site in Ahmedabad City.</p> <p>Considering that the number of users in Gandhinagar are approximately a third of that of Ahmedabad, the number of traffic channels may be limited to 4.</p> <p>Please note that higher number of channels would require more number of frequency spots, which would incur higher recurring cost to Gujarat Police.</p> <p>Thus, each base station site at Ahmedabad may have 8 traffic channels + 1 control channel and in Gandhinagar 4 traffic channels + 1 control channel.</p>	No Change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
				<p>quantity details in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio charging kit should be housed in IP67 enclosure which is to be mounted on the Motorcycle. Portable radio should be able to connect to the Network while charging, so that Police Person can participate in a group call/individual call, send/receive messages, send geo coordinates etc. including all the functionalities, which radio offers when it is not being charged. Bidder has to plan Network coverage & capacity with regards to Hardware, Software and Services for the requirements mentioned in the RFP. (In addition to present clause - At least 32 channels (31 voice traffic channels + 1 control channel) in Base Station sites which will cover Rathyatra route in Ahmedabad city).</p>		

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
54	Vol - II	4	Volume 2, Section 4, Clause 4.7 Item 32), Page 27	<p>Special Hand free kit with helmet mounted earphones and wind fording microphone (with windscreen) & Portable radio charging kit to be connected with bike alternator battery for Police bikers as per quantity specified in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio sets in similar quantity (out of total quantity being purchased as per BOQ in this RFP) will need to be specially adapted for mounting on motorcycle platform for charging from the bike alternator battery.</p> <ul style="list-style-type: none"> • All other BOQ line item as specified with quantity details in BOQ in section – 4.6.3 of this volume of the RFP. <p>Portable radio charging kit should be housed in IP67 enclosure which is to be mounted on the Motorcycle. Portable radio should be able to connect to the Network while charging, so that Police Person can participate in a group call/individual call, send/receive messages, send geo coordinates etc. including all the functionalities, which radio offers when it is not being charged.</p>	<p>This seems to be a proprietary equipment available with select vendors only. This is not available with most vendors. Request you to either remove it or make it optional to allow more competition.</p>	<p>No change.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
55	Vol - II	4	Volume 2, Section 4, Clause 4.7 Item 39), Page 28	An Ethernet/IP based protocol shall be available in the infrastructure to enable interconnection of data from the radio terminals with external applications. This will provide Gujarat police with the maximum flexibility to integrate existing and future application with the network.	<p>The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Moreover, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided.</p> <p>We request the requirement of interconnection with other applications be removed. If still required, the Ethernet/IP interface shall be available at main switch level to connect any third party application which shall be limited by the interface type and data throughput available as per APCO P25 technology. Please confirm</p>	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
56	Vol - II	4	Volume 2, Section 4, Clause 4.7 Item 40), Page 28	<p>The Ethernet/IP based protocol of the proposed DTRS system shall be capable of providing below mentioned services along with integrating with third party applications, external databases, external recorders, control center solutions.</p> <ul style="list-style-type: none"> • To monitor radio terminals actions (call set ups, text messages, pre-defined messages, registering and un-registering processes) • Dynamic groups creation, deletion, radio assignments and radio de-assignments • Establishment of individual (half-duplex and/or duplex) and group calls • Establishment of phone calls using the PABX/PSTN connection of the system • Sending/receive SDS and Status messages – i.e. using the payload for databases queries – • AVL/APL tracking information • IP connectivity for the packet data service • In order to provide the easiest integration with other applications, voice format used for the connectivity shall be based on standard VoIP. 	<p>The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Moreover, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided.</p> <p>We request the requirement of interconnection with other applications be removed. If still required, the Ethernet/IP interface shall be available at main switch level to connect any third party application which shall be limited by the interface type and data throughput available as per APCO P25 technology standard. Please confirm</p>	As per answer provided against Sr. No. - 55.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
57	Vol - II	4	Volume 2, Section 4, Clause 4.8 Item 3), Page 29	<p>Each base station site shall have support for at least 16 channels (15 voice traffic channels + 1 control channel) in Ahmedabad city and 8 channels (7 voice traffic channels + 1 control channel) in Gandhinagar district area. If additional channels are required for AVLS or data application (as dedicated channels), they must be provided separately of the requested voice traffic channels. The bidder shall specify with technical documents the maximum number of channels the proposed system can support per site.</p>	<p>Due to high efficiency that Trunking brings in frequency use, a high number of talkgroups can be accommodated in the system. Hence, the number of required traffic channels may be limited to 8 per site in Ahmedabad City.</p> <p>Considering that the number of users in Gandhinagar are approximately a third of that of Ahmedabad, the number of traffic channels may be limited to 4.</p> <p>Please note that higher number of channels would require more number of frequency spots, which would incur higher recurring cost to Gujarat Police.</p> <p>Thus, each base station site at Ahmedabad may have 8 traffic channels + 1 control channel and in Gandhinagar 4 traffic channels + 1 control channel.</p>	As per answer provided against Sr. No. - 53.
58	Vol - II	4	Volume 2, Section 4, Clause 4.8 Item 9), Page 29	<p>The entire system shall be IP based such that future expansion of sites is possible. Other Manufacturer's Radio terminals of Digital Open Standard working on same technology as proposed by bidder should operate on the system with standard Trunking features. Bidder shall submit test report /certificate for the proposed subscriber radios and switch/controller in compliance to proposed technology requirement.</p>	<p>Inter System Interface (ISI) in TETRA and Inter Sub-System Interface (ISSI) in P25 are very important to ensure no dependency on any particular OEM.</p> <p>This is in line with requirement mentioned in clause 4.11 - 7 on page number 44 of Volume 2.</p> <p>We request you to include this amongst the Interoperability Requirements.</p> <p>Please confirm.</p>	IOP and ISI / ISSI are two different points. ISI & ISSI related functional requirement is already mentioned in Vol - 2, Section - 4.11, Sr. No. - 7. Bidder will have to comply to the same.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
59	Vol - II	4	Volume 2, Section 4, Clause 4.8 Item 31), page 31	Interfaces: The switch should provide gateways for > PABX/PSTN > IP Protocol to 3rd party applications > VHF & UHF existing Network integration	<p>The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Moreover, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided.</p> <p>We request the requirement of interconnection with other applications be removed. If still required, the Ethernet/IP interface shall be available at main switch level to connect any third party application which shall be limited by the interface type and data throughput available as per APCO P25 technology standard. Please confirm</p>	As per answer provided against Sr. No. - 55.
60	Vol - II	4	Volume 2, Section 4, Clause 4.10 Item q) i), page 40	System Level 3) Type 1 Handover in roaming or equivalent (roaming with automatic connection (i.e., automatic registration and authorization) for seamless roaming without re-establishment of call)	<p>The handover types are not described in the APCO P25 standard. Automatic Mobility Management is defined and available with all APCO P25 manufacturers such that a change of site attachment won't require any manual intervention from the user.</p> <p>This requirement in it's present form must be deleted to allow participation from APCO P25 vendors. we would like to request that the Type 1 handover requirement may be changed to "Automatic Mobility/Roaming management".</p>	<p>Revised clause (Vol – 2, Section – 4.10, q-3): Type 1 Handover in roaming or equivalent Roaming with automatic connection (i.e., automatic registration and authorization) for seamless roaming without call drop & re-establishment of ongoing voice call.</p> <p>Revised clause (Vol – 1, Section – 8.20.3, TQ_7.1): Type 1 Handover in roaming Seamless roaming without call drop & re-establishment of ongoing voice call.</p>
61	Vol - II	4.10	Volume 2, 4.10 q) i), page 41	Network Management 4) Call Set up time	This cannot be tested on the field. We would like to request this may be removed from the list of tests for acceptance of the network.	No change. This may be tested using NMS/dispatcher.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
62	Vol - II	4	Volume 2, Section 4, Clause 4.10 Item q) i), page 41	Application Based Features 2) Database Query	<p>The DTRS is primarily a Voice Centric secure communication network and the data throughput will not be enough to support Image Push and other database related applications.</p> <p>We would like to request that this be removed to allow focus on building a robust Radio Trunking Network.</p> <p>This feature can be accomplished through the new Integrated CAD system</p>	No Change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
63	Vol - II	4	Volume 2, Section 4, Clause 4.6.1 Item i), page 15 & Volume 2, Section 4, Clause 4.10 Item r) ii), page 43	<p>i. Key in vehicle number from field radio/portable and send it to DTRS switch using SDS facility. DTRS switch will push the number to server maintaining vehicle database as a query using IP/Ethernet port connectivity and vehicle status will be conveyed by that server as a response in few words. Same will be sent back to portable radio through DTRS Network.</p> <p>ii. Similar way, driving license number query can be executed from database.</p> <p>iii. If Police field team finds out someone with weapon, his/her name search can be done in weapon license database.</p> <p>iv. Stolen vehicle number entered through portable/static radio can be pushed to ANPR/VMS (Video Management Server) of SASGUJ Project, so that ANPR system can issue an alert on screen of Command & Control Centre whenever that vehicle is detected at some traffic junction.</p> <p>v. Video recording (for ex. avi files) of any nearby CCTV camera (installed during various Projects like SASGUJ, Smart city etc.) may be reviewed in the CDRS system workstation for any incident.</p> <p>vi. Existing vendors of Govt. of Gujarat and DTRS vendor will have to work jointly for API level integration.</p> <p>vii. To avoid any billing dispute, DTRS CAD will have to provide proof that query was successfully sent to Gujarat Government server on so & so date & time and response has not received.</p>	<p>The Digital Trunked Radio System is primarily a standalone secure voice communication network with limited data capabilities. Interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided. Moreover, the requirement stated is very generic and not available in detail to consider any such interface solution.</p> <p>We would like to request the requirement of interconnection with other applications be removed.</p>	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
64	Vol - II	4	Volume 2, Section 4, Clause 4.11 Item 54), page 49	Handhelds shall have the capability to run short data applications allowing users to access back office database applications or receive customized job dispatch messages. Such applications should use control channel /data channel in order not to load traffic channels for speech calls. To avoid load on traffic channel, data applications and AVLS should either work on control channel or dedicated data channel. Bidder should specify clearly their response how the application will work in their offered system.	<p>The Digital Trunked Radio System will primarily be a standalone secure voice communication network with limited data capabilities. Interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided.</p> <p>We request the requirement of interconnection with other applications be removed.</p>	No Change.
65	Vol - II	4	Volume 2, Section 4, Clause 4.11 Item 74), page 50	The proposed radio system shall support seamless roaming across all the sites of both the geographies such that all call types are maintained and handed over from site to site without re-establishment of call. i.e. Type 1 Handover in roaming or equivalent (roaming with automatic connection (i.e., automatic registration and authorization) for seamless roaming without re-establishment of call)	<p>The handover types are not described in the APCO P25 standard. Automatic Mobility Management is defined and available with all APCO P25 manufacturers such that a change of site attachment won't require any manual intervention from the user.</p> <p>This requirement in it's present form must be deleted to allow participation from APCO P25 vendors. we would like to request that the Type 1 handover requirement may be changed to "Automatic Mobility/Roaming management".</p>	As per answer provided against Sr. No. - 60.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
66	Vol - II	4	Volume 2, Section 4, Clause 4.11 Item 99), page 55	The system shall provide the OTAP (Over The Air Programming) facility. The dispatcher shall be authorized to define the services, priorities and call rights and update the firmware versions into the system over the air, so that when changes are needed, then there is no need of bringing radio terminals to central location for re-programming.	OTAP - it is vendor specific which won't allow a level playing field for all the reputed TETRA OEM. It is possible to do a dynamic regrouping over the air. Hence request you to amend the requirement accordingly. Please Confirm.	OTAP (Over The Air Programming) facility must provide functionality like defining services, priorities, call rights, dynamic regrouping etc. In no circumstances, selected bidder will be allowed to bring radios to central location for the task of re-programming / firmware upgrade (because this will hamper field operation). If need arises for this due to any reason, selected bidder will have to provide necessary technical support on field itself.
67	Vol - II	4	Volume 2, Section 4, Clause 4.12.1 Item 1.8), page 55	Transmission: Two Ethernet ports with inbuilt multiplexer for either loop protection or redundancy. Minimum bandwidth required shall be stated in the bidder response. Native Ethernet/IP connectivity is preferred.	Since each OEM uses a different Switching and Routing design, we request you to leave it to bidder's discretion to propose a redundant system. Please remove this requirement of internal multiplexer.	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
68	Vol - II	4	Volume 2, Section 4, Clause 4.12.1) Item c) 9), page 57	The hand-portable unit shall not weigh more than 300 grams with battery. Minimum backup required is 12 Hrs for duty cycle 90/5/5. (Standby/transmitting/receiving) – 3rd party certification needs to be provided from Internationally accredited laboratory for battery capacity.)	<p>a)The standard procedure to weigh the radio is exclusive of batteries as different vendors have different weight for the high capacity batteries. In addition, the mission critical radio devices are built to withstand tough drops, shocks and vibration. Moreover, in APCO P25, the radios are equipped with high RF power which requires heavier Internal circuitry/heat sink, which would require the radio to be heavier. Hence we request that the weight of the radio without battery is minimum 290gms.</p> <p>b)Similarly, the standard duty cycle for measurement is 90/5/5. Hence we request you to amend the duty cycle to 90/5/5 ((Standby/ transmitting/receiving)</p> <p>c) Only third party certification is not sufficient since it may not certified from International accredited lab. Hence we request to change " 3rd party certification needs to be provided for battery capacity" to "certification from OEM/third party Internationally accredited lab."</p>	<p>Revised clause of Vol - 2: The hand-portable unit shall not weigh more than 350 grams with battery. Minimum backup required is 12 Hrs for duty cycle 90/5/5. (Standby/transmitting/receiving) – 3rd party certification needs to be provided from Internationally accredited laboratory for battery capacity.)</p> <p>Revised clause of Vol - 1: Handheld radio weight <= 350 grams (with battery) Marks <= 350 & >= 300 1 < 300 grams 2</p>
69	Vol - II	Annexure - VI	Volume 2, Annexure VI, Page 93	Annexure VI - Indicative Hardware Specifications	The IT equipment including servers & client PCs are carefully selected with adequate specifications & optimized by each OEM to suit the system requirements. As such, we request that it should be left to the OEMs to offer their standard equipment instead of untested configurations that may cause problems & delays during the rollout.	Yes, that's why it is mentioned that these are indicative specifications.
70	Vol - II	Annexure - II	Volume 2, Annexure II 7.1), Page 86-87	S No. 30-39 No space for lattice tower	Please confirm if we can use Monopoles in these locations or should these locations not be used owing to lack of space for installing lattice or monopole towers?	Yes, Monopole can be planned at this location considering space constraints. Bidder will have to carry out the required survey to check the feasibility w.r.t space, wind conditions, soil testing etc to ensure the safety.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
71	Vol - II	Annexure - I	Volume 2, Annexure I Item 6.1 & 6.2, Page 58	Locations of Ahmedabad City and Locations of Gandhinagar District	Please confirm if the bidders are free to choose any of these sites for installing repeaters in case the sites listed in Annexure II aren't adequate to provide RF coverage.	Already answered in revised RFP.
