

GUJARAT STATE DISASTER MANAGEMENT AUTHORITY (GSDMA)  
EARLY WARNING DISSEMINATION SYSTEM (EWDS)  
NATIONAL CYCLONE RISK MITIGATION PROJECT II (NCRMP-II)

Bid Number: IN-GSDMA-115480-RFB

N Procure Tender ID: 373193

**Date: 23/9/2019**

**Minutes of Meeting Pre-bid Meeting for EWDS**

Name of Work: Selection of System Integrator (SI) for supply, installation, testing and commissioning of Early Warning Dissemination System (EWDS) and Emergency Operations Centers as well as Operation and Maintenance and Annual Maintenance Contract Services under NCRMP-II Project.

**Attendance of the meeting is attached as appendix A**

Pre-Bid meeting for procurement of System Integrator (SI) for supply, installation, testing and commissioning of Early Warning Dissemination System (EWDS) and Emergency Operations Centers as well as Operation and Maintenance and Annual Maintenance Contract Services under NCRMP-II Project was conducted on 3<sup>rd</sup> September 2019 and attended by the officials and bidder's representative mentioned in the Appendix A. At the outset CEO, GSDMA welcomed everybody present for the meeting.


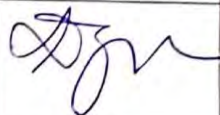

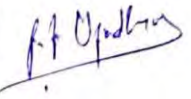
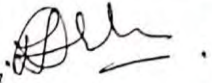

A Brief presentation about the work was presented before the audience. The members representing the bidders were asked to furnish their queries. Replies to the queries are presented in Appendix B and Corrigendum RFB presented in Appendix C.


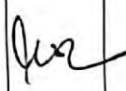

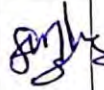




The meeting ended with a vote of thanks.

[Anuradha Mall]  
PS (R&R) & CEO GSDMA

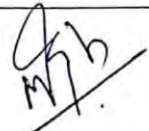




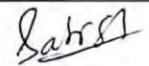
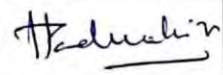
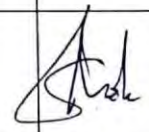
## Appendix A


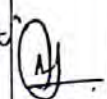
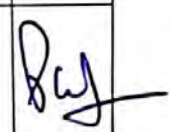

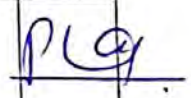
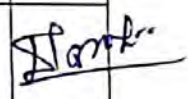
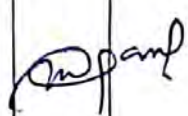
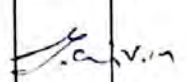
**Attendance Sheet**  
**Pre-Bid Meeting for System Integrator for Early Warning Dissemination System under Component A of NCRMP-II**  
**Date: 03/09/2019**

Sr No	Name	Designation, Email id and Phone Number	Organization	Signatures
1	GAUTAM BANERJEE	gautam.banerjee@outlook.com 8802030903/ <del>CONSULTANT</del>	ALERTUS TECHNOLOGY, USA	
2	B.M. DARJI & SUNESH R. Parmar	General Manager (Projects) darji.ban@adtl.co.in 9428825980	Alpha Design Technology Pvt Ltd	
3	Jijo Jot	Solution Manager	LL7	
4	Pranav Upadhyay	BDM. pranavu@lntec.com.	LL7	
5	Raninder Singh Chauhan	Manager - Network Sales 9212552666	Ekyline Power Solution Pvt. Ltd.	
6	N. SIVAKUMAR	nskumar68@hotmail.com 9833058250	KPMG (KP)	

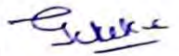

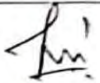

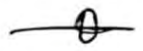



7.	BHAVESH NAGAR	bhaveshnagar@gmail.com 9983272993	KPMG (KP)	
8.	MAYANK SHAH	mayank.shah@allieddigital.net	Allied Digital Services Ltd	
9	Rajam Trivedi.	Rajam.Trivedi@allieddigital.net	Allied Digital Services Ltd	
10	Commander SK RAGHAV	shroghav@solarmarine.lanka.com Cell.no: 9717007589	Solar marine services Pvt. Ltd	
11	Sumit Aggarwal ums/Everbridge	sumit.aggarwal@everbridge.com 9999491400	ums/Everbridge	
12	IMHIR JOSHI SILVER TOUCH TECHNOLOGIES	jimhir@silvertouch.com 9712909159 / 9907461002	Silver Touch Technologies Ltd	
13	Shailendra Ahir AMD India	shailendra.ahir@gmail.com a.ahir.kovl.@gmail.com 9099092242	AMD India Pvt Ltd	
14	Akshat Kinnoo	akshat.kinnoo@mapleleafiopt.com 9668207761	Mapleleaf intelligent Sol. Pvt Ltd.	



15	Madhusudan R. Perisol- Mumbai	mrc Perisol.com 9324223061	Peri Telecom Solutions Pvt Ltd	
16	Vinod Kachra	vinod@silvertouch.com 9879060185	Silver Touch Technologies Limited	
17	Indrajit R. Patil	vinara.solutions@gmail.com 8320754771	Vinara Solutions	
18	Manjil Purohit	manjil.purohit@gmail.com 9898168111 +2	Motadata.	
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23	Anurag Jindal	anurag.jindal@intel.com M- 9229388848.	Intel	
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27	Pranav Trivedi	9978243567 Pranav.trivedi @ Pnapr Enterprise.com	Pnapr Enterprise	
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30	V.M. Gehil	R.B Deptt. under Secretary	R.B	



31	GIRISH Kekre	girishkekre@railtelindia.com 9004444149	RailTel corp. of India L.	
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34	Lalit Lalwansoo	lalbt.lalwansoo@ril.com 7016123477-	RIL - Albal	
35	Vinod Thakor	Vinod1.thakor@ril.com 7016757992	Rabonair Jio	
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37	ASTIK CHOPRA	astikechopra@telecon-systems.com 9818312097	Telecon Systems	
38	RASKUNAR JAISWAL	rajkumar@ycubeholdings.com 0511010888	Ycube	

The following Tender Committee Members attended the meeting

1. Chief Executive Officer, Gujarat State Disaster Management Authority
2. Representative from Roads and Buildings Department
3. Senior Officer, Projects, Gujarat Info Petro Limited
4. Deputy Director, Gujarat State Disaster Management Authority

## Appendix B

### Clarifications to queries raised by the prospective bidders.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
1	Section II – Bid Data Sheet (BDS), Public Opening of Technical Parts of Bid, ITB 46	The Adjudicator proposed by the Employer is: Shri. Pawan Kumar Garg. (Ex-Wireless Adviser to Government of India) The daily fee for this proposed Adjudicator shall be: INR 10,000. INR 10,000 excluding transportation, boarding and lodging	This is seems variable expenditure. We request to revise the same with one time fixed cost inclusive all for the tenure of the project. Thus, it would help bidders to estimate the financial cost.	Clause remains unchanged
2	1.6. Specific additional criteria, Offered product OEM/Authorized Partner/ Service Provider – (Network), Page No. 64	Implementation of at least one (1) project related to: Emergency Operation Centre or Network Operation Centre, LAN, WAN, Internet Services with over 100 WAN Nodes. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted	We request to allow bidders to submit the proof of their own NOC [Network Operation Centre] established for the serving the domestic/global customers and accept the same. Also, request to revise the clause as below. Implementation of at least one (1) project related to: Emergency Operation Centre or Network Operation Centre, LAN, ' <b>WAN OR Internet Services</b> ' with over 100 WAN Nodes. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.	The Clause is modified to as - Implementation of at least one (1) project related to: Emergency Operation Centre/ Network Operation Centre/LAN/ WAN/ Internet Services with over 100 WAN Nodes. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
3	2.3. Financial Situation, 2.3.2 Average Annual Turnover , Page No. 69	Minimum average annual turnover in IT/ Telecom infrastructure services / Disaster management services businesses of INR 200 Cr calculated as total certified payments received for contracts in progress or completed, within the last 3 financial years.	We request to revise the clause as below. Minimum average annual turnover in IT/ICT/ <b>Communications</b> /Telecom infrastructure services / Disaster management services businesses of INR 200 Cr calculated as total certified payments received for contracts in progress or completed, within the last 3 financial years.	The Clause is modified to as - Minimum average annual turnover in IT/ICT/Communications/Telecom infrastructure services / Disaster management services businesses of INR 200 Cr calculated as total certified payments received for contracts in progress or completed, within the last 3 financial years.
4	2.3. Financial Situation, 2.3.3 Financial Resources, Page No. 70	(ii) The bidder and all J.V or consortium partners (where applicable) should be firms with no negative net worth in lastthree years. Certificate from the Chartered Accountant confirming the same shall be enclosed.	We request to relax the clause for the PSU if it has negative net worth.	Clause remains unchanged
5	2.4. Experience, 2.4.1 –a. General Experience, Page No. 71	Experience and proven record in implementing heterogeneous system integration projects, WAN connectivity, network operations center, telecom projects, early warning dissemination system, etc. for at least the last 5 years on the date of submission deadline, and with activity in at least last 1 year. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.	We request to revise the clause as below for the experience as defined general category. Experience and proven record in implementing heterogeneous system integration projects / WAN connectivity / network operations center / telecom projects / early warning dissemination system, etc. for at least the last 5 years on the date of submission deadline, and with activity in at least last 1 year. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.	The clause is modified as - Experience and proven record in implementing heterogeneous system integration projects/ WAN connectivity/ network operations center/ telecom projects/ early warning dissemination system, etc. for at least the last 5 years on the date of submission deadline, and with activity in at least last 1 year. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
6	2.4. Experience, 2.4.2 Specific Experience, Page No. 71	(a) Participation as contractor, joint venture partner <sup>1</sup> , management contractor, or subcontractor, within the last 5 years in (i) two turnkey contracts each of value at least INR 50 Cr. or (ii) one turnkey contract of value of at least INR 80 Cr, that have been successfully and substantially <sup>2</sup> completed and that are similar to the proposed requirements of this project. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section VI, Employer's Requirements or Similar ICT Projects.	<p>We request to consider the experience and qualification of OEM and 'Service Provider' also who may not part of the JV/Consortium. As per the norms given in the RFP for the OEM, OEM are already bounded to provide all the necessary support, equipment during and after the tenure of the project directly/indirectly to the authority of 'Gujarat Disaster Management' department. We request to revise the clause as below.</p> <p>(a) Participation as contractor, joint venture partner<sup>1</sup>, management contractor/ subcontractor, <b>OEM, Service Provider</b> within the last 5 years in (i) two turnkey contracts each of value at least INR 50 Cr. or (ii) one turnkey contract of value of at least INR 80 Cr, that have been successfully and substantially completed and that are similar to the proposed requirements of this project. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section VI, Employer's Requirements or Similar ICT Projects.</p>	clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
7	2.4. Experience, 2.4.2 Specific Experience, Page No. 71 - <b>NOTES</b>	For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder's share, by value, shall be considered to meet this requirement.	<p>We request to revise the clause as below to be in Sync with the above request for the revision to consider the experience and qualification of OEM and 'Service Provider'.</p> <p>For contracts under which the Bidder/Service Provider/OEM participated as a joint venture member or sub-contractor, OEM, 'Service Provider' only the Bidder/OEM/Service Provider's share, by value, shall be considered to meet this requirement.</p>	clause remains unchanged
8	2.4. Experience, 2.4.2 Specific Experience, Page No. 71 - <b>NOTES</b>	In the case of JV, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity. In determining whether the JV meets the requirement of total number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.	<p>We request to revise the clause as below to be in Sync with the above request for the revision to consider the experience and qualification of OEM and 'Service Provider'.</p> <p>In the case of <b>JV/Consortium</b>, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity. In determining whether the <b>JV/Consortium</b> meets the requirement of total number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.</p>	clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
9	2.5. Personnel - Implementation Phase - Project Manager, Page No. 73	Minimum experience of 20 years Project management experience of 5 years MBA, B.E. / B. Tech PMP/ Prince2	We request to revise the clause as below.  Minimum experience of 20 years Project management experience of <b>10</b> years B.E. / B. Tech / Science Graduate *PMP/Prince2 added advantage	clause remains unchanged
10	2.5. Personnel , Operations and Management Phase -Supervisor cum telecom specialist, Page No. 74	Experience of managing EOC for 10 years. MBA, B. Tech (ECE)	We request to revise the clause as below. Experience of managing EOC for 10 years. B. Tech (ECE) / Science Graduate / Diploma in ECE	clause remains unchanged
11	Appendix 4. Time Schedule, Page No. 491	Nine (9) months for project implementation (installation, commissioning and testing)	We request to revise the <b>Project Implementation period up to 15 Months</b> instead of 9 Months considering the geographical locations and Scope of Work.	clause remains unchanged
12	Appendix 1. Terms and Procedures of Payment - Schedule No. 2. Infrastructure and Equipment Supplied from within the Employer's Country - Page No. 484	Ten percent (10%) of the total EXW amount as an advance payment against receipt of invoice, and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer. The advance payment will be adjusted at the time of each invoice processing as mentioned below. Accordingly advance payment security will be reduced in proportion as mentioned below Forty percent (40%) of the total or pro rata EXW amount upon	Ten percent (10%) of the total EXW amount as an advance payment against receipt of invoice, and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer. The advance payment will be adjusted at the time of each invoice processing as mentioned below. Accordingly advance payment security will be reduced in proportion as mentioned below Seventy percent (70%) of the total or pro rata EXW amount upon Incoterm "Ex-Works," upon delivery to the carrier within forty-five (45) days after receipt of invoice and documents.	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		<p>Incoterm “Ex-Works,” upon delivery to the carrier within forty-five (45) days after receipt of invoice and documents.</p> <p>Forty percent (40%) of the total or pro rata EXW amount upon issue of the Completion Certificate, within forty-five (45) days after receipt of invoice.</p> <p>Twenty percent (20%) of the total or pro rata EXW amount upon issue of the Operational Acceptance Certificate, within forty-five (45) days after receipt of invoice after receipt of equivalent Bank Guarantee from Nationalized bank valid till end of warrantee period of 2 years from the date of operational acceptance.</p>	<p>Twenty percent (20%) of the total or pro rata EXW amount upon issue of the Completion Certificate, within forty-five (45) days after receipt of invoice.</p> <p>Ten percent (10%) of the total or pro rata EXW amount upon issue of the Operational Acceptance Certificate, within forty-five (45) days after receipt of invoice after receipt of equivalent Bank Guarantee from Nationalized bank valid till end of warrantee period of 2 years from the date of operational acceptance.</p> <p>The existing payment terms make the cash flows of the project not feasible. Request you to modify the payment terms as suggested to ensure successful execution by the bidders.</p>	
13	Technical Requirements -9.3 / Page 187	Bandwidth allocation, between WAN and the EOC	Please specify Locations	Refer Corrigendum 3
14	Technical Requirements -9.3 / Page 189	Network Management System (NMS)	space and infra facilities, for Network Management Center to be provided by GSDMA	Space at EOCs will be provided by GSDMA. Although associated infrastructure to install and maintain the systems should be supplied and implemented by the bidder.
15	Technical Requirements -9.7 / Page 195	Remote Terminal Unit (RTU)	Please elaborate the Infrastructure requirement at RTU	Refer Section VI 24.4 (i) and (ii) for RTU setup Details



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
16	Note to Bidders - Page 208	Solar Panel at RTU and specification of power at RTU Unites	What are the specification, for SOLAR PANEL to be set up at RTC location	Refer Section VI 14.2 - Indicative specifications of solar panel are on Page number 210
17	Note to Bidders - Page 208	Alarm and Fault Rectification at RTU and EOC	Please elaborate on Scope of Operation and maintenance of RTU	Bidder has to operate and maintain all aspects (Technical and non-Technical ) of the equipment installed at all the locations. RTU equipment and infrastructure should be remotely monitored and onsite repaired/replaced as and when required.
18	Section V - 177	Eligible Countries	Please specify.	This Clause is for exclusion of countries to bid and none of the countries are excluded from bidding.
19			we also request you to extend tender submission date for one more month and also allow MSME to participate in the tender.	Refer Corrigendum 3
20	17.13, 1, 224	Processor: Intel Core i7 or better	Processor: Intel Core i7 or AMD Ryzen 5 or better	The clause is modified as - Processor: Intel Core i7 or AMD Ryzen 5 or better
21	17.13, 4, 224	Video: VGA and/ or HDMI	Video: VGA and/ or HDMI and/ or DP	Clause remains unchanged
22	RFB page no. 195, Point 9.6, Sub point C	"The speaker system power output of Remote Terminal Unit (InU) should be of 600 watts or more."	We wish to submit that for siren, the output should be up to 120 dB at 30 meter as per the FEMA guidelines and is expected to produce 65 dB sound levels at a distance of 1 Km from the siren location.	Clause remains unchanged. The specified minimum power output in the RFP is equivalent to 105.0 dB at 30 meters, which will meet required audio level of 70.0 dB at 1.5 Kilometer radial distance, with normal sensitivity of horn speakers. However, Bidder may offer higher power to ensure 70.0Db audio power at 1.5

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
				KM.
23	RFB page no. 195, Point 9.6, Sub point D	"The proposed Siren Pole and Tower shall be suitable to carry load of 100 KG weight of Horn speakers and associated equipment mounted over them."	We wish to submit that the maximum weight for the horn speakers and associated items should be increased to 250KG.	The Clause remains unchanged. The specification for weight of horn speakers and associated equipment is minimum requirement and is based on data collected from weight of reputed warning system products. Bidder is suggested to estimate the carry load according to his solution design and Equipment
24	RFB page no. 206, Point 14.1, Sub point 2	"Operating system - The Control station should have Windows Operating System (OS) based software which is user Friendly with, Graphical User Interface (GUI) for overall control and status monitoring of all RTUs."	We wish to submit that other operating systems such as Linux should be allowed along with window-based OS	All the workstations are required to have Windows OS. Although different Servers can have any environment suitable in accordance with the solution provided.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
25	RFB page no. 209, Point 14.2, Sub point 4	"RTU - RTU should include high powered audio amplifier compatible to work with the Speaker Horn Array. All the electronic unit i.e. RTU, Communication Interface Card, VSAT modem, Solar power controller and Loudspeaker Audio Power Amplifier with back-up battery should be housed in a IP 65 Stainless Steel Outdoor Cabinet with lock & key arrangement. This cabinet can be kept safely inside nearest government or public building such as the Cyclone Shelter Building or Should be mounted sufficiently high from the ground level on 15-meter tower planned at sea beach etc. so that they are out of reach of mischief makers."	We wish to submit that the cabinet should be "IP 65 weather resistant cabinet with Lock and Key arrangement."	clause remains unchanged. However bidder may propose to keep ruggedised VSAT modem that can withstand harsh weather conditions, outside the IP-65 cabinet.
26	RFB page no. 210, Point 14.2, Sub point 9	"Solar Panel - The Solar Panel shall be rated for 12V and 150-Watt output and should be roof mountable on selected Building for mounting of warning message amplifier I horn system. It shall be responsibility of the bidder to replace the solar panel system at free of cost in case of damage due to natural forces during warranty and AMC period. The Solar Panel	We wish to submit that the solar panel be rated for 12V /24V so that this requirement does not become a limiting factor for some OEM's	The Clause is modified to as - The Solar Panel shall be rated for 12V/24V. Although the UPS should match with the solar panel Provided.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		should be IEC 61215 Ed. 2 and IEC 61730 Safety Class II UL 1703 & 4703 compliant		
27	RFB page no. 210, Point 14.2, Sub point 10	" Solar Battery Bank - The Alert Tower Siren System shall operate from 12 V (nominal) DC obtained from normal 230 V AC mains power Supply or from back-up battery of 12 volts, 150 AH capacity. The storage batteries shall be sealed maintenance free Tubular GEL Vent Regulated Lead Acid (VRLA) type suitable for solar application"	We wish to submit that the solar panel be rated for 12V /24V so that this requirement does not become a limiting factor for some OEM's	Solar Battery Bank should be in accordance with the panel setup. Refer query number 26.
28			As a standard solution we submit the batteries and the electronic equipment should be mandatorily housed in separate boxes in order to enhance the longevity and efficacy of the system	Bidder is required to provide a robust and maintainable design in the proposed system.
29			Further we request you to kindly extend the bid submission date by minimum 27 days from the date of corrigendum in order to enable us to submit the best of the techno-commercial bid in order to meet your requirements & highest expectations.	Refer Corrigendum II



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
30	1.6. Specific additional criteria, Pg-64	OEM/Authorized Partner/ Service Provider – (VSAT) i. He should have been implemented of at least two (2) nos. satellite solutions (VSAT/ Sat Phone etc.) in last 5 years which could be any kind of satellite technology and services costing not less than the amount equal to INR 15 Cr each / per annum. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.	OEM/Authorized Partner/ Service Provider – (VSAT) i. He should have been implemented of at least two (2) nos. satellite solutions (VSAT/ Sat Phone etc.) in last 5 years which could be any kind of satellite technology and services costing not less than the amount equal to INR 15 Cr <b><i>in last 5 years</i></b> . Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted	Clause remain unchanged
31	1.6. Specific additional criteria, Pg-64	ii) He should have spectrum capacity of at least two satellites.	Request for change to " <b><i>capacity from two different satellites</i></b> "	The Clause is modified to as - (ii) He should have spectrum capacity of at least two different satellites.
32	9.7 Remote Terminal Unit (RTU) , Pg 196	VSAT Modem & GSM Modem with SIM Card, which can be controlled remotely through SCADA	VSAT modem can not be controlled by SCADA , Needs to be managed from VSAT HUB service provider . It is requested to remove <b>VSAT Modem</b> from the clause	The Clause is modified to as - VSAT link and GSM modem will be provide connectivity for SCADA for monitoring and control of remote siren system. Audio messages from SEOC will be delivered to siren warning systems via VSAT and GSM network.
33	9.7 Remote Terminal Unit (RTU) , Pg 197	Output of RTU—siren / audio warning through Horn speakers and to VSAT Network	Siren/Audio warning through horn speakers is not applicable to VSAT networks.Request for clarification on VSAT role	The Clause is modified to as - Output of RTU—siren / audio warning through Horn speakers.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
34	Sno. 2,13.2, VSAT Network, Pg 204	"...bandwidth requirements of whole network will be in the range of 3.0 Mbps (1.0 Mbps for SCPC link and 2.0 Mbps for <b>MF-TDMA/DVB link</b> )"	Please modify F-TDMA to MF-TDMA link,	The Clause is modified to as - (1.0 Mbps for SCPC link and 2.0 Mbps for MF-TDMA/DVB link)
35	13.2 VSAT Network -Data capabilities and transmission delay , Pg 204	VSAT at SEOC will operate with Single Channel Per Carrier(SCPC) access technology and will operate at 1.0 Mbps data rate	We understand that the mentioned bandwidth shall be 1:1 duplex bandwidth. Kindly confirm,	The link should be asymmetrical with outward link from SEOC to Hub will be 75kbps and hub to SEOC will be 250kbps.
36	Sno. 2,13.2, VSAT Network, Pg 204	"...so that bandwidth requirements of whole network will be in the range of 3.0 Mbps (1.0 Mbps for SCPC link and 2.0 Mbps for F-TDMA link) "	We kindly recommend 2 Mbps outroute (HUB to remote stations) and 1 Mbps return (Remote to HUB ) bandwidth, which adds to a total of 3 Mbps pool bandwidth. In addition, a backhaul of 1Mbps SCPC duplex link with 2 Mbps terrestrial link is suggested.	Clause remains unchanged and RFP mentions the backhaul of 1mbps and 2 Mbps terrestrial Link.  Inroute will be 1.0 Mbps and outroute will also be 1.0 Mbps. Specifications for terrestrial link and satellite back-up remains unchanged at 2.0 Mbps and 1.0 mbps respectively
37	Sno. 2,13.2, VSAT Network, Pg 205	Antenna Radio Frequency Features c. Mid-band gain : The mid-band gain shall be 35.50 dBi (Rx) and 39.50 dBi (Tx) at C band	<b>Kindly modify the following parameters for more OEM participation.</b> Mid band gain shall be <b>33.2 dBi (Rxi)</b> and <b>36.8 dBi (Tx)</b> at C-Band	Clause remains unchanged
38	Sno. 1,13.2, VSAT Network, Pg 205	i. Ruggedized Outdoor Satellite modem -Input Voltage +24V or +48V DC	It has been mentioned on Pg 199, Section 11.1 Electrical Power, that all active(powered) equipment must operate on, e.g., 220 v +/- 20 v, 50 Hz +/- 2Hz] . Kindly clarify since this will not apply to the modem, and the modem will be	Specifications for input power (220.0 Volts) are for mains or UPS supply. Bidder may opt for any input DC voltage of modem, Please note that VSAT will receive supply either from mains or solar panel based UPS.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
			DC powered and not AC. Also we recommend -48VDC for the input DC voltage	
39	i. List of Systems & Equipment at SEOC, Pg 254	2 Mbps SCPC Link Between VSAT HUB & SEOC	In earlier sections this has been mentioned as 1Mbps SCPC link which we imply as 1 Mbps duplex 1:1 link. Kindly clarify, if the 2 Mbps is a typo and the 1Mbps link still holds.	The link should be asymmetrical with outward link from SEOC to Hub will be 75kbps and hub to SEOC will be 250kbps. Refer query number 36.
40	17, 17.4, Page No. 218	24 10/100 Mbps ports, Managed 10/100 Mbps switch	Suggest to increase the port speed to 10/100/1000, for future consideration and to cope with the bandwidth hungry application with high speed requirement in forthcoming digitization environment, This will protect the investment for next 7 to 10 years.	RFP mentions the minimum requirement and bidder is expected to design and provide appropriate equipment in accordance with the objectives of the project.
41	17, 17.5, Page No. 218		Suggest to increase the port speed to 10/100/1000, for future consideration and to cope with the bandwidth hungry application with high speed requirement in forthcoming digitization environment, This will protect the investment for next 7 to 10 years.	RFP mentions the minimum requirement and bidder is expected to design and provide appropriate equipment in accordance with the objectives of the project.
42	24, 24.1 , item no. 14 24, 24.2 , item no. 6 24, 24.3 , item no. 12	WAN Router with 8 FE Port , 2 GE WAN Port and with 2 Fiber Port 10/100/1000	The RFP doesn't mention detailed specification for the WAN router from the feature perspective that need to be run on router. For optimum sizing of the Wan routers at least baseline features expectation needs to be provided General Specifications are enclosed for your kind consideration.	RFP mentions the minimum requirement and bidder is expected to design and provide appropriate equipment in accordance with the objectives of the project.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
43	16, 16.1	Network Monitoring System (NMS)	<p>As mentioned in RFP the NMS solution must be provided by Telco service provider and defined reports to be shared with client, kindly reconfirm the same.</p> <p>Or do we have to consider the network monitoring solution on prem at client premises.</p> <p>If yes then do we have to consider only WAN edge devices for the NMS purpose</p> <p>Kindly clarify</p>	<p>The RFP Scopes two types of network monitoring VSAT Link Network Monitoring and Other ICT Devices Monitoring. Refer Section VI-16.1 and 16.2.</p> <p>Bidder has to design and propose a solution in accordance with the objectives of the project.</p>
44	17.13 Work Stations with 19 " LED Monitor	Antivirus	<p>We recommend Gartner listed Antivirus and EDR solution for the endpoint devices to safeguard endpoint from any known and unknown zero-day attacks. Please provide the endpoint count and OS type for sizing the solution.</p> <p>General Specifications are enclosed for your kind consideration.</p>	<p>It is expected from bidder to design and deploy a secure system. Antivirus, firewall and other security measures are to be implemented by the bidder.</p>
45	Financial Schedule 2	Firewall & IPS	<p>There are no technical specifications available for these components so please provide the same.</p> <p>General Specifications are enclosed.</p>	<p>It is expected from bidder to design and deploy a secure system. Antivirus, firewall and other security measures are to be implemented by the bidder.</p>



