

## ANNEXURE - I

### MINUTES OF PRE BID CONFERENCE HELD ON 14.09.2015 at 11.30 AM

**Name of the work:** Procurement of Supply, Installation, Commissioning and Services for Early Warning Dissemination System for the Coastal Districts of Andhra Pradesh

**Package No:** AP/SPIU/NCRMP-1/EWDS/001/2015

#### **Names of those Present:**

From the Employer:

1. Mr. V.S.R. Murthy, Procurement Specialist, SPIU, NCRMP, Hyderabad
2. Mr.T. Jaya Prasad, DEE, SPIU, NCRMP, Hyderabad

NCRMP Project Consultant:

3. Mr. Sanjeev kumar Kesari, GM (TC),TCIL, New Delhi
4. Mr. A. Sampath kumar JGM (TC),TCIL, New Delhi

From Prospective Bidders:

1. M/s HUGHES Communications India Private Limited, Bangalore
2. M/s Motorola Solutions India Pvt Ltd, Gurgaon
3. M/s L&T Construction (Power Transmission & Distribution, Chennai
4. M/s Himachal Futuristic Communications Ltd, New Delhi
5. M/s NGIT System Private Limited, Chittoor
6. M/s Bharti Air Tel Limited, Hyderabad
7. M/s Reliance Communications Limited, Hyderabad

8. M/s TRILOK Security Systems India Private Limited, Dehradun
9. M/s OrangeBytes Systems Private Limited, Secunderabad
10. M/s Sify Technologies Limited, Hyderabad
11. M/s Mobile Communications (India) Pvt. Ltd, New Delhi
12. M/s Unified Messaging Systems (UMS), Bangalore
13. M/s V-Link System Private Limited, Chennai
14. M/s ROLTA India Limited, Bangalore
15. M/s Trident Infosol Private Limited, New Delhi
16. M/s HBL Power Systems Limited, Hyderabad.
17. M/s Sherman International Private Limited, New Delhi.
18. M/s SIIRcom India Private Limited, New Delhi
19. M/s KommlabsDezign Private Limited, NOIDA
20. M/s Vedavaag Systems Limited
21. M/s Empowering e-Applications (formerly SARK Systems India Limited), Hyderabad
22. M/s Spectral India Media Management Pvt Ltd , Delhi

## ANNEXURE II

**Subject: TABLE 1 Consolidated Clarifications No.1 Dt.16-10-2015**

**Reference No: Tender reference No. AP/SPIU/NCRMP-1/EWDS/001/2015 dated 24.08.2015**

**Tender Title: Procurement of Supply, Installation, Commissioning and Services for Early Warning Dissemination System for the Coastal Districts of Andhra Pradesh**

**Following is the Consolidated Clarifications to the Queries raised till date 30.09.2015 against Tender for "Procurement of Supply, Installation, Commissioning and Services for Early Warning Dissemination System for the Coastal Districts of Andhra Pradesh"**

### QUERIES RAISED DURING PRE BID MEETING HELD ON 14.09.2015

#### GENERAL

Sl.No	Clause no. of ITB/GCC/SCC/Forms	Gist of the Query	Response	Reference to Sl. No of Addendum (Table 2) where ever applicable	Remarks
1	Sl. No. 7 of Pg No: 5 of NIT	The Last Date and time for receipt of bids through the e-tendering portal <a href="http://eprocure.gov.in">http://eprocure.gov.in</a> is 14.10.2015 up to 15.00 Hrs	The Last Date and time for receipt of bids through the e-tendering portal <a href="http://eprocure.gov.in">http://eprocure.gov.in</a> is 17.11.2015 up to 15.00 Hrs.	1	

2	Sl. No. 5 of Pg No: 5 of NIT	The bidders are required to submit the following to the O/o Project Director , SPIU,NCRMP,7th Floor, North Wing, GaganVihar Complex, Opposite Gandhi Bhawan, MJ Road, Nampally, Hyderabad -500001 on or before 14.10.2015 up to 15.00 Hrs	The bidders are required to submit the following to the O/o Project Director , SPIU,NCRMP,7th Floor, North Wing, Gagan Vihar Complex, Opposite Gandhi Bhawan, MJ Road, Nampally, Hyderabad - 500001 on or before 19.11.2015 up to 15.00 Hrs.	<b>2</b>	
3	10.1 of Section I	The Purchaser will upload clarifications to any request for clarification or modification of the Bidding Documents that it receives through the e-procurement portal, no later than fifteen (15) days prior to the deadline for submission of bids prescribed by the Purchaser	Last date of submission of queries is 26.10.2015 at 15.00 hrs	<b>3</b>	
4	ITB 31.2 Section II page 12	NCNC (No cost No Commitment) Demo of individual technology should be done as a part	Clause deleted	<b>45</b>	

		of technical Evaluation prior to the financial opening of the bids.			
5	Section VI 2.1.4.1 - 1 I Pg No. 18	Frequency Range: 136 to 174 MHz (full band)	Accepted	<b>4</b>	
6	Section VI 2.1.4.1 - 1 (vi)Pg No. 18	Average battery life for 5/5/90 duty cycles Digital: 16 hrs or more & Analog: 10 hrs or more	Battery Capacity 2000 mAH or more. Average battery life for 5/5/90 duty cycles Digital: 16 hrs or more & Analog: 10 hrs or more	<b>5</b>	
7	Section VI 2.1.4.1-1 ix)Pg No. 18	Weight: Less than 350 gm with battery as 500 Gms is very heavy.	Accepted	<b>6</b>	
8	Section VI 2.1.4.1 - 3 iii)Pg No. 18	Adjacent Channel Selectivity : 60db or better ( As per TIA 603A-1T Standards)	No Change		
9	Section VI 2.1.4.1 -4 Pg No. 19	Degree sign is to be added instead of '0'	Accepted. Typing error	<b>7</b>	
10	Section VI 2.1.4.1-4 xi)Pg No. 19	Should be deleted as Project is near Sea	High Altitude: MIL-STD-810F/G clause is deleted	<b>8</b>	
11	Section VI 2.1.4.1 Pg No. 20 Feature wise	Should have built-in GPS feature with following specifications:	No Change		

	Configuration Point 16	i. Time to First Fix (TTFF) cold start : <1 minutes ii. Time to First Fix (TTFF) hot start :<10 seconds iii. Horizontally accuracy :<5 meters			
12	Section VI 2.1.4.1Pg No. 20  Feature wise Configuration Point 16	Over the Air Programming to program the radios from District / Block / FLC Control rooms	Optional		
13	Section VI 2.1.4.1 Pg No. 20 Feature wise Configuration Point 16	IP Standard should be IP57 as sets are going to be used in Harsh conditions	Water submergibility protection shall be required hence IP 57 or better shall be provided for Handheld radio.		
14	Section VI 2.1.4.1 Pg No. 20  Feature wise Configuration Point 16	Programming through inbuilt Bluetooth as no provision for programming cables	Accepted.	<b>9</b>	
15	Section VI 2.1.4.2 – 1i Pg No. 20	Frequency Range: 136 to174 MHz (full band)	Accepted	<b>10</b>	