72	Vol - II	4.12 (g)	Vol 2, Clause 4.12, Section g), Page 53	4.12. Technical Specifications of Radios and Equipment g) Mobile Data Terminal 2) The terminal shall have AVL sub system for vehicle monitoring and telematics.	a) Please confirm what is the requirement of vehicle monitoring ? Does the MDT need to have CAN / OBD interface? c) We understand that this Mobile data terminal shall operate on Cellular network and not on DTRS system as there is no such MDT available to be used on DTRS. Please confirm	Already answered in revised RFP.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
73	Vol - II	4	Volume 2, Section 4, Clause 4.4 Item 1), Page 12	<p>The successful bidder will be responsible for system performance including a guarantee of radio coverage, installation of base station sites and IP based Communication, district/area wise central Dispatch equipment/consoles, leased line/MPLS connectivity, optimization of the radio infrastructure, integration of proposed Network system with existing CAD application / any new CAD application purchased in future by Gujarat Police, training system users and maintenance personnel, and achieving satisfactory system performance.</p> <p>Additional details on existing CAD: Interconnection possibilities (an example): All dial 100 calls for Ahmedabad city are presently landing at Shahibaug centre and integration will be required between existing CAD and new dispatch application to route the incident forms between them (This is software level integration. Along with this, hardware level integration will also be required to connect existing conventional radios with DTRS Network radios).</p>	<p>The integration of proposed CAD system in this requirement with existing CAD application/ any new CAD application purchased in future by Gujarat police is a very vague and cannot be accomplished requirement. Integration is very loose word and we would request you to share the detailed information about the existing system/ upcoming CAD System to check the feasibility whether it is possible to integrate with proposed CAD system in this requirement or not.</p> <p>Without the information as required above being provided, the integration requirement with existing CAD system be removed from scope of work.</p>	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
74	Vol - II	4	Volume 2, Section 4, Clause 4.6.3, BOM), Page 20	<p>Integrated CAD Consoles at Central Control Room with call taking and dispatching facilities as per scope of work with all the required hardware, software, applicable licenses and 5 years onsite warranty</p> <p>30 new Integrated CAD consoles are required. It is also required to integrate the proposed DTRS Network & system / applications with existing CAD application.</p> <p>(Integrated CAD (ICAD) should provide one click solution after applying time and speed analytics on field reporting details to produce probable radius of target's movement.)</p>	<p>For this new requirement, please share the technical specification and functional requirement for Computer Aided Dispatch (CAD) Software (Call Taker, Dispatcher, Supervisor, Remote Supervisor, Social Operator), Geographical Information System (GIS) Software, IP EPABX Systems, Call 100 Mobile & SOS App, etc.</p> <p>For the new CAD requirement, please provide the bifurcation of the number of operators in Ahmedabad and Gandhinagar, out of 30, or will these 30 new CAD positions be co-located?</p> <p>For the new CAD requirement, please clarify on below points</p> <p>a) Call volume in one quarter - This data is required for application and database sizing?</p> <p>b) Number of call taker/ Dispatcher/ Supervisor in each shift?</p> <p>c) Is IPPBX system and CAD system required in active-active or active-passive mode?</p> <p>d) Is any Mobile app required like SOS app, senior official app, patrol management app ?</p> <p>e) Is any integration is required from SMS, Email, Social Media, Location base service or existing GIS service?</p> <p>f) Is any integration is required from other emergency services like Fire, Ambulance Service etc. ?</p> <p>g) Storage of data required from how many days?</p>	<p>Integrated CAD is removed from the scope of this RFP. Vol - 2, Section - 4.6.3 (BoQ), Sr. No. - 7 stands removed.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response						
75	Vol - I	8	Vol 1, Section 8, Clause 8.20.3, Page 26-29 TQ_2.1	<p>Technical Evaluation Criteria DTRS Switch – Redundancy: Time for the full functionality of the DTRS to re-establish after a failure in the main switch and the takeover of the redundant one (users must be able to set up calls after that time after the failure). OEM data sheet / OEM Certification shall be used to validate the same.</p>	<p>The requirement of switchover of <=20 Seconds from main switch to the redundant switch in very less. This may not be practically possible. Hence we request to change as following</p> <table> <tr> <td>Failover time by redundant switch</td> <td>Marks</td> </tr> <tr> <td><=40 Seconds</td> <td>5</td> </tr> <tr> <td><=60Second and >40 Seconds</td> <td>3</td> </tr> </table>	Failover time by redundant switch	Marks	<=40 Seconds	5	<=60Second and >40 Seconds	3	No Change.
Failover time by redundant switch	Marks											
<=40 Seconds	5											
<=60Second and >40 Seconds	3											
76	Vol - I	8	TQ_2.1	Features in Fallback mode : All type of Data Services as available in normal operation	Data services in fall back mode is not critical. During fall back mode, voice services are critical and data is not provided by most manufacturers. Hence data services in Fallback Mode to be removed.	No Change.						
77	Vol - I	8	TQ_2.1	Base Station Controller Capability: Ability for a base station controller to keep several base stations of a region or city interconnected if link is lost with switch	This feature is applicable for GSM network. It is not applicable to APCO/TETRA DTRS. Hence, this Base Station Controller Capability feature to be removed.	Already answered in revised RFP.						

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response						
78	Vol - I	8	TQ_2.1	Handheld radio weight	<p>the mission critical radio devices are built to withstand tough drops, shocks and vibration. Moreover, in APCO P25, the radios are equipped with high RF power which required heavier Internal circuitry/heat sink, which would require the radio to be heavier than 275 gms. Hence we request that the weight of the radio without battery is minimum 290gms.</p> <p>This is a non critical requirement and the department must replace this with more security/redundancy related features.</p> <p>Handheld radio weight requirement to be changed as below:</p> <table> <tr> <td>Handheld radio weight less than 290 grams</td> <td>Marks</td> </tr> <tr> <td>Available</td> <td>2</td> </tr> <tr> <td>Not available</td> <td>0</td> </tr> </table>	Handheld radio weight less than 290 grams	Marks	Available	2	Not available	0	As per answer provided against Sr. No. - 68.
Handheld radio weight less than 290 grams	Marks											
Available	2											
Not available	0											
79	Vol - I	8	TQ_2.1	Battery capacity of Handheld radio for 85/5/10 cycle	<p>The standard duty cycle for measurement is 90/5/5. Hence we request you to amend the duty cycle to 90/5/5 ((Standby/ transmitting/receiving). Also 3rd party certification as asked in this clause is not available. Certificate can be provided by OEM.</p> <p>A normal shift of operation may range from 8-10 hours. Hence the clause may be changed as below: The clause to be changed as below:</p> <p>Battery capacity of Handheld radio for 90/5/5 cycle</p> <table> <tr> <td>Marks</td> </tr> <tr> <td>> 11 Hrs backup</td> </tr> <tr> <td>5</td> </tr> <tr> <td>> 8 Hrs & <= 11 Hrs backup</td> </tr> <tr> <td>3</td> </tr> </table>	Marks	> 11 Hrs backup	5	> 8 Hrs & <= 11 Hrs backup	3	<p>Duty cycle of 90/5/5 (Standby/ transmitting/receiving) is already considered.</p> <p>Revised clause (Vol - 1, Section - 8.20.3, TQ_2.1): Battery capacity of Handheld radio for 90/5/5 cycle (Standby / transmitting / receiving - - 3rd party certification needs to be provided for battery capacity)</p>	
Marks												
> 11 Hrs backup												
5												
> 8 Hrs & <= 11 Hrs backup												
3												

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
80	Vol - I	8	TQ_2.1	Support for mutual authentication	Mutual Authentication is not available/supported amongst subscribers from different APCO P25 manufacturers and would lead to a proprietary solution. This should be removed for participation of APCO P25 manufacturers in the tender.	No change.
81	Vol - I	8	TQ_5.1	Concurrent SDS/ Status Messages possible to be received during Speech call	APCO P25 gives priority to Critical Voice Calls over Data, and as such the data transmission is parked, momentarily, while Voice is being transmitted. However, the Messages are transferred in almost real time. We request you to remove this requirement for a level playing field to both technologies.	No Change.
82	Vol - I	8	TQ_7.1	Type 1 Handover	APCO P25 standard does not define Type of handovers, but only "Automatic Mobility Management", which allows the user to roam around freely, with the radio changing sites as per RF coverage, without any user action. We request you to remove this requirement to allow both technologies to be offered.	As per answer provided against Sr. No. - 60.
83	Vol - I	8	TQ_8.1	Database Query	The DTRS is primarily a Voice Centric secure communication network and the data throughput will not be enough to support Image Push and other database related applications. We would like to request that this be removed to allow focus on building a robust Radio Trunking Network.	As per answer provided against Sr. No. - 62.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
84	Vol - I	8	TQ_9.1	Single-unit Handheld Radio with battery and Spare battery charger	<p>This is not a critical feature for radio operation. The department is already purchasing adequate numbers of single unit and multi unit chargers.</p> <p>We request you to remove this evaluation clause to allow for assessment on more stringent parameters, that affect the performance of the Radio System.</p> <p>Please Confirm.</p>	No change. Please refer RFP Vol. 2/ Section 4.11/ Sr. No. 106
85	Vol - I	8	TQ_9.2	DMO Repeater	<p>DMO Repeater functionality is not defined in APCO, where the Radios are high powered, to have considerable Talk Around range, as compared to low transmitter powers in TETRA Radios.</p> <p>As this feature is limited to TETRA, we request you to remove this, and replace it with a clause where APCO manufacturers can also earn points.</p> <p>Please confirm.</p>	No change. Please refer RFP Vol. 2/ Section 4.12/ Sub Section 3/ C/ Sr. No. 22
86	Vol - I	8	Clause 6.20.3 Technical evaluation Criteria	Additional Points	<p>The following technical evaluation criteria points should also be considered as these are more applicable for a robust DTRS network</p> <ul style="list-style-type: none"> - Presence of OEM in India - Presence of DTRS related experienced technical team in India - Experience of setting DTRS system in India 	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
87	Vol - I		Vol 1, Section 7, Clause No. A) Item 5, Page 12	<p>Prime Bidder should have a minimum average annual turnover of INR 200 Cr in last three financial years i.e. FY 2018-19, FY2017-18 & FY 2016-17.</p> <p>Note: Turnover considered would be a consolidated turnover of the company i.e. A parent Company can use the turnover of its subsidiaries (50% and above holding) but a child company cannot use parent company's turnover.</p>	<p>a) The turnover requirement in the tender is very high. The present tender project size is much smaller than turn over requirement in the tender. This high turn over requirement will restrict the bids to very few companies who may not be related to radio business. Hence we would like to request that the turnover requirement be changed to INR 75 Crores in the last three financial years i.e. FY 2018-19, FY 2017-18 & FY 2016-17. Please confirm</p> <p>b) We would like to request that if the Prime Bidder company is a 100% wholly owned subsidiary of the parent company then the prime bidder shall be allowed to use the parent company's financial credentials to fulfill the annual turnover requirement prescribed in the tender. Please confirm.</p>	As per answer provided against Sr. No. - 13.
88	Vol - I		Vol 1, Section 9, Clause No. 9.1, Item 5, Page 40	<p>Total liquidated damages to be levied on the SI shall be capped at 15% of the total contract value.</p> <p>However, Gujarat Police would have right to invoke termination of the contract in case the overall liquidated damages equals 15% of total contract value.</p>	<p>This clause is contradictory to Section No. 9.2 (Implementation Stage SLA) Clause No. 3 on Page No. 41 where total liquidated damages are capped at 10% of the total contract value. Please confirm that the total liquidated damaged shall be capped at 10% of the total contract value.</p>	As per answer provided against Sr. No. - 14.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
89	Vol - I		Vol 1, Section 8, Clause No. 8.17, Page 24	Prices quoted must be firm and final and shall not be subject to any upward modifications, on any account whatsoever. Prices shall be expressed in Indian Rupees (INR) only.	<p>GST law in India is undergoing various changes. In light of the above, we request that Contract value to be exclusive of Goods & Services Taxes & associated cess/levies. Any increase or decrease or new introduction of in taxes or duties or cess or levies be on account on Purchaser. The bidder shall not be getting any advantage from taxes. Hence, we would like to request to consider below updated clause against this requirement: "Price shall be expressed in Indian Rupees (INR) only and shall be exclusive of Goods and Services Taxes, Duties, Taxes & Levies. Any increase or decrease or new introduction of taxes or duties or cess or levies after date of submission shall increase or decrease the contract price accordingly."</p> <p>Since this is a 5 year INR contract with price validity for variations, request consideration of a FX clause - " Any forex fluctuation beyond 3% from USD to INR foreign exchange rate prevailing on the date of bid submission shall subsequently increase or decrease the contract price accordingly"</p>	As per answer provided against Sr. No. - 15.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
90	Vol - I		Vol 1, Section 8, Clause No. 8.24, Point - 1, Page 38	The successful bidder shall at his own expense, deposit with department, within 15 calendar days of the notification of award (done through issuance of the Work Order/Purchase Order/Letter of Intent), an unconditional and irrevocable Performance Bank Guarantee (PBG) from a list of approved banks as per the format given in this Bid Document, in favor of Gujarat State Police, Home Department, Govt. Of Gujarat, for the due performance and fulfillment of the contract by the bidder.	The requirement to submit PBG within 15 calendar days of the notification of award is very stringent. It actually implies only 10 banking days. We would like to request that successful bidder be provided 45 calendar days from date of award of contract to submit PBG. Please confirm.	As per answer provided against Sr. No. - 16.
91	Vol - I		Vol 1, Section No. 10, Clause No. 10.2.1, Page 45	10.2.1. Milestones and Payment Schedules for Implementation Phase	As per current tender conditions, the Milestones and Payment Schedules for implementation phase are stated for implementation of "Complete Network" comprising of both districts Ahmedabad and Gandhinagar combined. However, the processing of licensing will happen separately for both districts which could result in implementation of networks in both districts at separate times. Hence, we would like to request that the Milestone and Payment Schedule for Implementation phase be stated separately for the two districts i.e. Ahmedabad and Gandhinagar on individual basis. Billing and Payment Terms have to be section/phase wise. Note (iv) - Invoice to be raised out of Gujarat - Not Acceptable.	As per answer provided against Sr. No. - 2.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
92	Vol - I		Vol 1, Section No. 10, Clause No. 10.2.1, Page 45 & 46	<p>Mo: Equipment delivery at site accepted by Gujarat Police - 40% of overall capex value</p> <p>M1.1: Installation, Commissioning, Successful FAT of entire Network and Go live of complete Network - 40% of overall capex value</p> <p>M1.2: Three months of successful Operation and Maintenance after Successful FAT of entire Network - 10% of overall capex value</p> <p>M2.1: Twelve months of successful Operation and Maintenance after Successful FAT of entire Network - 10% of overall capex value</p>	<p>The current payment terms stated in the tender are very stringent and shall create an undue hardship for the vendor with no payment linked to Supply and very small mobilisation advance offered. We would like to request to revise this payment term as below:</p> <p>Mo: Mobilization Advance - 2% of overall capex value</p> <p>M1.1: Supply of Equipment - 70% of overall capex value</p> <p>M1.2: Installation, Commissioning, successful FAT and Go live - 28% of overall capex value</p>	As per answer provided against Sr. No. - 2.