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
46	Suggestion		<p>RFP is quite open and does not offer basic cyber security aspect to the network that you are planning to set up. It is important that these parameters are established to all bidders are on same page. Please consider below.</p> <p>DDOS: This is the entry point for any amplified attack and should be protected, this helps to protect the L3, L4 and L7 attacks.</p> <p>WAF (Web Application Firewall): This helps protect the internet facing web server from L7 attacks.</p> <p>APT: To prevent any Zero day attack it is recommended to have a solution that can analyze any malicious file and activates in a simulated environment.</p> <p>NIPS: The NIPS monitors the entire network for suspicious traffic by analyzing protocol activity</p> <p>General specifications are enclosed.</p>	It is expected from bidder to design and deploy a secure system. Antivirus, firewall and other security measures are to be implemented by the bidder.
47	Suggestion		<p>There is a lot of historical data available from previous cyclones and from external weather forecast data and availability of resources with various departments involved in the disaster management process. EWDS along with data driven analytics would help in achieving many important outcomes We suggest to add Analytics part into this RFP as it can be a crucial while making certain decisions based on Analytics.</p> <p>Detailed brief is enclosed.</p>	Bidder is expected to design the appropriate solution. Refer Appendix to Financial Part Schedule No 3 - Schedule No. 3. Design services - Page 152 and ITB 17.5c.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
48	Page no. 64, Clause 1.6	Offered product OEM/Authorized Partner/ Service Provider – (Alert and Warning System) - He should have implemented of at least two (2) nos. Alert Siren System with minimum 50 locations each for Mass Notification in last 5 years. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.	Change to read: He should have implemented at least two (2) nos. Alert Siren System with a total of 100 locations for Mass Notification in last 5 years. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.	Clause remains unchanged
49	Page no. 195, Point 9.6, Point C.	The speaker system power output of Remote Terminal Unit (RTU) should be of 600 watts or more.	Change to read: produce a minimum of 120db at 30 meters. (This is what is required to provide a 1.0km coverage radius.)	Clause remains unchanged. The specified minimum power output in the RFP is equivalent to 115.0 dB at 30 meters, which will meet required audio level of 70.0 dB at 1.5 Kilometer radial distance, with normal sensitivity of horn speakers. However, Bidder may offer higher power to ensure 70.0Db audio power at 1.5 KM.
50	Page no. 195, Point 9.6, Point D.	The proposed Siren Pole and Tower shall be suitable to carry load of 100 KG weight of Horn speakers and associated equipment mounted over them	Change to read: The proposed Siren Pole and Tower shall be suitable to carry load of the proposed Horn speakers and associated equipment mounted over them.	Refer Query number 23.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
51	Page no. 206, Point 14.1, Point 2. Operating system	Operating system - The Control station should have Windows Operating System (OS) based software which is user friendly with, Graphical User Interface (GUI) for overall control and status monitoring of all RTUs	The Control station should have Windows Operating System (OS) PC based software which is user friendly with, Graphical User Interface (GUI) for overall control and status monitoring of all RTUs.	All the workstations are required to have Windows OS. Although different Servers can have any environment suitable in accordance with the solution provided.
52	Page no. 206, Point 14.1, Point 3. Display	Display - Should be equipped to display the location map of all RTUS & colour coded icons for status of RTU / Alert and Warning Terminal (AWT) locations/sirens. It should also support the ability to display an unlimited number of different map views.	Should be equipped to display the location map of all RTUS & colour coded icons for status of RTU / Alert and Warning Terminal (AWT) locations/sirens. It should also support the ability to display multiple map views.	The clause is modified as - Should be equipped to display the location map of all RTUs & colour coded icons for status of RTU / Alert and Warning Terminal (AWT) locations/sirens. It should also support the ability to display number of different map views as required by the operator.
53	Page no. 209, Point 14.2, Point 4. RTU	RTU - RTU should include high powered audio amplifier compatible to work with the Speaker Horn Array. All the electronic unit i. e. RTU, Communication Interface Card, VSAT modem, Solar power controller and Loudspeaker Audio Power Amplifier with back-up battery should be housed in a IP 65 Stainless Steel Outdoor Cabinet with lock & key arrangement. This cabinet can be kept safely inside nearest government or public building such as the Cyclone Shelter Building or	RTU should include high powered audio amplifier compatible to work with the Speaker Horn Array. All the electronic unit i. e. RTU, Communication Interface Card, VSAT modem, Solar power controller and Loudspeaker Audio Power Amplifier with back-up battery should be housed in a IP 65 /NEMA 4X weather resistant Outdoor Cabinet with lock & key arrangement. This cabinet can be kept safely inside nearest government or public building such as the Cyclone Shelter Building or should be mounted sufficiently high from the ground level on 15-meter tower planned at sea beach etc. so that they are	Refer query no. 25

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		should be mounted sufficiently high from the ground level on 15-meter tower planned at sea beach etc. so that they are out of reach of mischief makers.	out of reach of mischief makers.”	

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
54	Page no. 209, Point 14.2, Point 6. Horn speakers	<p>Horn speakers - Horn speakers 4 units or more per location are to be mounted on towers as specified earlier in this document. Mounting Fixtures are to be provided by the contractor. The audio output power should be at least 300 watts RMS continuous per amplifier (or 600 Watts peak per Siren) or more.</p> <p>Direct-Single-Horn-Replacement must be possible at any time. Horns should be light weight, rugged, weather proof and compact in size and shape. They should be moulded in metallic aluminium finish for long lasting and rust proof even under saline weather conditions.</p> <p>Total weight of horn assembly should normally not exceed 80 kgs. Horns should preferably in rectangular shape and comply with low voltage directive standard EN 60065.</p> <p>Degree of protection for the horns should meet IP 65 specifications for protection against foreign particles such as dust and jets of water. In short, these installations should be ideal for outdoor use. The Loudspeaker cable should be</p>	<p>(this is a complete rewrite. It was written favoring a certain design of siren)</p> <p>Horn speakers are to be mounted on towers as specified earlier in this document.</p> <p>Mounting Fixtures are to be provided by the contractor. The speaker array shall produce a minimum of 120db at 30 meters, providing a coverage radius of 1.0kms</p> <p>Direct-Single-Horn-Replacement must be possible at any time. Horns shall be rugged, weather proof and compact in size and shape. They should be moulded or spun cast aluminium suitable for extended outdoor use in coastal locations. Degree of protection for the horns should meet IP 65 specifications for protection against foreign particles such as dust and jets of water.</p>	Refer query no. 49

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		<p>double insulated to connect with the speaker amplifier. All Speaker cable must be routed inside the mounting pole or covered by metal tube (pipe).in case these are routed outside the tower. The installation must follow best practice and should be away from any potential source of interference such as mains cable, data cable &amp; telecom cable. The horn must also have a “netted” cover to protect against flying insects entering the horn and thereby damaging the horn/ driver.</p>		

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
55	Page no. 209, Point 14.2, Point 9. Solar Panel	<p>Solar Panel - The Solar Panel shall be rated for 12V and 150-Watt output and should be roof mountable on selected Building for mounting of warning message amplifier / horn system.</p> <p>It shall be responsibility of the bidder to replace the solar panel system at free of cost in case of damage due to natural forces during warranty and AMC period. The Solar Panel should be IEC 61215 Ed. 2 and IEC 61730 Safety Class II UL 1703 &amp; 4703 compliant</p>	Add 12V or 24V	Refer query no 26
56	Page no. 209, Point 14.2, Point 10. Solar Battery Bank	<p>Solar Battery Bank - The Alert Tower Siren System shall operate from 12 V (nominal) DC obtained from normal 230 V AC mains power Supply or from back-up battery of 12 volts, 150 AH capacity. The storage batteries shall be sealed maintenance free Tubular GEL Vent Regulated Lead Acid (VRLA) type suitable for solar application</p>	<p>The Alert Tower Siren System shall operate from 12 V or 24 V (nominal) DC obtained from normal 230 V AC mains power Supply or from back-up battery of 12/24 volts, 150 AH capacity. The storage batteries shall be sealed maintenance free Tubular GEL Vent Regulated Lead Acid (VRLA) type suitable for solar application:</p>	Refer query no 27



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
57	Page no. 212, Clause 15.1	Standard management software sends reports/logs via email and SMS to a predefined list of recipients such as management and maintenance personnel, but this is different to Cell Broadcast working through mobile phone carriers.	Please clarify the content of the message to be sent and the mode of transmission of the said messages. Please also clarify if these messages have to be routine or only in case of emergency.	The Operator should be able to send any approved text message to the selected group or individual from the GUI window provided at any time and any number of times.
58	Suggestion	Suggestion	In order to increase the life and efficiency of the system we propose that the batteries and electronics be kept in separate weather resistant cabinets. This condition should be made mandatory in the RFP.	Bidder has to design appropriate solution meeting all the requirements of the RFP in accordance with the objectives of the project.
59	Suggestion	Suggestion	<p>Please also consider deploying the software in a networked environment as this will enable us to</p> <ol style="list-style-type: none"> <li>Log in from any location and monitor the siren systems remotely.</li> <li>Give ease of access to the personnel using the system as they will not have to be physically present in the SEOC/DEOC/TEOC in order to check on the system</li> </ol> <p>Provide the system with an additional level of security as the personnel logging in will be restricted by the access that is given to them by the GSDMA</p>	Suggestion not accepted as this facility is not essential. Redundancy for control already exists in the proposed EWDS design.
60	Page 4, Clause 5 & 6	non-refundable fee of Rs 15,000 (inclusive of tax), from any Nationalized Bank in India	Please Consider Scheduled banks as well	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
61	Page 4, Cluse 9	The bidders are required to submit documents listed below, before the bid submission deadline	Request you to allow submission of hard copy of documents by next day of bid submission to facilitate bidders bidding from rest of the states other than Gujarat	Clause remains unchanged.
62	Page 48,Section II – Bid Data Sheet (BDS),ITB 20.1	The bid security shall be Bank Guarantees from Nationalized Bank located in India	Please Consider Scheduled banks as well	Clause remains unchanged.
63	1.6. Specific additional criteria, Page 64	The Lead Partner should have own registered office presence in Gujarat state to ensure prompt technical and human resource support the team responsible during implementation of the project and during operational phase for 60 months from the date of commissioning. Such establishment should be set-up, if not already existing, within Gujarat, not later than 90 days from the date of signing of contract.	Our registered office is in Hyderabad, and we have a branch office in Gujarat with GST number and entire project implementation will be done by our office in Gujarat. Please ammend this clause, as companies having their registerd office gujarat canot bid as per this clause.	Companies registered in Gujarat can also bid according to RFP.
64	1.6. Specific additional criteria, Clause (e) Page 64, OEM/Service Provider – Qualification conditions ( refer Form EXP- 2.4.2(b)	Offered product OEM/Authorized Partner/ Service Provider – (All)	Please clarify service provider can be a subcontractor, do we need to declare service provider/sub contractors at bidding stage	Yes , although only eligible and approved service provider will be considered. Bidder has to declare and have legal agreement with the service provider/subcontractor.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
65	Page 119	Format for Evidence of Access to or Availability of Cash Flow [To be given from a Nationalized Bank in India-No substitute other than this will be acceptable)]	Request to allow from Scheduled banks as well, Banks will issue letter as per their approved internal format, please allow bidders to submit letter as per banks format	Clause remain unchanged
66	Page 119	Format for Evidence of Access to or Availability of Cash Flow [To be given from a Nationalized Bank in India-No substitute other than this will be acceptable)]	Please Consider Scheduled banks as well	Clause remain unchanged
67	Section VII - General Conditions, Limitation of Liability, 75.1(b), Page No. 408	The aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the amount resulting from the application of the multiplier specified in the PC, to the Contract Price or, if a multiplier is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.	The aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the amount resulting from the application of the multiplier specified in the PC, to the Contract Price or, if a multiplier is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.	Clause remains unchanged
68	Section VII - General Conditions, Termination, 87.1, 42.1.1, Page No. 428	The Employer may at any time terminate the Contract for any reason by giving the Contractor a notice of termination.	We request you to kindly remove the clause or define the reason for termination.	Clause remains unchanged.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
69	Section II – Bid Data Sheet (BDS), Public Opening of Technical Parts of Bid, ITB 46	The Adjudicator proposed by the Employer is: Shri. Pawan Kumar Garg. (Ex-Wireless Adviser to Government of India) The daily fee for this proposed Adjudicator shall be: INR 10,000. INR 10,000 excluding transportation, boarding and lodging	This is seems variable expenditure. We request to revise the same with one time fixed cost inclusive all for the tenure of the project. Thus, it would help bidders to estimate the financial cost.	Clause remains unchanged. The bidder has to estimate for these small expenses.
70	1.6. Specific additional criteria, Offered product OEM/Authorized Partner/ Service Provider – (Network), Page No. 64	Implementation of at least one (1) project related to: Emergency Operation Centre or Network Operation Centre, LAN, WAN, Internet Services with over 100 WAN Nodes. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted	We request to allow bidders to submit the proof of their own NOC [Network Operation Centre] established for the serving the domestic/global customers and accept the same. Also, request to revise the clause as below. Implementation of at least one (1) project related to: Emergency Operation Centre or Network Operation Centre, LAN, ' <b>WAN OR Internet Services</b> ' with over 100 WAN Nodes. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.	Refer query no. 2
71	2.3. Financial Situation, 2.3.3 Financial Resources, Page No. 70	(ii) The bidder and all J.V or consortium partners (where applicable) should be firms with no negative net worth in last three years. Certificate from the Chartered Accountant confirming the same shall be enclosed.	We request to relax the clause for the PSU if it has negative net worth.	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
72	2.4. Experience, 2.4.2 Specific Experience, Page No. 71	<p>(a) Participation as contractor, joint venture partner<sup>1</sup>, management contractor, or subcontractor, within the last 5 years in (i) two turnkey contracts each of value at least INR 50 Cr. or (ii) one turnkey contract of value of at least INR 80 Cr, that have been successfully and substantially<sup>2</sup> completed and that are similar to the proposed requirements of this project. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section VI, Employer's Requirements or Similar ICT Projects.</p>	<p>We request to consider the experience and qualification of OEM and 'Service Provider' also who may not part of the JV/Consortium. As per the norms given in the RFP for the OEM, OEM are already bounded to provide all the necessary support, equipment during and after the tenure of the project directly/indirectly to the authority of 'Gujarat Disaster Management' department. We request to revise the clause as below.</p> <p>(a) Participation as contractor, joint venture partner<sup>1</sup>, management contractor/ subcontractor, <b>OEM, Service Provider</b> within the last 5 years in (i) two turnkey contracts each of value at least INR 50 Cr. or (ii) one turnkey contract of value of at least INR 80 Cr, that have been successfully and substantially completed and that are similar to the proposed requirements of this project. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section VI, Employer's Requirements or Similar ICT Projects.</p>	Clause remains unchanged.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
73	2.4. Experience, 2.4.2 Specific Experience, Page No. 71 - <b>NOTES</b>	For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder's share, by value, shall be considered to meet this requirement.	<p>We request to revise the clause as below to be in Sync with the above request for the revision to consider the experience and qualification of OEM and 'Service Provider'.</p> <p>For contracts under which the Bidder/Service Provider/OEM participated as a joint venture member or sub-contractor, OEM, 'Service Provider' only the Bidder/OEM/Service Provider's share, by value, shall be considered to meet this requirement.</p>	Clause remains unchanged
74	2.4. Experience, 2.4.2 Specific Experience, Page No. 71 - <b>NOTES</b>	In the case of JV, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity. In determining whether the JV meets the requirement of total number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.	<p>We request to revise the clause as below to be in Sync with the above request for the revision to consider the experience and qualification of OEM and 'Service Provider'.</p> <p>In the case of <b>JV/Consortium</b>, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity. In determining whether the <b>JV/Consortium</b> meets the requirement of total number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.</p>	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
75	2.5. Personnel - Implementation Phase - Project Manager, Page No. 73	Minimum experience of 20 years Project management experience of 5 years MBA, B.E. / B. Tech PMP/ Prince2	We request to revise the clause as below.  Minimum experience of 20 years Project management experience of <b>10</b> years B.E. / B. Tech / Science Graduate *PMP/Prince2 added advantage	Clause remains unchanged
76	2.5. Personnel , Operations and Management Phase -Supervisor cum telecom specialist, Page No. 74	Experience of managing EOC for 10 years. MBA, B. Tech (ECE)	We request to revise the clause as below. Experience of managing EOC for 10 years. B. Tech (ECE) / Science Graduate / Diploma in ECE	Clause remains unchanged
77	S. No 2 - Refer 9.6 Alert Siren System on Page 195, Clause Point D.		Submission: We request you to kindly change it to be read as - The proposed Siren Pole and Tower shall be suitable to carry load of the proposed horn speakers and associated equipment mounted over them.	the minimum requirement is to bear 100Kg carry load . Although bidder has to design according to his carry load requirement if it is above 100KG.
78	S. No 4 – Refer Point 3 i.e. Display, Page No 206 of sub clause 14.1 (3)		Submission – We request to kindly change it be read as - Should be equipped to display the location map of all RTUS and colour coded icons for status of RTU / Alert and warning terminal (AWT) locations / sirens. It should also support the ability to display multiple map views.	Refer Query number 52.



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
79	S. No 5 – Refer Clause No 14.2, Page No 209 Remote Terminal Unit with IP65 Steel cabinet, point 6.		<p>Submission: We request you to kindly change it to be read as - Horn speakers are to be mounted on towers as specified earlier in this document. The mounting fixtures are to be provided by the contractor. The speaker array shall produce a 120 db at 30 meters in order to provide a minimum 1 km coverage radius.</p> <p>Direct-Single-Horn-Replacement must/should be possible at any time. Horns shall be rugged, weather proof and compact in size and shape. They should be moulded or spun cast aluminium suitable for extended outdoor use in coastal locations. Degree of protection for the horns should meet IP 65 specifications for protection against foreign particles such as dust and jets of water.</p>	Bidder has to suggest his design to meet the objectives of the project. The horn design should meet the weather conditions and work properly at the time of disaster. No change in the RFP clause.
80	S. No 6 – Refer Clause 14.2, Page No 210 Remote Terminal Unit with IP65 Steel cabinet, point no 9. i.e. Solar Panel		Submission: We request you to change it to be read as – The solar panel shall be rated for 12V or 24V and should be roof mountable on selected building for mounting of warning message amplifier / horn systems.	Refer Query number 26

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
81	S. No 7 – Refer 14.2 Page No 210 Remote Terminal Unit with IP65 Steel cabinet, point no 10. i.e. Solar battery bank.		Submission: We request you to you to change it to be read as - The Alert Tower Siren System shall operate from 12 V or 24 V (nominal) DC obtained from normal 230 V AC mains power Supply or from back-up battery of 12/24 volts, 150 AH capacity. The storage batteries shall be sealed maintenance free Tubular GEL Vent Regulated Lead Acid (VRLA) type suitable for solar application:	Refer query number 27
82	Section - II - ITB 4.1, Page - 46	2. Maximum number of partners in the Joint Venture (JV / Consortium) shall be: 4 (Lead partner + 3)	We request you to change the clause as following:  2. Maximum number of partners in the Joint Venture (JV / Consortium) shall be: <b>2 (Lead partner + 1)</b>	Clause remains unchanged
83	Section IV Average Annual Turnover Form FIN – 3.2 Page 117 Section 2.3.2 Average Annual Turnover Page 69	Annual turnover data (construction only)** 2.3.2 Average Annual Turnover	The PQ criteria mentioned in 2.3.2 Average Annual Turnover is related to IT/Telecom infrastructure services/ Disaster management services but the Form FIN- 3.2 is referring to "construction only". Hence, we request you to kindly amend the clause as mentioned below: Annual turnover data ( <b>IT/Telecom infrastructure services/ Disaster management services</b> ) **	The clause is modified to as - "Annual turnover data (IT/ICT/Communications/Telecom infrastructure services / Disaster management services businesses)"