16	Section VI 2.1.4.2 – 2i Pg No. 20	RF Power output : 25 to 45 Watts (programmable)	Accepted	<b>11</b>	
17	Section VI 2.1.4.2 -4 Pg No. 21	Degree sign is to be added instead of '0'	Accepted. Typing error	<b>12</b>	
18	Section VI 2.1.4.2 - 3 iv)Pg No. 21	Adjacent Chanel Selectivity : 60db or better ( As per TIA 603A- 1T Standards)	No Change		
19	Section VI 2.1.4.3 - 1 i)Pg No. 21	Frequency Range: 136 to174 MHz (full band)	Accepted	<b>13</b>	
20	Section VI 2.1.4.3 -1 viii)Pg No. 21	Duplicating as mentioned at Page23 Serial no 5 also	Accepted	<b>14</b>	
21	Section VI 2.1.4.3 -3 iii)Pg No. 22	Adjacent Chanel Selectivity : 60db or better ( As per TIA 603A- 1T Standards)	No Change		
22	Section VI 2.1.4.3 – 4	Degree sign is to be	Accepted. Typing error	<b>15</b>	

	Pg No. 22	added instead of '0'			
23	Section VI 2.1.4.3 - 4 x)Pg No. 22	Should be deleted as Project is near Sea	High Altitude: MIL-STD- 810F/G is deleted	<b>16</b>	
24	Section VI 2.1.4.3 - Serial no 13Pg No. 23	Should have built-in GPS feature with following specifications: i. Time to First Fix (TTFF) cold start : <1 minutes ii. Time to First Fix (TTFF) hot start :<10 seconds iii. Horizontally accuracy :<5 meters	No Change		
25	Section VI 2.1.4.3 – FeaturesPg No. 23	Over the Air Programming to programe the radios from District / Block / FLC Control rooms	Optional		
26	Section VI 2.1.4.3 – FeaturesPg No. 23	Programming through inbuilt Bluetooth as no provision for programming cables	Accepted	<b>17</b>	
27	NOTE TO THE BIDDER Pg No. 30 -2.1. 4	Bidder is to submit Lab Test Certificate on the parameter mentioned in technical specifications,	Accepted	<b>18</b>	



		from the NABL /ILAC approved Lab. The Certificate must be enclosed with technical bid. In case offer is received without Lab Certificate same will be rejected.			
28	NOTE TO THE BIDDER Pg No. 30 -2.1. 4	“The Lab Test Report should be obtained specifically as per this tender specification. The Lab Test Report obtained before issue of Tender Notice will not be considered” . Should be deleted as tests are carried as per DMR & Manufacturer's standards	“The Lab Test Report should be obtained specifically as per this tender specification. The Lab Test Report obtained before issue of Tender Notice will not be considered” .  The above clause is deleted	<b>19</b>	
29	Our Submission Section 2.1. 4	The project is for disaster management and vehicular DMR sets are not mentioned in the tender, with our past experience we suggest department to include	To be quoted as an optional item		

		some DMR sets for Mobile communication also.			
30	Section VI - 1.2.6Pg No: 12	VHF connectivity is mandatory or optional. If yes is it through the same proposed DMR network.	Activation of Alert Siren system shall be through GSM and DMR (or VHF or both).		
31	Section VI - 2.1.2 Scope of Work:Pg No: 16	<p>a) Please specify the tentative quantity of these Existing VHF network interface location at FLC and Shore stations.</p> <p>b) Please specify the locations of DMR interface with Existing VHF networks</p> <p>c) The interface should be always in ON condition for every location or it should be selectable from Dispatcher locations for broadcasting on selected location.</p>	<p>a. Necessary Hardware and Software for Audio level integration at all FLC's/ Shore center should be made available. 16 FLC's may increase after detailed site survey. Also see clause ITB 33.1 P.13 of Section II</p> <p>b. Necessary Hardware and Software for Audio level integration at all FLC's/ Shore center should be made available</p> <p>c. Always in ON condition</p>		

32	Section VI - 2.1.2 Scope of Work: Pg No: 16	User Transmission Interruption for emergency broadcasts limited to supervisory controls only	Optional		
33	Section VI - 2.1.2 Scope of Work:	The selected bidder shall be asked to show the live demonstration of Radios with repeater and related software features including dispatcher	Clause deleted	45	
34	Section VI - 1.2.3SBMDVT	Satellite Based Mobile Voice Data Terminal (SBMCV) or BGAN Terminal may be replaced with VSAT network/ fixed/mobile terminals.	As per tender		
35	Section VI - 1.2.2 Bandwidth & Internet	It is observed that the entire network connectivity is based on APSWAN terrestrial network . In a disaster scenario the most reliable mode of communication is found to be VSAT Network.	As per tender		

		Request to incorporate the VSAT network as backup network.			
36	Section VI - 1.2.3 SBMDVT	VSAT network with fixed terminals for for all 87 EOCSites(MEOC-77,DEOC-9 and SEOC-1),Quick Deployable Antenna (QDA) for 9 DEOC and vehicle Mounted Auto Acquire VSAT and fixed VSAT terminals.	Not in Tender Scope		
37	<b>Section II (BDS) of ITB 6.1 (a) Pg No: 4</b>	Please clarify if the Bidder is expected to have proven record in any one or all these areas. As this project involves heterogeneous system integration including WAN connectivity, network centre and telecom, and as such Security is not a separate deliverable, the Clause may be rephrased as	The "Security" is deleted	<b>21</b>	

		""Bidder should have a proven record in implementing heterogeneous system integration projects involving WAN connectivity, network centre and telecom projects."			
38	<b>Section II (BDS) of ITB 6.1 (a) Pg No: 6</b>	Requirement of Security may be made optional as Operation center may or may not have security as a separate deliverable. Else, requirement of Security may be clearly defined	The "Security" is deleted	<b>22</b>	
39	<b>Section iv of 37.1 (c)Pg No: 54</b>	The liability should be restricted to the systems being supplied. Else, the details of property to be insured and the cost of the same and also the number of personnel to be insured and insurance value of personnel should be	The Clause 37.1 (c) is modified as: On terms as specified in the SCC, covering bodily injury or death suffered by the Bidder's personnel and loss of or damage to the systems supplied by the Bidder and any Subsystems that have been accepted by the	<b>20</b>	

		defined.	Purchaser occurring in connection with the supply and installation of the EWDS System.		
40	<b>Section V GCC 6.2.3Pg No: 5</b>	Please confirm the arbitration proceedings shall be in India. Else, specify the country where arbitration shall take place.	As per Tender. The proceedings shall take place in a neutral place in case of foreign contractor.		
41	<b>Section V GCC 12.1 (b)Pg No: 8</b>	Please confirm the authority who would confirm the ordered materials have been received in good condition and whether the same shall be thru physical inspection only.	Govt. of AP will nominate its authorized representative before signing of contract . Through Physical inspection/ Invoice		
<b>42</b>		Please confirm the authority who would confirm completion of installation for payment.	Govt. of AP will nominate its authorized representative before signing of contract .		
<b>43</b>		Please confirm the authority who would carry out Operational	Govt. of AP will nominate its authorized representative before signing of contract .		