93	Vol - I		Vol 1, Section No. 11, Clause No. 11.4, Page 52	<p>11.4. PQ_2: Format for Bank Guarantee for Bid Security (Earnest Money Deposit)</p> <p>PERFORMANCE BANK GUARANTEE</p>	<p>Format in 11.4 is related to Earnest Money Deposit so please change the verbiage of PERFORMANCE BANK GUARANTEE to EARNEST MONEY DEPOSIT in the Bank Guarantee format.</p> <p>The guarantee will enforceable only upto the validity of the PBG.</p> <p>" The Bank undertakes not to revoke this guarantee during it's currency without previous consent of the Gujarat Informatics Limited and further agrees that the guarantee herein contained shall continue to be enforceable through the validity of the Performance Bank Guarantee"</p>	As per answer provided against Sr. No. - 19.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
94	Vol - I		Vol 1, Section No. 11, Clause No. 11.4, Page 53	<p>11.4. PQ_2: Format for Bank Guarantee for Bid Security (Earnest Money Deposit) PERFORMANCE BANK GUARANTEE</p> <p>Note: Bank guarantee should be from any nationalized bank including the public sector bank / private sector bank / commercial bank / cooperative bank and rural bank (operating in India having branch at Ahmedabad / Gandhinagar) as per the GR no.: EMD/10/2018/18/DMO dated 16-04-2018 (http://www.gil.gujarat.gov.in/grs/DMO_2173_16_Apr_2018_714.pdf) issued by Finance Department or further instruction issued by Finance Department time to time.</p>	<p><u>We request verbiage to be updated as below;</u></p> <p>Note: Bank guarantee should be from any nationalized bank including the public sector bank / private sector bank / commercial bank / cooperative bank and rural bank (operating in India having branch at Ahmedabad / Gandhinagar) as per the GR no.: EMD/10/2018/18/DMO dated 16-04-2018 (http://www.gil.gujarat.gov.in/grs/DMO_2173_16_Apr_2018_714.pdf) issued by Finance Department or further instruction issued by Finance Department time to time.</p>	As per answer provided against Sr. No. - 20.
95	Vol - I		Vol 1, Section 7, Clause No. B) Item 9, Page 13	<p>The OEM should have supplied & commissioned at least 3 state wide / district wide projects anywhere in world with 75 BTS each for the technology (APCO P25 Digital Trunking*/TETRA). The project should have gone live and working satisfactorily for at least 1 year from the date of publishing of RFP.</p> <p>Note: * This is only for eligibility criteria.</p>	<p>This requirement should be restricted to ONE project anywhere in the world with 75 BTS. It is not possible to arrange 03 project references of such large size. Also in any other DTRS tender in the country, ONE project reference is asked for pre-qualification. Hence it is requested to change this to ONE project.</p>	As per answer provided against Sr. No. - 1.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
96	Vol - I		Vol 1, Section 7, Clause No. B) Item 9, Page 13	<p>The OEM should have supplied & commissioned at least 3 state wide / district wide projects anywhere in world with 75 BTS each for the technology (APCO P25 Digital Trunking*/TETRA). The project should have gone live and working satisfactorily for at least 1 year from the date of publishing of RFP. Note: * This is only for eligibility criteria.</p> <p>Documents - Work order and project commissioning / acceptance certificate from end customer.</p>	<p>Work order copies are typically governed by NDA (Non Disclosure Agreement) signed with government customers. Hence, we would like to request that Certificate issued by End Customer with the required details be also accepted against this criteria. Please confirm</p>	<p>As per answer provided against Sr. No. - 22.</p>
97	Vol - I		Vol 1, Section 3, Notice Inviting Bids, Page 6	<p>Last date of bid submission - 10/12/2019</p>	<p>Given the complexity of designing such large digital radio trunking system including field survey and planning for sites and backbone connectivity, we would like to request that the bid submission timelines be considered to be at least 6 weeks from date of issue of clarification response.</p>	<p>As per answer provided against Sr. No. - 4.</p>
98	Vol - I		Vol 1, Section 9, Clause 9.2 Item 3, Page 41	<p>If the liquidated damage reaches 10% of the total contract value, Authority may invoke termination clause.</p>	<p>Cross reference to Vol 1, section 9, clause 9.1 item 5, page 40: Total liquidated damages to be levied on the SI shall be capped at 15% of the total contract value.</p> <p>To avoid any ambiguity and as a standard practice this clause for LD capped at 10% should be considered. Please confirm</p>	<p>As per answer provided against Sr. No. - 14.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
99	Vol - I		Vol 1, Section 9, Clause 9.3, Page 41	Penalty of INR xxK per day for non-availability at Project site.	<p>a) We understand that Project manager is required to be present on site for the entire implementation phase. However, the remaining team members will be required on need basis of the project. Keeping the entire team onsite for the entire project implementation phase will have high cost impact and also not required or practical. Request to amend the clause accordingly.</p> <p>b) We assume that project duration considered here is of maximum 10 months including WPC process(Page No. 83, Vol 1,Clause 14.2, Item 6), for which the project team has been placed.</p>	As per answer provided against Sr. No. - 25.
100	Vol - I		Vol 1, Section 9, Clause 9.4 Item 1,2,3 & 6, Page 42, 43 & 44	<p>Penalty of x% of total O&M charge to be paid per month</p> <p>Penalty of INR 5000/- per day per radio device shall be applicable for every consecutive day.</p> <p>SLA for Call Failure in a month</p>	<p>SLA penalty looks very stringent. Penalty to be at 0.01% of O&M charge.</p> <p>We would request that overall SLA penalty will be capped to 10 % of O&M charges.</p> <p>Do the penalty apply to redundant equipment which is not causing any loss in communication or features? Would the penalty should be against that device only?</p> <p>Kindly Clarify.</p>	As per answer provided against Sr. No. - 26.
101	Vol - I		Vol 1, Section 9, Clause 9.4 Item 4 & 5, Page 43	Backbone Connectivity Network Availability for a month	Backbone network availability has to be provided by service provider. The DTRS bidder will not be involved in the SLA of backbone connectivity network as the service provider will be contracting with Gujarat Police directly. Hence this clause should be deleted.	As per answer provided against Sr. No. - 27.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
102	Vol - I		Vol 1, Section 14.2, Clause 14 item 13, Page 86	<p>Maintain standard forms of comprehensive insurance including liability insurance, system & facility insurance & any other insurance for the Assets, data, software, etc in the joint names of GSP-HD & the System Integrator, where SI shall be designated as the 'loss payee' in such insurance policies; SI shall be liable to pay premium for the insurance policy & shall ensure that each & every policy shall keep updated from time to time. Insurance will be for the period till 100% Go-live of the Network after FAT (Final Acceptance Testing).</p>	<p>We understand this will include EAR - Erection All Risks covering property loss/damage and third party liability. This insurance will be for the project implementation period. Please confirm</p>	<p>As per answer provided against Sr. No. - 28.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
103	Vol - II		Vol 2 , Section 4 ,Clause 4.9 Item 4) ,Page 32	<p>a) All electrical & electronics equipment installed at central switching centers, BTS sites etc. are to be earthen by implementing 2 separate earth grids for electrical & electronics components. Each earth grid will have minimum 2 earth pits having arrangement of plate earthing. All metallic objects on the premises that are likely to be energized by electric currents should be effectively grounded. There should be enough space between data and power cabling and there should not be any cross wiring of the two to avoid any interference or corruption of data. Bidder will have to make all required arrangements of earthing including (but not limited to) preparing earthing pits, laying earthing strips from earthing pits to equipment room, laying earthing cables from various equipment to earthing strips in an equipment room etc. Proper earthing will be a responsibility of a bidder, any fault/issue in an electronics due to poor earthing will be bidder's responsibility & bidder will have to bear cost of rectification/replacement of faulty equipment.</p>	<p>We understand that Gujarat Police will provide earthing point in every equipment room whereby SI vendor can connect the grounding cables from system equipment to those termination points. Please confirm.</p>	<p>As per answer provided against Sr. No. - 29.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
104	Vol - II		Vol 2 , Section 4 , Clause 4.14, Page 66	<p>1. The Bidder shall provide employee training for all Call Takers and Administrative Staff. Training shall be detailed in the proposal. Details shall include a full training curriculum and the level of proficiency expected for each training module or class. Bidder is expected to provide following:</p> <p>2. Operational training of Hand held devices to all users & refresher training once in year for project duration. Also set of police staff say 300 to 500, are to be trained as trainers who would, in turn, impart Operational training of Hand held devices to their colleagues as & when required.</p>	<p>a). The Training requirement stated for operational training(For Subscriber usage) is very large. Gujarat police can identify a group of users who can be trained and based on philosophy of 'train the trainer', bidder can train these set of users who can further train Gujarat police personnel as required. Based on same, we would like to propose local training for 20 to 50 people in each Commissionerate at customer location. Please confirm if the same is acceptable.</p> <p>Please define project duration. In case project duration includes warranty period then per year training will significantly increase the cost. Moreover, once the initial training is conducted, there is no further training required. Please comment if per year training still needs to be considered.</p>	As per answer provided against Sr. No. - 30.
105	Vol - II		Vol 2 ,Section 5, Clause 5.1, Page 67	<p>1. A Project Management office will be set up during the start of the project. The PMO will, at the minimum, include a designated full time Project Manager from SI. It will also include key persons from other relevant stakeholders including members of Gujarat Police and other officials / representatives by invitation. The operational aspects of the PMO need to be handled by the SI including maintaining weekly statuses, minutes of the meetings, weekly / monthly project plans, etc.</p>	<p>We assume that suitable location at police premises will be provided to set up Project Management office(PMO). Please confirm.</p>	As per answer provided against Sr. No. - 31.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
106	Vol - II		Vol 2, Section 5, Clause 5.4 Item 1), Page 68	The table below provides the minimum qualification of a Project team for entire Project implementation phase. The below team should be placed onsite for entire Project implementation phase.	<p>Project manager is required to be present on site for the entire implementation phase. However the remaining team members will be required on need basis of the project. Keeping the entire team onsite for the entire project implementation phase will have high cost impact and also not required or practical. Request to amend the clause accordingly.</p> <p>We assume that project duration considered here is of maximum 10 months including WPC process(Page No. 83, Vol 1,Clause 14.2, Item 6), for which the project team has been placed.</p>	As per answer provided against Sr. No. - 25.
107	Vol - II		Vol 2 , Section 5 , Clause 5.5, Page 69	1. SI will have to provide below mentioned minimum manpower during entire Operation and Maintenance period. SI will be free to deploy more manpower to adhere to the SLAs mentioned in Vol – 1 of this RFP. Bidder shall not engage any O&M team members / labors having criminal records, unsound mind and poor health.	Site maintenance manager is required to be present on site for the entire warranty period. However the remaining team members will be required on need basis. Keeping the entire team onsite for the entire O&M period will have high cost impact and also not required or practical. Request to amend the clause accordingly.	As per answer provided against Sr. No. - 33.
108	Vol - I		Vol 1, Section 7, Clause 15, Pg No.- 14	"In case of consortium, not more than three parties are permitted....."	This clause provides that more than three parties are not permitted to form a consortium, whereas Vol 1, Section 8.21.1 provides that OEM must be present as one of the consortium partner in every BID. In the event the Radio System comprises of more than 3 OEMs in total, please clarify if all OEMs will need to be a part of the consortium and Vol 1, Section 8.21.1 will be amended accordingly ?	As per answer provided against Sr. No. - 34.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
109	Vol - I		Vol 1, Section 14.2, Clause 26.4, Pg No.- 92	"To the extent that the System Integrator's Proprietary Information is incorporated within the Deliverables, System Integrator and its employees engaged hereby grant to GSP-HD a worldwide, perpetual, irrevocable, non-exclusive, transferable, paid-up right and license to use, copy, modify (or have modified), use and copy derivative works for the benefit of and internal use of GSP-HD."	The definition of "Propriety Information" is not provided. Please provide the definition. Motorola's position with respect to IPR transfers is as follows - "No transfer of any pre-existing intellectual property ("Background IP") incorporated with the Deliverables is intended by way of this Agreement. GSP-HD shall have a conditional, revocable and non-exclusive license to use and sub-license any software that is part of Deliverables under this Agreement. System Integrator shall retain all the intellectual property rights in the inventions relating to the Deliverables under this Agreement ("Foreground IP") unless all those inventions are 100% funded by GSP-HD and a clear distinction can be drawn between Background IP and Foreground IP. "	No change.
110	Vol - I		Vol 1, Section - 13.2.3 (2), Pg No.- 74	O&M Period will start with successful completion of Final Acceptance Testing of entire network	O&M period for each phase or section to start from earlier of Final Acceptance Test or Revenue Operation Date or System's Beneficial Use whichever is earlier.	As per answer provided against Sr. No. - 36.
111	Vol - I		Vol 1, Annexure B, 14(3),(13), (16), Pg No.- 80	Ownership & Insurance	Ownership and Risk & Rewards of the Supplies to be transferred to the Purchaser as per INCO Terms.	As per answer provided against Sr. No. - 37.
112	Vol - I		Vol 1 - Section - 29 (b), Pg No.- 94	Termination for Convenience	In case of Termination for Convenience - All payment for work done till date of termination has to be paid by Purchaser to Bidder.	As per answer provided against Sr. No. - 38.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
113	Vol - I		Vol 1, Clause 14, Item 3, Page 86	Assets would be owned by the GSP-HD after Go-live of the Project, however, the System Integrator would be custodian of the same during the entire contract period and would take care of all wear-tear, insurance, theft etc. during the entire contract period so that the SLAs are not affected.	<p>Sub contractor will handover the equipment delivered for project to Gujarat Police after delivery/Inventory check at Gujarat Police warehouse. Post inventory check "custodian of the same during the entire contract period and would take care of all wear-tear, insurance, theft etc. during the entire contract period so that the SLAs are not affected" will be the responsibility of Gujarat Police.</p> <p>Please amend the clause accordingly.</p>	As per answer provided against Sr. No. - 39.
114	Vol - II		Volume 2, Section 4, Clause 4.3 Item 1 & 2, Page 10	Details of Police Stations and Other Locations	<p>1) Not enough sites are available for Gandhinagar District. 2) Many of the sites given for Gandhinagar mention "No Space for Lattice Tower" 3) The given sites are inadequate for positioning the Base Station sites for good RF coverage.</p> <p>Please provide a more exhaustive list of sites for optimised RF Coverage planning.</p>	As per answer provided against Sr. No. - 40.
115	Vol - II		Volume 2, Section 4, Clause 4.4 Item e), Page 11	Bidder will be responsible to ensure full in-building coverage in the building / places / campuses listed in Annexure – III.	<p>Building plans would be required and ground survey needs to be conducted before the bid submission, for assessing the requirements. Please advise on the Point of Contact who'd help in getting the required permissions for survey.</p> <p>The in-building solution without Building Plans will be inconclusive and should not be treated as binding.</p>	As per answer provided against Sr. No. - 41.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
116	Vol - II		Volume 2, Section 4, Clause 4.4 Item i), Page 11	There may be instances where temporary coverage will be required inside the building (other than the critical buildings and important places defined in Annexure – III) for an operation. Bidder should explain in their response how this requirement can be achieved.	<p>The RF coverage for any building other than those listed in Annexure III shall be on a best effort basis and the coverage cannot be guaranteed to the criteria mentioned in clause 4.4 e).</p> <p>Temporary coverage may be achieved through deployment of a Digital Vehicular Repeater System.</p> <p>In case the same is required, we request you to introduce a separate line item in BoQ with the required quantity for this solution.</p>	As per answer provided against Sr. No. - 42.