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
84	Section IV Letter of Bid – Technical Part Page 82	(m) Adjudicator: We accept the appointment of [insert name proposed in Bid Data Sheet] as the Adjudicator. [or] We do not accept the appointment of [insert name proposed in Bid Data Sheet] as the Adjudicator, and propose instead that [insert name] be appointed <sup>6</sup> as Adjudicator, whose daily fees and biographical data are attached.	We request you to kindly delete this clause or kindly allow System Integrator to provide the details of the proposed adjudicator after award of contract.	Clause remains unchanged
85	Section IV Appendix to Technical Part - 31 Form of Bid Security (Bank Guarantee) Page 129	WHEREAS, _____ [name of Bidder] (hereinafter called "the Bidder") has submitted his Bid dated _____ [date] or will submit his Bid for the execution of _____ [name of Contract] (hereinafter called "the Bid") under Invitations for Bids No.....[insert number] (hereinafter called "the IFB")	Kindly amend the clause as mentioned below: WHEREAS, _____ [name of Bidder] (hereinafter called "the Bidder") has submitted his Bid dated _____ [date] <b>or will submit his Bid</b> for the execution of _____ [name of Contract] (hereinafter called "the Bid") under Invitations for Bids No.....[insert number] (hereinafter called "the IFB")	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
86	Section IV Appendix to Technical Part - 31 Form of Bid Security (Bank Guarantee) Page 130	This Guarantee will remains in force up to and including the date _____ days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.	Kindly amend the clause as mentioned below: This Guarantee will remains in force up to and including the _____ days after the deadline for submission of Bids i.e. upto _____ (date) as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.	Clause remains unchanged
87	Particular Conditions PC 8. Time for Commencement and Completion Page 461	The Time for Completion of the whole of the Facilities shall be 66 months (9 months for supply, installation, testing and commissioning; 24 months for warranty and Operation and Maintenance, 36 months Annual Maintenance Contract period) from the Effective Date as described in the Contract Agreement.	We understand 66 months is typographical error. The Time for Completion of the whole of the Facilities shall be <b>69 months</b> (9 months for supply, installation, testing and commissioning + 24 months for warranty and Operation and Maintenance + 36 months Annual Maintenance Contract period) from the Effective Date as described in the Contract Agreement.	The Clause is modified to as - The Time for Completion of the whole of the Facilities shall be 69 months (9 months for supply, installation, testing and commissioning; 24 months for warranty and Operation and Maintenance, 36 months Annual Maintenance Contract period) from the Effective Date as described in the Contract Agreement.
88	10. Power Supply System Page 198	The purchaser will provide mains supply sources at all EOCs as well as siren locations. However, the SI will have to provide last mile extension to EOC and Siren locations from nearest mains supply point.	We understand that electricity one time charges and recurring charges during Implementation shall be in the scope of purchaser. Kindly confirm.	As the power consumption depends upon the design and ultimately installed equipment by the bidder. Installation and maintenance including power is in the scope of bidder.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
89	10. Power Supply System Page 198	The purchaser will provide mains supply sources at all EOCs as well as siren locations. However, the SI will have to provide last mile extension to EOC and Siren locations from nearest mains supply point.	We understand that electricity recurring charges during O&M (2 Years) & AMC (3 Years) shall be in the scope of purchaser. Kindly confirm.	As the power consumption depends upon the design and ultimately installed equipment by the bidder. Installation and maintenance including power is in the scope of bidder.
90	General	Recurring Charges for Electricity	If electricity recurring charges to be bear by bidder during implementation and O&M, Kindly include Recurring Charges for Electricity in the financial bid for equal evaluation of all bidders	Refer Corrigendum 3
91	Section VI Clause 28.2 10. Water Extraction/ Use Page 275	Water for construction and for use at construction camps (including labour camps) is to be extracted with prior written permission of § The individual owner, in case the source is private well/tube well; § Gram Panchayat in case the source belongs to community; and § Irrigation Department in case the source is an river canal etc.	We request you to modify the clause as: Water for construction and for use at construction camps (including labour camps) is to be extracted with prior written permission of · The individual owner, in case the source is private well/tubewell; · Gram Panchayat in case the source belongs to community; and · Irrigation Department in case the source is an river canal etc.  <b>All necessary approvals will be provided by the Employer.</b>	All permissions are to be obtained by the bidder. Employer will extend all possible help to the bidder for this purpose. However the bidder has ultimate responsibility to obtain such permissions.
92	General	RI ( Re- Instatement)	We understand that RI (Re-Instatement) charges shall be in the scope of purchaser. Kindly confirm.	There is no reference to this query in the RFP document
93	General	Warehouse	We understand that warehouse required for storage for the materials shall be arranged by the customer. Kindly confirm.	No. Warehouse and security of items is the responsibility of the bidder.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
94	General	BOCW Tax	We understand BOCW tax has to be included in Bid price. Please confirm.	Please refer price bid for column ' Other Applicable Taxes and Duties '
95	9.3 Bandwidth on GSWAN & Internet Page 187	The bidder needs to procure the bandwidth with Internet Service Provider. GSDMA will sign the contract with ISP for the bandwidth.	We request you to provide Tripartite Agreement format for Bandwidth.	The agreement format is to be obtained from Internet Service Provider. Final terms of agreement will be decided with mutual consent between service provider and GSDMA.
96	9.3 Bandwidth on GSWAN & Internet Page 188	Scope of Work in respect of Internet bandwidth links: e. The bidder shall provide the complete details about the last mile connectivity being offered for the identified above locations. f. The bidder shall propose fully resilient and self-healing network architecture for all the above-mentioned links including last mile connectivity.	As most of the locations are coming on the coastal belt, most of the service providers donot have the feasibility and coverage, hence we request dept to keep bandwidth in their scope.	The System Integrator has the responsibility to manage all the service providers and maintain the functional guarantees mentioned in the RFP.
97	Section IV Appendix to Financial Part Page 156	Schedule 5 - 2. Bandwidth	As per TRAI regulations, bidders are not supposed to sell bandwidth hence we understand that bidder, purchaser and ISP shall form a Tripartite agreement and purchaser shall be paying the bandwidth charges directly to the ISP. Kindly confirm our understanding.	YES - Purchaser will be paying for bandwidth charges directly to ISP but bidder has to provide the costing and will be responsible for all the associated invoicing, maintenance and SLAs.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
98	Section IV Appendix to Financial Part Page 156	Schedule 5 - 2. Bandwidth Schedule 6	Bandwidth line item is not available in the AMC schedule 6. We understand that the bandwidth charges for year 3, year 4, year 5 of AMC Period shall be in the scope of purchaser. Kindly confirm. Or else Kindly add bandwidth line item in the schedule for equal evaluation of the bidders.	Bandwidth charges will be directly paid by the purchaser (GSDMA) to TSP
99	Section VI 2. Regulatory Permissions and Consents Page 291	The System Integrator shall obtain all requisite statutory clearances prior to commencement of civil and or electrical works, which includes obtaining permissions/consents for setting-up construction camp; plants and equipment; borrow areas if necessary.	We request you to modify the clause as:  The <b>Employer</b> shall obtain all requisite statutory clearances prior to commencement of civil and or electrical works, which includes obtaining permissions/consents for setting-up construction camp; plants and equipment; borrow areas if necessary. The cost incurred in obtaining necessary Right of Way (RoW) along with cost of digging, refilling and reinstating shall be reimbursed on actuals on giving necessary/relevant documents. In case of any delay ROW permission, it will not be calculated for liquidated damages and relevant time extension will be provisioned.	Clause remains unchanged. All permissions are to be obtained by the bidder. Employer shall extend all possible help to the bidder for this purpose. However, the bidder has ultimate responsibility to obtain such permissions.
100	Section VI 3. Consultation and Community Consent Page 291	The System Integrator shall consult and obtain written consents of landowners (individual/panchayat/govt. agency) for temporary use of land for all construction related activities	We request you to modify the clause as: The <b>Employer</b> shall provide <b><u>No objection Certificate</u></b> from landowners (individual/panchayat/village/govt. agency) for temporary use of land for all construction related activities	Clause remains unchanged



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
101	Section VI 18. Liabilities Page 297	Any liability arising out of System Integrator's agreement with landowners/ local people/gram panchayat (including those related to temporary use of land, water extraction and disposal of debris) shall be settled by the System Integrator.	We request you to Kindly delete the clause or modify the clause as: Any liability arising out of <b>Employer's</b> agreement with landowners/ local people/gram panchayat (including those related to temporary use of land, water extraction and disposal of debris) shall be settled by the <b>Employer</b> .	Clause remains unchanged
102	Section VII 30. Limitation of Liability Page 408	30. Limitation of Liability	We request you to consider Limitation of liability limited to 50% of contract value.	Clause remains unchanged
103	Section III Infrastructure performance targets Page 60	b. Calculation of system availability:	We request you to kindly exclude theft of material, power outage, bandwidth downtime or any other failure not attributable to bidder from SLA downtime and System availability calculation.	Clause remains unchanged
104	Section I 11. Documents Comprising the Bid Page 19  Section IV Appendix to Technical Part - 13 Proposed Subcontractors for Major Items Page 97	11.2 (i) List of subcontractors, in accordance with ITB 16.2, and a letter of intent between the parties confirming their participation;  [Note: Reference ITB 11, (a) Manufacturer's Authorization; and (b) Subcontractor Agreement or a letter of intent between the parties to enter into a Subcontractor Agreement are to be submitted along with the bid for major items of supply and services]	Kindly modify the clause as: [Note: Reference ITB 11, (a) Manufacturer's Authorization; and <b>or</b> (b) Subcontractor Agreement or a letter of intent between the parties to enter into a Subcontractor Agreement are to be submitted along with the bid for major items of supply and services]	In the absence of subcontracting, manufacturer's authorization will suffice. In all other conditions involving subcontracting of any kind, Clause remains unchanged.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
105	Section VII 10. Employer's Responsibilities Page 367	10.3 The Employer shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located which (a) such authorities or undertakings require the Employer to obtain in the Employer's name, (b) are necessary for the execution of the Contract, including those required for the performance by both the Contractor and the Employer of their respective obligations under the Contract, and (c) are specified in the Appendix (Scope of Works and Supply by the Employer).	We understand that the employer shall acquire and pay for the cost involved for the following till the project period: 1. WPC (Wireless Public cell) licences 2. Frequencies required for operation of handsets along with no. of radio equipment 3. Yearly fee charged under royalty 4. All type of statutory clearances	The assumption is correct. However SI will ensure that all applications for permission from statutory authorities are submitted and will be responsible to follow-up to get all regulatory clearances in required time frame. This clause is applicable only to the permits where It is required to be obtained on Employer's name.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
106	Section VII 67.6 Emergency Work Page 393	If the Contractor is unable or unwilling to do such work immediately, the Employer may do or cause such work to be done as the Employer may determine is necessary in order to prevent damage to the Facilities. In such event the Employer shall, as soon as practicable after the occurrence of any such emergency, notify the Contractor in writing of such emergency, the work done and the reasons therefor. If the work done or caused to be done by the Employer is work that the Contractor was liable to do at its own expense under the Contract, the reasonable costs incurred by the Employer in connection therewith shall be paid by the Contractor to the Employer. Otherwise, the cost of such remedial work shall be borne by the Employer.	We request you to kindly note that the Contractor cannot be held liable for the costs of such Emergency Works. Only if the need for Emergency Works is due to a direct fault of the contractor, the differential costs of the works can be a liability of the contractor. Please confirm.	Clause remains unchanged - Employer shall bear the cost of any work carried out only in cases where contractor was not liable / responsible to undertake it under the conditions of contract
107	Section VII 42. Termination Page 428	87.1 Termination for Employer's Convenience	We request you to kindly delete this clause.	Clause remains unchanged
108	Section VII 42. Termination Page 428	87.1 Termination for Employer's Convenience	Since the contractor would have already placed order, bought inventory etc. Therefore, the employer shall reimburse the losses occurred to the contractor as a result of the termination of contract due to the employer's convenience and not a	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
			reason attributable to contractor. Kindly confirm.	
109	Section VII 42. Termination Page 428	87.1 Termination for Employer's Convenience	We request you to kindly note that the Employer shall be liable to return all Securities furnished by the contractor intact and the bidder shall be paid in full basis for the work completed.	Clause remains unchanged.
110	Section VII 42. Termination Page 428	42.2 Termination for Contractor's Default  then the Employer may, without prejudice to any other rights it may possess under the Contract, give a notice to the Contractor stating the nature of the default and requiring the Contractor to remedy the same. If the Contractor fails to remedy or to take steps to remedy the same within fourteen (14) days of its receipt of such notice, then the Employer may terminate the Contract forthwith by giving a notice of termination to the Contractor that refers to this GC Sub-Clause 42.2	We request you to kindly provide minimum 3 months notice of termination.	Clause remains unchanged.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
111	General	SEOC, DEOC, TEOC, FLC, Tourist Beaches, Salt Pans, Vulnerable villages	We request you to clarify that any Building interior works at these locations of SEOC, DEOC, TEOC, FLC, Tourist Beaches, Salt Pans, Vulnerable villages shall not be in scope of contractor. Kindly confirm.	Refer Section VI - Clause 24 - EOC configuration. Interior work at all EOCs, such as furniture, air conditioning, electrical switches and distribution, LAN wiring, earthing etc. is specified in the RFP document. No interior work except electrical wiring and earthing is essential at Multi Purpose Cyclone Shelters (MPCS) FLC, Salt Pans and Vulnerable villages. Refer 24.4 for Vulnerable Location configuration details.
112	Section VI 9.6 Alert Siren System: Page 194	A Galvanised Iron pipe of 7.0-meter height and suitable thickness to be installed on suitable government buildings wherever these are available at proposed locations.	We request you to provide the building stability report where the rooftop pole has to be erected.	Building on which poles are to be erected is reviewed by the team of civil experts and bidder is required to analyses the building before installing the equipment.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
113	Section VII 11. Contract Price Page 368  Section IV Appendix to Financial Part Page 151	<p>11.2 Unless an adjustment clause is provided for in the PC, the Contract Price shall be a firm lump sum not subject to any alteration, except in the event of a Change in the Facilities or as otherwise provided in the Contract.</p> <p>NOTE: The equipment &amp; quantities mentioned in the table are indicative and meant for bid evaluation purposes only. The System Integrator is required to provide complete solution with all necessary materials &amp; accessories to meet the functional requirements. Price bid equipment &amp; quantities are based on the employer's estimation, these quantities are the basis of financial evaluation and finalizing the contract amount, however at the time of implementation of contract if any variation is required, variation may be approved by GSDMA.</p>	<p>Since the equipment &amp; quantities mentioned in the price schedule are indicative, we request you to confirm that the quantity can vary upto a maximum of +/- 10%.</p> <p>Also, Since contract price is firm lumpsum. we request you to confirm that any variation in the quantity shall be paid extra on unit price basis.</p>	<p>Price bid quantities are based on the employer's estimation, these quantities are the basis for financial evaluation and finalizing the contract amount, however at the time of implementation of contract if any variation in Scope/Quantities is required, variation may be approved by GSDMA and variation may be mutually agreed in writing through the Addendum to the contract.</p>

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
114	Section VIII PC 14 Taxes and Duties Page 464  Section VIII PC 36 Change in Laws and Regulations Page 472	Further, no adjustment of the Contract Price shall be made on account of variation in deemed export benefits.”  Further, no adjustment of the Contract Price shall be made on account of variation in deemed export benefits.”	As deemed export benefits is not in control of bidder and can change from time to time. Therefore, we request that the employer shall be liable to make adjustment in the contract price due to variation in deemed export benefits.	This is not applicable for the current tender.
115	Section VIII PC 27. Defect Liability Page 470	PC 27.8 – If the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Employer because of any of the aforesaid reasons.	Since penalty will be applicable in case Facilities or any part thereof cannot be used by reason of such defect. Therefore the extension of the Defect Liability Period of the Facilities or such part, as the case may be, is not acceptable. We request you to kindly delete this clause.	Clause remains unchanged.



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
116	Section VIII PC 27. Defect Liability Page 470	PC 27.8 - Upon correction of the defects in the Facilities or any part thereof by repair/replacement, such repair/replacement shall have the Defect Liability Period extended by a period of twelve (12) months from the time such replacement/repair of the facilities or any part thereof	<p>Extension of Defect liability period in case of replacement is acceptable. However, extension of defect liability period in case of repair is not acceptable. We request you to change the clause as following:</p> <p>Upon correction of the defects in the Facilities or any part thereof by replacement, such replacement shall have the Defect Liability Period extended by a period of twelve (12) months from the time such replacement of the facilities or any part thereof. However, in case of repair, contractor shall ensure the working of the system for a long period with out any extension of defect liability period. In case of multiple faults, contractor shall replace the part with the spare parts. The contractor shall maintain the overall defect liability period of 2 years.</p>	Clause remains unchanged.
117	Section VIII PC 28 Functional Guarantees Page 471	If the Contractor eventually fails to meet the minimum level of Functional Guarantees, the Employer may consider termination of the Contract, pursuant to GC Sub-Clause 42.2.2. and recover the payments already made to the Contractor	<p>We request you to kindly amend the clause as following:</p> <p>If the Contractor eventually fails to meet the minimum level of Functional Guarantees, the Employer may consider termination of the Contract, pursuant to GC Sub-Clause 42.2.2 <b>and recover the payments already made to the Contractor.</b></p>	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
118	Section VII 58.2 Advance Payment Security Page 370  Section VII Appendix 1. Terms and Procedures of Payment Page 484	13.2.1 The Contractor shall, within twenty-eight (28) days of the notification of contract award, provide a security in an amount equal to the advance payment calculated in accordance with the Appendix to the Contract Agreement titled Terms and Procedures of Payment, and in the same currency or currencies. Appendix 1. Terms and Procedures of Payment	We understand that contractor shall provide separate Advance Payment Security for advance payment under - Schedule 2: Infrastructure and Equipment Supplied from within the Employer's Country Schedule 3: Design Services Schedule No. 4. Installation Services Kindly confirm.	Bidder has to provide three securities Advance Security against advance provided. Performance Security - 8% and ESHS performance security 2% of contract value.
119	Section VII, VIII GC 13. Securities PC 13. Securities Page 370,462	ESHS Performance Security	Please provide the ESHS Performance security Validity period.	Refer Clause 13.3.3 on page 371 of RFP.
120	Section VII 20. Design and Engineering Page 382	20.3.5 If any dispute or difference occurs between the Employer and the Contractor in connection with or arising out of the disapproval by the Project Manager of any document and/or any modification(s) thereto that cannot be settled between the Parties within a reasonable period, then such dispute or difference may be referred to an Adjudicator for determination in accordance with GC Sub-Clause 46.3 hereof. If such dispute or difference is referred to an	We request you to modify the clause as: If any dispute arises out of the contract with regard to the interpretation, meaning and breach of the terms of the contract, the matter shall be referred by the bidder to a panel of 3 arbitrators where One arbitrator will be from each party and a 3rd arbitrator, who shall be the presiding arbitrator, by the two arbitrators	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		Adjudicator, the Project Manager shall give instructions as to whether and if so, how, performance of the Contract is to proceed.		
121	Section VII 43. Assignment Page 436	43.1 Neither the Employer nor the Contractor shall, without the express prior written consent of the other Party, which consent shall not be unreasonably withheld, assign to any third Party the Contract or any part thereof, or any right, benefit, obligation or interest therein or thereunder, except that the Contractor shall be entitled to assign either absolutely or by way of charge any monies due and payable to it or that may become due and payable to it under the Contract.	In order to have better working capital for the project we propose an Assignment clause as below to be included in the Payment Schedule, which shall allow us to factor the bill with financing institution, and therefore enable us to participate in the Tender. Assignment Clause (new Clause proposed) : “The Contractor shall not, without the express prior written consent of the Employer, assign to any third party the Contract or any part thereof, or any right, benefit, obligation or interest therein or there under, except that the Contractor shall be entitled to assign either absolutely or by way of charge any monies due and payable to it or that may become due and payable to it under the Contract to any Financial Institution(s) or Bank(s) or NBFC(s). In the event the Contractor assigns the monies due and payable to it or that may become due and payable to it, under the Contract, to any Financial Institution(s) or Bank(s) or NBFC(s), the Employer shall acknowledge the intimation letter it may receive from such financial institution(s) or Bank(s) or NBFC (s). If	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
			the Employer does not reply within 15 days of the receipt of the intimation letter, it can be considered as “acknowledged by the Employer”. Furthermore the Employer will provide an indicative date by when the funds will be released to the Contractor as a measure of comfort for the decisions of Financial Institution(s) or Bank(s) or NBFC(s)”.	
122	Section VI 22. Testing and Quality Assurance Requirements Page 242	22. Testing and Quality Assurance Requirements	We understand all the expenditures towards inspection of the equipment at vendor factories by the employer representative or any third party engage by employer will be borne by the employer. Kindly confirm.	
123	Section IV Appendix to Technical Part - 31 Form of Bid Security (Bank Guarantee) Page 130	This Guarantee will remains in force up to and including the date _____ days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.	We request you to modify the clause as: This Guarantee will remains in force up to and including the date _____ days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date	The Clause remains unchanged.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
124	Section VII 30. Limitation of Liability Page 408	30.1 (a) neither Party shall be liable to the other Party, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, which may be suffered by the other Party in connection with the Contract, other than specifically provided as any obligation of the Party in the Contract,	We request you to modify the clause as: neither Party shall be liable to the other Party, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, which may be suffered by the other Party in connection with the Contract.	The Clause remains unchanged.
125	Section VI 20. Technical support manpower requirements Page 239  Section III 2.5 Personnel Page 74  Section IV Schedule No. 5 Page 163  Section IV Schedule No. 6 Page 170	Bidder is required to deploy the following manpower for day to day operations for a period of two years after successful commissioning of the project. Bidder is required to also quote for manpower for following 3 years (3 to 5 years after commissioning) for support.  Operations and Management Phase  4. Manpower at SEOC, DEOCs & TEOCs  3. Manpower at SEOC, DEOCs & TEOCs	The manpower listed in Clause 2.5 Personnel is available in O&M Schedule No. 5. The manpower listed in Clause 20. Technical support manpower requirements is available in AMC Schedule No. 6.  Therefore, we request you to modify the clause in 20. Technical support manpower requirements as following.  Bidder is required to deploy the following manpower for day to day operations for a period of <b>two years after successful commissioning of the project. Bidder is required to also quote for manpower for following 3 years (3 to 5 years after commissioning) for AMC support.</b>	The SI has to provide staff for 2 years of O&M period. Decision regarding staff provisioning during AMC period will be taken by GSDMA.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
126	<p>Section VI 20. Technical support manpower requirements Page 239</p> <p>Section IV Schedule No. 6 Page 170</p>	<p>Bidder is required to deploy the following manpower for day to day operations for a period of two years after successful commissioning of the project. Bidder is required to also quote for manpower for following 3 years (3 to 5 years after commissioning) for support.</p> <p>3. Manpower at SEOC, DEOCs &amp; TEOCs</p>	<p><b>20. Technical support manpower requirements</b> The quantity mentioned in S.No. 4: Communications and IT support staff at DEOC is 1 and S.No. 5 Communications and IT support staff at TEOC is 1.</p> <p><b>Schedule No. 6</b> <b>3. Manpower at SEOC, DEOCs &amp; TEOCs</b> The quantity mentioned in S.No. 3.10 to 3.12: Communication staff and IT support staff at DEOCs is 15 S.No. 3.13 to 3.15: Communication and IT support staff at TEOCs is 26.</p> <p>Both are contradictory. We understand that quantity mentioned in price schedule is the required one. Kindly confirm.</p>	<p>There is no contradiction. The specified manpower on page 239 is per EOC, whereas staff number mentioned in Schedule no. 6 on page 170 is total requirement (for all DEOCs and TEOCs together)</p>

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
127	<p>Section VI 20. Technical support manpower requirements Page 239</p> <p>Section III 2.5 Personnel Page 73</p> <p>Section III 2.5 Personnel Page 74</p> <p>Section IV Schedule No. 5 Page 163</p> <p>Section IV Schedule No. 6 Page 170</p>	<p>Bidder is required to deploy the following manpower for day to day operations for a period of two years after successful commissioning of the project. Bidder is required to also quote for manpower for following 3 years (3 to 5 years after commissioning) for support.</p> <p>Implementation Phase</p> <p>Operations and Management Phase</p> <p>4. Manpower at SEOC, DEOCs &amp; TEOCs</p> <p>3. Manpower at SEOC, DEOCs &amp; TEOCs</p>	<p>We understand that the manpower required need not to be on bidder's payroll. Kindly confirm.</p>	<p>Manpower deployed at the time of implementation should be on Bidders Payroll. O&amp;M and AMC phase Manpower payroll could be outsourced except the PM and Technical Experts.</p> <p>Please note that disaster management is a critical function and time of disasters is unpredictable, hence availability of staff during disaster response operations is absolutely must.</p>
128	<p>Section III 1.6 Specific additional Criteria Page 63</p>	<p>New Clause</p>	<p>We request you to add new clause as following to this section:</p> <p>The Bidder and their subsidiary/ associate company shall not be under a declaration of ineligibility / banned / blacklisted / debarred by any State or Central Government / any other Government institutions in India as on bid submission date.</p>	<p>Refer BDS against ITB 11.2 (j) page 48 clause regarding blacklisted organizations. Format provided in Corrigendum III</p>
129	<p>Section III 2.5 Personnel Page 74</p>	<p>Implementation Phase - Civil Works Expert</p>	<p>The quantity for Civil Works Expert is not mentioned in RFP. Kindly provide.</p>	<p>Civil Works Expert Quantity - (1) One</p>

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
130	Section III 2.5 Personnel Page 74 Section IV Schedule No. 5 Page 163	Operations and Management Phase - Warning control staff 4. Manpower at SEOC, DEOCs & TEOCs S.No. 3.04 & 3.05 Warning control staff	The quantity of Warning control staff mentioned as 12 is inclusive of all shift. i.e 4 per shift. Kindly confirm our understanding.	Yes. Staff per shift will be 3. Total number (12) is to ensure that no staff member has to work for more than 48 hours in a week.
131	INVITATIONS FOR BIDS (IFB) Page 04  Section II ITB 21.1 Page 48	9. The bidders are required to submit documents listed below, with Miss. Ekta Thaman, Deputy Director, Gujarat State Disaster Management Authority, 5th Floor, Block 11, Udyog Bhavan, Sector 11, Gandhinagar-382011 before the bid submission deadline, either by registered post/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened.  Required documents include: a) original demand draft (for Rs. 15,000) towards the cost of bid document and registration on e-procurement website (if not previously registered); b) original bid security in the name of Gujarat State Disaster Management Authority, Gandhinagar, in approved form c) power of attorney to sign the bid document in the name of	Request you to kindly accept the submission of Original documents within 2 working days from the date of online submission	Clause remains unchanged



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		<p>the person who signs the bid</p> <p>d) original affidavit regarding correctness of information furnished with bid document</p> <p>e) Technical Bid in hardcopy which is uploaded on e-procurement website. Financial bid is not to be submitted in hardcopy.</p> <p>Only the originals of Power of Attorney and the Original Affidavit vouching for the correctness of the information furnished shall be delivered before the bid submission deadline in person / by post / courier to the address of Purchaser/Employer's representative</p>		
132	INVITATIONS FOR BIDS (IFB) Page 04	9. The bidders are required to submit documents listed below, with Miss. Ekta Thaman, Deputy Director, Gujarat State Disaster Management Authority, 5th Floor, Block 11, Udyog Bhavan, Sector 11,	We understand that only originals of Power of Attorney and the Original Affidavit vouching for the correctness of the information furnished has to be submitted as hardcopy in person / by post / courier to the address of Purchaser/Employer's representative	List of documents to be submitted physically is provided in this clause. Which is - Required documents include: a) original demand draft (for Rs. 15,000) towards the cost of bid document and