		Acceptance.			
44	<b>Section VII of 2.8 (3) Pg No: 33</b>	Please confirm the Talk time and no of sms per day/ month to account for the charges.	Bidder has to pay the airtime in prepaid mode of payment. See section vi clause 01 page 38 'Note to the bidder'(Post paid to be deleted)	<b>23</b>	
45	<b>Section VII of 2.8 (5)Pg No: 34</b>	1) Please confirm that the Generators shall be run by the Purchaser & the Supplier only has to pay for the Diesel charges as specified in the clause. 2) Please confirm that Supplier's representative is not envisaged to be present at Generator locations for running the generators.	Primarily Up time is Bidder's responsibility. Bidder has to provide back up for his equipment for operation of the network		
46	<b>Section VI of 2.10.6Pg No: 73</b>	Please confirm if VODAFONE provides HD-Set Top Box/ service for Set Top Box.	Videocon	<b>24</b>	
47	<b>Section VI 2.2.2.6Pg No: 32</b>	Please define the desired SLA parameter for each	Shall provide network service availability of 99.9% or as		

		element of Supply.	agreed mutually		
48	<b>Section VI 2.7.12Pg No: 63</b>	Please provide the specifications of Microwave Antenna to be supplied.	To be supplied as per the requirement of the solution		
49	<b>Section VI 2.7.13Pg No: 63</b>	Please provide the specifications of Microwave Antenna to be supplied.	To be supplied as per the requirement of the solution		
50	<b>Section VI 09Pg No: 30</b>	As the Lab Test report may not be readily available, please confirm that the same may be furnished before Supply and may not be submitted with bid offer.	Bidder is to submit Lab Test <b>Certificate</b> on the parameter mentioned in technical specifications, from the NABL /ILAC approved Lab. The <b>Certificate</b> must be enclosed with technical bid. In case offer is received without Lab Certificate same will be rejected	<b>18</b>	
51	<b>Section VI 2.6.4Pg No: 57</b>	Please quantify the locations where sound horns are to pole mounted & the locations where they are to be tower mounted. Please modify the EWDS	Sound horns are to be Pole mounted at 150 Cyclone shelters At 10 locations Sound horns are to be mounted on Towers		



		Inventory table accordingly.			
52	<b>Section VI 2.1.4.4Pg No: 24</b>	This may please be added as line item in EWDS Equipment Inventory Table and also in Supply and Installation Cost Sub-Table.	This can be quoted as a line item in your Cost table		
53	<b>Section VII of 9 Pg No: 29</b>	Please confirm that the plinth & shed for Generators shall be provided by the Purchaser.	Bidders to provide all Civil works		
54	<b>Section VI of 1 Pg No: 100</b>	Quantity of DMR Repeater & DMR Fixed Station is same in EWDS Equipment Inventory Table & Supply and Installation Cost Sub Table. Please confirm that DMR Fixed Station & Repeater Stations are to be installed at same location and on same tower.	At DEOC (9 nos), only Fixed Stations are to be installed. At MEOC (77 nos), the Repeater and Fixed Stations are to be installed at the same location and the corresponding antennas to be installed on the same tower.		

55	Section VI – Technical requirements - 1.1.1 Page No: 9	Kindly provide the details (data sheet, specification etc.,) of existing VHF system to select appropriate interfacing.	Necessary Hardware and software for audio level integration at all FLC / Shore station should be made available. "Details of the existing Analog VHF network -----" is bidders scope of survey. Interface should be compatible with any VHF frequency/ Band Radio		
56	Section VI – Technical requirements - 1.2.2 & 2.2 Page No: 10 &31	The referred clause indicates required bandwidth shall be provided at SEOC, DEOC & MEOC. Please clarify whether purchaser requires dedicated lease line connectivity or shared DSL connectivity from APSWAN.	As per Tender. Port shall be taken from APSWAN network from APTS		
57	Section VI – Technical requirements - 1.2.3 & 2.3.1 Page No: 10 & 35	We request you to kindly consider SBMDV services through VSAT services providers other than INMARSAT-4.	No change		
59	Section VI – Technical	The referred clause indicates that the	No change		

	requirements - 2.0.2 Page No: 14	operating temperature without damage is -10 to 55 Deg C. We assume that this is applicable only for outdoor equipments. For equipment installed in indoor locations (within buildings) the operating temperature will be 0 Deg c to 40 Deg C. Please confirm.			
60	Section VI – Technical requirements - 2.2.1 Page No: 31	The specific clause indicates bandwidth and internet services through APSWAN. We request you to please consider bandwidth & internet connectivity services through other services providers also.	No change		
61	Section VI – Technical requirements - 2.2.1 Page No: 31	Please confirm if any Bandwidth & Internet existing connection is available at SEOC, MEOC & DEOC. If so, please provide the details of	Presently there is no SEOC, DEOC or MEOC.  DEOC or MEOC will be co-located in the same premises of District and Mandal office where APSWAN is already		

		existing bandwidth service providers.	available		
62	Section VI – Technical requirements - 2.6.1 & 2.6.5 Page No: 52&57	Clause 2.6.1 indicates that the speaker pole height should be minimum 4 Mtr, however in clause no 2.6.5 the pole height is indicated as minimum 5 Mtr. Kindly confirm the minimum pole height requirement.	Pole height should be minimum 5 Mtrs	<b>25</b>	
63	Section VI – Technical requirements - 2.6.3 Page No: 55	The referred clause indicates that separate battery is required for RTU's, We wish to inform that the Alert siren systems are already provided with Solar battery backup and hence the separate battery bank will not be required. Please confirm.	Separate battery bank is required . However, the capacity of hybrid inverter shall be 1500 KVA	<b>26</b>	
64	Section VI – Technical requirements - 2.6.3 Page No: 56	It is indicated that certain boxes of alert tower system should be installed on the 30 Mtr tower at sea beaches.	Yes. Insurance is on bidders account		

		Our assumption is that purchaser will arrange for suitable physical protection against theft, hampering etc., during O&M period. Please confirm.			
65	Section VI – Technical requirements - 2.6.3 Page No: 56	We assume that purchaser will arrange for 230 VAC Power supply feeder in close vicinity (approx. 5 Mtrs) at all locations including alert towers. From this point bidder will lay power cable up to alert tower. Please confirm whether understanding is correct.	Bidder to consider minimum of 20 meters Power supply cable at all locations. 230 V AC shall be provided by the Purchaser		
66	Section VI – Technical requirements - 2.6.4 Page No: 57	It is indicated that output of siren should be 600 watts. We assume that the output wattage given above is cumulative of all the 4 horns. Please .confirm	The understanding is correct		