117	Vol - II		Volume 2, Section 4, Clause 4.4 Item j), Page 12	The bidder shall visit the existing sites, access the suitability of the sites for installation of proposed base stations. The additional requirements at the site with respect to shelter, electrical requirements, infrastructure, temperature maintaining system, power backup facilities shall be quoted by the bidder if the site is chosen for installation of the base station.	<p>The survey and assessment of the specified sites for availability of various infrastructure can best be ascertained by Gujarat Police. Moreover, it'll take months for prospective bidders to survey more than 40 sites.</p> <p>Hence we request the assessment be done by the department and a fixed BoQ should be released so that all bidders offer similar type and quantity of equipment.</p> <p>Further, a room should be chosen by the department and earmarked for setting up the equipment room, for ascertaining the amount of work required to make it suitable for housing the equipment.</p> <p>Please confirm.</p>	As per answer provided against Sr. No. - 43.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
118	Vol - II		Volume 2, Section 4, Clause 4.4 Item r), Page 12	Portable BTS as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty. Portable BTS shall be enabled with 8 channels at least to support public gathering event. Portable BTS shall support extended temperature range up to 50 degree C and IP 66.	<p>Portable base stations have lesser capacity/capability and are generally used to augment RF coverage on a temporary basis. Nevertheless, the base stations house critical electronic components and still require a secure, temperature controlled environment for longevity of equipment.</p> <p>We request you to limit the number of carriers to 2-3 and remove the Ingress Protection, for us to offer a suitable, tested product.</p>	As per answer provided against Sr. No. - 44.
119	Vol - II		Volume 2, Section 4, Clause 4.5, Page 13	Frequency Planning	<p>We'd like to understand the basis of the Number of Voice channels required, as mentioned in "Volume 2, Section 4, Clause 4.7 Item 32), Page 27".</p> <p>If the said clause is binding, then the bidder shall not be responsible to convince the Government Authorities, as required in Section 4.5.</p> <p>We'd like to highlight that given the number of radios subscribers intended to be purchased, the number of carriers asked for in subsequent sections of this tender cannot be justified, and would entail a huge cost to the customer, in terms of loyalty payments every year, while most of them would remain idle.</p> <p>Hence, we request you to either leave it to the bidder to propose according to the number of operational groups and "Grade of Service" specified by you, or limit it to maximum 8 channels in city environment and 4 channels in rural,</p> <p>Please confirm.</p>	As per answer provided against Sr. No. - 45.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
120	Vol - II		Volume 2, Section 4, Clause 4.6.1 Item 3), Page 16	Minimum number of Base Station sites to be implemented is indicated in below table. SI will be responsible to plan adequate number of Base Stations equal / greater than the specified minimum numbers for any offered technology to fulfill the requirements specified in this tender.	<p>1) 3 watt hand portable radio in TETRA is available with only one manufacturer and RF design based on such a radio would bind the user with a single OEM for the rest of the life of the Radio System. 1.8 watt portable radios are available with multiple vendors and hence design of the TETRA network should be based on 1.8 watt so that Gujarat police in future has the flexibility of buying radios from multiple vendors at competitive rate. Hence we would request you to remove 3 watt hand portable radio from tender.</p> <p>2) The number of base stations specified for TETRA are inadequate to meet the coverage criteria stated in the tender. According to our coverage analysis a minimum of 24 sites for TETRA to fulfill the coverage requirement mentioned in tender to ensure there is a level playing field within the respective technologies. Hence, we request to amend the site requirements accordingly as per the these numbers</p>	As per answer provided against Sr. No. - 46.
121	Vol - II		Volume 2, Section 4, Clause 4.6.1 Item 3), Page 16	Minimum number of Base Station sites to be implemented is indicated in below table. SI will be responsible to plan adequate number of Base Stations equal / greater than the specified minimum numbers for any offered technology to fulfill the requirements specified in this tender.	Please provide the bifurcation of the number of Base stations required for Ahmedabad and Gandhinagar.	As per answer provided against Sr. No. - 46.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
122	Vol - II		Volume 2, Section 4, Clause 4.6.1 Item 7) b), Page 18	The solution proposed must provide higher reliability, better performance, higher security and easy scalability.	<p>The clause mentions the requirements in relative terms which are not quantifiable and create ambiguity. Please define the requirements in quantifiable terms. For security, Security/Encryption has various levels: FIPS 140-2 Level 3 being the highest.</p> <p>We request the same being mentioned along with other relevant specifications.</p>	As per answer provided against Sr. No. - 48.
123	Vol - II		Volume 2, Section 4, Clause 4.6.3 Item 1. 5), Page 20	Base Station Sites with Redundant Site Controller, transceivers, combiner, RF Cable, Antennae System and Accessories as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty. Quantity 10/12/15	<p>1) 3 watt hand portable radio in TETRA is available with only one manufacturer and RF design based on such a radio would bind the user with a single OEM for the rest of the life of the Radio System. 1.8 watt portable radios are available with multiple vendors and hence design of the TETRA network should be based on 1.8 watt so that Gujarat police in future has the flexibility of buying radios from multiple vendors at competitive rate. Hence we would request you to remove 3 watt hand portable radio from tender.</p> <p>2) The number of base stations specified for TETRA are inadequate to meet the coverage criteria stated in the tender. According to our coverage analysis a minimum of 24 sites for TETRA to fulfill the coverage requirement mentioned in tender to ensure there is a level playing field within the respective technologies. Hence, we request to amend the site requirements accordingly as per the these numbers</p>	As per answer provided against Sr. No. - 46.
124	Vol - II		Volume 2, Section 4, Clause 4.6.3 Item 1.	SMPS as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty	<p>This we understand is a Switched Mode Power Supply.</p> <p>Please explain what kind of software and license is required to be supplied with the SMPS.</p>	As per answer provided against Sr. No. - 50.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
			20), Page 21			
125	Vol - II		Volume 2, Section 4, Clause 4.6.3 Item 1. 29, 30, 31, 32) Page 22	Quantity of Portables, Mobile, Fixed Station and ATEX/IECEX Radios.	Please provide the bifurcation of the number of each radio type required for Ahmedabad and Gandhinagar.	As per answer provided against Sr. No. - 51.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
126	Vol - II		Volume 2, Section 4, Clause 4.7 Item 32), Page 27	<p>The proposed digital trunked radio network will consist of the following:</p> <ul style="list-style-type: none"> • Main and fully Redundant core switching system to be provided with card level redundancy – For ex. : redundant power cards, redundant control cards, redundant switching cards etc. with all other critical modules in redundancy. • Base Station sites with at least 16 channels (15 voice traffic channels + 1 control channel) in Ahmedabad city. • Base Station sites with at least 8 channels (7 voice traffic channels + 1 control channel) in Gandhinagar district. • If additional channels are required for AVLS or data application (as dedicated channels), they must be provided separately of the requested voice traffic channels. <p>Remotely configurable & plug & play modules for flexibility must be provided for all locations.</p> <ul style="list-style-type: none"> • Dispatcher Consoles • Hand-Held/ portable radios • Fixed/Static radios • Mobile Radios for vehicle configuration • Interfaces at Network infrastructure and subscriber radios to facilitate GPS based Tracking System for surveillance of team and vehicle. • Gateway for Integration of Legacy VHF & UHF systems with the DRTS at both geographical areas. • Special Hand free kit with helmet mounted earphones and wind fording microphone (with windscreen) & Portable radio charging kit to be connected with bike alternator battery for Police bikers as per quantity specified in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio sets in similar quantity (out of total quantity being purchased as per BOQ in this RFP) will need to be specially adapted for mounting on motorcycle platform for charging from the bike alternator battery. • All other BOQ line item as specified with 	<p>We understand that the redundancy for all critical modules in the centralised main switch shall be provisioned at the geographical redundant switch. Please confirm</p>	<p>As per answer provided against Sr. No. - 52.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
				<p>quantity details in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio charging kit should be housed in IP67 enclosure which is to be mounted on the Motorcycle. Portable radio should be able to connect to the Network while charging, so that Police Person can participate in a group call/individual call, send/receive messages, send geo coordinates etc. including all the functionalities, which radio offers when it is not being charged. Bidder has to plan Network coverage & capacity with regards to Hardware, Software and Services for the requirements mentioned in the RFP. (In addition to present clause - At least 32 channels (31 voice traffic channels + 1 control channel) in Base Station sites which will cover Rathyatra route in Ahmedabad city).</p>		

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
127	Vol - II		Volume 2, Section 4, Clause 4.7 Item 32), Page 27	<p>The proposed digital trunked radio network will consist of the following:</p> <ul style="list-style-type: none"> • Main and fully Redundant core switching system to be provided with card level redundancy – For ex. : redundant power cards, redundant control cards, redundant switching cards etc. with all other critical modules in redundancy. • Base Station sites with at least 16 channels (15 voice traffic channels + 1 control channel) in Ahmedabad city. • Base Station sites with at least 8 channels (7 voice traffic channels + 1 control channel) in Gandhinagar district. • If additional channels are required for AVLS or data application (as dedicated channels), they must be provided separately of the requested voice traffic channels. <p>Remotely configurable & plug & play modules for flexibility must be provided for all locations.</p> <ul style="list-style-type: none"> • Dispatcher Consoles • Hand-Held/ portable radios • Fixed/Static radios • Mobile Radios for vehicle configuration • Interfaces at Network infrastructure and subscriber radios to facilitate GPS based Tracking System for surveillance of team and vehicle. • Gateway for Integration of Legacy VHF & UHF systems with the DRTS at both geographical areas. • Special Hand free kit with helmet mounted earphones and wind fording microphone (with windscreen) & Portable radio charging kit to be connected with bike alternator battery for Police bikers as per quantity specified in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio sets in similar quantity (out of total quantity being purchased as per BOQ in this RFP) will need to be specially adapted for mounting on motorcycle platform for charging from the bike alternator battery. • All other BOQ line item as specified with 	<p>Due to high efficiency that Trunking brings in frequency use, a high number of talkgroups can be accommodated in the system. Hence, the number of required traffic channels may be limited to 8 per site in Ahmedabad City.</p> <p>Considering that the number of users in Gandhinagar are approximately a third of that of Ahmedabad, the number of traffic channels may be limited to 4.</p> <p>Please note that higher number of channels would require more number of frequency spots, which would incur higher recurring cost to Gujarat Police.</p> <p>Thus, each base station site at Ahmedabad may have 8 traffic channels + 1 control channel and in Gandhinagar 4 traffic channels + 1 control channel.</p>	As per answer provided against Sr. No. - 53.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
				<p>quantity details in BOQ in section – 4.6.3 of this volume of the RFP.</p> <p>Portable radio charging kit should be housed in IP67 enclosure which is to be mounted on the Motorcycle. Portable radio should be able to connect to the Network while charging, so that Police Person can participate in a group call/individual call, send/receive messages, send geo coordinates etc. including all the functionalities, which radio offers when it is not being charged. Bidder has to plan Network coverage & capacity with regards to Hardware, Software and Services for the requirements mentioned in the RFP.</p> <p>(In addition to present clause - At least 32 channels (31 voice traffic channels + 1 control channel) in Base Station sites which will cover Rathyatra route in Ahmedabad city).</p>		

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
128	Vol - II		Volume 2, Section 4, Clause 4.7 Item 32), Page 27	<p>Special Hand free kit with helmet mounted earphones and wind fording microphone (with windscreen) & Portable radio charging kit to be connected with bike alternator battery for Police bikers as per quantity specified in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio sets in similar quantity (out of total quantity being purchased as per BOQ in this RFP) will need to be specially adapted for mounting on motorcycle platform for charging from the bike alternator battery.</p> <ul style="list-style-type: none"> • All other BOQ line item as specified with quantity details in BOQ in section – 4.6.3 of this volume of the RFP. <p>Portable radio charging kit should be housed in IP67 enclosure which is to be mounted on the Motorcycle. Portable radio should be able to connect to the Network while charging, so that Police Person can participate in a group call/individual call, send/receive messages, send geo coordinates etc. including all the functionalities, which radio offers when it is not being charged.</p>	<p>This seems to be a proprietary equipment available with select vendors only. This is not available with most vendors. Request you to either remove it or make it optional to allow more competition.</p>	<p>As per answer provided against Sr. No. - 54.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
129	Vol - II		Volume 2, Section 4, Clause 4.7 Item 39), Page 28	An Ethernet/IP based protocol shall be available in the infrastructure to enable interconnection of data from the radio terminals with external applications. This will provide Gujarat police with the maximum flexibility to integrate existing and future application with the network.	<p>The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Moreover, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided.</p> <p>We request the requirement of interconnection with other applications be removed. If still required, the Ethernet/IP interface shall be available at main switch level to connect any third party application which shall be limited by the interface type and data throughput available as per APCO P25 technology. Please confirm</p>	As per answer provided against Sr. No. - 55.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
130	Vol - II		Volume 2, Section 4, Clause 4.7 Item 40), Page 28	<p>The Ethernet/IP based protocol of the proposed DTRS system shall be capable of providing below mentioned services along with integrating with third party applications, external databases, external recorders, control center solutions.</p> <ul style="list-style-type: none"> • To monitor radio terminals actions (call set ups, text messages, pre-defined messages, registering and un-registering processes) • Dynamic groups creation, deletion, radio assignments and radio de-assignments • Establishment of individual (half-duplex and/or duplex) and group calls • Establishment of phone calls using the PABX/PSTN connection of the system • Sending/receive SDS and Status messages – i.e. using the payload for databases queries – • AVL/APL tracking information • IP connectivity for the packet data service • In order to provide the easiest integration with other applications, voice format used for the connectivity shall be based on standard VoIP. 	<p>The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Moreover, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided.</p> <p>We request the requirement of interconnection with other applications be removed. If still required, the Ethernet/IP interface shall be available at main switch level to connect any third party application which shall be limited by the interface type and data throughput available as per APCO P25 technology standard. Please confirm</p>	As per answer provided against Sr. No. - 55.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
131	Vol - II		Volume 2, Section 4, Clause 4.8 Item 3), Page 29	<p>Each base station site shall have support for at least 16 channels (15 voice traffic channels + 1 control channel) in Ahmedabad city and 8 channels (7 voice traffic channels + 1 control channel) in Gandhinagar district area. If additional channels are required for AVLS or data application (as dedicated channels), they must be provided separately of the requested voice traffic channels. The bidder shall specify with technical documents the maximum number of channels the proposed system can support per site.</p>	<p>Due to high efficiency that Trunking brings in frequency use, a high number of talkgroups can be accommodated in the system. Hence, the number of required traffic channels may be limited to 8 per site in Ahmedabad City.</p> <p>Considering that the number of users in Gandhinagar are approximately a third of that of Ahmedabad, the number of traffic channels may be limited to 4.</p> <p>Please note that higher number of channels would require more number of frequency spots, which would incur higher recurring cost to Gujarat Police.</p> <p>Thus, each base station site at Ahmedabad may have 8 traffic channels + 1 control channel and in Gandhinagar 4 traffic channels + 1 control channel.</p>	As per answer provided against Sr. No. - 53.