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		<p>Gandhinagar-382011 before the bid submission deadline, either by registered post/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened.</p> <p>Required documents include:  a) original demand draft (for Rs. 15,000) towards the cost of bid document and registration on e-procurement website (if not previously registered);  b) original bid security in the name of Gujarat State Disaster Management Authority, Gandhinagar, in approved form  c) power of attorney to sign the bid document in the name of the person who signs the bid  d) original affidavit regarding correctness of information furnished with bid document  e) Technical Bid in hardcopy which is uploaded on e-procurement website. Financial bid is not to be submitted in hardcopy.</p>		<p>registration on e-procurement website (if not previously registered);  b) original bid security in the name of Gujarat State Disaster Management Authority, Gandhinagar, in approved form  c) power of attorney to sign the bid document in the name of the person who signs the bid  d) original affidavit regarding correctness of information furnished with bid document  e) Technical Bid in hardcopy which is uploaded on e-procurement website. Financial bid is not to be submitted in hardcopy.</p>
133	Section III Penalties (Liquidated damage) during implementation	Penalty (liquidated damage) as % of contract value for project	The penalty rates mentioned for delay in completion is contradictory in the two clauses. Kindly clarify.	Penalty rate on page 61, for delay of each week is corrected to 0.5 % with maximum penalty limited to 10%. Bidder is advised to refer termination clauses carefully.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
	stage Page 61			
134	Section VIII PC 26. Completion Time Guarantee Page 469	Applicable rate for liquidated damages		
135	Section III Penalties during the Operation and Maintenance and AMC Phases Page 62	Penalties during the Operation and Maintenance and AMC Phases	<p>We request you to add new clause as following to this section:</p> <p>The maximum SLA penalty shall be capped to 10% of the contract price.</p>	The employer has planned EWDS infrastructure with built in multiple technical and physical redundancies to ensure high reliability at considerable cost and SI is expected to provide required level of Service Level guarantee to ensure that at least minimum support is available during disaster response. As such clause remains unchanged.
136	Section IV Appendix to Financial Part Schedule No 2 Page 147	Advanced Communication Board-Interface	Please provide the specification of Advanced Communication Board Interface and its requirement	Performance requirements for communication board interface are included in the table on page 147. This card is internal to RTU and exact design is left to EWDS manufacturer.
137	Section VI Page 185	VSAT links will also provide videoconferencing facility between EOCs	We understand that GSWAN and Internet connectivity is used for video conferencing and VSAT is only for siren activation Please clarify	Clause remains unchanged. VSAT will also be used for communication also and not only for activation. Bidder is advised to understand the objectives of the project clearly.
138	Section VI Clause 9.3 Page 187	Bandwidth on GSWAN & Internet	Kindly provide the tentative distance from GSWAN PoP to EoC location.	Tentative distance is estimated to be around 500m.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
139	Section VI Clause 13.2 Page 206	The input power requirement of the VSAT system shall not be more than 200 Watts	Request to remove this clause	clause remains unchanged
140	Section VI Clause 17.12 Page 222	Contractor to lay optical fiber/LAN cable with protection connecting from existing GSWAN port at District HQ to DEOC and with existing GSWAN port at Taluka HQ to TEOC within the same premises / building	Please mention the number of core required for optical cable.	Bidder has to design appropriate solution meeting all the requirements of the RFP in accordance with the objectives of the project.
141	Section VI Clause 22.2 Page 243	SBMVDT	Assuming SBMVDT is not part of this RFP. Please confirm	The clause is modified as - the manufacturers in respect of: sample of VSAT equipment, Satellite phones, siren and audio system on the parameter mentioned in technical specifications.
142	Section VI Business Function and Performance Requirements Page 184	Warning messages will be used to further disseminate to fishermen at sea using existing analogue / digital Very High Frequency (VHF) radio links between FLCs / Coast Guard stations and fishing boats	DMR/or any other Terrestrial Voice communication is not part of this, RFP So this clause is not relevant to this RFP. Request you to remove this clause.	This is not in the scope of bidder to implement.
143	Section VI 9.7 Remote Terminal Unit (RTU) Page 196	VSAT Modem & GSM Modem with SIM Card, which can be controlled remotely through SCADA.	VSAT modem cannot be controlled by SCADA, Needs to be managed from VSAT HUB service provider . It is requested to remove <b>VSAT Modem</b> from the clause	The Clause is modified to as - VSAT link and GSM modem will provide connectivity for SCADA for monitoring and control of remote siren system. Audio messages from SEOC will be delivered to siren warning systems via VSAT and GSM

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
				network.
144	Section VI 13.2 VSAT Network -Data capabilities and transmission delay Page 204	VSAT at SEOC will operate with Single Channel Per Carrier(SCPC) access technology and will operate at 1.0 Mbps data rate.	We understand that the mentioned bandwidth shall be 1:1 duplex bandwidth. Kindly confirm	The link should be asymmetrical with outward link from SEOC to Hub will be 75kbps and hub to SEOC will be 250kbps. Refer query number 36.
145	Section III. 2. Qualification 2.4.2 Specific Experience Page-71	(a) Participation as contractor, joint venture partner <sup>1</sup> , management contractor, or subcontractor, within the last 5 years in (i) two turnkey contracts each of value at least INR 50 Cr. or (ii) one turnkey contract of value of at least INR 80 Cr, that have been successfully and substantially <sup>2</sup> completed and that are similar to the proposed requirements of this project. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section VI, Employer's Requirements or Similar ICT Projects.	We request you to change the clause as following:  (a) Participation as contractor, joint venture partner <sup>1</sup> , management contractor, or subcontractor, within the last 5 years in (i) two turnkey contracts each of value at least <b>INR 30 Cr.</b> or (ii) one turnkey contract of value of at least <b>INR 60 Cr</b> , that have been successfully and substantially <sup>2</sup> completed and that are similar to the proposed requirements of this project. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section VI, Employer's Requirements <b>or Similar ICT Projects.</b>	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
146	Section III. 2. Qualification 2.4.2 Specific Experience Page-71	(a) Participation as contractor, joint venture partner <sup>1</sup> , management contractor, or subcontractor, within the last 5 years in (i) two turnkey contracts each of value at least INR 50 Cr. or (ii) one turnkey contract of value of at least INR 80 Cr, that have been successfully and substantially <sup>2</sup> completed and that are similar to the proposed requirements of this project. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section VI, Employer's Requirements or Similar ICT Projects.	We understand that similar ICT projects means project related to early warning dissemination systems only, kindly confirm	Similar ICT project refers to as projects which include - Emergency Operations Centers, VSAT networks, satellite phone networks, WANs and Network Monitoring Systems in addition to EWDS
147	Section III. 2. Qualification 2.4.1 –a. General Experience Page-71	Experience and proven record in implementing heterogeneous system integration projects, WAN connectivity, network operations center, telecom projects, early warning dissemination system, etc. for at least the last 5 years on the date of submission deadline, and with activity in at least last 1 year. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent	We request you to change the clause as following:  Experience and proven record in implementing heterogeneous system integration projects, WAN connectivity, network operations center <b>or</b> <b>Emergency Operation Center</b> / telecom projects, early warning dissemination system for at least the last 5 years on the date of submission deadline, and with activity in at least last 1 year. Successful completion certificate / purchase order with delivery or shipping document or payment as a	Refer Query no. 5

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		authority required to be submitted.	proof from competent authority required to be submitted.	
148	Section III. 2. Qualification 2.4.1 –a. General Experience Page-71	Experience and proven record in implementing heterogeneous system integration projects, WAN connectivity, network operations center, telecom projects, early warning dissemination system, etc. for at least the last 5 years on the date of submission deadline, and with activity in at least last 1 year. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.	We understand that bidder need not to submit combined credentials for WAN connectivity, network operations center, telecom projects, early warning dissemination system, etc. from a single project this can be from multiple projects to showcase their capability in heterogeneous system integration projects. kindly confirm	Refer Query no. 5
149	New additional eligibility criteria	New additional eligibility criteria	<p><b>We request to kindly add the clause as mentioned below in eligibility criteria</b></p> <p>Bidder should have implemented a total of not less than 50 locations of GUI based mass alert system consisting of multiple alert method for the activation of siren in not more than two (2) project in last five years (one should be for Dam/ Tsunami/ cyclone warning) Note: Successful completion certificates and PO shall be submitted from competent authority.</p>	No Change

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
150	Section VI. Employer's Requirements 34.3 Attachment 3 Page 312 - 314 & Page 323	i. Tentative List of SEOC , DEOC,TEOC and BEACHES & 3. Tentative list of Salt Pans	In RFP Latitude and longitude details are available for some locations and the same is not available for SEOC , DEOC,TEOC and BEACHES, Salt Pans. Hence we request you to share the latitude and longitude details of these locations.	Refer Corrigendum 3
151	Section VI. Employer's Requirements 34.3 Attachment 3 Page 313-314	Coastal Talukas	Address of many of the Coastal Talukas locations is not provided. Hence, we request you to kindly provide address and Latitude-Longitude details for these locations.	Refer Corrigendum 3
152	Section III 1.4. Functional Guarantees of the facilities – Technical aspects. Page 57	Maximum delivery time less than 5.0 minutes (<5.0) when cell phone network is up and running	Since the delivery time is dependent on the number of mobile phones to which message is delivered, we request to define the parameter.	Maximum number of cell phones in a group to which single message is to be delivered will be equal to or less than 7,000.
153	Section VI Schematic Diagram Page 192	Please confirm if transmission links from SEOC to organizations engaged in public Broadcast Radio operators in the region, DTH operators or similar other facilities are in scope of Group Messaging System.	The Connectivity and other infra requirement at public Broadcast Radio operators is not part of this RFP. Please clarify.	Connectivity to public broadcast sites will be via GSM network.
154	Section VI 15.1 Group Messaging (SMS) System, pt. 9 Load balancing, Page 212	It is vital that system has load balance and congestion control ability within the PSTN (Public Switched Telephone Network). Congestion control system monitors the fixed phone network to check if there are any indications of overload or	We assume that Employer will provide PRI lines in order to make voice calls to selected contacts and groups. Please Confirm.	PSTN lines will be provided by employer.



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		congestion during alert sending and optimize the delivery accordingly.		
155	Section IV Appendix to Financial Part Schedule No 2 Schedule No. 2. Infrastructure and Mandatory Spare Parts if any Page 144	Call Complaint management System with Toll Free Support Centre Nos.	As per our understanding there is no special arrangement is required at SEOC for this setup. This is just a helpdesk facility for trouble ticketing and the arrangement can be at SI end. Please Confirm	Bidder has to maintain helpdesk and ticketing system for the Project. It should be accessible from EOCs to check records and download reports any time.
156	17, 17.4, Page No. 218	24 10/100 Mbps ports, Managed 10/100 Mbps switch	Suggest to increase the port speed to 10/100/1000, for future consideration and to cope with the bandwidth hungry application with high speed requirement in forthcoming digitization environment, This will protect the investment for next 7 to 10 years.	RFP mentions the minimum requirement and bidder is expected to design and provide appropriate equipment in accordance with the objectives of the project.
157	17, 17.5, Page No. 218		Suggest to increase the port speed to 10/100/1000, for future consideration and to cope with the bandwidth hungry application with high speed requirement in forthcoming digitization environment, This will protect the investment for next 7 to 10 years.	RFP mentions the minimum requirement and bidder is expected to design and provide appropriate equipment in accordance with the objectives of the project.
158	24, 24.1 , item no. 14 24, 24.2 , item no. 6 24, 24.3 , item no. 12	WAN Router with 8 FE Port , 2 GE WAN Port and with 2 Fiber Port 10/100/1000	The RFP doesn't mention detailed specification for the WAN router from the feature perspective that need to be run on router. For optimum sizing of the Wan routers at least baseline features expectation needs to be provided General Specifications are enclosed.	RFP mentions the minimum requirement and bidder is expected to design and provide appropriate equipment in accordance with the objectives of the project.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
159	16, 16.1	Network Monitoring System (NMS)	<p>As mentioned in RFP the NMS solution must be provided by Telco service provider and defined reports to be shared with client, kindly reconfirm the same.</p> <p>Or do we have to consider the network monitoring solution on prem at client premises.</p> <p>If yes then do we have to consider only WAN edge devices for the NMS purpose</p> <p>Kindly clarify</p>	TSP will provide solution for VSAT network and will share service quality data with employer. However NMS to monitor Internet links and edge equipment (routers , servers etc.) will be provided by SI at SEOC.
160	17.13 Work Stations with 19 " LED Monitor	Antivirus	<p>We recommend Gartner listed Antivirus and EDR solution for the endpoint devices to safeguard endpoint from any known and unknown zero-day attacks.</p> <p>Please provide the endpoint count and OS type for sizing the solution.</p>	It is expected from bidder to design and deploy a secure system. Antivirus, firewall and other security measures are to be implemented by the bidder.
161	Financial Schedule 2	Firewall & IPS	<p>There are no technical specifications available for these components so please provide the same.</p> <p>General Specifications are enclosed.</p>	It is expected from bidder to design and deploy a secure system. Antivirus, firewall and other security measures are to be implemented by the bidder.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
162	Suggestion		<p>RFP is quite open and does not offer basic cyber security aspect to the network that you are planning to set up. It is important that these parameters are established to all bidders are on same page. Please consider below.</p> <p>DDOS : This is the entry point for any amplified attack and should be protected, This helps to protect the L3, L4 and L7 attacks.</p> <p>WAF ( Web Application Firewall ) : This helps protect the internet facing web server from L7 attacks.</p> <p>APT: To prevent any Zero day attack it is recommended to have a solution that can analyse any malicious file and activates in a simulated environment.</p> <p>NIPS: The NIPS monitors the entire network for suspicious traffic by analysing protocol activity</p> <p>General specifications are enclosed.</p>	It is expected from bidder to design and deploy a secure system. Antivirus, firewall and other security measures are to be implemented by the bidder.
163	Suggestion		<p>The purpose of the project is to implement Artificial Intelligence driven Statistical Analytics Solution and make disaster management process completely analytics driven along with EWDS. There is a lot of historical data available from previous cyclones and from external weather forecast data and availability of resources with various departments involved in the disaster management process.</p> <p>Model Specs are enclosed.</p>	<p>Data analysis and decision support system are not envisaged in the scope of this project and will be separately procured.</p> <p>Bidder is free to offer appropriate solution but please note no preference will be given for the solution and additional cost of such a system may make the bid less competitive.</p>

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
164	page no. 206, Point 14.1, Point 3. Display		Should be equipped to display the location map of all RTUS & colour coded icons for status of RTU / Alert and Warning Terminal (AWT) locations/sirens. It should also support the ability to display multiple map views.	Refer Query number 52.
165	page no. 209, Point 14.2, Point 4. RTU		RTU should include high powered audio amplifier compatible to work with the Speaker Horn Array. All the electronic unit i. e. RTU, Communication Interface Card, VSAT modem, Solar power controller and Loudspeaker Audio Power Amplifier with back-up battery should be housed in a IP 65 /NEMA 4X weather resistant Outdoor Cabinet with lock & key arrangement. This cabinet can be kept safely inside nearest government or public building such as the Cyclone Shelter Building or should be mounted sufficiently high from the ground level on 15-meter tower planned at sea beach etc. so that they are out of reach of mischief makers.”	Refer Query number 25

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
166	page no. 209, Point 14.2, Point 10. Solar Battery Bank		<p>The Alert Tower Siren System shall operate from 12 V or 24 V (nominal) DC obtained from normal 230 V AC mains power Supply or from back-up battery of 12/24 volts, 150 AH capacity. The storage batteries shall be sealed maintenance free Tubular GEL Vent Regulated Lead Acid (VRLA) type suitable for solar application:</p> <p><b>1. In order to increase the life and efficiency of the system we propose that the batteries and electronics be kept in separate weather resistant cabinets. This condition should be made mandatory in the RFP.</b></p> <p><b>2. 15.1 Group Messaging System</b> It appears they are looking for a Cell Broadcast system which is outside of the Sirens. We have a Cell Broadcast solution that ties into our broader solution.</p> <p>Our standard management software sends reports/logs via email and SMS to a predefined list of recipients such as management and maintenance personnel, but this is different to Cell Broadcast working through mobile phone carriers.</p> <p><b>Need to clarify the recipients and the type of message to be sent.</b></p>	Refer query number 26 and 27 . Bidder is expected to design the appropriate solution . Refer Appendix to Financial Part Schedule No 3 - Schedule No. 3. Design services - Page 152 and ITB 17.5c.
167	Page 198		<p>Last paragraph. Please note that running VAC power for the last mile will be extremely expensive. This should be the responsibility of the Government.</p>	Mains power requirement will be limited to 1.0 KVA / Siren location and maximum last mile extension required will be limited to 30.0 Meters from mains power

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
				metering point.
168	Clause No. 9.4, page 189	Group Messaging System	Is it required to have group messaging system to send messages to Citizens as well?	<p>This functionality is not envisioned for the project in the RFP.</p> <p>Refer corrigendum III – Annexure 4 for Location based messaging requirements and specifications.</p>
169	Clause No. 9.4, page 189	Group Messaging System	Will group messaging system be connected to Telecom Service Providers to get details of all subscribers in particular area in near real time so as to enable Mass Messaging in case of disaster?	<p>This functionality of Mass messaging is not envisioned for the project in the RFP.</p> <p>Refer corrigendum III – Annexure 4 for Location based messaging requirements and specifications.</p>
170	Clause No. 9.4, page 189	Group Messaging System	Is setting up data collection agent at TSP location part of deliverable to get citizens in specific area for mass messaging and disaster management?	<p>This functionality is not envisioned for the project in the RFP.</p> <p>Refer corrigendum III – Annexure 4 for Location based messaging requirements and specifications.</p>
171	Clause No. 9.4, page 189	Group Messaging System	Is group messaging system to include geo-fencing to send messages only to people/citizens in specific area?	<p>This functionality is not envisioned for the project in the RFP.</p> <p>Refer corrigendum III – Annexure 4 for Location based messaging requirements and specifications.</p>

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
172	Clause No. 9.4, page 189	Group Messaging System	Is it required to have Mass Alert capability in Group Messaging Platform to alert all citizens in area at risk? Should we consider mass messaging capability of 1 Million Message in one hour at time of disaster?	<p>This functionality is not envisioned for the project in the RFP.</p> <p>Refer corrigendum III – Annexure 4 for Location based messaging requirements and specifications.</p>
173	Clause No. 9.4, page 189	Group Messaging System	Does the group messaging system required to have capability to make automated out call to citizens ? If yes, kindly suggest on volumetrics required. Is it sufficient to provide system that shall have capability of atleast 256 simultaneous calls?	<p>This functionality is not envisioned for the project in the RFP.</p> <p>Refer corrigendum III – Annexure 4 for Location based messaging requirements and specifications.</p>
174	Clause No. 9.4, page 189	Group Messaging System	Is it required to have Group Messaging System interface with TV Channels, Radio, Siren to be able to send mass alert for services supporting CAP ?	<p>Group messaging system should support CAP. No mass alert functionality is envisaged. TV and radio transmission centers will receive alerts by Group messaging and these will be read out on broadcast channels. Direct broadcasting of messages is not expected during this phase of the project.</p> <p>Refer corrigendum III – Annexure 4 for Location based messaging requirements and specifications.</p>

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
175	Clause No. 9.4, page 189	Group Messaging System	In case operator/service provider doesn't support CAP is it required to include interfaces towards legacy system so as to have integrated group messaging platform?	Yes if TSP system doesn't support CAP.
176	Clause No. 9.4, page 189	Group Messaging System	Kindly list telecom service providers to be included for Citizen Information for Group Messaging?	Group Messaging system is scoped to include a predefined list of number which can be grouped into customer groups and bulk sms to that whole group ( first responders ) could be sent. Mass alert to citizen directly is not envisioned in the current scope.  Refer corrigendum III – Annexure 4 for Location based messaging requirements and specifications.
177	Clause No. 9.4, page 189	Group Messaging System	In case operator doesn't have CAP compliant interface for Mass Alert, than the solution is required to include appropriate hardware to be implemented for ensuring Group Messaging at specific area of interest?	Refer query no 169.
178	Clause No. 9.4, page 189	Group Messaging System	Kindly suggest and confirm that Group Messaging System shall have two separate modules as below: 1. Group Alert System - For sending messages, information to First Responders 2. Mass Alert System - To send messages, voice call, TV/Radio Alert to all citizens who may be impacted by	Mass Alert system to citizens is not envisioned.  Refer corrigendum III – Annexure 4 for Location based messaging requirements and specifications.



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
			calamity and system should support geo-fencing	
179	Clause No. 9.4, page 189	Group Messaging System	The Mass Alert System shall have capability to show visually on no. of citizens in particular area based on network coverage and live Cell Data	Refer query no 169.
180	Clause No. 9.4, page 189	Group Messaging System	<p>In case of order of evacuation, the Mass Alert System shall provide for the following:</p> <ol style="list-style-type: none"> <li>1. List of citizens to whom messages are sent</li> <li>2. List of citizens who are no longer in the area of interest</li> <li>3. List of citizens who are no longer reachable</li> <li>4. List of citizens who didn't exit even after evacuation orders</li> </ol> <p>The above may be based on mobile numbers, in case subscriber data is not available</p>	Refer query no 169 and 171.
181	Clause No. 9.4, page 189	Group Messaging System	Mass Alert System shall include alerts to PSTN (Land Lines) as well by way of voice calls?	Mass Alert system to citizens is not envisioned.
182	Clause No. 9.4, page 189	Group Messaging System	Kindly confirm that Group Messaging System shall be combined Mass Alert System for Group Alerts as well as Mass Alerts and delivery of complete system with integration and required	Refer query no 169 and 171.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
			hardware and software is responsibility of the bidder.	
183	IFB 9 & BDS 21.14 & 48	<p>The bidders are required to submit documents listed below, with Miss. Ekta Thaman, Deputy Director, Gujarat State Disaster Management Authority, 5th Floor, Block 11, Udyog Bhavan, Sector 11, Gandhinagar-382011 before the bid submission deadline, either by registered post/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened. Required documents include:</p> <p>a) original demand draft (for Rs. 15,000) towards the cost of bid document and registration on e-procurement website (if not previously registered);</p> <p>b) original bid security in the name of Gujarat State Disaster Management Authority, Gandhinagar, in approved form</p> <p>c) power of attorney to sign the bid document in the name of the person who signs the bid</p>	Please clarify if the technical bid has to be submitted in the hardcopy as well.	Refer Query no. 132