67	Section VI – Technical requirements - 2.9.1 Page No: 68	In the header it is written as 2512 port L2 Switch. Our understanding is that it shall be 12 port L2 switch. Please confirm.	The Understanding is correct	<b>27</b>	
68	Section VI – Technical requirements - 2.10.1 Page No: 73	Please clarify whether fire alarm & Detection system is also required for this project.	Fire alarm & Detection system not required		
69	Section VI – Technical requirements - 2.12.3 Page No: 79	Please confirm the type of battery. Whether it is VRLA or Ni-Cd battery.	Battery shall be VRLA type	<b>28</b>	
70	Section VI – Technical requirements - 2.12.3 Page No: 79	We assume that battery bank at SEOC will be non-redundant. Please confirm.	Each UPS will have separate Battery bank		
71	Section VI – Technical requirements - 2.18 Page No: 84	There is no service level agreement available in section VII. Please arrange to provide the same.	Shall provide network service availability of 99.9% or as agreed mutually		
72	Section VI – Technical requirements - 4.2 Page No: 105	It is indicated that Horn audio should have a coverage of 1.0 km, where as in clause	The Speaker audio coverage should be 1 .0 km radius ie 2 km diameter at Omni directional at 70 db ambient	<b>29</b>	

		no.2.6.4 (page no 57 of 149) indicates that output watt of siren will should be 600 watts. Our understanding is that the siren system shall be supplied as per the wattage specified. Please confirm.	noise.		
73	Section VI – Technical requirements – General	We assume that all civil building like SEOC, DEOC, MEOC, FLC, shelters are existing and there is no scope of civil building works. Please confirm.	The building and space will be provided by AP state Govt.		
74	Section VI – Technical requirements - General	Our understanding is that all the Operating centers will be provided with air-condition and dust free environment. Please confirm.	At MEOC 1 no. 2 T Split AC, DEOC 2 nos 2 T Split AC and at SEOC 4 nos 2T Split AC to be provisioned	<b>30</b>	
75	Section VI – Technical requirements - General	As project schedule is very stringent, our understanding is that necessary work front, Right of way, civil buildings and utility	The understanding is correct		

		services at all locations for the project shall be made available by purchaser prior to project commencement. Please confirm.			
76	Section VI – Technical requirements - General	We request you to consider necessary price variation clause for recurring charges during warranty period as the scope includes provision of Diesel, WPC royalty bandwidth / GPRS charges.	No change		
77	Section I – Instructions to Bidder  ITB 28.4 of BDS  Pg 27	We request to kindly consider evaluation of the bids as per the assessment formulae given in clause. 28.4 Of ITB.	No Change		
78	Section II – Bid Data Sheet, ITB 6.1 (a) / 2  Pg 6	As per the note given in technical evaluation criteria “Technical Experience can be individually or combined with consortium partner”	The understanding is correct		



		our understanding is that, technical experience of subcontractor /OEM / OEM Authorized partner shall also be consider. Please confirm.			
79	Section II – Bid Data Sheet ITB 15.1 (a) Pg 8	As per the note, the payment shall be made by the Purchaser only in the “currency” quoted by the successful bidder. Bidder understands that terminology to be used should be “currencies” instead of currency since the quote could be of multiple currencies. Please confirm.	The understanding is correct		
80	Section II – Bid Data Sheet ITB 33.1 Pg 13	Bidder understands that unit rates and other terms & conditions will be unaltered up to 20% increase or decrease of Quantity. We request you to limit the above quantity variation to ±	No change. This is quantity variation and not unit rate		

		10% of contract value. Please confirm.			
81	Section IV – General Condition of Contract  GCC 10 Pg 20	Our understanding is that, space for site office & stores will be provided by the purchaser free of cost. Also please confirm necessary water & electricity will be provided free of cost by the Purchaser.	No. it is on bidders account		
82	Section IV – General Condition of Contract GCC 14.3 Pg 24	Please confirm Form-C will be provided by purchaser for inter-state transactions.	No		
83	Section IV – General Condition of Contract  GCC 14 Pg 24	We assume all the taxes & duties (Excise duty, CST, VAT, Octroi / Entry tax, BOCW Cess, Service tax) mentioned are to be included in bidders scope. Kindly confirm.	Yes		
84	Section IV – General Condition of Contract  GCC 14.1 Pg 24	Kindly confirm whether High Sea Sales (HSS) transactions can be done	As per Tender		

		for direct import items.			
85	Section V – Special Conditions of Contract GCC 12.1 (a) pg 8	Our understanding is that the Advance Bank Guarantee shall be released after installation and commissioning of the system (i.e., with 9 months)	As per Tender		
86	Section V – Special Conditions of Contract GCC 12.1 (f) Pg 9	We request you to release the balance 20% final stage payment against operational acceptance or instead quarterly payments during warranty period.	As per Tender		
87	Section V – Special Conditions of Contract GCC 27.2.2 Pg 16	Our understanding is that, the purchaser shall ensure 100% availability of work front as per the agreed project schedule. In case work front is not made available by the purchaser for few locations before last 2 months as per the agreed project schedule, then the operational	Yes		

		acceptance shall be given by the purchaser based on the installed systems. Please confirm.			
88	Section V – Special Conditions of Contract  GCC 28.2 Pg 16	We request you to limit the ceiling limit of LD cap to maximum of 5% of the undelivered portion. Please confirm.	No change		
89	Section NIT & BDS  NIT – Cl. No 7  BDS: ITB-20.2(C )  PG No:  NIT Page 5 of 9  BDS Page 11 of 13	As per NIT referred cl. No, the online bid (e-tender) & Hardcopy of original documents has to be submitted by 14th Oct 2015 by 15.00 hrs.  However as per referred BDS Cl. No for hardcopy submission, bidder has to quote only the “Bid Identification Number” generated after electronic submission of bids online.  We request you to kindly allow to submit the hardcopy of the original	The Last Date and time for receipt of bids through the e-tendering portal <a href="http://eprocure.gov.in">http://eprocure.gov.in</a> is 17.11.2015 up to 15.00 Hrs and will be opened on 18.11.2015 at 1500 hrs.  The bidders are required to submit the following to the O/o Project Director , SPIU,NCRMP,7th Floor, North Wing, GaganVihar Complex, Opposite Gandhi Bhawan, MJ Road, Nampally, Hyderabad - 500001 on or before 19.11.2015 up to	<b>1 &amp; 2</b>	

		documents within 1 days from the date of electronic bid submission.  Please confirm.	15.00 Hrs.		
90	VI – Technical requirements	In the referred clause, it is indicated as – 300 C to 500 C. we assume it is 30 Deg C to 50 Deg C. Please confirm.	Accepted. Typing error	<b>31</b>	
91	VI – Technical requirements Clause 2.1.4.2 (4,i, ii) , Pg 21 of 149	Kindly indicate the IP rating of VHF mobile radio. We propose to have IP 57 protection.	Water submergibility protection shall be required hence IP 57 or better shall be provided for Handheld radio.		
92	VI – Technical requirements Clause 2.1.4.3 (4,i, ii) Pg 23 of 149	In the referred clause, it is indicated as – 300 C to 500 C. we assume it is 30 Deg C to 50 Deg C. Please confirm.	Accepted. Typing error	<b>31</b>	
93	VI – Technical requirements Clause 09 Pg 30 of 149	Only test certificates can be obtained from the test lab. Bidder will submit necessary test certificate from the	Bidder is to submit Lab Test <b>Certificate</b> on the parameter mentioned in technical specifications, from the NABL /ILAC approved Lab. The	<b>18</b>	