132	Vol - II		Volume 2, Section 4, Clause 4.8 Item 9), Page 29	<p>The entire system shall be IP based such that future expansion of sites is possible. Other Manufacturer's Radio terminals of Digital Open Standard working on same technology as proposed by bidder should operate on the system with standard Trunking features. Bidder shall submit test report /certificate for the proposed subscriber radios and switch/controller in compliance to proposed technology requirement.</p>	<p>Inter System Interface (ISI) in TETRA and Inter Sub-System Interface (ISSI) in P25 are very important to ensure no dependency on any particular OEM.</p> <p>This is in line with requirement mentioned in clause 4.11 - 7 on page number 44 of Volume 2.</p> <p>We request you to include this amongst the Interoperability Requirements.</p> <p>Please confirm.</p>	As per answer provided against Sr. No. - 58.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
133	Vol - II		Volume 2, Section 4, Clause 4.8 Item 31), page 31	<p>Interfaces: The switch should provide gateways for</p> <ul style="list-style-type: none"> > PABX/PSTN > IP Protocol to 3rd party applications > VHF & UHF existing Network integration 	<p>The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Moreover, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided.</p> <p>We request the requirement of interconnection with other applications be removed. If still required, the Ethernet/IP interface shall be available at main switch level to connect any third party application which shall be limited by the interface type and data throughput available as per APCO P25 technology standard. Please confirm</p>	As per answer provided against Sr. No. - 55.
134	Vol - II		Volume 2, Section 4, Clause 4.10 Item q) i), page 40	<p>System Level</p> <p>3) Type 1 Handover in roaming or equivalent (roaming with automatic connection (i.e., automatic registration and authorization) for seamless roaming without re-establishment of call)</p>	<p>The handover types are not described in the APCO P25 standard. Automatic Mobility Management is defined and available with all APCO P25 manufacturers such that a change of site attachment won't require any manual intervention from the user.</p> <p>This requirement in it's present form must be deleted to allow participation from APCO P25 vendors. we would like to request that the Type 1 handover requirement may be changed to "Automatic Mobility/Roaming management".</p>	As per answer provided against Sr. No. - 60.
135	Vol - II		Volume 2, 4.10 q) i), page 41	<p>Network Management</p> <p>4) Call Set up time</p>	<p>This cannot be tested on the field. We would like to request this may be removed from the list of tests for acceptance of the network.</p>	As per answer provided against Sr. No. - 61.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
136	Vol - II		Volume 2, Section 4, Clause 4.10 Item q) i), page 41	Application Based Features 2) Database Query	<p>The DTRS is primarily a Voice Centric secure communication network and the data throughput will not be enough to support Image Push and other database related applications.</p> <p>We would like to request that this be removed to allow focus on building a robust Radio Trunking Network.</p> <p>This feature can be accomplished through the new Integrated CAD system</p>	As per answer provided against Sr. No. - 62.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
137	Vol - II		<p>Volume 2, Section 4, Clause 4.6.1 Item i), page 15</p> <p>&</p> <p>Volume 2, Section 4, Clause 4.10 Item r) ii), page 43</p>	<p>i. Key in vehicle number from field radio/portable and send it to DTRS switch using SDS facility. DTRS switch will push the number to server maintaining vehicle database as a query using IP/Ethernet port connectivity and vehicle status will be conveyed by that server as a response in few words. Same will be sent back to portable radio through DTRS Network.</p> <p>ii. Similar way, driving license number query can be executed from database.</p> <p>iii. If Police field team finds out someone with weapon, his/her name search can be done in weapon license database.</p> <p>iv. Stolen vehicle number entered through portable/static radio can be pushed to ANPR/VMS (Video Management Server) of SASGUJ Project, so that ANPR system can issue an alert on screen of Command & Control Centre whenever that vehicle is detected at some traffic junction.</p> <p>v. Video recording (for ex. avi files) of any nearby CCTV camera (installed during various Projects like SASGUJ, Smart city etc.) may be reviewed in the CDRS system workstation for any incident.</p> <p>vi. Existing vendors of Govt. of Gujarat and DTRS vendor will have to work jointly for API level integration.</p> <p>vii. To avoid any billing dispute, DTRS CAD will have to provide proof that query was successfully sent to Gujarat Government server on so & so date & time and response has not received.</p>	<p>The Digital Trunked Radio System is primarily a standalone secure voice communication network with limited data capabilities. Interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided. Moreover, the requirement stated is very generic and not available in detail to consider any such interface solution.</p> <p>We would like to request the requirement of interconnection with other applications be removed.</p>	<p>As per answer provided against Sr. No. - 63.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
138	Vol - II		Volume 2, Section 4, Clause 4.11 Item 54), page 49	Handhelds shall have the capability to run short data applications allowing users to access back office database applications or receive customized job dispatch messages. Such applications should use control channel /data channel in order not to load traffic channels for speech calls. To avoid load on traffic channel, data applications and AVLS should either work on control channel or dedicated data channel. Bidder should specify clearly their response how the application will work in their offered system.	<p>The Digital Trunked Radio System will primarily be a standalone secure voice communication network with limited data capabilities. Interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided.</p> <p>We request the requirement of interconnection with other applications be removed.</p>	As per answer provided against Sr. No. - 55.
139	Vol - II		Volume 2, Section 4, Clause 4.11 Item 74), page 50	The proposed radio system shall support seamless roaming across all the sites of both the geographies such that all call types are maintained and handed over from site to site without re-establishment of call. i.e. Type 1 Handover in roaming or equivalent (roaming with automatic connection (i.e., automatic registration and authorization) for seamless roaming without re-establishment of call)	<p>The handover types are not described in the APCO P25 standard. Automatic Mobility Management is defined and available with all APCO P25 manufacturers such that a change of site attachment won't require any manual intervention from the user.</p> <p>This requirement in its present form must be deleted to allow participation from APCO P25 vendors. we would like to request that the Type 1 handover requirement may be changed to "Automatic Mobility/Roaming management".</p>	As per answer provided against Sr. No. - 60.
140	Vol - II		Volume 2, Section 4, Clause 4.11 Item 99), page 55	The system shall provide the OTAP (Over The Air Programming) facility. The dispatcher shall be authorized to define the services, priorities and call rights and update the firmware versions into the system over the air, so that when changes are needed, then there is no need of bringing radio terminals to central location for re-programming.	<p>OTAP - it is vendor specific which won't allow a level playing field for all the reputed TETRA OEM. It is possible to do a dynamic regrouping over the air. Hence request you to amend the requirement accordingly.</p> <p>Please Confirm.</p>	As per answer provided against Sr. No. - 66.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
141	Vol - II		Volume 2, Section 4, Clause 4.12.1 Item 1.8), page 55	Transmission: Two Ethernet ports with inbuilt multiplexer for either loop protection or redundancy. Minimum bandwidth required shall be stated in the bidder response. Native Ethernet/IP connectivity is preferred.	<p>Since each OEM uses a different Switching and Routing design, we request you to leave it to bidder's discretion to propose a redundant system.</p> <p>Please remove this requirement of internal multiplexer.</p>	As per answer provided against Sr. No. - 67.
142	Vol - II		Volume 2, Section 4, Clause 4.12.1) Item c) 9), page 57	The hand-portable unit shall not weigh more than 300 grams with battery. Minimum backup required is 12 Hrs for duty cycle 90/5/5. (Standby/transmitting/receiving) – 3rd party certification needs to be provided from Internationally accredited laboratory for battery capacity.)	<p>a)The standard procedure to weigh the radio is exclusive of batteries as different vendors have different weight for the high capacity batteries. In addition, the mission critical radio devices are built to withstand tough drops, shocks and vibration. Moreover, in APCO P25, the radios are equipped with high RF power which requires heavier Internal circuitry/heat sink, which would require the radio to be heavier. Hence we request that the weight of the radio without battery is minimum 290gms.</p> <p>b)Similarly, the standard duty cycle for measurement is 90/5/5. Hence we request you to amend the duty cycle to 90/5/5 ((Standby/ transmitting/receiving)</p> <p>c) Only third party certification is not sufficient since it may not certified from International accredited lab. Hence we request to change " 3rd party certification needs to be provided for battery capacity" to "certification from OEM/third party Internationally accredited lab."</p>	As per answer provided against Sr. No. - 68.
143	Vol - II		Volume 2, Annexure VI, Page 93	Annexure VI - Indicative Hardware Specifications	The IT equipment including servers & client PCs are carefully selected with adequate specifications & optimized by each OEM to suit the system requirements. As such, we request that it should be left to the OEMs to offer their standard equipment instead of untested configurations that may cause problems & delays during the rollout.	As per answer provided against Sr. No. - 69.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
144	Vol - II		Volume 2, Annexure II 7.1), Page 86-87	S No. 30-39 No space for lattice tower	Please confirm if we can use Monopoles in these locations or should these locations not be used owing to lack of space for installing lattice or monopole towers?	As per answer provided against Sr. No. - 70.
145	Vol - II		Volume 2, Annexure I Item 6.1 & 6.2, Page 58	Locations of Ahmedabad City and Locations of Gandhinagar District	Please confirm if the bidders are free to choose any of these sites for installing repeaters in case the sites listed in Annexure II aren't adequate to provide RF coverage.	As per answer provided against Sr. No. - 71.
146	Vol - II		Vol 2, Clause 4.12, Section g), Page 53	4.12. Technical Specifications of Radios and Equipment g) Mobile Data Terminal 2) The terminal shall have AVL sub system for vehicle monitoring and telematics.	a) Please confirm what is the requirement of vehicle monitoring ? Does the MDT need to have CAN / OBD interface? c) We understand that this Mobile data terminal shall operate on Cellular network and not on DTRS system as there is no such MDT available to be used on DTRS. Please confirm	As per answer provided against Sr. No. - 72.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
147	Vol - II		Volume 2, Section 4, Clause 4.4 Item 1), Page 12	<p>The successful bidder will be responsible for system performance including a guarantee of radio coverage, installation of base station sites and IP based Communication, district/area wise central Dispatch equipment/consoles, leased line/MPLS connectivity, optimization of the radio infrastructure, integration of proposed Network system with existing CAD application / any new CAD application purchased in future by Gujarat Police, training system users and maintenance personnel, and achieving satisfactory system performance.</p> <p>Additional details on existing CAD: Interconnection possibilities (an example): All dial 100 calls for Ahmedabad city are presently landing at Shahibaug centre and integration will be required between existing CAD and new dispatch application to route the incident forms between them (This is software level integration. Along with this, hardware level integration will also be required to connect existing conventional radios with DTRS Network radios).</p>	<p>The integration of proposed CAD system in this requirement with existing CAD application/ any new CAD application purchased in future by Gujarat police is a very vague and cannot be accomplished requirement. Integration is very loose word and we would request you to share the detailed information about the existing system/ upcoming CAD System to check the feasibility whether it is possible to integrate with proposed CAD system in this requirement or not.</p> <p>Without the information as required above being provided, the integration requirement with existing CAD system be removed from scope of work.</p>	As per answer provided against Sr. No. - 73.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
148	Vol - II		Volume 2, Section 4, Clause 4.6.3, BOM), Page 20	<p>Integrated CAD Consoles at Central Control Room with call taking and dispatching facilities as per scope of work with all the required hardware, software, applicable licenses and 5 years onsite warranty</p> <p>30 new Integrated CAD consoles are required. It is also required to integrate the proposed DTRS Network & system / applications with existing CAD application.</p> <p>(Integrated CAD (ICAD) should provide one click solution after applying time and speed analytics on field reporting details to produce probable radius of target's movement.)</p>	<p>For this new requirement, please share the technical specification and functional requirement for Computer Aided Dispatch (CAD) Software (Call Taker, Dispatcher, Supervisor, Remote Supervisor, Social Operator), Geographical Information System (GIS) Software, IP EPABX Systems, Call 100 Mobile & SOS App, etc.</p> <p>For the new CAD requirement, please provide the bifurcation of the number of operators in Ahmedabad and Gandhinagar, out of 30, or will these 30 new CAD positions be co-located?</p> <p>For the new CAD requirement, please clarify on below points</p> <p>a) Call volume in one quarter - This data is required for application and database sizing? b) Number of call taker/ Dispatcher/ Supervisor in each shift? c) Is IPPBX system and CAD system required in active-active or active-passive mode? d) Is any Mobile app required like SOS app, senior official app, patrol management app ? e) Is any integration is required from SMS, Email, Social Media, Location base service or existing GIS service? c) Is any integration is required from other emergency services like Fire, Ambulance Service etc. ? g) Storage of data required from how many days?</p>	As per answer provided against Sr. No. - 74.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response						
149	Vol - I		Vol 1, Section 8, Clause 8.20.3, Page 26-29 TQ_2.1	<p>Technical Evaluation Criteria DTRS Switch – Redundancy: Time for the full functionality of the DTRS to re-establish after a failure in the main switch and the takeover of the redundant one (users must be able to set up calls after that time after the failure). OEM data sheet / OEM Certification shall be used to validate the same.</p>	<p>The requirement of switchover of <=20 Seconds from main switch to the redundant switch in very less. This may not be practically possible. Hence we request to change as following</p> <table> <tr> <td>Failover time by redundant switch</td> <td>Marks</td> </tr> <tr> <td><=40 Seconds</td> <td>5</td> </tr> <tr> <td><=60Second and >40 Seconds</td> <td>3</td> </tr> </table>	Failover time by redundant switch	Marks	<=40 Seconds	5	<=60Second and >40 Seconds	3	As per answer provided against Sr. No. - 75.
Failover time by redundant switch	Marks											
<=40 Seconds	5											
<=60Second and >40 Seconds	3											
150	Vol - I		TQ_2.1	Features in Fallback mode : All type of Data Services as available in normal operation	Data services in fall back mode is not critical. During fall back mode, voice services are critical and data is not provided by most manufacturers. Hence data services in Fallback Mode to be removed.	As per answer provided against Sr. No. - 76.						
151	Vol - I		TQ_2.1	Base Station Controller Capability: Ability for a base station controller to keep several base stations of a region or city interconnected if link is lost with switch	This feature is applicable for GSM network. It is not applicable to APCO/TETRA DTRS. Hence, this Base Station Controller Capability feature to be removed.	As per answer provided against Sr. No. - 77.						

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
154	Vol - I		TQ_2.1	Support for mutual authentication	Mutual Authentication is not available/supported amongst subscribers from different APCO P25 manufacturers and would lead to a proprietary solution. This should be removed for participation of APCO P25 manufacturers in the tender.	As per answer provided against Sr. No. - 80.
155	Vol - I		TQ_5.1	Concurrent SDS/ Status Messages possible to be received during Speech call	APCO P25 gives priority to Critical Voice Calls over Data, and as such the data transmission is parked, momentarily, while Voice is being transmitted. However, the Messages are transferred in almost real time. We request you to remove this requirement for a level playing field to both technologies.	As per answer provided against Sr. No. - 81.
156	Vol - I		TQ_7.1	Type 1 Handover	APCO P25 standard does not define Type of handovers, but only "Automatic Mobility Management", which allows the user to roam around freely, with the radio changing sites as per RF coverage, without any user action. We request you to remove this requirement to allow both technologies to be offered.	As per answer provided against Sr. No. - 60.