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		<p>d) original affidavit regarding correctness of information furnished with bid document</p> <p>e) Technical Bid in hardcopy which is uploaded on e-procurement website. Financial bid is not to be submitted in hardcopy.</p> <p>AND</p> <p>Only the originals of Power of Attorney and the Original Affidavit vouching for the correctness of the information furnished shall be delivered before the bid submission deadline in person / by post / courier to the address of Purchaser/Employer's representative -</p>		
184	Section 4.1 (1)46	Place where the agreement to form JV / Consortium to be registered is within the state of Gujarat	Please change the place of registration of agreement to form JV/Consortium from within Gujarat to anywhere in India.	Clause remains unchanged
185	IV, 92	Appendix to Technical Part - 8 Infrastructure	Please give details of the information that has to be included for this appendix	The bidder may include list of infrastructures that will be used during implementation of the project
186	IV, 97	Appendix to Technical Part - 13 Proposed Subcontractors for Major Items	Please share the list of major items for which Subcontractor Agreement or a letter of intent is required	Group of Items is mentioned in the RFP. Individual Items/services which bidder is proposing to subcontract, bidder has to provide the Details.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
187	VI, 272	<p>The System Integrator shall obtain all requisite statutory clearances prior to commencement of civil and or electrical works, which includes obtaining permissions/consents for setting-up construction camp; plants and equipment; borrow areas if necessary. The System Integrator shall abide by all conditions laid out in the said clearances. This includes:</p> <p>Aviation Authority for erection of Lightning Mast which comes in the vicinity of flying zone. (Where necessary) Consents for establishment and operation of plants (electrical power generator sets) from State Pollution Control Board (If necessary) PUC certification for all vehicles/equipment used for transportation (of personnel and materials) and construction.</p> <p>Permission/consent of the District Administration/Mining Department/other agencies for quarrying and/or borrowing operations for materials like sand and earth</p>	<p>We request you to modify the clause as " the employer shall assist the System Integrator to obtain all requisite statutory clearances prior to commencement of civil and or electrical works, which includes obtaining permissions/consents for setting-up construction camp; plants and equipment; borrow areas if necessary. The System Integrator shall abide by all conditions laid out in the said clearances. This includes: Aviation Authority for erection of Lightning Mast which comes in the vicinity of flying zone. (Where necessary) Consents for establishment and operation of plants (electrical power generator sets) from State Pollution Control Board (If necessary) PUC certification for all vehicles/equipment used for transportation (of personnel and materials) and construction. Permission/consent of the District Administration/Mining Department/other agencies for quarrying and/or borrowing operations for materials like sand and earth"</p>	Refer Query No. 99.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
188	161	Estimated Diesel quantity for DG Sets SEOC - 180 Litres/month DEOC - 2640 Litres/month TEOC - 9600 Litres/month	Please clarify who will bear the additional cost if the quantity of diesel consumed exceeds the estimated quantity	Estimated quantities are for monthly consumption averaged over 24 months period. Reliability of mains power in Gujarat state is of very high quality and it is not expected that long term average consumption will exceed these figures. However any additional expenses on diesel will have to be borne by SI.
189	General	Power supply to RTU	Please clarify who will be responsible for providing power supply for RTUs/Sirens	Mains power connection will be provided by the Employer. SI will be responsible for last mile extension of up to 30.0 meters from metering up to RTU.
190	1.6. Specific additional criteria, Page 64	The Lead Partner should have own registered office presence in Gujarat state to ensure prompt technical and human resource support the team responsible during implementation of the project and during operational phase for 60 months from the date of commissioning. Such establishment should be set-up, if not already existing, within Gujarat, not later than 90 days from the date of signing of contract.	Our registered office is in Mumbai. Please amend this clause, as companies having their registered office out of Gujarat cannot bid as per this clause. We can provide undertaking that we will set-up our branch office not later than 9- days from the date of signing of the contract.	Bidder needs to establish registered office or branch office in Gujarat and Such establishment should be set-up, if not already existing, within Gujarat, not later than 90 days from the date of signing of contract.  There is no location-based restriction on registration of company to bid.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
191	Section- III – Evaluation qualification criteria 2.4.Experience 2.4.2 (a) - Page 71-72	Specific Experience - Participation as contractor, joint venture partner <sup>1</sup> , management contractor, or subcontractor, within the last 5 years in (i) two turnkey contracts each of value at least INR 50 Cr. or (ii) one turnkey contract of value of at least INR 80 Cr, that have been successfully and substantially completed and that are similar to the proposed requirements of this project. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section VI, Employer's Requirements or Similar ICT Projects.	The concept for implementation of Early Warning Dissemination system projects is new concept in India and very agencies have the experience of this type of projects in India. Therefore we request you to kindly consider for similar works, the experience of having executed the EPC projects of water supply scheme where the components of Automation and instrumentation system included. This will enable more bidders to participate in the bidding thereby enhance competition level in the bidding.	Please refer query no 146
192	1.6 (d) -Page 63	Specific additional criteria - The lead partner should have own registered office presence in Gujarat state to ensure prompt technical and human resource support the team responsible during implementation of the project and during operational establishment should be set-up. If not already existing, within Gujarat not later than 90 days from the date of signing of contract.	We request you to consider the agencies/ firms having regional / branch office located in Gujarat having valid registration with R&B department / other respective department and also having GST registration. The required technical and human resource support required for the implementation of the project can be extended from the regional / branch office through direct monitoring from Head Office.  Request to consider and relax this	The SI is expected to work for 69 months on this project, hence the clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
			criteria suitably.	
193	Section - 1.6 - Page 64 - Offered product OEM/Authorized Partner/ Service Provider – (Alert and Warning System)	He should have implemented of at least two (2) nos. Alert Siren System with minimum 50 locations each for Mass Notification in last 5 years. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.	For such a large project of 284 Sirens, the min experience requirement of bidder/ OEM should be two projects of at least similar size (284 Sirens) each. The current eligibility criteria is allowing very small and inexperienced players who have experience of only 50 Sirens to bid for a project of 284 Sirens. The Govt norm for such tenders is minimum 80% crieteria, which in earlier WB tender of ODISHA EWDS where total Siren count was 122, they had asked for (2) nos. with minimum 98 locations each. Hence we request you to consider the same formula and modify as "He should have implemented at least two (2) nos. Alert Siren System with minimum <b>227 locations</b> each for Mass Notification.	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
194	<p>Section 14.2 - Page 209 - 6. Horn speakers</p> <p>Section 14.2 Page 210 - 7. Horn Speaker Audio Coverage</p>	<p>Total weight of horn assembly should normally not exceed 80 kgs.</p> <p>The minimum coverage of warning broadcast should be 1.5 Km radius i.e. 3.0 km diameter and transmission should be Omni directional.</p>	<p>To deliver the distance coverage of 70 dB at 1.5 Km, we need to use minimum 3000W siren that will generate acoustic power (decibel rating) 123 dB at 30 meter (on axis) which can produce <u>sound levels in the range of 65 dB to 70 dB at a radius of 1.5 Km, in ideal test conditions.</u></p> <p>1) It is not recommended to install Siren in inhabited area with Acoustic power more than 123 dB at 30 meter (on axis). This could be very irritating for local residents, and also have deafening effect on people in the vicinity of the Tower. It could even shatter the glass windows of the building on which it is installed. FEMA guideline says :- "<i>PAS device installations should be sited to avoid exposing anyone to sound levels exceeding 123 dB</i>"</p> <p>2) The Horns assembly will weight significantly higher than 80 KG. Even the lightest Horns in the industry will have <b>minimum weight of approx 200 to 220 Kg.</b> <u>We recommend the max weight cap of the Horn assembly and associated equipment should be removed and design of tower should take into account the actual weight of the Horns and associated equipment.</u></p> <p>3) The acoustic level of sound at a distance from the source depends on</p>	Please refer query no 22



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
			<p>several geographic and environment factors, like trees, buildings, hills, ambient humidity, pollution levels, etc. This will result in situations where the same Siren may be highly audible (70dB) at 1.5 Km radius from one RTU site, but may produce less than 65 dB at 1.5 Km radius from another RTU site. This will result in difficulty of passing Acceptance tests due to inconsistency between the sites. Since the Geographic and environment factors will be different for each site. In view of FEMA guidelines for local resident's safety, <b>we recommend to modify the tender clause (for Speaker Specification) as follows:- The acoustic power (decibel rating) should be 123 dB at 30 meter (on axis).</b></p>	
195	<p>Section 14.2 Page 210 - 9. Solar panel</p> <p>Section 14.2 Page 210 - 10. Solar battery bank</p>	<p>The Solar Panel shall be rated for 12V and 150-Watt output</p> <p>The Alert Tower Siren System shall operate from 12 V (nominal) DC obtained from normal 230 V AC mains power Supply or from back-up battery of 12 volts, 150 AH capacity.</p>	<p>The solar panel needs to be 24V, instead of 12V. All Sirens use 2x 12V batteries. Also, the Solar Panel and hybrid inverter of higher capacity are manufactured only for 24 V.</p>	Refer query number 26

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
196	Section 19.2 Page 232- Self-Supporting Towers - Design, Fabrication and Erection of 15.0 Meter Angular Tower	For designing of the tower load of mounting equipment load of maximum 100kg may be kept into considerations.	For the purpose of maintenance of Speakers, it is important to provision a proper SEATING PLATFORM for 2 persons at the top, near the mounting of speakers. The horns are heavy and for Engineers to replace a coil assembly or a horn itself, or do the wiring connections, safe place to sit and perform the operation is needed for the installation or maintenance Engineer.	Bidder has to design and install appropriate system in accordance with the project objectives.
197	Page 64 table: row no 3 Offered product OEM/Authorized Partner/ Service Provider – (Alert and Warning System)	Should have implemented of at least two (2) nos. Alert Siren System with minimum 50 locations each for Mass Notification in last 5 years. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted	Request to consider Single alert Siren system project consisting of minimum 20 locations in the last 05 years to allow more participants.	Clause remains unchanged
198	Offered product OEM/Authorized Partner/ Service Provider – (Network)	Service Provider – (Network) Implementation of at least one (1) project related to: Emergency Operation Centre or Network Operation Centre, LAN, WAN, Internet Services with over 100 WAN Nodes. Successful completion certificate /purchase order with delivery or shipping document or	Request to include /Sub Contractor/ also and to consider for min 30 WAN/ LAN nodes instead of 100 nodes	Refer Query No. 2

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
199	Page No.: 69 2.3.2	Average Turnover Minimum average annual turnover in IT/ Telecom infrastructure services / Disaster management services businesses of INR 200 Cr calculated as total certified payments received for contracts in progress or completed, within the last 3 financial years	Please dilute the 03 years average annual turnover to 100 Cr, instead of 200 Cr as being single entity. The turnover can be considered with combination of its sub-contractors Turnovers w.r.t single entity participation	Refer query No. 3.
200	Page No.: 71-72 2.4.2 a	Specific Experience (a) Participation as contractor, joint venture partner <sup>1</sup> , management contractor, or subcontractor, within the last 5 years in (i) two turnkey contracts each of value at least INR 50 Cr. or (ii) one turnkey contract of value of at least INR 80 Cr, that have been successfully and substantially <sup>2</sup> completed and that are similar to the proposed requirements of this project. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section VI, Employer's Requirements or Similar ICT Projects.	Please consider i) two turnkey contracts with combined value of least INR 40 Cr ii) one turnkey contract of value of at least INR 35 Cr Pl extend period of contracts to be considered in last 07 years	Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
201	2.4.1 –a. General Experience pg 71	Experience and proven record in implementing heterogeneous system integration projects, WAN connectivity, network last 5 years	Request to consider for in the last 10 years.	Clause remains unchanged
202	2.3.1 Financial Resources page 69	Submission of audited balance sheets or if not required by the law of the bidder's country, other financial statements acceptable to the Employer, for the last 3 financial years to demonstrate the current soundness of the bidders' financial position and its prospective long-term profitability.	PSU may be exempted for long term profitability but should have Positive networth. However Lead bidder should have long-term profitability for the last 3 financial years.	Clause regarding long term profitability stands even in case of PSUs.
203	2.3.3 Financial Resource	a. INR 36 Cr. for this contract; and in addition to overall cash flow requirements for its current commitments	Cash flow requirement of 36 Cr is applicable for all the sub- contractors also if the lead bidder participates in the bid as a single entity with their subcontractors/ OEM partners	Lead bidder being single entity have to qualify the cash flow criteria, Authorized partners / OEM criteria is mentioned in the Section III -1.6 & refer 2.7 subcontractors.
204			Request you to arrange necessary Permission for underground cable laying in premises if required. Kindly confirm.	Refer Query No. 99.
205	Warehouse		We understand that warehouse required for storage for the materials shall be arranged by the SPIU. Kindly confirm.	Refer Query No. 93.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
206	Bidders are free to propose more than one for each item Page 97	Suggested to modify the clause “to propose one vendor for each item to avoid misperception at later stage”		Clause remains unchanged
207	Page No.: 227 2. Regulatory Permissions and Consents	The System Integrator shall obtain all requisite statutory and other site clearances prior to commencement of civil and or electrical works, which includes obtaining permissions/consents for setting- up construction camp; plants and equipment; borrow areas if necessary.	We request you to modify the clause as: The <b>Employer</b> shall obtain/ facilitate all requisite statutory and other site clearances prior to commencement of civil and or electrical works, which includes obtaining permissions/consents for setting-up construction camp; plants and equipment; borrow areas if necessary.	Refer Query No. 99.
208	Page No.: 227 3. Consultation and Community Consent	The System Integrator shall consult and obtain written consents of land owners (individual/panchayat/village/govt. agency) for use of land for all construction related activities	Request you to modify the clause as: The <b>Employer</b> shall provide <b>No objection Certificate</b> from landowners (individual/panchayat/village/govt. agency) for temporary use of land for all construction related activities	Clause remains unchanged
209	Page 57, 1.4. Functional Guarantees of the facilities – Technical aspects	Implementation period: Group messaging system and connectivity with 3 TSPs in Gujarat state,	For sending SMS and Voice messages to group members, connectivity to all operators' users can be ensured with single SMS engine (via SMPP). Please review and update this requirement to say " <b>connectivity with contacts/groups in state irrespective of subscriber TSPs</b> " since connectivity with all TSPs is not required to satisfy business requirement. We assume "connectivity with 3 TSPs" refers to capability in future to connect for sending direct messages to the public	Specification for connectivity to multiple TSPs is to ensure at least partial service availability in case of failure of one of the TSP networks (SMSC etc.). Clause remains unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
			based on location, and not in scope for GMS. Please confirm.	
210	Page 191, Scope of Work for Group Messaging system, item (b)	b) The Bidder shall ensure the setting up of required IT infrastructure and integration at bidder's Data Center and TSP premises to work the solution on.	<p>a) As per scope of work and "Appendix to Financial Part Schedule No 2" and "26. System Inventory Table", GMS will be deployed at SEOC and one of the selected DEOC for backup - and hence <b>NOT</b> at bidders' data center. Please confirm.</p> <p>b) Connectivity to SMSC for Group Messaging does <b>NOT</b> in general, require installation of new infrastructure at TSP premises. Confirm if GMS connectivity to single SMS Sending Engine via SMPP suffices, as long as GMS can send to contacts/groups who are subscribers of all operators in the state.</p> <p>c) We assume "Integration with TSP premises" here refers to future capability / expandability to connect for sending Location based messages to the public, and not in current scope for GMS. Although, our product is capable to do so.</p>	<p>Yes the back-up will be at one of the selected DEOCs. Connectivity with multiple TSPs is a must. This is present requirement and not future requirement.</p> <p>c) Refer corrigendum III – Annexure 4 for Location based messaging requirements and specifications.</p>

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
211	9.4 Group Messaging, page 190	The web-based application Software shall be hosted centrally on a redundant server system at SEOC (with option for installation of redundant system at another secure location). The system software should also be stored on a <i>cloud</i> ....	<p>a) As per scope of work and "Appendix to Financial Part Schedule No 2" and "26. System Inventory Table", GMS will be deployed at SEOC and one of the selected DEOC for backup. Please confirm.</p> <p>b) As we understand based on the above line and "26. System Inventory Table", that setup of GMS on cloud is not in scope. Kindly confirm.</p> <p>c) We recommend adding requirements for redundancy of the SMS sending Engine. i.e.; have 2 sending engines from different operators, so that GMS can send alerts via redundant systems. As per above, Confirm GMS setup is in SEOC + failover site at DEOC. Confirm no "cloud setup".</p>	<p>Requirement for back-up storage on cloud is already mentioned on page 190.</p> <p>Redundancy for SMS engine is already included in specifications.</p> <p>Back-up site at DEOC is already mentioned in RFP.</p>
212	p.187, Table row: Group alerts / Warning message delivery	First backup: Inmarsat handheld phones	Scope of work for Group Messaging System does not indicate any such connection with Inmarsat network. Pl clarify	<p>Option to use Inmarsat phone for SMS delivery will be used only by senior government officers.</p> <p>The GMS should have an option to select the inmarsat group to send specific communication to Inmarsat phones in case required.</p>
213	Page 192, Scope of Work for Group Messaging system, item (h) Reliability and timeliness	The messaging Platform must support acknowledgement based mobile messaging with guaranteed message delivery information.	We understand from this clause that whenever a recipient mobile gets a message from Group Messaging System, a <b>delivery receipt</b> for SMS is to be sent back to the Group Messaging System so that count of delivered messages can be logged and displayed. Kindly confirm.	Bidders understanding is correct.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
214	Schematic Diagram, Page 192	Equipment and link for transmission of alert messages from SEOC to be provided by bidder linking	<p>This is assumed to mean that whenever an agency (such as DTH / Radio facility) is operational, they will have designated mobile / fixed line numbers associated with them.</p> <p>Group Messaging System (GMS) will send voice calls or SMS messages to these numbers individually or as a group as stored in the GMS system. Agency (DTH / Radio / other agency) staff will receive and process such voice calls or SMS based on their standard operating process. Kindly confirm.</p> <p>This means no equipment or link is required for connectivity to these agencies. so no additional channel is needed in GMS.</p> <p>Pl Clarify</p>	Bidder understanding is correct in this regard.
215	15.1 Group Messaging (SMS) System, pt. 5 Alerts over voice channels, Page 212	It must now be possible to automatically send alerts over voice channel to mobile phones and fixed phones.	<p>b) Please confirm if there is a requirement for voice sending infrastructure at backup DEOC site as well. If so, please provide number of voice calls expected to be made in parallel from DEOC site.</p> <p>c) When GMS fails over from SEOC to DEOC site, we assume the backup voice infrastructure at DEOC must be used for sending voice messages. Please add this in scope of work.</p>	Yes. Telephone lines will be provided by the employer as per final design of selected system



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
216	Page 215, Note to Bidders, Pt. 02	The softcopy of updated Data Backup Storage for Logs, mobile data of Government officials, villagers, fishermen, tourist hotels etc.. For Group Based Text & Voice SMS shall be handed over to the Purchaser on monthly basis.	a) We understand this will mean that a full database dump containing all records of GMS will be provided to Purchaser on monthly basis. Please confirm. b) Is Group Messaging System (GMS) expected to backup to a dedicated backup server at SEOC, or is GMS vendor expected to backup to an offsite/cloud server based on Vendor Standard Operating Procedures? Please confirm.	Storage for all the data is in scope of bidder and he has to design according to project objectives.
217	Page 215, Note to Bidders, Pt. 05	Bidder shall include cost of the activation charges for the SIM card inside SEOC for GSM Connectivity for two years after successful commissioning and acceptance of the system.	In modern web-based GMS, SMS is sent not via SIM card inside SEOC, but via an SMPP standard link to SMS sending engine (as indicated in Figure-5: Message dissemination network architecture) . Our recommendation is that this requirement be updated in order to ensure SIM card inside SEOC is <b>not</b> required, in scope of GMS.	Figure 5 is an indicative high level diagram. Bidder has to design and install appropriate system in accordance with the project objectives.
218			Does a sub contractor/ venture partner/ OEM bound to comply with all conditions under "Historical Financial Performances, Average Annual Turnover, Financial Resources, General Experience and Specific Experience" if joins hand with the lead bidder or lead bidder's eligibility criteria is sufficient for all stakeholders?	Requirements are clearly defined in case of JV / Consortium partners. These conditions are not applicable for sub-contractors or OEMs. Refer Clause 1.6 (e) page 64 and clause 2 Qualification on page 66.
219			If any stakeholder has positive net worth in last 3 years as per audited balance sheets, will that be eligible to bid?	Provided the stake holder also meets other eligibility and financial conditions

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
220	Page 57, 1.4. Functional Guarantees of the facilities – Technical aspects.	Up time Better than 99.5 % ( $\geq$ 99.5%)	Since GMS uptime at SEOC in previous point is defined as "Better than 99.9 % ", what does > 99.5% total uptime in the next row refer to? Please confirm GMS uptime in %	Clause is modified to as - This uptime refers to overall system including network. GMS up time refers to only hardware and software within SEOC and back-up DEOC.
221	Page 214, Clause 15.1 Group Messaging (SMS) System, 31 Service provider responsibility (iii) System Integration with major Telecom Service Providers	Group based Message System Integration with major Three (At least) Telecom Service Provider available in Gujarat	We understand that this means Group Messaging System must be able to send alerts to mobile phones subscribed to all major (at least 3) TSPs in Gujarat. Kindly confirm. We also understand that "Integration with TSP's" refers to capability of the system to directly connect with the TSP for sending direct messages to the public based on their current location. Kindly confirm if the same is also in scope for this RFP. If above is yes, then there has to be additional infrastructure to be installed within each TSP apart from integration between SEOC and each TSP. Kindly confirm the scope as per this tender.	There is no requirement to send SMS to 'Public' . Predefined group of first responders will be sent SMS. TSP has all the infrastructure to send SMS to specified numbers although bidder has to integrate and maintain the whole system along with integration to maintain service delivery.  Location based Alert system is added in the scope- Refer Corrigendum -III for Reference.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
222	Page 190	Figure-5: Message dissemination network architecture	<p>a) What does "SM" in the figure stand for? Please clarify.</p> <p>b) The SMSCs are numbered <b>SMSC-1</b> and <b>SMSC-3</b>. Connection to more than one SMSC is not mentioned in scope of work for GMS. A single SMS Sending Engine connected to GMS via SMPP can send to subscribers of all telecom operators in the state.</p> <p>c) Architecture diagram implies Location based Alerting and is in contradiction for Group Messaging as per defined scope, wherein the alert will only go to contacts / groups and is not based on current Location of the subscribers. Kindly advice and confirm the same.</p>	<p>"SM" refers to "SMPP" here. Location based alerting is not included in the requirement. Understanding that current location of the recipient is not in current scope.</p>
223	page 190, 9.4 Group Messaging	The web-based application Software shall be hosted centrally on a redundant server system at SEOC (with option for installation of redundant system at another secure location).	<p>a) Please clearly mention that installation of GMS on DEOC (backup site) is also part of scope for this tender, so that this is consistent throughout the tender.</p> <p>b) Are there uptime requirements for GMS on DEOC backup as well? If so, please update "1.4. Functional Guarantees of the facilities – Technical aspects." to include this.</p> <p>c) Is there a need for DEOC backup system to have redundant servers? Please confirm.</p>	<p>a) Yes b) Yes c) yes</p>

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
224	Page 191, Scope of work for Group Messaging System (f)	Integration with multiple channel systems: The proposed application shall have capability to be integrated with the following: ü Facebook / Twitter ü CAP Compliant systems ü SMS service providers ü Mobile Apps ü Sirens/ PA systems	Kindly advise, if the Integration with above mentioned channels i.e. Facebook / Twitter, CAP, etc. is in scope for current RFP. If yes, does it have to be done from same application from which SMS / Voice message is being sent?	As mentioned in the RFP - The proposed system should have a capability to integrate with other platforms such as Twitter, Facebook.
225	Page 212, 15.1 Group Messaging (SMS) System, Item 25	The status of log to be displayed in the TV screen on GIS platform in green /orange /red for the SMS read/received/not read etc.	a) Read receipts are not possible in SMS technology, only Delivery reports would be available. b) Further, this requirement would require the address of subscribers which can be provided on web-portal where public citizens provide their address via GIS, and alerts to those address-based recipients will be displayed on GIS platform. Regular contact / Group alerts has nothing substantial for GIS display. c) We suggest that status can be made available for Voice calls as well as defined in your section 15.1 Group Messaging (SMS) System, pt. 10.	a. This limited facility of delivery confirmation report may be accepted provided system meets all other important specifications b) Address of the intended recipients may be provided on the web portal if necessary c) Bidder is expected to design a full proof system with redundancies and status reports.
226	Appendix to Technical Part - 13 Proposed Subcontractors for Major Items	“..... Bidders are free to propose more than one for each item”	Option to have more than one OEM for each item will lead to confusion when evaluating the bid. Further, it will also mean lack of commitment from OEM as they will not be sure of getting the business even if there supporting SI wins the contract. Hence, it is advisable that it should be restricted to one OEM for each major item by each bidder.	Clause remains unchanged.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
227	Page 215, Note to Bidders, pt. 04	The Bidder shall integrate the System at SEOC at Gandhinagar, Gujarat.	Can you confirm if deployment of backup system at DEOC is also in scope for this tender? If yes, are there any requirements on server setup at DEOC?	Yes. A full fledged back-up system is necessary at selected DEOC
228	Page 192, Scope of Work for Group Messaging system, pt. (a)	a) The Bidder shall submit a complete proposal for the supply, delivery, installation, commissioning and maintenance (2 years under warranty and 3 years under AMC from the date of Successful Operational Acceptance) of the Group Messaging system on a Web based Software	In the tender, "Commissioning of facilities after acceptance testing within Maximum 270 days from the date of signing of contract. " is provided as a parameter. We assume that any delays from purchaser in performing operational acceptance following installation of the system will be excluded from this 270 day technical parameter.	Yes. The assumption regarding delay in performing operational acceptance if any due to sole responsibility of purchaser will be excluded from 270 days,
229	Page 213, 15.1 Group Messaging (SMS) System, pt. 24 Message modification	Create, Edit, Reply, Forward, Export, Delete or Send SMS messages	Our understanding is that Create / Edit / Delete refers to operations on the message content performed by GMS user before sending an alert from GMS. Alerts once sent cannot be modified as per integrity criteria 31(ii). Please confirm. Reply: we assume this means that a contact who received an alert from GMS system can respond using specific keywords. Such responses are collated and displayed on GMS. Kindly confirm. Forward: we assume this means that GMS user can re-send a previously sent alert to a group/contact again, either to same group/contact or to another group. Please confirm. Export: we assume this means that historical alerts sent from GMS can be exported into a standard spreadsheet.	1) Yes Create, edit, delete operations are for message content. 2) Reply - Bidder's understanding is correct. 3) Forward - Bidder's understanding is correct. 4) Export- Bidder's understanding is correct. Other reports can also be downloaded in CSV/XLS/PDF format.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
			Please confirm.	
230	Page 184, 7. Business requirements to be met by the system,	Last mile connectivity with people in vulnerable locations using: a. Cell phones and land line telephones (fixed telephones)	For this requirement, we assume there is a portal where members of public will provide their address on a GIS map, and alerts to those members of public will be sent via SMS or Voice based on that citizen provided address. Please confirm if such address-based alerting of people in vulnerable locations via SMS and voice calls is in scope.	This requirement refers only to first responders and designated government / non-government officials in disaster zone and not general public.
231	Experience criteria		For all other sub-components, eligibility criteria have been published for bidders. However, for Group Messaging System, eligibility criteria are not published. We recommend that you add appropriate eligibility criteria for GMS sub-system so that experienced and competent vendors are selected for participation in the tender. We suggest adding the following: Prebid Qualifications: The bidding entity should have experience in the field of public alerting and have minimum 3 national or 3 state / regional level public alerting systems sold to the Government commercially in the last 10 years. Prebid Qualifications: The bidding entity should have earned a revenue of USD 15 million or more from national public alerting systems contracts sold to the Government commercially in the	No Change

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
			last 15 years.	
232	9.4 Group Messaging, page 190	The web-based application Software shall be hosted centrally on a redundant server system at SEOC (with option for installation of redundant system at another secure location). The system software should also be stored on a <i>cloud</i> ....	<p>a) As per scope of work and "Appendix to Financial Part Schedule No 2" and "26. System Inventory Table", GMS will be deployed at SEOC and one of the selected DEOC for backup. Please confirm.</p> <p>b) As we understand based on the above line and "26. System Inventory Table", that setup of GMS on cloud is not in scope. Kindly confirm.</p> <p>c) We recommend adding requirements for redundancy of the SMS sending Engine. i.e.; have 2 sending engines from different operators, so that GMS can send alerts via redundant systems.</p>	<p>a) Yes</p> <p>b) Set-up in cloud is required. Please refer to page number 190</p> <p>3) specifications are for a redundant system at SEOC as well as DEOC. Connectivity with 3 telecom operators is proposed.</p>
233	Schematic Diagram, Page 192	Equipment and link for transmission of alert messages from SEOC to be provided by bidder linking	Please confirm if transmission links from SEOC to organizations engaged in public Broadcast Radio operators in the region, DTH operators or similar other facilities are in scope of Group Messaging System	Refer Query No. 153.
234	9.4 Group Messaging, page 191	It should also be possible to forward warning messages via alert Towers.	<p>This is assumed to mean that Alert Towers will have mobile / fixed line numbers associated with them, and Group Messaging System (GMS) will send voice calls or SMS messages to these fixed / mobile numbers as stored in the GMS system.</p> <p>Alert towers will receive and process such voice calls or SMS based on their configuration. Please confirm.</p>	Bidders understanding is correct.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
235	9.4 Group Messaging, page 191	The Media Broadcast Stations will be included in a dedicated group and will receive alert messages for dissemination via the AM / FM Radio stations, TV stations etc.	This is assumed to mean that Broadcast stations will have mobile / fixed line numbers associated with them, and Group Messaging System (GMS) will send voice calls or SMS messages to these numbers individually or as a group as stored in the GMS system. Broadcast station staff will receive and process such voice calls or SMS based on their standard operating process. Please confirm.	Broadcasting via AM/FM Radio stations , TV stations etc. is not in scope of bidder.
236	15.1 Group Messaging (SMS) System, pt. 8 Retransmission of message, Page 212	If a receiver misses a voice call, he may call back the number from which the call came. In such an event the system must playback the message meant for the user, when the call is received by the system	From the PRI lines provided to GMS for voice sending, certain number of lines will be allocated for call back. SI will be responsible for getting the numbers that recipient can call back to as a subset of the total PRI lines.	PRI lines will be provided by Employer as per design of the GSM system
237	15.1 Group Messaging (SMS) System, 31 Service provider responsibility (II) Integrity and certification of SMS	The service provider shall forward all SMS in the same form as is received by it from NDMA. Further, NDMA takes responsibility for content of all SMS sent and shall not send any unlawful or unsolicited SMS contents from any of the user accounts. However, the service provider on its part will ensure that all requisite certifications and processes are in place which ensures that data integrity is maintained at all the times at its premises.	This is understood that whatever alert content is input in GMS is what will be sent to all recipients. Please confirm.	Bidders understanding is correct. All the sent SMS Reports can be downloaded with date selection and checked in CSV/XLS/PDF format.