		NABL / ILAC approved lab.	<b>Certificate</b> must be enclosed with technical bid. In case offer is received without Lab Certificate same will be rejected		
94	VI – Technical requirements Clause 10 Pg 30 of 149	Testing specific to the tender specification cannot be performed Test will be performed and certificates will be obtained as per DMR governing standards only. Please confirm if the same is acceptable.	This clause is deleted	<b>19</b>	
95	VI – Technical requirements --	Please confirm if any DMR is required for recovery vehicles.	There is no requirement of recovery vehicle. As per Tender		
96	VI – Technical requirements Clause 2.2 Pg 31 of 149	We understand that all district collector office, Mandal Offices are already connected on APSWAN. We assume that, for EWDS project, we can use the existing APSWAN for connectivity to DEOC, MEOC for providing 4	Yes. Separate connection will not be required		

		mbps and 2 mbps bandwidth and separate connection will not be required. Please confirm.			
97	VI – Technical requirements Clause 2.2 Pg 31 of 149	Please provide the details of existing service provides of APSWAN at district collector office, Mandal Offices.	APTS, B R K R Bhavan , Tankbund Road, Hyderabad - 500063		
98	VI – Technical requirements Clause 2.2 Pg 31 of 149	Understand that 10 mbps & 5 mbps broadband connectivity is required at SEOC which is proposed in chief minster office. Please provide the latitude and longitude or address of chief minister office to check the feasibility of providing bandwidth connection.	CM's Camp Office, Suryaraopeta, Moghalrajpuram Near PWD Grounds Vijayawada, Andhra Pradesh		
99	VI – Technical requirements Clause	Request you to please include VHF repeater / base station in alert	Number of repeaters will depend up on regional topography. Bidder will have		

	4.2 ( 6) Pg 105 of 149	towers at sea beaches and cyclone shelters. At present only VHF antenna and cable.	to undertake a survey for that. Detailed specifications are indicative and are to be used for design purpose.		
100	VI – Technical requirements Clause 2.7 Pg 59	Please confirm whether we can offer spun concrete tower for this project.	Accepted as long as it meets Tender Specifications	<b>32</b>	



101	Clause 2.1.4.5 Pg 28 of Section VI	Please try to make with Audible Buzzer/ SNR Read out	Optional		
102	Clause 2.1.4.5 Pg 28 of Section VI	Kindly clarify whether 2 port with POE is required or 2 port having Radio is required.	Design solution to be prepared by the bidder		
103	2.1.4.5 Pg 29 of Section VI Humidity	As per international Standard the maximum Humidity is 95% Non-Condensing. Kindly consider & Clarify	Accepted	<b>33</b>	
104	Page 28 of Section VI Channel Accuracy	Upto $\pm$ 10 PPM	As per Tender		
105	Pg 30 of Section VI Supported Bands	As per our understanding 5.825-5.875 Ghz for outdoor deployment as per WPC (India) G.S.R 38(E) Notification dated 19 January. 2007 The supported bands 4.390 - 5.010Ghz asked	Microwave radio shall support 4-6 GHz multi band capability, primarily it shall operate in 5.825 – 5.875 Ghz (Un Licensed Band), and shall also operate in nearby Licensed Band (if reqd.)  Project should not suffer for some remote site		

		<p>in the tender are not unlicensed for outdoor deployment and is in contrast to the frequency band asked in line 1 on Page 28 of 149 where it states that radios Must operate in Unlicensed band (5.825 to 5.875 GHz Band). Kindly clarify</p>	<p>interferences in un licensed band. Multi Band supported equipments are available in the industry</p>		
106	<p>Pg 10 of Section VI SBMDVT (SATELLITE BASED MOBILE DATA VOICE TERMINAL)</p>	<p>As per the TRAI document released on 14th May 2014 , BGAN/SBMDVT dose not have service gateway in India and guidelines are not clear. Service Gate being setup by BSNL Till such service gateway is setup in India , Vendors can not commit /offer supply and service of BGAN/SBMDVT . This may replaced with VSAT network fixed/mobile terminals.</p>	<p>MHA will provide the NOC. AP Govt will extend all support to bidder for getting approval/ License/ regulatory clearances in the name of AP Govt but bidder is required to liaison and pay</p>		

		Kindly advice			
107	Section VI 1.2.3 Page 10	Consider VSAT network with fixed terminals for all 87 EOC sites (MEOC-77, DEO-9 and SECO-1) , Quick Deployable Antenna (QDA) for 9 DECO and , Vehicle Mounted Auto Acquire VSAT - 9 nossimialr to NDRF.	Not in Tender Scope		
108	Pg 8 Section V 12. Terms of Payment (GCC Clause 12)	Kindly consider 60 % of the total Contract Price for this category against Delivery of receipt of Ordered materials in Good condition at Destination & 10 of the entire Contract Price, payable towards complete System Integration and commissioning, exclusive of all recurrent Costs as a final payment against operational acceptance of the EWDS	No change		

		System. Kindly ammend the clause as mentioned			
<b>109</b>	Pg 16 Section V F. GUARANTEES AND LIABILITIES	Kindly amend the clause as below. Liquidated damages shall be assessed at 0.5 percent per week or part thereof. The maximum liquidated damages are 5 percent of the Contract Price, or relevant part of the Contract Price if the liquidated damages apply to a Subsystem.	No change		

110	CI No 2.1.4.3	<p>We understand that Digital Mobile Radios (~ 93 Nos) are required at each repeater site location. DMR repeaters by default have built in Speaker &amp; Mic arrangements, which enables repeater user to participate in calls etc just like a static radio.</p> <p>In case of Static Radios are to be installed at other location, then please provide details of the locations where these radios will be installed.</p> <p>Please confirm our understanding.</p> <p>Please also mention the antenna system requirement at each site, else</p>	<p>We need dedicated repeater. Repeater and Base Station/ Static radio will operate independently. The static radio shall be located near repeater station. Bidder shall quote required RF cable length, antenna and necessary accessories including UPS, Power adapters, Cables etc. for the successful operation of the network.</p>		
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		<p>technical/commercial evaluation will become very difficult, some of the minimum requirement at each site shall be -</p> <ol style="list-style-type: none"> <li>1. Low Loss RF Cable – 30 Mtrs</li> <li>2. High Gain 3 dBi Antenna – highly durable Fiber Glass Omni directional antenna to cater to cyclone and adverse conditions at sea shore.</li> <li>3. Other installation Accessories (Weather Proofing Kit, jumper cables, connectors, etc) Power Supply cum Battery Charger Unit i.e. 220VAC to 12 VDC convertor.</li> </ol>			
111	Cl. No 2.1.4.2	It is requested to provide the detailed BoM for the required accessories at each DMR Repeater site.	Bidders need to provide all necessary accessories for installation and Commissioning. Automatic change over to battery in		