157	Vol - I		TQ_8.1	Database Query	The DTRS is primarily a Voice Centric secure communication network and the data throughput will not be enough to support Image Push and other database related applications. We would like to request that this be removed to allow focus on building a robust Radio Trunking Network.	As per answer provided against Sr. No. - 62.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
158	Vol - I		TQ_9.1	Single-unit Handheld Radio with battery and Spare battery charger	<p>This is not a critical feature for radio operation. The department is already purchasing adequate numbers of single unit and multi unit chargers.</p> <p>We request you to remove this evaluation clause to allow for assessment on more stringent parameters, that affect the performance of the Radio System.</p> <p>Please Confirm.</p>	As per answer provided against Sr. No. - 84.
159	Vol - I		TQ_9.2	DMO Repeater	<p>DMO Repeater functionality is not defined in APCO, where the Radios are high powered, to have considerable Talk Around range, as compared to low transmitter powers in TETRA Radios.</p> <p>As this feature is limited to TETRA, we request you to remove this, and replace it with a clause where APCO manufacturers can also earn points.</p> <p>Please confirm.</p>	As per answer provided against Sr. No. - 85.
160	Vol - I		Clause 6.20.3 Technical evaluation Criteria	Additional Points	<p>The following technical evaluation criteria points should also be considered as these are more applicable for a robust DTRS network</p> <ul style="list-style-type: none"> - Presence of OEM in India - Presence of DTRS related experienced technical team in India - Experience of setting DTRS system in India 	As per answer provided against Sr. No. - 86.
161	Vol - I		Volume 1 Section 7 Clause A.3 Page 12	The OEM of the proposed system must BID as one of the consortium partner...	<p>Please confirm that <u>system</u> OEM is referring to the infrastructure equipment OEM. Otherwise, please clarify which OEM needs to be in the consortium, as one BID may include different manufacturers for infrastructure (core switch, base stations), radio terminals and/or CAD products. Please note the complications on this due to consortium is limited to three companies.</p>	As per answer provided against Sr. No. - 34.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
162	Vol - I		Volume 1 Section 7 Clause B.9 Page 13	(Work order) and (project commissioning / acceptance certificate) from end customer.	This paragraph haven't change from the original tender. However, it has been marked as yellow, and some parts has been put into brackets. Please confirm requirement for work orders / acceptance letters is still valid as it will be only way to check presented references.	No change.
163	Vol - I		Volume 1 Section 8.20.3 Clause TQ 2.1 (screen size) Page 30	Handheld radio screen lenght size	<p>The requirement has been changed from diagonal from lenght, which is not the usual terms in the radio industry. Screen size is always measured in diagonal, and asking for 2" in the lenght dimension, makes impossible for most, if not all of the P25 and TETRA OEMs to meet any of the score points.</p> <p>TETRA radios has typically larger displays than P25 radios, and the largest display in the market is 2.4" in diagonal. Thus. this menas the lenght or height on this 2.4" display is less than 1.5", which makes the scoring useless.</p> <p>We kinly ask to revert the evaluation sheet to the previous requirement of measurement in diagonal.</p>	No change.
164	Vol - II		Volume 2 Section 4.4.1 Clause 1 Page 12	Along with this, hardware level integration will also be required to connect existing conventional radios with DTRS Network radios.	How many simultaneous calls between conventional radios and DTRS Network radios are required?	No change.
165	Vol - II		Volume 2 Section 4.6.1 Clause i Pages 14 and 15	To avoid any billing dispute, DTRS CAD will have to provide proof that query was successfully sent to Gujarat Government server on so & so date & time and response has not received.	Please confirm it is acceptable that this proof is provided by DTRS Network Management System instead of DTRS CAD.	Ok

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
166	Vol - II		Volume 2 Section 4.6.3.1 Clauses 6, 7 and 10 Page 20	9 x IP Dispatcher Consoles at 2 Control Rooms 30 x Integrated CAD Consoles at Central Control Room 2 x Automatic Vehicle Location Service	Could servers for IP Dispatcher Consoles, Integrated CAD Consoles and AVLS Clients be common servers for these 3 applications? How many AVLS clients are required? If 39 clients are required, we understand these 39 clients will work in the 39 workstations corresponding to IP Dispatcher Consoles plus Integrated CAD Consoles. Is our understanding right?	1. Servers can be common for applications based on OEM's design. 2. For AVLS query, yes understanding is right, but also refer Vol - 2, Section - 4.7, Sr. No. - 16 (updated clause with yellow colour) of revised RFP.
167	Vol - II		Volume 2 Section 4.7 Clause 23 Page 26	Integrated Workstations/Consoles must be provided with capability to act as IP Dispatcher with full functionality for each selected profile	We understand that all the 39 Consoles (IP Dispatch + CAD) must be provided with Dispatching Application. Is our understanding right?	Only 9 consoles as per Vol - 2, Section - 4.6.3, Sr. No. - 6 remains in the scope of this RFP. Integrated CAD is removed from the scope of this RFP. Vol - 2, Section - 4.6.3 (BoQ), Sr. No. - 7 stands removed. (As per answer provided against Sr. No. - 74.)
168	Vol - II		Volume 2 Sections 4.7 Clause 39 Page 28	An Ethernet/IP based interface & protocol support shall be available in the DTRS switch so that SDS based functionalities can be used by sending queries to various existing database/ Application Servers of Govt. of Gujarat	Regarding SDS based applications, how many different existing Servers of Govt. of Gujarat shall the DTRS interface with?	Refer Vol - 2, Section - 4.6, Clause - 1 (i) and Vol - 2, Section - 4.10, Clause - r.
169	Vol - II		Volume 2 Sections 4.7 Clause 40 Page 28	The Ethernet/IP based interface & protocol support of the proposed DTRS switch system shall be capable of providing below mentioned services along with integrating with third party applications, external databases, external recorders, control center solutions.	Regarding AVL/APL tracking information, please confirm that the integration is required with the AVLS included in the scope of work of this project. Regarding external recorders, please confirm that the integration is required with the CDRS included in the scope of work of this project.	Functional requirement of integration is mentioned in revised RFP. Bidder has to design overall solution accordingly.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
170	Vol - II		Volume 2 Section 4.10.4.l&m Page 36-38	A calibrated digital voice test receiver will be connected to an antenna installed on the test vehicle. The test receiver will monitor transmissions from the fixed network radio sites. The DAQ coverage test will utilize a portable/mobile radio equipped with a speaker microphone with an antenna at shoulder level for testing in transmit (talk-in) and receive (talk-out) directions between a dispatch console and a mobile test receiver in a vehicle.	Regarding coverage requirements, are they for TETRA handheld terminals or for mobile terminals? If they are for TETRA handheld terminals, please confirm that coverage acceptance test that will be performed to provide objective verification of the proposed DTRS system, will be carried out with the offered TETRA handheld terminals in a person's waist and with the own antenna of those handheld terminals	<p>Revised clause (Vol - 2, Section - 4.10 (m), Sr. No. - iv): The DAQ coverage test will utilize a portable radio equipped with a speaker microphone with an antenna at shoulder level for testing in transmit (talk-in) and receive (talk-out) directions between a dispatch console and a mobile test receiver in a vehicle.</p> <p>Revised clause (Vol - 2, Section - 4.10 (o), Sr. No. - ii): The test team will use the PTT button on the non-fixed unit (i.e. portable radio) in accordance with product default specifications and wait for the tone indicating establishment or failure of communications.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
171	Vol - II		<p>Volume 2 Section 4.10.4.h.i Page 35</p> <p>Volume 2 Section 4.10.4.l.vi Page 37</p> <p>Volume 2 Section 4.11 Clause 1 Page 43</p>	<p>The RF coverage has to provide the digital Bit Error Rate (BER) of $\leq 2\%$ that provides a minimum Delivered Audio Quality (DAQ) of 3.4 or above for audio signal and MSR of 95% for both outbound (talk-out) and inbound (talkback) communications with 95% reliability using handheld device and other necessary required hardware and software. Detailed RF coverage testing procedure is mentioned in Section – 4.10 which bidder will have to comply with.</p>	<p>According to TIA Standard TSB-88.1-D and later, 5.2 Channel Performance Criterion (CPC): "The CPC is the specified design performance level in a faded channel. Its value is dependent upon ratios of the desired signal to that of the other noise and interference mechanisms that exist within the service area. Table A-1 of Annex-A contains a tabulation of common modulations and their projected CPCs. for TETRA: no values specified for BER %/Cf/I+N at different DAQ values. Noted only Footnote 9) Contact manufacturer as sensitivity varies by deployment configuration In addition, VCPC, is defined as Voice Channel Performance Criterion. Static SINAD equivalent intelligibility, Mean Opinion Scores (MOS) and Circuit Merit have been frequently used to define a Voice Channel Performance Criterion (VCPC). The term, Delivered Audio Quality (DAQ), was developed to facilitate mapping of analog and digital voice system performance to Circuit Merit and Static SINAD equivalent intelligibility. DAQ and its static SINAD equivalent intelligibility define a subjective evaluation based on understandability, minimizing repetition and degradation due to noise or distortion to establish scores. For the purposes of this document, DAQ values are defined in terms of static SINAD equivalent intelligibility. For these reasons, and according with TSB-88 standard, the CPC for this voice system should be DAQ 3.4 only.</p>	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
172	Vol - II		Volume 2 Sections 4.10.t Clause i Page 43	Bidder shall also demonstrate the Technical Parameters of the proposed Base Station, Handheld Radio Terminal and Mobile/ Static Radio Terminals as per MHA/DCPW Guidelines. Arrangement of necessary Test Equipment and accessories for this Technical Testing will be the responsibility of the Bidder.	Are these tests to be done by all the bidders during the bidding phase? Or only by the selected bidder? Are these tests to be done in India? Or in OEM Factory? If these tests must be done during the bidding phase, please inform about the date.	These tests are to be done by selected bidder as part of FAT (Factory Acceptance Testing).
173	Vol - II		RFP Vol 2 Sct 4.11 Clause 39 Page 47	Proposed Solution to grouping talk groups: Radio Terminals supports multi-group feature using the User Defined Scan List (UDSL) feature which allows multiple talkgroups to be scanned and to receive incoming calls. The UDSL talkgroups shall also be configured on the SwMI. The SwMI re-routes the call set up by the radio terminal to all other talkgroups within the UDSL. This enables other Radio Terminals to participate in the ongoing multi-group call and visa-versa	Why is the response considered to be only a partial compliance. Can you describe the technical details on how the combination of talkgroups are achieved on the terminal and SwMI?	No change.
174	Vol - II		RFP Vol 2 Sctn 4.11 Clause 106 Page 55	Capability of battery charger to charge one additional spare battery simultaneously along with radio charging is optional.	RFP Vol 1 Sctn 8.20.3 else TQ_9.1 asks for availability of charger capable of charging radio and separate battery. Can we offer radio only charger in quotation and radio plus battery charger as option to score marks in TQ_9.1 Vol 1 ?	No, if technical marks are scored with product feature then same needs to be supplied.
175	Vol - II		RFP Vol 2 Sct 4.12.4 Clause 12 Page 59	Change in requirement from: A motorcycle kit installation of the vehicle radio shall be offered with options for simple limited control installation and full control installation with IP66 console. To: The mobile radio unit shall be sealed against ingress of dust and water to IP65 or higher standard	Does this new IP65 requirement still apply just to the console, or also to the transceiver. If the transceiver, is it acceptable for it to be protected by an enclosure to meet the IP65 requirement?	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
176	Vol - I				considering that pre-bid meeting is on the 26th Nov, submission on the 10th December will be very complicated for all interested Bidders. Thus, we would like to kindly ask you to consider to give at least 45 days from the publication of the responses to the queries to deliver the proposal. We believe that this goes on the interest of all involved in the project, as quality of the responses will be significantly enhanced. Many points has changed since RFP documents published in 2018, so most bidders will need to make major reworks and the draft proposal that were started.	As per answer provided against Sr. No. - 4.
177	Vol - II		Volume 2, Section No. 4.4, Clause No. 1(r) Page No.13	Portable BTS shall support extended temperature range up to 50 degree C and IP 66.		No change.
178	Vol - II		Volume 2, Section No. 4.6.1 Clause No. 1(f), Page No 16	Connectivity planned between sites and centralized switches (redundant switches) through P2P Leased Circuits / P2MP links / MPLS links via Optical Fibre / MW / RF as last mile media for connectivity.	Distributed architecture should also be allowed to avoid single point of failure. Requesting you to allow centralized/distributed switches.	No change.
179	Vol - II		Volume 2, Section No. 4.6.3 Clause No. 1(1), Page No 21	Full Digital Radio Trunking Switch with Redundant Zone Controller as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty	Distributed architecture should also allowed to avoid single point of failure.	No change.
180	Vol - II		Volume 2, Section No. 4.6.3 Clause No 1(18), Page No 21	10 KVA On-Line UPS with Battery Bank for 8 Hrs Backup (used for DTRS Switch, other Network components and also for colocated Dispatcher Consoles at PHQ) as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty	As our system requirement is very less. Requesting you to not to define UPS capacity. Please mention only Backup requirement.	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
181	Vol - II		Volume 2, Section No. 4.6.3 Clause No 1(19), Page No 21	5 KVA On-Line UPS with Battery Bank for 8 Hrs Backup (used for Base Station) as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty	As our system requirement is very less. Requesting you to not to define UPS capacity. Please mention only Backup requirement.	No change.
182	Vol - II		Volume 2, Section No. 4.6.3 Clause No 1(21), Page No 21	20 KVA Diesel Generator at Central DTRS switching Sites as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty	Distributed architecture should also be allowed to avoid single point of failure.	No change.
183	Vol - II		Volume 2, Section No. 4.7 Clause No 40, Page No 28	Establishment of individual (half-duplex and/or duplex (full duplex is optional)) and group calls	Full duplex is a key feature of system and should not be optional.	No change.
184	Vol - II		Volume 2, Section No. 4.7 Clause No 22, Page No 26	Support to perform software upgrades for all networks components remotely. If upgrade fails, system administrator must be able to roll back to previous working configuration from centralized system.	Distributed architecture should also be allowed to avoid single point of failure.	No change.
185	Vol - II		Volume 2, Section No. 4.8 Clause No 27, Page No 31	Switch shall have centralized architecture.	Distributed architecture should also be allowed to avoid single point of failure.	No change.
186	Vol - II		Volume 2, Section No. 4.12 Clause No 1(3), Page No 55	Transmit Power: Minimum 15W	Selected bidder will be responsible to provide the coverage as per tender requirement. So there is no need to define minimum output power, it will restrict some OEM to participate. So requesting you to remove or amend as minimum 10W.	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
187	Vol - II		Volume 2, Section No. 4.12 Clause No 3(13), Page No 58	The operating temperature radio unit shall be in the range -20 to +60 degree Celsius. The hand-portable radio unit shall meet International standard for Shock & Vibration and humidity as those standards specification requires equipment to undergo mechanical extensive shock and vibration, dust and humidity test procedures according to IP 66. Radios compliant with IP66 or higher will be acceptable.	As per general police communication requirement IP54 is sufficient. IP66 requirement will increase the cost drastically and will also restrict the more OEM to participate.	No change.
188	Vol - II		Volume 2, Section No. 4.12 Clause No 3(22), Page No 58	Full duplex audio support (Optional)	Full duplex is a key feature of system and should not be optional.	No change.