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
238	15.1 Group Messaging (SMS) System, pt.17, Page 212	Text to Speech engine - with English, Hindi and local language (Gujarati) will need to be procured by SI. Concerned OEM will provide technical inputs.	It is assumed that SI will procure TTS engine with English, Gujarati and Hindi TTS. Concerned OEM will provide suggested product technical inputs.	System design is in the scope of bidder and functional understanding of the requirement of the bidder is correct.
239	15.1 Group Messaging (SMS) System, pt.1, Page 212	System shall use standard HTTPS port for sending alerts. For high security service provider must also support SSL layer for transferring information	Server SSL certificate for the GMS system will be procured by customer.	SSL is to be purchased and deployed by the bidder. Client details will be provided to successful bidder.
240	15.1 Group Messaging (SMS) System, pt.26 Priority	System shall be able to send SMSs on priority bases	This is a feature of SMS service provider (TSP or TSP partner) to provide.	Bidder is responsible to ensure proper implementation of the system.
241	15.1 Group Messaging (SMS) System, pt.28 QoS	Quality of Service: Service provider will ensure a high quality of service. Servers deployed should have inbuilt redundancy and auto change over mechanism to back-up system in case of failure of operating system	a) Our understanding of this requirement is that the Group Messaging System hosted at SEOC will fail over to the backup system hosted at DEOC, when the main SEOC site has problems. Please confirm. b) Our understanding of "auto change over" is that the change-over is performed without any intervention of the GMS end-user. Kindly confirm.	Bidder's understanding is correct
242		28-29/20.3(a) & 47/BDS/ITB 20.1:	Bid Security: BG issued by Nationalised Bank in India: Pl consider / include: scheduled bank located in India along with Nationalised Bank, as well.	Refer Corrigendum III

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
243		61-62/1-3: Liquidated Damage (LD):	Submit for consideration that: LD be calculated as percentage on left out / remaining quantum of work. Also, delay involved in acquiring WPC license etc, should be excluded from the time period for calculation of LD.	Clause remain unchanged
244		69/2.3.2: Minimum average Annual Turnover: last 3 financial years: INR 200 Cr, each partner 25%, at least one partner 50%:	When equivalent total amount of INR 200 Cr is considered for average annual turnover for last 3 financial years, it is requested that, 25% requirement for each partner be diluted to 13-14% in lieu of presently shown value of 25%. Alternately, average turnover may be brought down to equivalent of INR 100 Cr and requirement for each partner may be retained at indicated value of 25%. Turn over of JV partners, Consultants, be permitted to be considered.	Refer Corrigendum III for modified clause
245		70/2.3.3: Financial Resources: Cash Flow Requirement INR 36 Cr, each partner 25%, at least one partner 50%:	Solas Marine Services Pvt Ltd is a reputed company with good financial standing on their own and with their JV partners. We have requisite financial resources to meet capital requirements for executing the NCRMP II contract. An assurance certificate in this regard will be duly submitted, along with bid.	Welcome
246		71/2.4.1: General Experience: Experience & proven record: for at least 5 years and with activity in at least last 1 year:	Request that activity in last 3 years to be included in lieu of indicated 1 year.	The clause is modified to as - Experience & proven record: for at least 5 years and with activity in at least last 3 year:
247		71-72/2.4.2: Specific Experience: Contractor Within last 5 years of values (i) 2 contracts each of INR 50 Cr or	Request consider projects during span of 10 years duration in lieu of indicated 5 years, and experience of sub-contractors and JV partners, be permitted to be	Clause remain unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		(ii) one of INR 80 Cr, successfully and substantially completed:	included.	
248		144/Sl-17: Integrated Emergency Warning System:	It is observed that number shown as: 1, whereas locations indicated are: at SEOC and all TEOCs; Request reconcile, as deemed fit.	Warning system at SEOC and TEOCs will operate as one integrated system. SEOC will control all sirens during normal conditions and concerned TEOC will take over the function of monitoring and control of sirens within its geographical area in case of any problem in centralized control from SEOC. Number one specifies the whole system with hardware.
249		194/(b): Mast Type & Installation: certification agency:	Request that Certification by accredited laboratories may also be considered for inclusion.	Clause remain unchanged
250		195/(d): Weight of sirens and associate equipment:100 Kgs:	Weight of siren is specific to a location based on installed active modules, as required by design, starting from 100 to 150 Kgs, depending on operational and functional requirements. Request, weight aspect please be left to the Bidder to ensure robust and lasting design, based on relevant parameters. Mast will be suitably designed and duly certified, as required.	Refer Query Number 23

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
251			<p>We are finding difficulty in participation in view of restrictive PQ criteria in the clause no 2.3.1. under the Historical Financial Performance which reads “ to demonstrate the current soundness of the bidder’s financial position and its prospective long term profitability. The above restrictive pre-qualification criteria prohibits even the fully Government owned CPSU live BSNL with all India Presence as well as relevant work experience from participating in the tender. The PQ criteria is even against the spirit of CVC guidelines issued via OM No. 12-10-1-CTE-6 dated 17th Dec 2002.</p> <p>We therefore request you to kindly look in to this issue and arrange to either remove the provision of clause 2.3.1 altogether OR to exempt Telecom CPSU’s OR restrict it to the positive net worth in last 3 years so that we can participate in the above tender.</p>	Clause remain unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
252	ITB 21.1 Page no. 32 11.Documents Comprising the Bid Page no. 19	Only the originals of Power of Attorney and the Original Affidavit vouching for the correctness of the information furnished shall be delivered before the bid submission deadline. Further the bid consists of hard copy original Technical Part and online submission of Technical and Financial Part.	Please clarify whether only originals of Power of Attorney and the Original Affidavit is required to submitted as hardcopy (physical submission). OR The Total Techno-commercial bid in Hard copy is required to be submitted.	List of documents to be submitted physically is provided in this clause. Which is - Required documents include: a) original demand draft (for Rs. 15,000) towards the cost of bid document and registration on e-procurement website (if not previously registered); b) original bid security in the name of Gujarat State Disaster Management Authority, Gandhinagar, in approved form c) power of attorney to sign the bid document in the name of the person who signs the bid d) original affidavit regarding correctness of information furnished with bid document e) Technical Bid in hardcopy which is uploaded on e-procurement website. Financial bid is not to be submitted in hardcopy.
253	17.Bid Prices and Discounts Page no. 25	These charges should also include cost of consumables (fuel, electricity, stationary etc.)	As per standard practice followed in all such types of tenders, customer always bear the cost of consumables like fuel, electricity, stationary etc. so please amend the clause accordingly.	Clause remains unchanged. The whole operations and maintenance with manpower and consumables is responsibility of the bidder.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
254	ITB 20.1, Page	<p>As per standard practice followed in all Government tenders, they allow EMD, PBG, Security Deposit etc. in Bank Guarantee format, so please allow BG from Nationalized Bank including the public sector bank or Private Sector Banks etc. <b>as per the G.R. No. EMD/10/2018/18/DMO dated 16.04.2018</b> Refer existing clause in <b>Government of Gujarat Tenders.</b></p> <p><b>List of approved Banks:</b> All Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. No. EMD/10/2018/18/DMO dated 16.04.2018 issued by Finance Department or further instruction issued by Finance department time to time.</p>	<p>As per standard practice followed in all Government tenders, they allow EMD, PBG, Security Deposit etc. in Bank Guarantee format, so please allow BG from Nationalized Bank including the public sector bank or Private Sector Banks etc. <b>as per the G.R. No. EMD/10/2018/18/DMO dated 16.04.2018</b> Refer existing clause in <b>Government of Gujarat Tenders.</b></p> <p><b>List of approved Banks:</b> All Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. No. EMD/10/2018/18/DMO dated 16.04.2018 issued by Finance Department or further instruction issued by Finance department time to time.</p>	Clause Remain unchanged

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
255	no. 48	A bid security is required; the amount of the bid security shall be <b>INR 1,20,00,000.00</b> (INR One Crore and twenty lakhs only). The bid security shall be Bank Guarantees from Nationalized Bank	As per RBI Guideline for making BG, IFSC Code of purchaser is required, hence we would request you to please share IFSC Code of the purchaser.	Refer Corrigendum III
256	2.4. Experience	2.4.1 –b. General Experience : Should possess ISO 9001:2008 or later certification. Valid ISO 9001:2008 or later certificate/s required to be submitted.	Looking to the security concern and IT Service Management, we would request you to please add latest ISO 20000 & ISO 27001 along with ISO 9001.	No Change
257	2.5. Personnel– Page no. 73 20. Technical support manpower requirements – Page no. 239	2.5. Personnel; The Bidder must demonstrate that it will have the personnel for the key positions that meet the following requirements  20. Technical support manpower requirements:	Please clarify more in this reference for manpower mentioned at two places. We understand mentioned Personnel in clause 2.5 are required to demonstrate or Technical capability purpose.  However Technical support manpower requirements in clause 20 are for Technical support for day to day operations for a period of two years after successful commissioning of the project. Please confirm.	Reference on page 73 refers to manpower required to implement the project where as reference on page 239 refers to operational staff to be provided during O&M and AMC stage .

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
258	22.2 Inspections page no. 243	Factory Inspection of sample items shall be carried out by the purchaser prior to the shipment of the major items like Alert Tower Siren System, to check the specifications as per the technical requirements of the Tender. It is made obligatory that Factory Inspection Test (FIT) reports shall be a part the documents for release of payments	Please note that majority materials in this bid are imported materials and from different locations across the world, hence inspection at factory premises is not feasible and viable for this tender. Kindly confirm that the time taken for Factory Inspection (in India or Abroad) would be considered extra over and above the given project schedule of 9 months.	Final decision on whether to conduct factory inspection (in India or abroad) will be taken by the employer based on reputation of OEM product. Inspection will be waived in cases where the employer feels that delivered product will be of required quality and in house factory acceptance tests carried out by OEM are trustworthy. Schedule for factory tests will be adjusted to match in house factory acceptance tests and no additional time will be allotted for this purpose.
259	Business Function and Performance Requirements Page no. 117	8. Functional Performance Requirements of the System	We understand that Primary Connectivity is GSWAN but please confirm second connectivity or failover connectivity in sequence for Internet, VSAT and Satellite.	Data connectivity preferences will be as follows: 1. GSWAN 2. Internet 3. VSAT and 4. Satellite
260	195 - 9.6 Point D.	The proposed Siren Pole and Tower shall be suitable to carry load of 100 KG weight of Horn speakers and associated equipment mounted over them	We humbly propose that the criteria for the maximum weight for the horn assembly should be eliminated and the towers should be designed corresponding to the wind speed and weight requirements of the proposed horn assembly.	Refer query number 23



S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
261	206 - 14.1(3)	Display - Should be equipped to display the location map of all RTUS & colour coded icons for status of RTU / Alert and Warning Terminal (AWT) locations/sirens. It should also support the ability to display an unlimited number of different map views.	We humbly propose that the clause be read as "Should be equipped to display the location map of all RTUS & colour coded icons for status of RTU I Alert and Warning Terminal (AWT) locations/sirens. It should also support the ability to display multiple map views."	Refer Query number 52.
262	209 - 14.2 -4	RTU - RTU should include high powered audio amplifier compatible to work with the Speaker Horn Array. All the electronic unit i.e. RTU, Communication Interface Card, VSAT modem, Solar power controller and Loudspeaker Audio Power Amplifier with back-up battery should be housed in a IP 65 Stainless Steel Outdoor Cabinet with lock & key arrangement. This cabinet can be kept safely inside nearest government or public building such as the Cyclone Shelter Building or should be mounted sufficiently high from the ground level on 15- meter tower planned at sea beach etc. so that they are out of reach of mischief makers.	Kindly allow that the cabinet should be "IP 65/ NEMA 4X/weather resistant cabinet with Lock and Key arrangement."	Refer Query number 25

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
263	209 - 14.2 (6)	<p>Horn speakers - Horn speakers 4 units or more per location are to be mounted on towers as specified earlier in this document. Mounting Fixtures are to be provided by the contractor. The audio output power should be at least 300 watts RMS continuous per amplifier (or 600 Watts peak per Siren) or more.</p> <p>Direct-Single-Horn-Replacement must be possible at any time. Horns should be light weight, rugged, weather proof and compact in size and shape. They should be moulded in metallic aluminium finish for long lasting and rust proof even under saline weather conditions. Total weight of horn assembly should normally not exceed 80 kgs. Horns should preferably in rectangular shape and comply with low voltage directive standard EN 60065. Degree of protection for the horns should meet IP 65 specifications for protection against foreign particles such as dust and jets of water. In short, these installations should be ideal for outdoor use. The Loudspeaker cable should be double insulated to connect</p>	<p>Horn speakers are to be mounted on towers as specified earlier in this document. Mounting Fixtures are to be provided by the contractor. The speaker array acoustic power (decibel rating) should be minimum 120 dB at 30 meter (on axis) as per FEMA standards expected to produce 65 to 70 dB sound level at a distance of 1 Km from the siren location.</p> <p>Direct-Single-Horn-Replacement must be possible at any time. Horns shall be rugged, weather proof and compact in size and shape. They should be moulded or spun cast aluminum suitable for extended outdoor use in coastal locations. Degree of protection for the horns should meet IP 65 specifications for protection against foreign particles such as dust and jets of water.</p>	Refer query number 22

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
		with the speaker amplifier. All Speaker cable must be routed inside the mounting pole or covered by metal tube (pipe).in case these are routed outside the tower. The installation must follow best practice and should be away from any potential source of interference such as mains cable, data cable & telecom cable. The horn must also have a "netted" cover to protect against flying insects entering the horn and thereby damaging the horn/ driver.		
264	210 - 14.2 (9)	<p>Solar Panel - The Solar Panel shall be rated for 12V and 150-Watt output and should be roof mountable on selected Building for mounting of warning message amplifier / horn system.</p> <p>It shall be responsibility of the bidder to replace the solar panel system at free of cost in case of damage due to natural forces during warranty and AMC period. The Solar Panel should be IEC 61215 Ed. 2 and IEC 61730 Safety Class II UL 1703 &amp; 4703 compliant</p>	<p>We humbly propose that the clause be changed to "The Solar Panel shall be rated for 12V/24V and 150-Watt output and should be roof mountable on selected Building for mounting of warning message amplifier I horn system.</p> <p>It shall be responsibility of the bidder to replace the solar panel system at free of cost in case of damage due to natural forces during warranty and AMC period. The Solar Panel should be IEC 61215 Ed.2 and IEC 61730 Safety Class II UL 1703 &amp; 4703 compliant</p>	Refer query number 26.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
265	210 - 14.2 (10)	Solar Battery Bank - The Alert Tower Siren System shall operate from 12 V (nominal) DC obtained from normal 230 V AC mains power Supply or from back-up battery of 12 volts,150 AH capacity. The storage batteries shall be sealed maintenance free Tubular GEL Vent Regulated Lead Acid (VRLA) type suitable for solar application	The Alert Tower Siren System shall operate from 12 V or 24 V (nominal) DC obtained from normal 230 V AC mains power Supply or from back-up battery of 12/24 volts, 150 AH capacity. The storage batteries shall be sealed maintenance free Tubular GEL Vent Regulated Lead Acid (VRLA) type suitable for solar application:	Refer query number-26 and 27.
266	64 - 1.6	Offered product OEM/Authorized Partner/Service Provider - (Alert and Warning System) - He should have implemented of at least two (2) nos. Alert Siren System with minimum 50 locations each for Mass Notification in last 5 years. Successful completion certificate /purchase order with delivery or shipping document or payment as a proof from competent authority required to be submitted.	Offered product OEM/Authorized Partner/Service Provider should have implemented minimum two projects of Alert Siren System with consolidated total of minimum 100 locations for Mass Notification in last 5 years . Successful completion certificate or any support document for completion along with purchase order-as-a proof of eligibility. The same is required to be submitted along with Technical Bid.	Clause remains unchanged.
267	-		In order to increase the life and efficiency of the Siren system desired, we propose that the batteries and electronics should be kept in a separate weather resistant cabinets. We request to make the condition mandatory in the RFP to keep all bidders at par for fair techno-commercial evaluations.	No changes in specifications. Bidder has to design appropriate solution meeting all the requirements of the RFP in accordance with the objectives of the project.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
268	Ref.2.3.2	Minimum average annual turnover in IT/ Telecom infrastructure services I Disaster management services businesses of INR 200 Cr calculated as total certified payments received for contracts in progress or completed, within the last 3 financial years	Turnover of EPC projects related to infrastructure or system integration of electrical, communication, electronics, SCADA should also be considered.	EPC projects related to infrastructure other than ICT systems and of purely electrical system will not be considered. Please also refer to clarifications for next query below.
269	Ref.2.4.2	Participation as contractor, joint venture partner I, management contractor, or subcontractor, within the last 5 years in (i) two turnkey contracts each of value at least INR 50 Cr. or (ii) one turnkey contract of value of at least INR 80 Cr, that have been successfully and substantially <sup>2</sup> completed and that are similar to the proposed requirements of this project. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section VI, Employer's Requirements or Similar ICT Projects.	Does similar work means system integration works as well for infra projects such as SCADA, wireless data communication, electrical and civil.	Similar works include EWDS, Emergency Operations Centers, Network Management centers, VSAT and telecom networks, WANs etc. Projects related to SCADA and wireless data communications will also be considered, however purely electrical and civil works will be not be included in the scope.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
270	208	RTU Functionality -The RTU should receive and decode warning instructions sent from SEOC or TEOC via the cellular Network (GSM/GPRS) or the VSAT network to either live or by activating pre-recorded message and initiate broadcast of warning messages through the audio system. On receipt of a valid warning signal the RTU will play the alert message via high powered speakers for a pre- determined duration. The RTU to Control Station medium can be Cellular Network (GSM/ GPRS) and the VSAT network. As already explained in IFB document the Control Station will be more than one and these can be located anywhere e.g. SEOC and TEOC.	Detailed Specs & requirements for amplifier should be added such as: Ø Must be Class-D Ø 19” modular plug in type board Ø Efficiency rate of higher than 97% Ø 300W output power Ø Continuous operation of at least 30 min with full power Ø In case of overheating ( after 30 mins) the amplifier must be still operational and should run at least with reduced output power. Ø It must not switch off because of overheating.	Suggested changes in specifications are not approved as these may restrict scope of supply. The bidder is expected to offer well designed and highly reliable warning system for disaster management purpose.
271	209	Horn Speakers- Degree of protection for the horns should meet IP 65 specifications for protection against foreign particles such as dust and jets of water. In short, these installations should be ideal for outdoor use.	The horn speakers does not have IP65 rating, because of opening for sound outlet. Yes cabinets can be IP 65. Allow cables inside the poles.	Specifications of IP-65 standard are limited only to protection from dust particles and water spray due to proximity to sea coast. Bidder has to design appropriate solution meeting all the requirements of the RFP in accordance with the objectives of the project.

S.No	Section No, Clause No Page No	Description	Query/Suggestion	Response
272	210	Solar battery bank- The Alert Tower Siren System shall operate from 12 V (nominal) DC obtained from normal 230 V AC mains power Supply or from back-up battery of 12 volts, 150 AH capacity. The storage batteries shall be sealed maintenance free Tubular GEL Vent Regulated Lead Acid (VRLA) type suitable for solar application	We require the following changes: Ø Siren operating through 24V DC should also be added which is a standard solution.	Refer query number 26 and 27.
273	Section- III – Evaluation qualification criteria 2.3- Financial Situation 2.3.1 - page 69	Average Annual Turnover Minimum average annual turnover in IT/ Telecom infrastructure services/ disaster management services business of INR 200 Cr. Calculated as total certified payments received for contracts in progress or completed, within the last 3 financial years.	The projects related to Early Warning system is new in India and the agencies who have executed this type of projects is very limited. As per the criteria for annual turnover from IT/ telecom infrastructure services/ disaster management services, very few agencies would be able to meet this requirement. We would therefore request you to kindly consider the turnover related to the business of EPC contracts of water supply schemes where the components of Automation and instrumentation system included. This will enable more bidders to participate and thereby enhance competition level in the bidding. Request to consider and relax the criteria suitably.	Refer Query number 3.

## Appendix C: Corrigendum to RFB

GUJARAT STATE DISASTER MANAGEMENT AUTHORITY (GSDMA)  
EARLY WARNING DISSEMINATION SYSTEM (EWDS)  
NATIONAL CYCLONE RISK MITIGATION PROJECT II (NCRMP-II)

Bid Number: IN-GSDMA-115480-RFB

N Procure Tender ID: 373193

**Date: 23/9/2019**

### Corrigendum-III

Name of Work: Selection of System Integrator (SI) for supply, installation, testing and commissioning of Early Warning Dissemination System (EWDS) and Emergency Operations Centers as well as Operation and Maintenance and Annual Maintenance Contract Services under NCRMP-II Project.

With reference to the captioned subject matter, GSDMA has issued Corrigendum/Addendum to the Bid document, details as under: -

Sr No	Reference	Modified/Added Clause
1	BDS ITB 23.1	The deadline for uploading the bids: Date: <b>10/10/2019</b> Time: 1500 hours
2	BDS ITB 20.1	No Change
3	BDS- Award of Contract ITB 42.1	Subject to ITB 41.1, the Employer shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be eligible and qualified to perform the Contract satisfactorily. Bidder to note - The bidder's technical solution must comply with the terms, requirements and specifications specified in the section VI to be considered as responsive and will be evaluated financially. The decision taken in this regard by the technical committee of GSDMA will be final. Bidder in his technical bid must provide the details of his proposed solution along with other documents required by the Bidding Document.