		<p>Please also mention the antenna system requirement at each site, else technical/commercial evaluation will become very difficult, some of the minimum requirement at each site shall be -</p> <p>5. Low Loss RF Cables (RG217/ LMR400/ ½” Copper Corrugated etc) – 50 Mtrs</p> <p>6. High Gain 6dBi Antenna – highly durable Fiber Glass Omni directional antenna to cater to cyclone and adverse conditions at sea shore.</p> <p>7. Other installation Accessories (Weather Proofing Kit, jumper cables, connectors, etc)</p> <p>8. Duplexer Unit</p> <p>9. Power Supply cum Battery Charger Unit i.e. 220VAC to 12 VDC</p>	<p>case of mains failure.</p>		
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		convertor.			
112	Cl. No 2.1.2 Pg 16, Scope of Work	We understand that a successful bidder has to undertake a detailed site surveys and recommend NCRMP / NDMA about the repeater sites after award of contract. The no of repeaters to be quoted by bidders is fixed in the tender as 93 no's i.e. 77 for MEOC's and 16 for FLC's, this is in contradiction to the tender clause highlighted in the scope of work section. Please clarify.	Yes. 77 nos repeaters at MEOC is fixed. But, 16 FLCs/ Shore stations may increase after detailed RF survey. Also see Clause ITB 33.1 page 13of Section II		
113	Cl. No 2.1.2, Pg 16, Scope of Work	Request kindly elaborate the scope of integration with the existing VHF analog networks.  Also provide the details of the existing Analog VHF network, such as frequencies used, are they operating with	Necessary Hardware and software for audio level integration at all FLC / Shore station should be made available. "Details of the existing Analog VHF network -----" is bidders scope of survey. Interface should be compatible with any frequency/ Band Radio		



		repeater or without repeater, approximate no of radios in use etc.			
114	Cl. No 2.1.2 Pg 16, Scope of Work	<p>Telecom regulatory related activities such as WPC applications, SACFA clearances etc is to be coordinated by the end user or owner of the network. In this case the VHF network being captive network of NDMA - NCRMP, it will be difficult for bidders to undertake this activity as a prime.</p> <p>It is requested to relax the WPC application &amp; payments from bidder's scope, liaising &amp; support can be part of bidder's scope.</p>	AP Govt., will extend all support to bidder for getting approval/ License/ regulatory clearances in the name of AP Govt., but bidder is required to liaison and pay.		
115	Cl. No 1.2.1, Cl. No 2.1.4.1 DMR VHF Handheld Radio/Pg 18 -	Functional requirement for batteries of Handheld are mentioned as minimum 8 Hrs of	Battery Capacity 2000 mAH or more. Average battery life for 5/5/90 duty cycles Digital: 16 hrs or more &	<b>5</b>	

	xi	<p>operations. Where as in technical specification it specifies the capacity to 2100 mAh. Technically battery consumption is based on radio design &amp; other field parameters. 2100 mAh batteries is specific to vendor.</p> <p>Battery duty cycle is usually calculated in terms of (Tx / Rx / Idle time) (5/5/90) – it shall have minimum duration of operation. Usually all DMR tender requirement is of 2000mAh.</p> <p>Request to specify the battery requirement in terms of duty cycle and minimum hrs of operation please.</p>	Analog: 10 hrs or more		
116	Cl. No 2.1.4.1, Pg 18, DMR VHF	MIL Standard for dust and water intrusion is catered in the tender. But the critical	Water submergibility protection shall be required hence IP 57 or better shall be provided for Handheld		

	Handheld Radio	<p>requirement of NDMA-NCRMP is missing during cyclone type of disaster; this shall cater to high level of ingress protection for all the field units such as HH etc... These units will be exposed to extreme dust &amp; water conditions.</p> <p>Hence the minimum protection level shall be IP67 and shall be mentioned for hand-portables requirement explicitly as it is mentioned for the RTU units.</p>	radio.		
117	Cl. No 2.1.4.3, Pg 23, Digital VHF mobile Radio – sub clause no 4.	<p>It is assumed that VHF is spelled as VH1. If the above understanding is correct, Please elaborate on the specific features required.</p>	<p>Yes. VH1 to be read as VHF. Standard features are required</p>	<b>34</b>	
118	Cl. No 2.1.4.4, Pg 23,	The application for GPS	No change.		

	Dispatcher Architecture & Specifications	<p>tracking will support most of the standard MAP formats available in the industry. Google MAPS are online and is licensed for use in an enterprise environment such as NDMA-NCRMP.</p> <p>It is requested to provide the MAP format available with AP State / NDMA-NCRMP intend to use in this application, so that the MAP integration can be accessed appropriately and quoted.</p> <p>If the MAP is to be provided by bidder, then we would request you to provide the resolution of the map required and MAP area.</p> <p>Please clarify.</p>	<p>Govt., of AP will not provide any format.</p> <p>Resolution of 1:50000 shall be required. Bidder to provide the map for complete AP State area to be covered.</p>		
119	Cl. No 2.1.4.4, Pg 26, Dispatcher	1. NO / NC operation is not understood from	1, 2: normal open / normal close connectivity for		

	<p>Architecture &amp; Specifications</p> <p>Data Transmission Data and Voice Logging.</p>	<p>dispatcher operations point of view.</p> <p>2. Kindly elaborate on the requirement of GPIO contacts for NO/NC. Process flow / workflow will surely help bidders in dimensioning the system.</p> <p>3. Please clarify whether a network level recording is required or a distributed district level records will be required.</p> <p>4. What shall be capacity of district level recording, How many days records is expected to be maintained</p> <p>5. Can you please elaborate the types of rules and alert events are envisaged in this tender.</p> <p>6. Usually dispatcher is used in manned operations and rules for providing information at his / her desktop can be set, but automation of any such pre-defined</p>	<p>switching on remotely for inward / outward connectivity.</p> <p>3. Voice recording data should be accessible from SEOC</p> <p>4. At least 30 days recording is expected. Necessary Hardware and Software shall be provided by Bidder.</p> <p>5. Rules like if subscriber press particular Soft key of radio then action may be defined in rule which may be changed as per requirement.</p> <p>6. Accepted</p>		
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		activity is not operationally recommended from dispatcher user. Please clarify.			
<b>120</b>	Pg 26, Dispatcher Architecture & Specifications  Real time Monitoring Cl. No 2.1.4.4,	Coverage map reproduction on RSSI levels is not a dispatcher / AVL functionality.  RSSI levels are part of coverage analysis and will be done initially during the network dimensioning. Hence it is requested to delete this clause from dispatcher specification.	Bidder have to conduct site survey and submit the coverage map reproduction.		
<b>121</b>	Cl. No 2.1.4.4, Pg 27 Dispatcher Architecture & Specifications	1. Call routing for specified talk groups can be spanned to multiple repeater sites for e.g a district talk group can be spanned across a network, For this a IP multisite Multisite capability shall be	DMR system shall be supplied with all required Software licenses and Hardware for successful operation of NCRMP DMR network. We are creating a different network spread in respective districts network. Routing is required to patch		