189	Vol - II		Volume 2, Section No. 4.12 Clause No 3(22), Page No 58	DMO Repeater functionality (Optional)	DMO Repeater functionality will increase the coverage requirement as per new or temporary requirement. Thus it should mandatory.	As per answer provided against Sr. No. - 85.
190	Vol - I		Volume No 1, Section No.7 Clause No B(9) Page No 14	The OEM should have supplied & commissioned at least 3 state wide / district wide projects anywhere in world with 75 BTS each for the technology proposed in the proposal (APCO P25 Digital Trunking*/ TETRA).	This clause is favoring one OEM. We request you to amend the requirement of 75 BTS to 10 OR 15 BTS.	As per answer provided against Sr. No. - 1.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
191	Vol - I		Volume No 1, Section No.8.20.3 Clause No TQ_1.2 Page No 28	Bidder OEM should have minimum experience of implementation of 3 state wide / district wide projects anywhere in world with 75 BTS each for the technology proposed in the proposal (BTS must be commissioned and visible in NMS). For additional implementation of BTS, the bidder will get additional 2 mark as per below table. No. of BTS Implementation Marks >= 300 BTS 5 >= 225 BTS and < 300 BTS 3	This clause giving five marks for 300 BTS is favoring one OEM. Requesting to amend this to 30-40 BTS.	As per answer provided against Sr. No. - 1.
192	Vol - II		Volume No 2, Section No.4.12, Clause No. 2(16), Page No. 56	In addition to the above features, dispatcher shall be able to perform following tasks • Send and receive half duplex individual and groups calls • to/from radio subscribers • to/from PABX/PSTN subscribers (optional) • to/from other dispatcher	Please clarify PSTN calls are optional or mandatory.	No change.
193	Vol - II		Volume No 2, Section No.4.11, Clause No. 105, Page No.55	The hand-portable radio unit shall be able to initiate and receive full-duplex telephone calls to/from PSTN or PABX subscribers (optional). All clauses mentioning this requirement are to be read as optional requirement.	Please clarify PSTN calls are optional or mandatory	No change.
194	Vol - II		Volume 2, Section 4, Clause 4.6.1 Item 7) b), Page 18	The solution proposed must provide higher reliability, better performance, higher security and easy scalability.	Please explicitly specify what are the Security/Encryption standards required.	As per answer provided against Sr. No. - 48.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
195	Vol - II		Volume 2, Section 4, Clause 4.6.3 Item 1. 5), Page 20	Base Station Sites with Redundant Site Controller, transceivers, combiner, RF Cable, Antennae System and Accessories as per scope of work with all the required hardware, software, applicable licenses and 5 years on-site warranty. Quantity 10/12/15	<p>Although details have been asked in Section 4.6.2 under Link Budget, the rationale of deciding 10/12/15 Base station sites is too far from reality. Based on the Link budget already calculated by us, TETRA needs 2.5 times more Base station sites compared to APCO. More over since the Department proposes 70% payment against delivery, emphasis needs to be laid on Link budget. It is suggested that the Link budget given by the bidders should be validated with the respective softwares of the OEMs for correctness of the number of Base station sites, to arrive at a Level playing field among bidders. The minimum number of TETRA sites may be increased to 24 for a level playing field among all bidders.</p> <p>Further TETRA as such is a 1.8w standard for portable radios. 3 w Portable is offered only by one Vendor and hence the Number of Base station sites may kindly be not modified for the purpose of only one vendor. It leads to a situation where the department continues to get locked to only one vendor and the purpose of Interoperability is lost. Hence the flexibility of offer lesser number of sites for a 3w TETRA radio manufacturer may kindly be removed for a level playing field for all the bidders.</p>	As per answer provided against Sr. No. - 46.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
196	Vol - II		Volume 2, Section 4, Clause 4.7 Item 32), Page 27	<p>The proposed digital trunked radio network will consist of the following:</p> <ul style="list-style-type: none"> • Main and fully Redundant core switching system to be provided with card level redundancy – For ex. : redundant power cards, redundant control cards, redundant switching cards etc. with all other critical modules in redundancy. • Base Station sites with at least 16 channels (15 voice traffic channels + 1 control channel) in Ahmedabad city. • Base Station sites with at least 8 channels (7 voice traffic channels + 1 control channel) in Gandhinagar district. • If additional channels are required for AVLS or data application (as dedicated channels), they must be provided separately of the requested voice traffic channels. <p>Remotely configurable & plug & play modules for flexibility must be provided for all locations.</p> <ul style="list-style-type: none"> • Dispatcher Consoles • Hand-Held/ portable radios • Fixed/Static radios • Mobile Radios for vehicle configuration • Interfaces at Network infrastructure and subscriber radios to facilitate GPS based Tracking System for surveillance of team and vehicle. • Gateway for Integration of Legacy VHF & UHF systems with the DRTS at both geographical areas. • Special Hand free kit with helmet mounted earphones and wind fording microphone (with windscreen) & Portable radio charging kit to be connected with bike alternator battery for Police bikers as per quantity specified in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio sets in similar quantity (out of total quantity being purchased as per BOQ in this RFP) will need to be specially adapted for mounting on motorcycle platform for charging from the bike alternator battery. • All other BOQ line item as specified with 	<p>Page 92 volume 2 confirms the Number of Talk groups as Maximum 18 for Ahmedabad and Maximum of 14 for Gandhinagar. Trunking brings in high efficiency in frequency use, and hence a high number of talkgroups can be accommodated in the system. Hence, the number of required traffic channels may be limited to 8 per site in Ahmedabad City. The demand of 15 channels for a maximum Talk group of only 18 does not weigh the benefit of DRTS that it is meant for by sharing resources.</p> <p>More over the number of users in Gandhinagar are less than a third of that of Ahmedabad, and the number of traffic channels may be limited to 4.</p> <p>Further more number of channels would require more number of frequency spots, which would incur higher recurring cost to Gujarat Police.</p> <p>Thus, each base station site at Ahmedabad may have 8 traffic channels + 1 control channel and in Gandhinagar 4 traffic channels + 1 control channel may kindly be accepted</p>	As per answer provided against Sr. No. - 45.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
				<p>quantity details in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio charging kit should be housed in IP67 enclosure which is to be mounted on the Motorcycle. Portable radio should be able to connect to the Network while charging, so that Police Person can participate in a group call/individual call, send/receive messages, send geo coordinates etc. including all the functionalities, which radio offers when it is not being charged. Bidder has to plan Network coverage & capacity with regards to Hardware, Software and Services for the requirements mentioned in the RFP. (In addition to present clause - At least 32 channels (31 voice traffic channels + 1 control channel) in Base Station sites which will cover Rathyatra route in Ahmedabad city).</p>		

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
197	Vol - II		Volume 2, Section 4, Clause 4.7 Item 32), Page 27	<p>Special Hand free kit with helmet mounted earphones and wind fording microphone (with windscreen) & Portable radio charging kit to be connected with bike alternator battery for Police bikers as per quantity specified in BOQ in section – 4.6.3 of this volume of the RFP. Portable radio sets in similar quantity (out of total quantity being purchased as per BOQ in this RFP) will need to be specially adapted for mounting on motorcycle platform for charging from the bike alternator battery.</p> <ul style="list-style-type: none"> • All other BOQ line item as specified with quantity details in BOQ in section – 4.6.3 of this volume of the RFP. <p>Portable radio charging kit should be housed in IP67 enclosure which is to be mounted on the Motorcycle. Portable radio should be able to connect to the Network while charging, so that Police Person can participate in a group call/individual call, send/receive messages, send geo coordinates etc. including all the functionalities, which radio offers when it is not being charged.</p>	<ol style="list-style-type: none"> 1.Special Hands free kit with Helmet mounted earphones and wind fording seems to be a proprietary equipment available with select vendors only. This is not available with most vendors. Request you to either remove it or make it optional to allow more competition. 2. Further with regard to IP67 Portable charging kit it is suggested that only the spare battery is put on charge and not the whole radio and hence the requirement may be modified accordingly 	As per answer provided against Sr. No. - 54.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
198	Vol - II		Volume 2, Section 4, Clause 4.7 Item 39), Page 28	An Ethernet/IP based protocol shall be available in the infrastructure to enable interconnection of data from the radio terminals with external applications. This will provide Gujarat police with the maximum flexibility to integrate existing and future application with the network.	The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Hence these requirements appears to be good conceptually but leads to lot of challenges while execution as, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided. We request the requirement of interconnection with other applications be removed.	As per answer provided against Sr. No. - 55.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
199	Vol - II		Volume 2, Section 4, Clause 4.7 Item 40), Page 28	<p>The Ethernet/IP based protocol of the proposed DTRS system shall be capable of providing below mentioned services along with integrating with third party applications, external databases, external recorders, control center solutions.</p> <ul style="list-style-type: none"> • To monitor radio terminals actions (call set ups, text messages, pre-defined messages, registering and un-registering processes) • Dynamic groups creation, deletion, radio assignments and radio de-assignments • Establishment of individual (half-duplex and/or duplex) and group calls • Establishment of phone calls using the PABX/PSTN connection of the system • Sending/receive SDS and Status messages – i.e. using the payload for databases queries – • AVL/APL tracking information • IP connectivity for the packet data service • In order to provide the easiest integration with other applications, voice format used for the connectivity shall be based on standard VoIP. 	<p>The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Hence these requirements appears to be good conceptually but leads to lot of challenges while execution as, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided. We request the requirement of interconnection with other applications be removed.</p>	As per answer provided against Sr. No. - 55.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
200	Vol - II		Volume 2, Section 4, Clause 4.8 Item 3), Page 29	<p>Each base station site shall have support for at least 16 channels (15 voice traffic channels + 1 control channel) in Ahmedabad city and 8 channels (7 voice traffic channels + 1 control channel) in Gandhinagar district area. If additional channels are required for AVLS or data application (as dedicated channels), they must be provided separately of the requested voice traffic channels. The bidder shall specify with technical documents the maximum number of channels the proposed system can support per site.</p>	<p>Page 92 volume 2 confirms the Number of Talk groups as Maximum 18 for Ahmedabad and Maximum of 14 for Gandhinagar. Trunking brings in high efficiency in frequency use, and hence a high number of talkgroups can be accommodated in the system. Hence, the number of required traffic channels may be limited to 8 per site in Ahmedabad City. The demand of 15 channels for a maximum Talk group of only 18 does not weigh the benefit of DRTS that it is meant for by sharing resources.</p> <p>More over the number of users in Gandhinagar are less than a third of that of Ahmedabad, and the number of traffic channels may be limited to 4.</p> <p>Further more number of channels would require more number of frequency spots, which would incur higher recurring cost to Gujarat Police.</p> <p>Thus, each base station site at Ahmedabad may have 8 traffic channels + 1 control channel and in Gandhinagar 4 traffic channels + 1 control channel may kindly be accepted</p>	As per answer provided against Sr. No. - 45.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
201	Vol - II		Volume 2, Section 4, Clause 4.8 Item 31), page 31	Interfaces: The switch should provide gateways for > PABX/PSTN > IP Protocol to 3rd party applications > VHF & UHF existing Network integration	The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Hence these requirements appears to be good conceptually but leads to lot of challenges while execution as, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided. We request the requirement of interconnection with other applications be removed.	As per answer provided against Sr. No. - 55.
202	Vol - II		Volume 2, Section 4, Clause 4.10 Item q) i), page 40	System Level 3) Type 1 Handover in roaming or equivalent (roaming with automatic connection (i.e., automatic registration and authorization) for seamless roaming without re-establishment of call)	The handover types are not described in the APCO P25 standard. Automatic Mobility Management is defined and available with all APCO P25 manufacturers such that a change of site attachment won't require any manual intervention from the user. We request that the Type 1 handover requirement may be changed to "Automatic Mobility/Roaming management".	As per answer provided against Sr. No. - 60.
203	Vol - II		Volume 2, Section 4, Clause 4.10 Item q) i), page 41	Application Based Features 2) Database Query	The DTRS is primarily a Voice Centric secure communication network and the data throughput will not be enough to support Image Push and other database related applications. We request that this be removed to allow focus on building a robust Radio Trunking Network This feature can be accomplished through the new Integrated CAD system	As per answer provided against Sr. No. - 62.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
204	Vol - II		<p>Volume 2, Section 4, Clause 4.6.1 Item i), page 15</p> <p>&</p> <p>Volume 2, Section 4, Clause 4.10 Item r) ii), page 43</p>	<p>i. Key in vehicle number from field radio/portable and send it to DTRS switch using SDS facility. DTRS switch will push the number to server maintaining vehicle database as a query using IP/Ethernet port connectivity and vehicle status will be conveyed by that server as a response in few words. Same will be sent back to portable radio through DTRS Network.</p> <p>ii. Similar way, driving license number query can be executed from database.</p> <p>iii. If Police field team finds out someone with weapon, his/her name search can be done in weapon license database.</p> <p>iv. Stolen vehicle number entered through portable/static radio can be pushed to ANPR/VMS (Video Management Server) of SASGUJ Project, so that ANPR system can issue an alert on screen of Command & Control Centre whenever that vehicle is detected at some traffic junction.</p> <p>v. Video recording (for ex. avi files) of any nearby CCTV camera (installed during various Projects like SASGUJ, Smart city etc.) may be reviewed in the CDRS system workstation for any incident.</p> <p>vi. Existing vendors of Govt. of Gujarat and DTRS vendor will have to work jointly for API level integration.</p> <p>vii. To avoid any billing dispute, DTRS CAD will have to provide proof that query was successfully sent to Gujarat Government server on so & so date & time and response has not received.</p>	<p>The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Hence these requirements appears to be good conceptually but leads to lot of challenges while execution as, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided. We request the requirement of interconnection with other applications be removed.</p>	<p>As per answer provided against Sr. No. - 63.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
205	Vol - II		Volume 2, Section 4, Clause 4.11 Item 54), page 49	Handhelds shall have the capability to run short data applications allowing users to access back office database applications or receive customized job dispatch messages. Such applications should use control channel /data channel in order not to load traffic channels for speech calls. To avoid load on traffic channel, data applications and AVLS should either work on control channel or dedicated data channel. Bidder should specify clearly their response how the application will work in their offered system.	The Digital Trunked Radios System will primarily be a standalone secure voice communication network with limited data capabilities. Hence these requirements appears to be good conceptually but leads to lot of challenges while execution as, the Ethernet/IP interface for any external application is available only at infrastructure switch level and not at radio device level. The interconnection with other applications and databases may create additional load and vulnerabilities for the security and capacity of the secure network and must be avoided. We request the requirement of interconnection with other applications be removed.	As per answer provided against Sr. No. - 55.
206	Vol - II		Volume 2, Section 4, Clause 4.11 Item 74), page 50	The proposed radio system shall support seamless roaming across all the sites of both the geographies such that all call types are maintained and handed over from site to site without re-establishment of call. i.e. Type 1 Handover in roaming or equivalent (roaming with automatic connection (i.e., automatic registration and authorization) for seamless roaming without re-establishment of call)	The handover types are not described in the APCO P25 standard. Automatic Mobility Management is defined and available with all APCO P25 manufacturers such that a change of site attachment won't require any manual intervention from the user. We request that the Type 1 handover requirement may be changed to "Automatic Mobility/Roaming management".	As per answer provided against Sr. No. - 60.