4	Section VII. General Conditions (GC)	There is a mismatch in numbering of main clauses and subclauses. Numbering should be considered according to main clause starting from 1. Definitions with subclause as 1.1 instead of 46.2. Rest of the clauses and sub clause numbering in this section should be read/referred in similar fashion/continuation.							
5	Section III - 2.3. Financial Situation - 2.3.3 Financial Resources	Factor	Eligibility						
		Sub-Factor	Requirement	Criteria					Documentati on Required
				Single Entity	Bidder				
					Joint Venture / Consortium				
					All partners combined	Each partner	At least one partner		
2.3.2 Financial Resources	Minimum average annual turnover in IT/ Telecom infrastructure services / Disaster management services businesses of INR 200 Cr calculated as total certified payments received for contracts in progress or completed, within the last 3 financial years.	Must meet require ment	Must meet Requirement  i.e. The Bidding Entity must meet the Total Business requirement Criteria	Must meet Fifteen percent (15%) of the requirement	Must meet Fifty percent (50%) of the requirement	Form FIN –3.3			

6	Price Bid Format	<p>Please refer the additions in price bid schedule 2, Schedule 5 and Schedule 6 in Annexure 4 , Annexure 5 and Annexure 6 respectively.</p> <p><b>Bidder has to fill the revised price bid available on nprocure portal.</b></p>
7	Addition in section VI	<p>Location based alert system is added in the scope of bidder to implement and bidder is advised to consider associated software hardware and integrations to be supplied.</p> <p>Changes/Additions for LBAS and related requirements are provided in the Annexure 3 and Annexure 7 to 15.</p> <p>Modifications regarding VSAT Network requirements are provided in Annexure 11.</p>
8	List of TEOCs	<p>Updated list of TEOCs is attached in Annexure 16.</p>

**Annexure 1** - Format for the declaration on correctness of information on bidder's letter head furnished with bid document

**<<Bidder's Letterhead>>**

**DECLARATION ON CORRECTNESS OF BID**

**Subject:** <<*Tender details*>>

Dear Sir,

We, <<Bidder Firm name>>, hereby submit our proposal in response to notice inviting tender \<Tender details>> and confirm that:

1. All information provided in this proposal and in the attachments is true and correct to the best of our knowledge and belief.
2. We shall make available any additional information if required to verify the correctness of the above statement.
3. Certified that the period of validity of bids is 90 days from the last date of submission of proposal, and
4. We are quoting for all the services mentioned in the tender.
5. GSDMA may contact the following person for further information regarding this tender:

<<*Point of Contact details including Name, Designation, Mobile No and Address*>>

Yours faithfully,

For {*Bidder firm name*}  
(Authorized Signatory)

Date:

**Annexure 2 - Format for declaration on blacklisting on bidders later head furnished with bid document**

**<<Bidder's Letterhead>>**

**DECLARATION OF NOT BEING BLACKLISTED**

To,  
{Employer}

We hereby declare that to the best of our knowledge and belief that {*Bidder firm name*} registered under the {*Act details*} and having its principal office at {*Bidder Firm address with Pin Code*} has not been debarred/black listed by any Government / Semi Government/ Quasi Government organizations in India for non-satisfactory past performance, or corrupt, fraudulent, unethical business practices.

Yours faithfully,  
For {*Bidder firm name*}  
(Authorized Signatory)  
Date:

*This declaration is issued solely for the purpose of evaluation of the proposal submitted in response to {Insert details} for {Insert details} issued by {Insert details} vide {Insert details} dated {Insert details} and shall not be used for any other purpose and in any manner whatsoever.*

**Annexure 3 – Changes/Additions in Section III – 1.4. Functional Guarantees of the facilities – Technical aspects**

<b>Parameter</b>	<b>To be committed in the bid document along with justification for performance</b>	<b>Minimum (or Maximum, as appropriate) Requirement</b>
Audio warning system coverage area	Audio power output and speaker horn system output efficiency to meet specifications	Coverage area should be a circle of 1.5 Kilometer radius.
Group messaging system	Reliability of the system at SEOC and maximum message delivery time up to recipient	Better than 99.9 % ( $\geq 99.9\%$ )  Maximum delivery time less than 5.0 minutes ( $<5.0$ ) when cell phone network is up and running
Location Based Alert system	Reliability of the system at SEOC and maximum message delivery time up to recipient	Better than 99.9 % ( $\geq 99.9\%$ )  Maximum delivery time less than 5.0 minutes ( $<5.0$ ) when cell phone network is up and running
Up time	System design to ensure resultant uptime of all redundant systems and networks (when at least one of the systems/ links for voice and data connectivity is available)	Better than 99.5 % ( $\geq 99.5\%$ )
Implementation period	Planned implementation period for: <ul style="list-style-type: none"> <li>• Setting-up all IT, communications (GSWAN, Internet links and VSAT nodes) and display systems at all EOCs,</li> <li>• Group messaging system, Location Based Alert System and connectivity with 3 TSPs in Gujarat state,</li> <li>• Warning system &amp; control stations at SEOC and TEOCs</li> <li>• RTUs at venerable locations</li> </ul>	Commissioning of facilities after acceptance testing within Maximum 270 days from the date of signing of contract and handing over possession of location free of any incumbencies

Fault rectification period	Rectification of faults, replacement of faulty equipment identified during acceptance testing and commissioning process	Within 3 working days from the date of fault identification
	Mean Time to Repair (MTTR) during operations and maintenance period	<ol style="list-style-type: none"> <li>1. Within 48 hours at SEOC and 72 hours at DEOC and TEOC</li> <li>2. Within 168 hours in case of all remote installations</li> </ol>
Operational staff replacement	Replacement of technical support and operational staff with persons with equivalent qualifications and experience to the satisfaction of employer should be guaranteed	Within 30 days from the date, earlier staff has left the job

**Annexure 4 – Addition in Section IV - Appendix to Financial Part Schedule No 2 - Schedule No. 2. Infrastructure and Mandatory Spare Parts if any**

Item Number	Description of Equipment	Quantity estimated but may be more or less	Unit	Location	Unit Rate At Site in Rs.	Total amount according to estimated quantities	GST		Other Applicable Taxes and Duties			Total Amount with Taxes and Duties In INR
							Applicable Percentage	Amount in INR	Description	Applicable Percentage	Amount in INR	
		A1			A2	A3= (A1)x(A2)	A4	A5= (A3)x(A4)	A6	A7	A8=(A3)x(A7)	A9= (A3)+(A5)+(A8)
					In Fig	In Fig	(%)			(%)		
<b>MESSAGING SYSTEM</b>												
18	Group messaging system	2	Nos	SEOC + Back up at 1 DEOC								
18.1	Location Based Alert System	2	Nos	SEOC + Back up at 1 DEOC								

**Bidder to note - All other line Items remains Same in Schedule 2.**

**Annexure 5 – Addition in Section IV - Appendix to Financial Part Schedule No 5 - Schedule No. 5.: Charges towards providing operations and maintenance staff of the infrastructure and operating expenses for initial 24 months post commissioning of the project.**

Item Number	Description of Equipment	Quantity estimated but may be more or less	Unit	Location	Estimated Rate in Rs.	GST		Total amount according to estimated quantities	
						Applicable Percentage (%)	Amount in INR	In Fig	In Words
3	Other Office work under O&M				1	2	3=(1)x(2)	4=1+3	
3.01	Group and Location based SMS Charges The cost of sending up to 100,000 text SMS (group-based SMS) and 25,000 Voice SMS per annum, For Year 1	1	Nos	SEOC					
3.02	Group and Location Based SMS Charges The cost of sending up to 100,000 text SMS (group-based SMS) and 25,000 Voice SMS per annum, For Year 2	1	Nos	SEOC					
3.09	All EOCs: Paper, Ink cartridges, Lamps and Tube lights etc. Electricity charges, painting of towers and poles etc. as per requirement and any other supplies for operating EOCs for the project for Year 1	1	Lot	SEOC DEOC TEOC					
3.10	All EOCs: Paper, Ink cartridges, Lamps and Tube lights etc. Electricity charges, painting of towers and poles etc. as per requirement and any other supplies for operating EOCs for the project for Year 2	1	Lot	SEOC DEOC TEOC					

**Bidder to note - All other line Items remains same in Schedule 5.**



**Annexure 6 – Addition in Section IV - Appendix to Financial Part Schedule No 6 Schedule No. 6. All-inclusive Annual Maintenance Contract charges / year for 3 years post initial 24 months of operations after commissioning of project (3RD, 4TH and 5TH of operation)**

Item Number	Description of Equipment	Quantity estimated but may be more or less	Unit	Estimated Rate in Rs.	GST		Total amount according to estimated quantities	In Words
					Applicable Percentage (%)	Amount in INR	In Fig	
2	<b>Other Office work under AMC</b>			1	2	3=(1)x(2)	4=1+3	
2.01	Group and Location Based SMS Charges The cost of sending up to 100,000 text SMS (group -based SMS) and 25,000 Voice SMS per annum, For Year 3	1	Lot			0	0	
2.02	Group and Location Based SMS Charges The cost of sending up to 100,000 text SMS (group -based SMS) and 25,000 Voice SMS per annum, For Year 4	1	Lot					
2.03	Group and Location Based SMS Charges The cost of sending up to 100,000 text SMS (group -based SMS) and 25,000 Voice SMS per annum, For Year 5	1	Lot					

**Bidder to note - All other line Items remains same in Schedule 6.**

**Annexure 7 – Changes in Section IV - Appendix to Technical Part - 13 Proposed Subcontractors for Major Items**

Major Items of Infrastructure and Installation Services	Proposed Subcontractors / Manufacturers (Provide for individual equipment separately)	Nationality
Group Messaging System including Location based Alert system		
Alert and warning System		
Network Monitoring System		
ICT Equipment		
Office Equipment		
VSAT network		
Internet Links		
RTUs		
Associated Civil Works		
All other Components		

## **Annexure 8 – Changes/Additions in Section VI – 7. Business requirements to be met by the system**

Component A of the NCRMP project i.e. EWDS, addresses a key part in relation to the issuing disaster early warning dissemination to vulnerable communities residing in Coastal areas. The benefits from the EWDS would be realized only if it leads to connectivity up to the Last Mile (up to locations of people living / working in coastal region). The ability to reach all vulnerable Citizens would enable dissemination of warnings to everyone and this information would result in minimizing the loss of human lives due to Cyclones and other meteorological disasters.

The Last Mile Connectivity aims at information dissemination from the State, and Taluka Level Emergency Operations Centers (EOC) to vulnerable Communities and similarly to establish a response link from communities to State, District and Taluka level EOCs, ensuring that the Last Man living nearest to the sea is well informed of actions to be taken to save themselves from approaching Cyclone and EOCs are aware of ground situation in vulnerable areas.

It is envisaged that connectivity amongst EOCs will be achieved by using different Information and Communications Technologies (ICT) viz.:

- a. Cell phones and land line telephones (fixed telephones)
- b. State Wide Area Network (SWAN) based on Multi-Protocol Label Switching (MPLS) technology
- c. Satellite-communications based handheld phones
- d. Satellite communications based Very Small Aperture Terminal (VSAT)
- e. Group Messaging system using cell phone networks, and Location Based Alert System

Last mile connectivity with people in vulnerable locations using:

- a. Cell phones and land line telephones (fixed telephones)
- b. Satellite-communications based handheld phones (carried by Government officials to disaster locations)
- c. Satellite communications based Very Small Aperture Terminal (VSAT)
- d. Remotely controlled alert tower siren / audio warning Systems

Use of above technologies will ensure that the warnings about the upcoming cyclones can be disseminated to Coastal Communities of Gujarat in an effective manner. VSATs are proposed at all EOCs for voice and data communications. VSATs planned at EWDS locations including tourist sea beaches, Fish Landing Centers (FLC) and salt panes will be used mainly to monitor control RTUs and will also provide last mile voice and data links. Warning messages will be used to further disseminate to fishermen at sea using existing analogue / digital Very High Frequency (VHF) radio links between FLCs / Coast Guard stations and fishing boats.

Satellite Based handheld phones will provide voice connectivity from disaster locations with State, District and Taluka level EOCs as well as with responsible senior government officers, when normal communication links are affected (damaged) due to cyclonic winds.

The Alert Sirens are to be installed at vulnerable villages, tourist beach locations, FLCs and salt panes. Sirens will be preferably installed on 7-meter-high poles, on suitable Govt. buildings if available near proposed sites and on self-supporting towers of 15-meter height, at all other locations. Alert sirens and audio warning systems shall be activated from the State Emergency Operation center (SEOC) as well as from concerned TEOC locations (only in respect of EWDS installed within the respective Taluka boundaries), as a back-up facility.

## **Annexure 9 – Changes in Section VI – 8. Functional Performance Requirements of the System**

The communication strategy of this NCRMP aims to cover the early warning dissemination applicable to cyclone and other hydro metrological disasters. Main aim of setting-up of communication infrastructure facility is to save the human and cattle lives and minimize the damages to movable property by the mitigation process of Early Warning Dissemination System (EWDS). An integrated technical approach is proposed for EWDS and ICT based systems at EOCs at State, District and Taluka levels which are necessary for remote monitoring and control of EWDS as well as to facilitate communications amongst stake holders during all stages (pre, during and post) of disasters situations. All the modern communication technologies were evaluated, and suitable ones are proposed in this RFB. The selected technologies are robust and will operate in redundancy mode and are proposed for necessary disaster response activities and use of all stake holders.

Proposed network architecture (as shown in figure-3 below) is based on use of redundant network resources and technologies and will utilize:

- a. Fixed line Telephones (landline) for voice communications amongst all stake holders
- b. Cell phone network for voice connectivity, text messaging amongst all stake holders as well as to monitor and control operation of alert and warning towers
- c. Gujarat State Wide Area Network (GSWAN) to support voice and data connectivity (including E-mail and Videoconferencing) between state, district and taluka level EOCs as well as other state government departments, responsible to support disaster management activities
- d. Broadband Internet links as back-up to GSWAN
- e. Inmarsat satellite communications network to support voice and very low speed data connectivity using handheld satellite phones to operate from any location within the state or other parts of India. These phones will operate, even in case of public telecommunications networks is non-functional, due to effect of disasters
- f. VSAT based satellite communications network for voice and data connectivity from all remote locations and for monitoring and control of alert and warning towers. VSAT links will also provide videoconferencing facility between EOCs
- g. Group messaging system at state EOC based on cell phone network. These messages will be sent to first responders, other important government functionaries and stake holders such as registered Non-Governmental Organisations (NGO) etc.
- h. Location Based Alert SMS (LBAS) Sub-system: the same system should have the capability to send alerts to mobile users within the demarcated area(s) directly connected through the Telecom Operator/s, on real-time basis based on near / real-time location information of the telecom subscribers. Please be noted that, LBAS is NOT a bulk-messaging utility.
- i. Alert and siren tower monitoring and control system at state EOC and Taluka EOCs

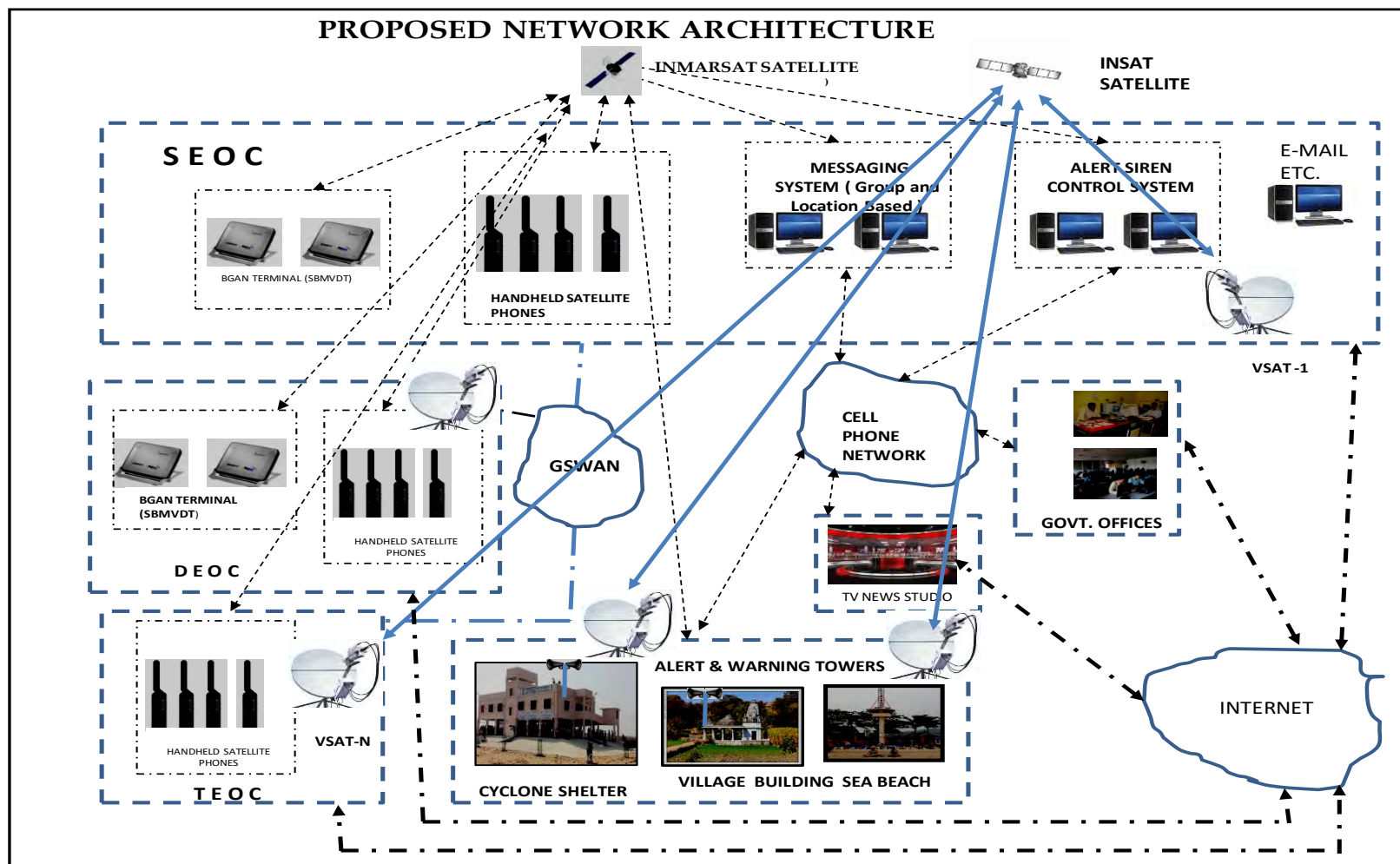


Figure-3: Communications Network architecture

Connectivity matrix for communication facilities with proposed technological and physical redundancies will be as given in following table. Reliability levels for voice and data connectivity better than 99.5 % are likely to be achieved

Sr. No.	Communications facility	Primary network resource	First Back-up	Second Back-up	Additional Back-up
1	Voice	Land line and cell phone network	GSWAN in case of Government offices /	Voice over IP using Internet links / VSAT	Inmarsat handheld phones

			EOCs	based Virtual Private Network	
2	Data / e-mails/ Videoconferencing	GSWAN	Internet links	VSAT	
3	Text messages	Cell phones	Inmarsat phones		
4	Video-conferencing	GSWAN	Internet links	VSAT	
5	Group alerts / Location based alerts / Warning message delivery	SMS sent to cell phones	Inmarsat handheld phones		
6	Warning dissemination system monitoring / control	Cell phone network	VSAT		
7	Warning message delivery to siren / audio system	Cell phone network	VSAT		

Functional Guarantees mentioned in the Section III clause 1.4 must be referred.

## Annexure 10 – Changes in Section VI – 9.4 – Messaging System

### 9.4.1 - Group Messaging:

Group Messaging is a warning and alerting system based on text or voice messaging via cell phone network, for effective communication with first responders and senior government functionaries responsible for disaster management in an emergency or disaster situation. Group Messaging system will provide advance intimation to government officials to initiate preventive actions to minimize likely of human lives due to impending disaster.

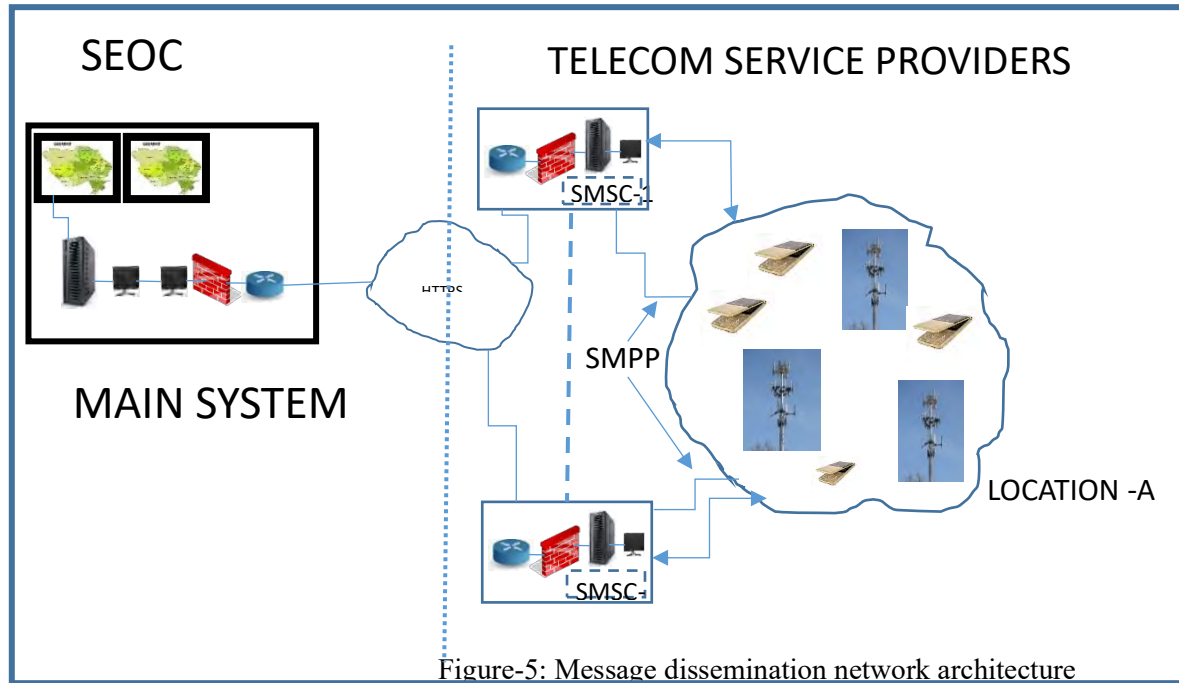


Figure-5: Message dissemination network architecture

Group Alert-based Message Solution sends messages in the form of text SMS / Voice messages to pre-determined set of phone numbers. SMS and Voice messages will be sent in 3 languages Gujarati, English and Hindi so that the all members of the community in vulnerable areas can understand the same. Such messages will also be sent to Media Broadcast Stations (TV and radio) which will broadcast the said warnings on the AM/FM Radios & TV. Such a System will encompass Alerting / Notifying known individuals, simply by sending to a group database. In addition, a native mobile app must be made available for iPhone Operating System (iOS) and Android platform to send Group alerts.

Choice of channel to send messages will be determined by time to impact of the event. The system has to ensure effective communication before, during and after an emergency.

The Group messaging system shall be a Web based solution and shall be provided as one-time supply of redundant hardware and software with perpetual operating license. All components of the package shall be accessible through standard Web browser without any need of extra Client software. The web-

based application Software shall be hosted centrally on a redundant server system at SEOC (with option for installation of redundant system at another secure location). The system software should also be stored on a cloud and it shall be possible to accessed through a secured Web Interface from SEOC or any other location for sending Group based alerts messages. In addition, a native mobile app must be made available for IOS and Android platform

The system shall be GUI based and able to send SMS and Voice messages to the predefined Mobile Nos. Such a System will encompass Alerting / Notifying known individuals, simply by sending to a group database.

It should also be possible to forward warning messages via alert Towers. The Media Broadcast Stations will be included in a dedicated group and will receive alert messages for dissemination via the AM / FM Radio stations, TV stations etc.

The bidder needs to tie up with Telecom Service providers for requirements for dissemination of group based alert messages.

#### **9.4.2 - Location Based Alert system**

Location Based Alert System (LBAS) allows for sending text messages (SMS) to all mobile subscribers and covers both national subscribers and international roamers whosoever present in the vulnerable area to be affected by Cyclone or any other Disaster. In LBAS, the operator is able to draw a polygon of a particular area through GIS map and send alerts to all people who are present at the time inside the polygon. Location based method sends alert to people based on their real-time location at the time of sending the alert.

Please be noted that, LBAS is NOT a bulk-messaging utility.

As said earlier, SMS technology can be used to send alerts in this method. Typically, choice of channel in this context can be determined by time to impact of the event. This can help in saving lives in the event of a natural or man-made disasters / emergency. The system has been designed to ensure effective communication before, during and after an emergency.

The system should provide delivery reports. Also, this system should be able to maintain the privacy of unlisted receivers.

#### **Scope of Work for Messaging system:**

- a) The Bidder shall submit a complete proposal for the supply, delivery, installation, commissioning and maintenance (2 years under warranty and 3 years under AMC from the date of Successful Operational Acceptance) of the Group Messaging system and Location Based Alert System on a Web based Software
- b) The Bidder shall ensure the setting up of required IT infrastructure and integration at bidder's Data Center and TSP premises to work the solution on.
- c) The Bidder shall need to submit letter of agreement from TSP specifying compliance with the relevant functionality related to Messaging Solution
- d) Requirement Study, Customization and deployment of Web based Messaging Application for sending the Group Based Messages and Location Based Messages
- e) The bidder shall update the mobile data of government officials, villagers, fishermen, tourist hotels etc. for Group Based Text & Voice SMS in consultation with the Purchaser on monthly basis.
- f) For the Location Based Alert System to work, integration is necessary with minimum of 3 Telecom Operators (eg BSNL, AIRTEL, VODAFONE, IDEA, RELIANCE etc) in the country. There is no violation of privacy, as all information stays inside the operators' networks. After an area is demarcated through GIS in the application, it will be sent to the Location Based Component (for SMS) installed at the mobile operators site. The Location component (for SMS) calculates cells cover the area through their BTS's installed at that particular areas, finds the subscribers connected to the cells and makes sure the messages are sent with the highest possible capacity without causing network overload or congestion.