		<p>enabled in the DMR repeaters.          If the above understanding is correct, then IP Multisite licenses for all the DMR repeaters shall be required. Please include the same in repeater specification &amp;BoQ.</p> <p>2. Half duplex private call is only possible in DMR Tier-II systems. Kindly clarify our understanding.</p> <p>3. We understand dynamic intelligent routing of private or group calls is a trunking feature, more over it is not a dispatcher functionality.          Dynamic channel allocation &amp; routing based on user registration is functionality available in digital trunked systems at base station / switching</p>	<p>the calls where ever required for inter district call or all district calls dynamically.          Server / bridging devices are required at State Headquarters level as 3 Dispatchers are controlling 9 servers of 9 districts.</p>		
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		<p>level.</p> <p>The requirement of DMR Tier-II conventional systems is specifically required as part of this tender.</p> <p>Request delete the “Dynamic intelligent routing “ clause</p> <p>4. It is understood that geographically distributed repeater site need to be communicated. This requires backhaul connectivity and multisite licenses. As per our understanding there is no requirement of server / bridging devices.</p> <p>Request clarify the above understanding and provide the requirement envisaged.</p>			
<b>122</b>	Cl. No 2.1.4.4, Pg 27, Dispatcher Architecture &	SMS gateway specification is mentioned in the Dispatcher specifications.	Sending SMS from radio to GSM cellular network shall be required. Pg 39 clause 2.4 requirement for bulk		



	Specifications	As there is a bulk messaging requirement is asked separately in section 2.4 , Pg No – 39 of technical specifications,	messaging is different.		
<b>123</b>	Cl. No 2.1.4 Detailed Technical Specifications: DMR, Pg 18  Note to the Bidder	<ul style="list-style-type: none"> <li>• Telecom regulatory related activities such as WPC applications, SACFA clearances etc is to be coordinated by the end user or owner of the network. In this case the VHF network being captive network of NDMA - NCRMP, it will be difficult for bidders to undertake this activity as a prime.</li> </ul> <p>It is requested to relax the WPC application &amp; payments from bidders scope, liaisoning&amp; support can be part of bidders scope.</p> <ul style="list-style-type: none"> <li>• The Lab test reports for radio parameters, DMR</li> </ul>	<p>No change.</p> <p>"The Lab Test Report should be obtained specifically as per this tender specification. The Lab Test Report obtained before issue of Tender Notice will not be considered." This clause deleted as mentioned in pg. 30 section vi clause 10 note to the bidder.</p>	<b>Also see 18 &amp; 19</b>	

		<p>standards verification and Environmental specifications are conducted for each model during type approvals process. These testing's are done by international agencies recognized by ILAC – MRA (International Laboratory of Accreditation Cooperation – Mutual recognition Arrangement). The equipment's are certified by these agencies after a thorough evaluation set for all DMR &amp; other electronic systems by globally recognized ETSI standards.</p> <p>Hence providing a separate product test by these agencies will not be possible for OEM's.</p> <p>Request amend this clause to be read as – “The Lab Test Report</p>			
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		should be obtained specifically as per this tender specification. The Lab Test Report obtained before issue of Tender Notice will not be considered from ILAC or any international certifying agencies shall be submitted, and bidder shall submit OEM certificate for the same.”			
<b>124</b>	Cl. No 2.6, Pg 52, Alert Tower Siren System	GIS based GUI software can be provided alongwith the siren system. Request provide the GIS specifications required and clarity on the availability of operational area MAP, its format etc.	Govt of AP will not provide any format.  Resolution of 1:50000 shall be required.  Bidder to provide the map for complete AP State area to be covered.		
<b>125</b>	Pg 55, Remote Terminal Unit (RTU) Cl. No 2.6.3,	It is understood that RTU of siren system has to integrate with the DMR VHF Network to receive alert information from DEOC / SEOC / MEOC.	The understanding is correct. RTU of siren system has to communicate over GSM and DMR/VHF network both. Remote triggering of the alert siren system at SEOC		

		<p>The BoQ does not reflect DMR radio and its accessories required for Alert system and VHF integration. Request include the same for better clarity on DMR radio integration &amp; siren system.</p> <p>Telecom regulatory related activities such as WPC applications, SACFA clearances etc is to be coordinated by the end user or owner of the network. In this case the VHF network being captive network of NDMA - NCRMP , it will be difficult for bidders to undertake this activity as a prime.</p>	<p>shall also be possible. Govt. of AP shall apply for Licenses based on the system offered by the bidder, however all costs to be borne by the bidder</p>		
<b>126</b>	Cl. No 4.1 – E, Pg 91  Implementation	Implementation schedule & penalty clauses shall start from wireless regulatory clearance of	No change		

	Schedule	various sub systems.			
127.	Section VI 2.1.4.1 of 1 i) Pg 18	Frequency Range: 136 to 174 MHz (full band)	Accepted	<b>4</b>	
128	Section VI 2.1.4.1 of 1 iii) Pg 18	We suggest all sets to be supplying with display only and remove non-display	All sets with display only		
129	Section VI 2.1.4.1 of 1 vi) Pg 18	Average battery life for 5/5/90 duty cycles Digital: 16 hrs or more & Analog: 10 hrs or more	Battery Capacity 2000 mAH or more. Average battery life for 5/5/90 duty cycles Digital: 16 hrs or more & Analog: 10 hrs or more	<b>5</b>	
130	Section VI 2.1.4.1 of 1 ix) Pg 18	Weight: Less than 350 gm with battery as 500 gms is very heavy.	Accepted	<b>6</b>	
131	Section VI 2.1.4.1 of 3 iii) Pg 18	Adjacent Chanel Selectivity : 60db or better ( As per TIA 603A-1T Standards)	No change		
132	Section VI 2.1.4.1 of 4 Pg 19	Degree sign is to be added instead of '0'	Accepted. Typing error	<b>7</b>	
133	Section VI 2.1.4.1 of 4	Should be deleted as	Accepted	<b>8</b>	

	xi) pg 19	Project is near Sea			
134	Section VI 2.1.4.1 of 20 Feature wise Configuration Point 16	Should have built-in GPS feature with following specifications: i. Time to First Fix (TTFF) cold start : <1 minutes ii. Time to First Fix (TTFF) hot start :<10 seconds iii. Horizontally accuracy :< 5 meters	No change		
135	Section VI 2.1.4.1 of 20 Feature wise Configuration	Over the Air Programming to programe the radios from District / Block / FLC Control rooms	Optional		
136	Section VI 2.1.4.1 of 20 Feature wise Configuration	IP Standard should be IP57 as sets are going to be used in Harsh conditions	Water submergibility protection shall be required hence IP 57 or better shall be provided for Handheld radio.		
137	Section VI 2.1.4.1 of 20 Feature wise Configuration	Programming through inbuilt Bluetooth as no provision for programming cables	Accepted	<b>9</b>	
138	Section VI 2.1.4.2 of 1 i)	Frequency Range: 136	Accepted	<b>10</b>	