207	Vol - II		Volume 2, Section 4, Clause 4.11 Item 99), page 55	The system shall provide the OTAP (Over The Air Programming) facility. The dispatcher shall be authorized to define the services, priorities and call rights and update the firmware versions into the system over the air, so that when changes are needed, then there is no need of bringing radio terminals to central location for re-programming.	OTAP - it is vendor specific which won't allow a level playing field for all the reputed TETRA OEM. It is possible to do a dynamic regrouping over the air. Hence request you to amend the requirement accordingly.	As per answer provided against Sr. No. - 66.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
208	Vol - II		Volume 2, Section 4, Clause 4.4 Item 1), Page 12	<p>The successful bidder will be responsible for system performance including a guarantee of radio coverage, installation of base station sites and IP based Communication, district/area wise central Dispatch equipment/consoles, leased line/MPLS connectivity, optimization of the radio infrastructure, integration of proposed Network system with existing CAD application / any new CAD application purchased in future by Gujarat Police, training system users and maintenance personnel, and achieving satisfactory system performance.</p> <p>Additional details on existing CAD: Interconnection possibilities (an example): All dial 100 calls for Ahmedabad city are presently landing at Shahibaug centre and integration will be required between existing CAD and new dispatch application to route the incident forms between them (This is software level integration. Along with this, hardware level integration will also be required to connect existing conventional radios with DTRS Network radios).</p>	<p>The integration of proposed CAD system in this requirement with existing CAD application/ any new CAD application purchased in future by Gujarat police is not spelt out explicitly. Integration parameters are not defined conclusively, Hence we request you to share the detailed information about the existing system/ upcoming CAD System to check the feasibility whether it is possible to integrate with proposed CAD system in this requirement or not. In the absence of the information as required above being provided, the integration requirement with existing CAD system be removed from scope of work.</p>	As per answer provided against Sr. No. - 73.
209	Vol - I		Vol 1, Section 8, Clause 8.20.3, Page 26-29 TQ_5.1	<p>Technical Evaluation Criteria Concurrent SDS/ Status Messages possible to be received during Speech call</p>	<p>APCO P25 gives priority to Critical Voice Calls over Data, and as such the data transmission is parked, momentarily, while Voice is being transmitted. However, the Messages are transferred in almost real time. We request you to remove this requirement for a level playing field to both technologies.</p>	As per answer provided against Sr. No. - 81.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
210	Vol - I		TQ_7.1	Type 1 Handover	The handover types are not described in the APCO P25 standard. Automatic Mobility Management is defined and available with all APCO P25 manufacturers such that a change of site attachment won't require any manual intervention from the user. We request that the Type 1 handover requirement may be changed to "Automatic Mobility/Roaming management".	As per answer provided against Sr. No. - 60.
211	Vol - I		TQ_8.1	Database Query	The DTRS is primarily a Voice Centric secure communication network and the data throughput will not be enough to support Image Push and other database related applications. We would like to request that this be removed to allow focus on building a robust Radio Trunking Network.	As per answer provided against Sr. No. - 62.
212	Vol - I		TQ_9.2	DMO Repeater	DMO Repeater functionality is not defined in APCO, where the Radios are high powered, to have considerable Talk Around range, as compared to low transmitter powers in TETRA Radios. As this feature is limited to TETRA, we request you to remove this, and replace it with a clause where APCO manufacturers can also earn points. As such this is achieved through the Portable Base station which may kindly be accepted.	As per answer provided against Sr. No. - 85.
213	Vol - I		Volume 1, Section No: 7, Clause No: 4, Page No: 12	Prime Bidder should be in business of providing radio or telecommunication infrastructure or wireless service provider or IT/ICT business for a minimum period of 5 years as on publication of bid.	We request you to kindly modify the clause as Prime Bidder or Consortium Partner should be in business of providing radio or telecommunication infrastructure or wireless service provider or IT/ICT business for a minimum period of 5 years as on publication of bid.	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
214	Vol - I		Volume 1, Section No: 7, Clause No: 5, Page No: 12	Prime Bidder should have a minimum average annual turnover of INR 200 Cr in last three financial years i.e. FY 2018-19, FY2017- 18 & FY 2016-17.	We request you to kindly modify the clause as Prime Bidder or Consortium Partner should have a minimum average annual turnover of INR 200 Cr in last three financial years i.e. FY 2018-19, FY2017- 18 & FY 2016-17.	As per answer provided against Sr. No. - 13.
215	Vol - I		Volume 1, Section No: 7, Clause No: 8, Page No: 13	The Prime Bidder should be registered under the Companies Act 1956 and should be in operation in India for a period of at least 5 years as on publication of bid.	We request you to kindly change this clause as The Prime Bidder should be registered under the Companies Act 1956 and should be in operation in India for a period of at least 10 years as on publication of bid.	No change.
216	Vol - I		Volume 1, Section No: 7, Clause No: 6, Page No: 14	Prime Bidder should have a positive net worth and should be a profit making company, as on 31st March 2019.	We request you to kindly modify the clause as Prime Bidder or Consortium Partner should have a positive net worth and should be a profit making company, as on 31st March 2019.	No change.
217	Vol - I		Volume 1, Section No: 8.20.3, Clause No: TQ_1.1, Page No: 27	The bidder should have a minimum average annual turnover of Rs. 200 crores in last three financial years i.e. FY 2018-19, FY 2017-18 & FY 2016-17, FY 2015-16, FY2014-15.	We request you to kindly modify the clause as The bidder or Consortium partner should have a minimum average annual turnover of Rs. 200 crores in last three financial years i.e. FY 2018-19, FY 2017-18 & FY 2016-17, FY 2015-16, FY2014-15	As per answer provided against Sr. No. - 13.
218	Vol - I		Volume 1, Section No: 8.20.3, Clause No: TQ_2.1, Page No: 28	Feature in Fall Back mode – Group Call Yes - 2 Marks No - 0 Mark Feature in Fall Back mode – Individual Call Yes - 2 Marks No - 0 Mark Feature in Fall Back mode – Emergency Call Yes - 2 Marks No - 0 Mark	Group Call ,Individual Call and Emergency Call are basic function. Hence We request to kindly merge these clauses as " Feature in Fall Back mode – Group Call, Individual Call and Emergency Call for better performance. Yes - 2 Marks No - 0 Mark"	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
219	Vol - I			New clause to be added	Authentication is an important security feature. In fallback mode under some accident or attack, it is still able to prevent illegal users from accessing the network and ensure communication security. So please include below "Feature in Fall Back mode - Authentication Yes - 2 Marks No - 0 Marks"	No change.
220	Vol - I		Volume 1, Section No: 8.20.3, Clause No: TQ_2.1, Page No: 29	Fan Module Available - 2 Marks Not available - 0 Marks	We request you to kindly delete this clause. Justification: Different manufacturers have different base station technologies, and the efficiency of their power amplifier and the capability of heat dissipation are not same also. Even some designs do not require a fan. If it mentions redundancy fan, it is not fair for the different design.	No change.
221	Vol - I		Volume 1, Section No: 8.20.3, Clause No: TQ_2.1, Page No: 29	New clause to be added	Kindly add below clause "Both architectures of centralized and distributed should be available." Available - 5 Marks Not available - 0 Marks" Justification: 1.In the key area of big city in which are covered by several base stations, the base stations should have distributed switching capability. As in the event of a failure of switching center, the base stations in the key area can still work as a separate networked. They only can work as single base station model without distributed architecture. 2.For some rural areas, distributed architecture can be deployed without a switching center in order to save network construction cost.	No change.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
222	Vol - I		Volume 1, Section No: 8.20.3, Clause No: TQ_2.1, Page No: 29	New clause to be added	Please add " Connection to PABX available in Base Station. PABX connection in BTS Available - 4 Marks Not available - 0 Marks" Justification: 1.In some base stations, the PABX gateway can be configured to support the user to interconnect with the wired telephone system by different routes (intranet/external network). 2.The PABX gateway is configured for the base stations in the key area. When the switching center is down, the area intercom user still can make single call or group call with the wired telephone system.	No change.
223	Vol - I		Volume 1, Section No: 8.20.3, Clause No: TQ_2.1, Page No: 29	Handheld radio weight Handheld radio weight <= 300 grams (with battery) <= 300 & >= 270 - 1 Marks < 270 grams - 2 Marks	Request you to kindly delete this clause Justification: If the weight of the walkie-talkie is excessively restricted, the better Cost-effective products may be excluded from the selection.	As per answer provided against Sr. No. - 68.
224	Vol - I		Volume 1, Section No: 8.20.3, Clause No: TQ_2.1, Page No: 30	Display screen length size of Handheld radio Handheld radio screen length size > 2 inch - 3 Marks >= 1.5 inch & <= 2 inch - 2 Marks	To accommodate more OEM, kindly modify this clause as, "Display screen length size of Handheld radio Handheld radio screen length size >= 1.8 inch - 3 Marks >= 1.5 inch & < 1.8 inch - 2 Marks" If the screen size is excessively restricted, some better cost-effective products will be excluded from the selection.	As per answer provided against Sr. No. - 163.
225	Vol - I		Volume 1, Section No: 8.20.3, Clause No: TQ_3.1,	Explain the roadmap for LTE	Kindly modify this clause as "Explain the roadmap, products solutions, and case studies for LTE BTS and Terminals "	Ok

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
			Page No: 31			
226	Vol - I		Volume 1, Section No: 8.20.3, Clause No: TQ_3.1, Page No: 31	Future roadmap of convergence with LTE with details of features / services	Kindly modify this clause as " Explain the future roadmap, products & solutions, and case studies of convergence with LTE with details of features / services"	As per answer provided against Sr. No. - 225.
227	Vol - I		Volume 1, Section No: 8.20.3, Clause No: TQ_7.1, Page No: 32	Type 1 Handover Type 1 Handover in roaming Available - 1 Marks Not Available - 0 Marks	To accommodate more OEMs and to have fair and healthy competition, we request you to kindly remove this clause.	As per answer provided against Sr. No. - 60.
228	Vol - I		Vol 1, Section 7, Sr. No. 3, Page 12	Note: One OEM can only bid for one technology	The note is this pre-qualification clause allows one OEM to bid one technology only. However, in Vol 1, Clause 8.7.2 allows one OEM can be member of multiple BIDS as a consortium partner. Please explain if one OEM can do multiple bids with one technology then why cant one OEM with two technologies cannot put multiple bids with both the technologies. Request to correct this clause.	No change.
229	Vol - II			Additional Point	NA	Revised clause (Vol - 2, Section - 4.12, Clause - 4, Sr. No. - 2): Mobile Radio Units with in-built GPS with accuracy up to 50 meters or better for Vehicle tracking
230	Vol - I		Section - 10.2.2, Note - iv	Existing clause: Invoice will be raised only by Prime bidder and payment will be made only to Prime bidder. Invoices will be raised from Gujarat state only.	NA	Revised clause: Invoice will be raised only by Prime bidder and payment will be made only to Prime bidder. Invoices will be raised from Gujarat state only.

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
231	Vol - II	4	Clause 4.12.1) Item 4) 12), page 59	The mobile radio unit shall be sealed against ingress of dust and water to IP65 or higher standard.	<p>The Mobile Radios are installed in Static/Fixed configurations or inside the vehicles and are less susceptible to Ingress of Dust. Hence, mobile radios are generally not available with IP66 rating.</p> <p>We request the IP rating to be reduced to IP56 or better, to allow us to participation.</p> <p>Please confirm.</p>	Mobile radio unit with IP56 or higher standard is allowed.
232	Vol - II	4.6	e	<p>Existing clause (Vol - 2, Section - 4.6, Clause - e): Provide secure communication with e2e encryption Or Air Interface Encryption for mission critical voice and data/images. The system must comply with ETSI EN 302 109 (including latest version) Or ETSI EN 300 392-7 Security Class – 3 Or APCO P25 SOR with Advanced Encryption Standard (AES) with key length of 256 bit. All clauses mentioning this requirement are to be read with this update.</p>	NA	<p>Revised clause (Vol - 2, Section - 4.6, Clause - e): Provide secure communication with e2e encryption and Air Interface Encryption for mission critical voice and data/images as per below. The system must comply with ETSI EN 302 109 (including latest version) along with ETSI EN 300 392-7 Security Class – 3 Or APCO P25 SOR with Advanced Encryption Standard (AES) with key length of 256 bit. All clauses mentioning this requirement are to be read with this update.</p> <p>Revised clause (Vol - 1, Section - 8.20.3, TQ_7.2): E2e Encrypted / air Encrypted radio communication between two or more radios as defined in clause (Vol - 2, Section - 4.6, Clause - e).</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
233	Vol - II	4.9	4(a)	<p>Existing clause (Vol – 2, Section – 4.9, Clause – 4(a)): All electrical & electronics equipment installed at central switching centers, BTS sites etc. are to be earthen by implementing 2 separate earth grids for electrical & electronics components. Each earth grid will have minimum 2 earth pits having arrangement of plate earthing. All metallic objects on the premises that are likely to be energized by electric currents should be effectively grounded. There should be enough space between data and power cabling and there should not be any cross wiring of the two to avoid any interference or corruption of data. Bidder will have to make all required arrangements of earthing including (but not limited to) preparing earthing pits, laying earthing strips from earthing pits to equipment room, laying earthing cables from various equipment to earthing strips in an equipment room etc. Proper earthing will be a responsibility of a bidder, any fault/issue in an electronics due to poor earthing will be bidder's responsibility & bidder will have to bear cost of rectification/replacement of faulty equipment.</p>	NA	<p>Revised clause (Vol – 2, Section – 4.9, Clause – 4(a)): All electrical & electronics equipment installed at central switching centers, BTS sites etc. are to be earthen by implementing 2 separate earth grids for electrical & electronics components. Each earth grid will have minimum 2 earth pits having arrangement of plate earthing to achieve minimum earth value of 1 ohm. All metallic objects on the premises that are likely to be energized by electric currents should be effectively grounded. There should be enough space between data and power cabling and there should not be any cross wiring of the two to avoid any interference or corruption of data. Bidder will have to make all required arrangements of earthing including (but not limited to) preparing earthing pits, laying earthing strips from earthing pits to equipment room, laying earthing cables from various equipment to earthing strips in an equipment room etc. Proper earthing will be a responsibility of a bidder, any fault/issue in an electronics due to poor earthing will be bidder's responsibility & bidder will have to bear cost of rectification/replacement of faulty equipment.</p>

Sr. No.	RFP Volume	RFP Section No.	RFP Clause No.	Content of the RFP requiring clarification / Clause	Clarification Sought / Suggestion	Response
234	Vol - II	4.1	q (i)	Additional point	NA	Additional point for Vol - 2, Section - 4.10, Sr. No. - q (i): Getting untampered call records from NMS/central switch/dispatcher indicating how many calls were initiated in a month, how many got through and how many got failed.
235	Vol - II	4.10	u	Additional point	NA	Additional clause (Vol - 2, Section - 4.10, clause - u): Minimum RSSI (Received Signal Strength Indicator) level of -95 dBm must be received anywhere on road in accessible tile area. It will be measured at all 15 locations where MSR, DAQ & PTT test will be carried out. This RSSI level must be achieved at minimum 14 locations out of 15 tested locations for a tile to be qualified as pass.
236	Vol - II			Additional point	NA	Selected bidder will be responsible to push GPS data (if required in future) in their own format to existing AVLS system on specific server IP address & port. Existing AVLS OEM will have to process that data to display DTRS radios on screen.