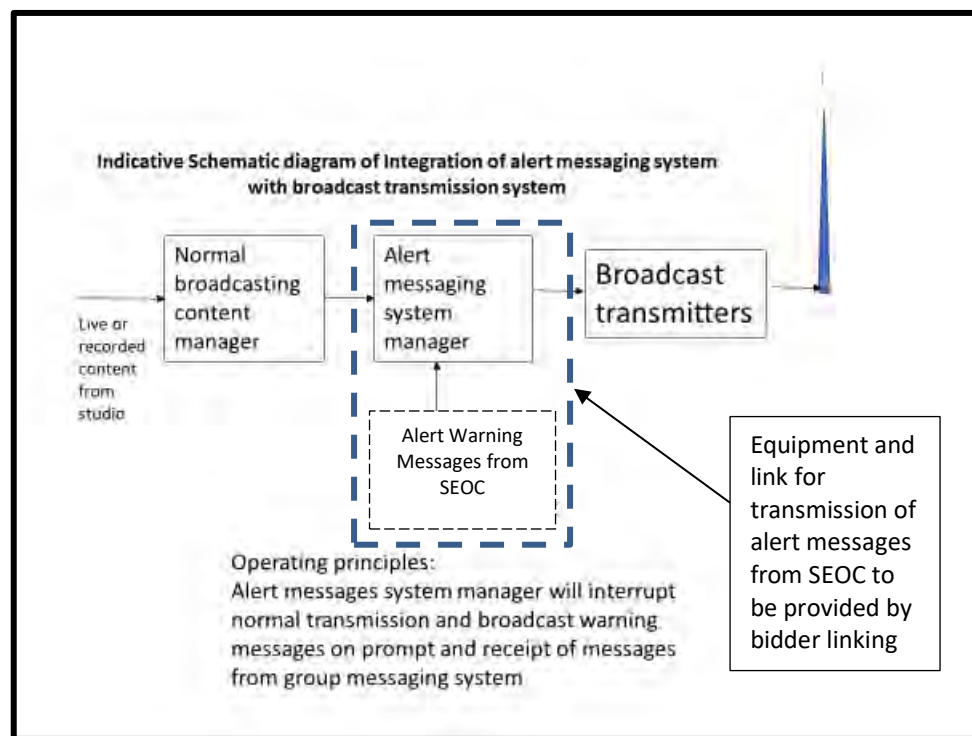


g) Integration with multiple channel systems: The proposed application shall have capability to be integrated with the following:

- ✓ Facebook / Twitter
- ✓ CAP Compliant systems
- ✓ SMS service providers
- ✓ Mobile Apps
- ✓ Sirens/ PA systems

***Note: Integration with transmission systems of organizations engaged in public Broadcast Radio operators in the region, DTH operators or similar other facilities, may be required in the future for direct transmission of alert messages. The bidder should clearly indicate whether the proposed system can subsequently be upgraded for this application and indicate budgetary costs for such a facility.***

***This functionality may be integrated as shown in following schematic diagram:***



Note: The above Schematic diagram describes the main functionality of Alert messaging system for Public broadcast TV & Radio operators which are indicative in nature. The Bidder shall include an Interface card within the functionality of Alert messaging system manager for dissemination of alert messages via the AM / FM Radio stations, TV stations (Media Broadcast Stations).

h) The Bidder shall also highlight the required annual recurrent costs (e.g. software license renewal cost (if any), connectivity cost, additional cost from

Telecom Operators and maintenance cost.

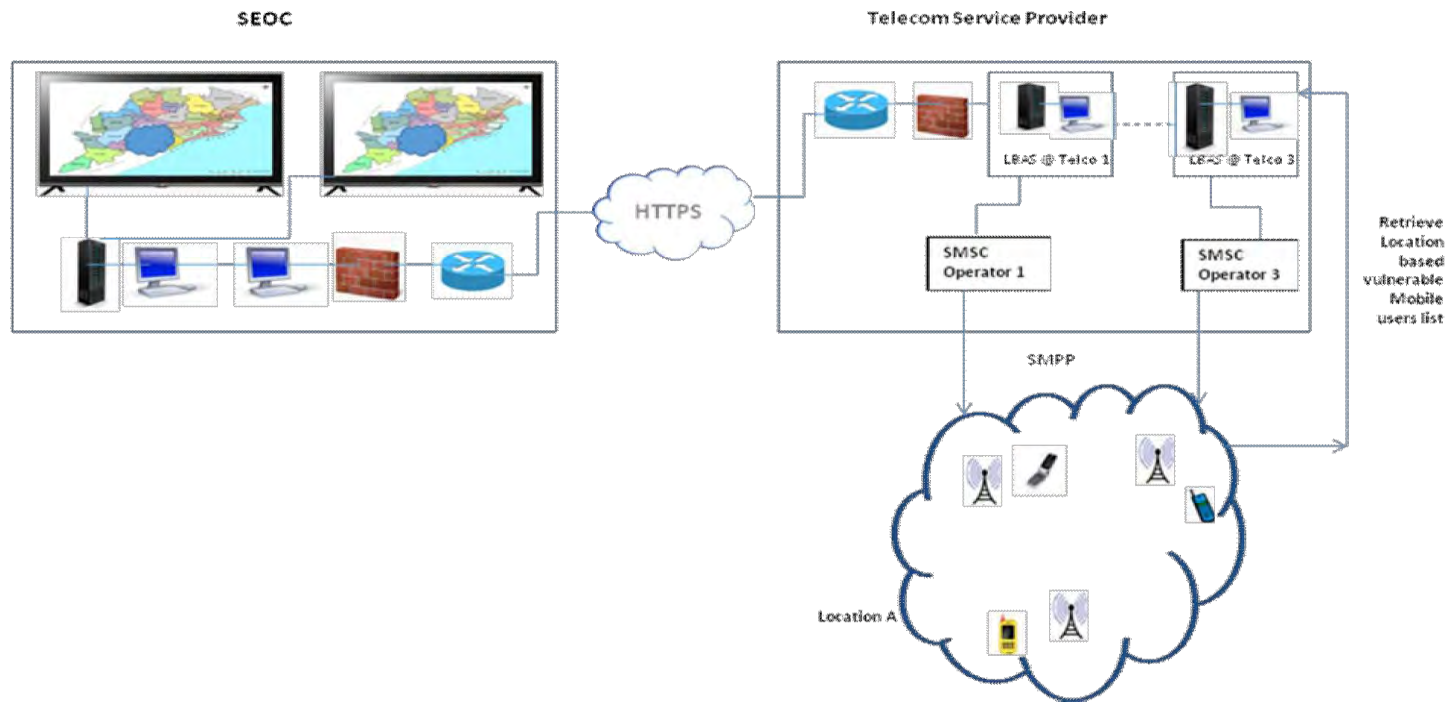
i) Reliability and timeliness:

- ✓ The messaging Platform must support transmission of large-scale messages to multiple users in multiple mobile networks.
- ✓ The messaging Platform must support acknowledgement based mobile messaging with guaranteed message delivery information.
- ✓ The messaging Platform must give commitment to service levels with guaranteed delivery times
- ✓ Secured & trusted environment:
- ✓ All the above components must be delivered with redundant hardware and software (of the centrally located system) to ensure an uptime of 99.9%

j) As part of the Transition-Out at the end of the term of the Contract (after operation period of 60 months from the date of commissioning), the Bidder will need to provide:

- ✓ All system information, data and content including message templates, archival data and distribution lists in a format suitable and approved by GSDMA.
- ✓ Support for the migration of the complete solution to a new environment, if required.
- ✓ It is the Bidder's responsibility to remove all the confidential information, data and content owned by GSDMA / Gujarat State Government from bidder's infrastructure if any, integrated during installation, testing and commissioning stages in a secure way before commissioning of the Group and Location based Messaging System and all the cost for this activity will be borne by the Bidder

**Indicative Diagram**



## Annexure 11 – Changes and Additions in Section VI - Specifications of equipment, networks and systems

### 13.2 – VSAT Network

Sl. No	Particulars	Specification
3	VSAT equipment	Nominal Diameter of C band VSAT antenna should be 1.8 meter or better, RF equipment and modem should be designed by VSAT service provider, keeping in view very high reliability (better than 99.5%) requirement of the network. Structure of VSAT antenna and foundation should be designed to withstand peak wind speed of 200 Kilometres/ hour.
Detailed specifications for VSAT Terminal		
1.	<b>Antenna Radio Frequency Features</b>	
d	Polarization	Polarization of antenna shall support either circular polarization (in case of international satellite) or linear polarization (in case of working with Insat satellites) as per service provider's satellite requirements.

## 15. Messaging System

### 15.1 Group Messaging (SMS) System

Sl. No	Particulars	Specification
1	Transmission port and security	System shall use standard HTTPS port for sending alerts. For high security service provider must also support SSL layer for transferring information
2	Languages for messages and response handling	The text messages/ Voice SMS will be sent in 3 languages (Gujarati, Hindi, and English), 6 times a day, starting from 3 days in advance, before arrival of the cyclone. Voice SMS means pre-recorded voice message of fixed duration which the system should be able to trigger for selected groups. System should be able to capture DTMF responses if any by recipients, to this voice alerts. These responses will then need to be collated and displayed in the reports.
3	Message library	The system shall have capability to save pre-defined messages in a message library. These messages can be pulled into the alert sending screen, during the alert send process.
4	Addressing multiple groups	It must be possible send an alert to one or several groups / sub-groups at the same time.
5	Alerts over voice channels	It must now be possible to automatically send alerts over voice channel to mobile phones and fixed phones.
6	Access to message library	The alert message for voice calls should be possible to pull from the message library (pre-defined messages).
7	Text to voice capability	It must be possible to voice play (over the phone call) a written text message using text to speech function.

8	Retransmission of message	If a receiver misses a voice call, he may call back the number from which the call came. In such an event the system must playback the message meant for the user, when the call is received by the system
9	Load balancing	It is vital that system has load balance and congestion control ability within the PSTN (Public Switched Telephone Network). Congestion control system monitors the fixed phone network to check if there are any indications of overload or congestion during alert sending and optimize the delivery accordingly.
10	Reporting facilities	It should be possible to report all kind of technical statuses back to the user like: call complete, line busy, call failed etc..
11	Retires	It must be possible to configure the number of retries (in case of no response) that should be attempted for a contact for a voice call.
12	Status of messages	It must be possible to retrieve technical status of all SMS deliveries: delivered / not delivered / pending / queued etc..
13	Retransmission in case receiver busy	It must be possible to resend an alert to all recipients that have a status. For e.g. Resend an alert to all people that had the status of line busy
14	Publishing on social media	Facility to publish messages to pre-defined Face book pages and twitter handles, using the web-based system, without having to login to twitter or Face book.
15	Live and simulation modes	The system must have a live and simulation mode. Simulation mode must simulate an alert send process without actually sending an alert. This could be used for training and demo purposes
16	Alert cancellation	It must be possible to configure the time line for alert cancellation (e.g. If the calls do not get completed in one hour, terminate the process and free up the lines
17	Language support	The text to speech function must support English, Hindi and local language. Different configuration will be required for the three languages
18	Storage	The alert message is converted in to SMS and shall be stored in Database for future usage
19	Database of recipients	The list of recipients' (government / non-governmental organisations responsible for disaster response) Mobile numbers shall be stored in Database on department wise.
20	Transmission on supporting network	Shall be able to Send SMS to any SMS capable mobile phone on supporting networks
21	Customization of address book	Customize address book by adding important contacts and saving recently used numbers. The system should be capable of creating a group database in which unlimited number of groups and sub-groups of personnel can be created with their contact information.
22	Transmission to multiple numbers	Send one SMS to multiple mobile numbers or address-book contacts

23	Report	Get delivery or failure reports for each alert message with Date and Time Stamp
24	Message modification	Create, Edit, Reply, Forward, Export, Delete or Send SMS messages
25	Status reports	System shall maintain a log of who received the message/ not received/ failed etc. when message was sent.  The status of log to be displayed in the TV screen on GIS platform in green /orange /red for the SMS read/received/not read etc.
26	Priority	System shall be able to send SMSs on priority bases
27	MIS reports	The MIS will have the following features: View the message text, time stamp, 'from' alphanumeric field and 'destination' number for any specific User id or time duration. All MIS reports can be downloaded in .CSV format that can be read in MS Excel
28	QoS	<b>Quality of Service:</b> Service provider will ensure a high quality of service. Servers deployed should have inbuilt redundancy and auto change over mechanism to back-up system in case of failure of operating system
29	Documentation	
i	User manual	Service provider will provide NDMA/GSDMA with documentation in the form of User Manual
ii	Installation guide	Installation Guide that will help install the software in local desktops and use the same with ease.
iii	Soft copies of mobile data	The softcopy of the updated list of Mobile data for group Based Text and Voice SMS shall be handed over to the Purchaser on monthly basis.
30	Confidentiality	Service Provider will undertake that it shall not disclose, divulge or reveal any information, including the mobile number and the text of SMS sent, that it may have gained or otherwise acquired from NDMA/ State Govt. by virtue of or because of the Implementation of the aforementioned SMS services and shall ensure that the same is kept secret and confidential at all times
31	Service provider responsibility	
i	Support on all days	Service provider would provide technical support on all working days over the phone and email. For the same, bidder/ Service provider would be provided with a contact number and a contact mail id at which the contact person can get in touch in case of any problems regarding the service of sending/receiving SMS

ii	Integrity and certification of SMS	The service provider shall forward all SMS in the same form as is received by it from NDMA. Further, NDMA takes responsibility for content of all SMS sent and shall not send any unlawful or unsolicited SMS contents from any of the user accounts. However, the service provider on its part will ensure that all requisite certifications and processes are in place which ensures that data integrity is maintained at all the times at its premises. In case of any breach, the Service Provider will intimate NDMA of such a breach along with the actions taken and extent of data compromised.
Iii	System Integration with major Telecom Service Providers	Group based Message System Integration with major Three (At least) Telecom Service Provider available in Gujarat

#### NOTE TO THE BIDDER

01	The customized Software should be handed over to the purchaser.
02	The softcopy of updated Data Backup Storage for Logs, mobile data of Government officials, villagers, fishermen, tourist hotels etc.. For Group Based Text & Voice SMS shall be handed over to the Purchaser on monthly basis. The system should allow purchaser to download the reports from the system at will.
03	<p>Bidder shall furnish the clause by clause compliance statement. In case there is any Deviation the same should be clearly brought out in the offer.</p> <p>Technical Specification of various systems and as mentioned in Section VI are to be complied or justification may be given for Non-Compliance if any.</p>
04	The Bidder shall integrate the System at SEOC at Gandhinagar, Gujarat.
05	<p>Bidder shall include cost of the activation charges for the SIM card inside SEOC for GSM Connectivity for two years after successful commissioning and acceptance of the system. The bidder shall separately quote for:</p> <ul style="list-style-type: none"> <li>• The cost of sending up to 100,000 text SMS (group -based SMS) and</li> <li>• 25,000 Voice SMS per annum,</li> </ul> <p>The purchaser shall bear the actual usage charges to settle the invoice of each telecom service provider as per existing government regulations.</p>

## 15.2 Location Based Alert System

1	The System shall allow geographically localized SMS broadcasts, including those that may be time-critical in nature, to be sent to mobile numbers that need not be pre-registered in the System, but are automatically “polled” from the Telco’s network based on their last known location.
2	The Bidder shall provide the required Computer Hardware viz. Application Server, Web Server, Database Server, for initiating the targeted broadcasts through secured web interface on a Managed Services Model
3	The servers to be provided in redundant mode such that there is no single point(s) of failure for the System where ever applicable
4	The Bidder shall provide required Computer Hardware at Telecom Operators sites for broadcasting the SMS to the targeted areas of population which are demarcated at State emergency Operation Center (SEOC).
5	A Graphical User Interface (GUI) shall be provided to allow Users to demarcate one or more areas on a digital map of Gujarat through GIS. The text SMS shall be sent in 3 languages (Hindi, English and Gujarati),
6	The system shall further act as a gateway for terminals to securely communicate with equipment to be installed at Telecom Operator(s) site
7	The System shall further allow users to compose both ‘live’ and canned messages. These messages can either be saved in the System for future retrieval or sent to the mobile users within the demarcated area(s) through the Telecom Operators
8	The system shall provide the ability to general public to register themselves to receive alerts for a set of pre defined regions (e.g. districts) even if they are not present in that region at the time when the alerts are sent.
9	The Bidder shall ensure with the Telecom Operators that the targeted SMS’s are to be sent on priority bases to avoid the delay/ congestion.
10	The location data should be as real time as possible – it should reflect in the messaging system as soon as the operator is able to register the location change event of subscribers, in their network.
11	Solution should not require any configuration to be done at subscriber's handset and must work on all types of mobile phones including non-smartphones
12	The system shall store the list of recipients of previous location based alerts (previous 10 days) and provide the ability to send update notifications to that stored list which shall be easily identifiable.
13	It must be possible to retrieve technical status of all SMS deliveries: delivered / not delivered / pending / queued etc.
14	The LBA functionality must ensure that congestion is avoided in the telecom operator’s network, by load balancing or other techniques.

15	Further, the LBA system has the capability to give an overview of the number of subscribers affected (located within a given area), to be able to enhance the rescue and planning process. The system gives an indication of the number and nationality of people in the affected area. The service provider should provide all redundant inter-connection links between the alert software and the telecom service provider's network
16	Services located at the premises of the Telecom Operators, responsible for the localized broadcast of SMS messages to one or more geographical areas within Gujarat (i.e. location-based SMS broadcast). Equipment installed at the Telecom operators that is dedicated for Client's (Gujarat Govt) use to ensure that Performance and Availability Requirements are met can be highlighted
17	The Bidder shall submit a proposal for all the requirements stated in these requirement specifications. Any proposal to supply only parts of the requirements shall be considered incomplete and shall be deemed invalid
18	Data Privacy: The Subscriber information shall not be allowed to go outside the respective Telecom network at any time.
19	All other necessary equipment, software, cabling, connections, and services for the functioning of the System for implementation are to be ensured by the Bidder

#### NOTE TO THE BIDDER

01	The customized Software should be handed over to the purchaser.
02	The softcopy of updated Cloud based Data Backup Storage for Logs, mobile data of government officials, villagers, fishermen, tourist hotels etc. for Group Based Text & Voice SMS shall be handed over to the Purchaser on monthly basis.
03	Bidder shall furnish the clause by clause compliance statement. In case there is any Deviation the same should be clearly brought out in the offer.
04	The Bidder shall integrate the System at SEOC at Bhubaneshwar, Gujarat.
05	Bidder shall be paying the activation charges for the SIM card inside SEOC for GSM Connectivity for two years after successful commissioning and acceptance of the system. The bidder shall include the cost of sending upto 5 Lakh text SMS ( including group and location based SMS) and one lakh Voice SMS per annum, beyond that purchaser shall borne the actual usage charges on actual basis.



## **Annexure 12 – Changes and Additions in Section VI - 22. Testing and Quality Assurance Requirements**

### **22.1 Acceptance Tests and Procedure**

#### **ii. Systems and Subsystems to Be Tested**

The following systems and sub-systems shall be required to be tested:

- a. Connectivity with GSWAN
- b. Internet links
- c. Network Monitoring System (NMS) at SEOC
- d. Satellite phones
- e. VSAT network
- f. IT equipment installed at SEOC, DEOC and TEOC in standalone modes and in network mode
- g. Group messaging system
- h. Location Based Alert System
- i. Audio / video and Multimedia systems at SEOC
- j. Alert and warning control system
- k. Remote monitoring and control of siren and audio warning units established at vulnerable locations
- l. Power supply systems and back-up capacity

### **22.2 Inspections**

#### **vi. Pre-commissioning Tests:**

In addition to the Supplier's standard check-out and set-up tests, the Supplier (with the assistance of the Purchaser) must perform the following tests on the System and its Subsystems before Installation will be deemed to have occurred and the Purchaser will issue the Installation Certificate(s) (pursuant to GCC Clause 22 and related SCC clauses).

Details of pre-commissioning tests

- a. Functioning of VSAT network
- b. Functioning of Internet link
- c. Functioning of NMS
- d. Functioning of Group Messaging and Location Based Alerts
- e. Operation of satellite handheld phones
- f. Alert Siren parameters monitoring and activation of EWDS sites from Control Center at SEOC as well as from back-up TEOC

## 22.3 Operational Acceptance Tests

### ii. Detailed Acceptance testing plan:

Sr. No.	Name of the system / sub-system	Proposed test	Purpose / procedure
5	<b>Set-up and systems installed in Operations room in SEOC</b>		
e		Group messaging	Capability to send simultaneous messages to various groups, generate new groups, send messages in multiple languages
f		Location Based Alerts	Capability to send simultaneous messages to demarcated Location, Multiple Area Selection, send messages in multiple languages, Generation of delivery Reports
6	<b>Equipment installed at DEOC and TEOC in standalone modes and in network mode</b>		
		Operational capabilities	<p>Tests will be conducted to verify</p> <ul style="list-style-type: none"> <li>Connectivity with GSWAN and Internet</li> <li>Operation of VSAT node</li> <li>Satellite phone voice and data transmission</li> <li>Videoconferencing</li> <li>Data transmission including emails</li> <li>Group messaging system from back-up DEOC</li> <li>Location Based Alert system from back-up DEOC</li> <li>Remote monitoring and control of siren and alert warning units installed at vulnerable locations from TEOC</li> <li>Display systems</li> <li>DTH reception at DEOCs</li> </ul>

**Annexure 13 –Additions in Section VI - 23. Implementation Schedule Table**

Sr. No.	Subsystem/ Item	Configurati on Table No.	Site / Site code	Delivery Schedule	Installation Schedule	Acceptance testing schedule
<b>C</b>	<b>Group -based SMS alert message system and Location Based Alert System</b>					
C.1	Group SMS dissemination system hardware and software		SEOC, and one of the selected DEOC as back-up			
C.2	Group based SMS dissemination System Integration with at least 3 (three) licensed Telecom Service Providers		SEOC, and one of the selected DEOC and SMSC of telecom service providers			
C.3	Data Backup and Storage for activity Logs					
C.4	Location Based Alert System with dissemination APIs, hardware and software		SEOC, and one of the selected DEOC as back-up			
C.5	LBAS Integration with at least 3 (three) licensed Telecom Service Providers		SEOC, and one of the selected DEOC and SMSC of telecom service providers			
C.6	Data Backup and Storage for activity Logs					

## Annexure 14 –Additions in Section VI - 24. EOC Configuration

### 24.1 State Emergency Operation Centre (SEOC)

#### i. List of Systems & Equipment at SEOC

Item Number	Description of Equipment & Systems	Estimated Quantity	Unit	Remarks (If Any)
LOCATION BASED ALERT SYSTEM				
36	LBAS	2	Nos	For Redundancy One System at One of the selected DEOC which will work as Back-up of SEOC

## Annexure 15 –Additions in Section VI - 27. System Inventory Table (Recurrent Cost Items)

Component
7. APPLICATION SOFTWARE
SEOC- AMC for ICT equipment
SEOC- AMC for Alert and warning system
SEOC- AMC for Group based Message
SEOC- AMC for LBAS
SEOC- AMC for NMS
8. Consumable materials and Hardware Maintenance
Paper, Ink cartridges, Lamps and Tube lights etc. Electricity charges, painting of towers and poles etc. as per requirement and any other supplies for operating EOCs
9. All EOCs and EWDS towers and poles
Estimated Annual expenses
10. Any other expenses felt necessary by bidder

**Annexure 16 – Changes/Additions in Section VI - 34.3 Attachment 3****i. Tentative List of SEOC, DEOC, TEOC and BEACHES****Coastal Talukas**

<b>Sr. No.</b>	<b>Name of Coastal Taluka</b>	<b>Address of Taluka headquarters</b>
1	Dholera	Mamlatdar Office, Dholera, District Ahmedabad
2	Jafrabad	Mamlatdar Office, Jafrabad, District Amreli
3	Hansot	Mamlatdar Office, Hansot, District Bharuch
4	Jambusar	Mamlatdar Office, Jambusar, District Bharuch
5	Vagra	Mamlatdar Office, Vagra, District Bharuch
6	Ghogha	Mamlatdar Office, Ghogha, District Bhavnagar
7	Kalyanpur	Mamlatdar Office, Kalyanpur, District Devbhoomi Dwarka
8	Khambhalia	Mamlatdar Office, Khambhalia, District Jamnagar
9	Okhamandal	Mamlatdar Office, Okhamandal, District Devbhoomi Dwarka
10	Kodinar	Mamlatdar Office, Kodinar, District Gir Somnath
11	Patan Veraval	Mamlatdar Office, Patan-Veraval, District Gir Somnath
12	Sutrapada	Mamlatdar Office, Sutrapada, District Gir Somnath
13	Una	Mamlatdar Office, Una, District Gir Somnath
14	Lalpur	Mamlatdar Office, Lalpur, District Jamnagar
15	Maliya	Mamlatdar Office, Maliya, District Junagadh
16	Mangrol	Mamlatdar Office, Mangrol, District Junagadh
17	Bhachau	Mamlatdar Office, Bhachau, District Kutch
18	Gandhidham	Mamlatdar Office, Gandhidham, District Kutch
19	Mandvi	Mamlatdar Office, Mandvi, District Kutch
20	Malia	Mamlatdar Office, Malia, District Morbi
21	Jalalpore	Mamlatdar Office, Jalalpore, District Navsari
22	Porbandar	Mamlatdar Office, Porbandar, District Porbandar
23	Choriyasi	Mamlatdar Office, Choriyasi, District Surat
24	Olpad	Mamlatdar Office, Olpad, District Surat
25	Umbergaon	Mamlatdar Office, Umbergaon, District Valsad
26	Valsad	Mamlatdar Office, Valsad, District Valsad

## **Annexure 17 – GSDMA Bank Details**

**Bank Name – State bank of India**

**Branch- (60228) Sector 11 - Gandhinagar**

**IFS Code – SBIN0060228**