	Pg 20	to174 MHz (full band)			
139	Section VI 2.1.4.2 of 2 i) Pg 20	RF Power output : 25 to 45 Watts (programmable)	Accepted	<b>11</b>	
140	Section VI 2.1.4.2 of 4 Pg 21	Degree sign is to be added instead of '0'	Accepted. Typing error	<b>12</b>	
141	Section VI 2.1.4.2 of 3 iv) Pg 21	Adjacent Chanel Selectivity : 60db or better ( As per TIA 603A-1T Standards)	No change		
142	Section VI 2.1.4.3 of 1 i) Pg 21	Frequency Range: 136 to174 MHz (full band)	Accepted	<b>13</b>	
143	Section VI 2.1.4.3 of 1 viii) pg 21	Duplicating as mentioned at Page23 Serial no 5 also	Accepted	<b>14</b>	
144	Section VI 2.1.4.3 of 3 iii) pg 22	Adjacent Chanel Selectivity : 60db or better ( As per TIA 603A-1T Standards)	No change		
145	Section VI 2.1.4.3 of 4 iii) pg 22	Degree sign is to be added instead of '0'	Accepted. Typing error	<b>15</b>	
146	Section VI 2.1. 04.3 of 4 x) pg 22	Should be deleted as Project is near Sea	Accepted	<b>16</b>	

147	Section VI 2.1.4.3 of Serial No. 13 pg 23	Should have built-in GPS feature with following specifications: i. Time to First Fix (TTFF) cold start : <1 minutes ii. Time to First Fix (TTFF) hot start :<10 seconds iii. Horizontally accuracy :<5 meters	No change		
148	Section VI 2.1.4.3 Features. pg 23	Over the Air Programming to programe the radios from District / Block / FLC Control rooms	Optional		
149	Section VI 2.1.4.3 Features. pg 23	Programming through inbuilt Bluetooth as no provision for programming cables	Accepted	<b>17</b>	
150	Section VI 2.1.4.3 NOTE TO THE BIDDER Pg 30	Bidder is to submit Lab Test Certificate on the parameter mentioned in technical specifications, from the NABL /ILAC approved Lab. The Certificate must be enclosed with technical bid. In case offer is	Accepted	<b>18</b>	



		received without Lab report same will be rejected.			
151	Section VI 2.1.4.3 NOTE TO THE BIDDER Pg 30	Should be deleted as tests are carried as per DMR & Manufacturer's standards	Accepted	19	
152	Our Submission	The project is for disaster management and vehicular DMR sets are not mentioned in the tender, with our past experience we suggest department to include some DMR sets for Mobile communication also.	To be quoted as an optional item		
153	Section VI 2.1.2 Scope of Work Pg 16	User Transmition Intruption for emergency broadcasts limited to supervisory controls only	As per Tender		
154	Section VI 2.1.2 Scope of Work Pg 16	The selected bidder shall be asked to show the live demonstration of Radios with repeater and related software features	Clause deleted	45	

		including dispatcher			
155	Section VI 2.1.4.5 Pg 28	Upto ± 10 PPM	No change		
156	Section VI 2.1.4.5 Pg 29	up to 50Mbps Aggregate	No change		
157	Section VI 2.1.4.5 Pg 30	5.825-5.875 Ghz for outdoor deployment as per WPC (India) G.S.R 38(E) Notification dated 19 January. 2007 The supported bands 4.390 - 5.010Ghz asked in the tender are not unlicensed for outdoor deployment and is in contrast to the frequency band asked in line 1 on Page 28 of 149 where it states that radios Must operate in Unlicensed band (5.825 to 5.875 GHz Band)	Overall requirement is defined. Detailed specifications are indicative and are to be used for design purpose. As per bidder's requirement, repeater at FLC is required to be connected with repeater at MEOC for control and visibility from SEOC. Project should not suffer for some remote site interferences in un licensed bandwidth. However Microwave radio shall support 4.390 -5.010 GHz multi band capability. but primarily, it shall operate in		

			5.825 to 5.875 GHz unlicensed band.		
158	Sec – 6 :44	<p>What is expected from Voice SMS? Can this be explained further?</p> <p>Each message needs to be sent in all the three languages?</p> <p>Or should the system provide the functionality to send in either language ?</p>	<p>Voice SMS means Pre recorded Voice message of fixed duration regarding the emergency voice alert messages which the system should be able to trigger for selected groups(known individuals). System should be able to capture DTMF responses - if any - by recipients, to these voice alerts. These responses will then need to be collated and displayed in logs/reports. System should have the functionality to send in either language, as per requirement</p>		
159	Sec – 6 :44	<p>Can this use case be defined?</p> <p>Does this log refer to sending alerts to groups (known individuals) or to geographically identified</p>	<p>This log refers to the alerts sent to groups (known individuals) or to geographically identified populations). For location based alerts, the subscriber info is not available from the</p>		

		populations?	telecom operators. But the statistical info can be displayed - how many messages sent, how many delivered, how many failed, etc. If a person chooses to respond to the location based alert SMS - asking for help, etc - then his details can be displayed		
160	Sec – 6 :44	Does this mean the system should have a requirement of sending an LBAS alert message in all 3 languages, as part of the same alert ? Or the ability to send in either language ?	Yes. Sending an LBAS alert message in all 3 languages, as part of the same alert is required.		
161	Sec - 6 : 46	Would request more description of this functionality. Are there specific use-cases for user registration defined?	This registration system must be easy to use from any PC or mobile phone without the need for any additional software or plugins. Accessing this system must be secured without need for passwords. General public must be able		

			<p>to register multiple areas (addresses) that they can get alerts.</p> <p>Data of the self-registered citizens should be available for mass messaging without significant delays without additional customization.</p> <p>General public can select how they will be alerted - voice calls, SMS or using mobile app.</p>		
162	Sec - 6 : 41	Mass messaging systems needs to be CAP compliant, But how is it required to integrate with other non-CAP compliant systems ?	<p>The Mass messaging system must be CAP compliant, so as to be easily integrable with any other CAP compliant systems (TV, radio, sensors, etc).</p> <p>The system must be compliant to the latest standard of CAP, both for input and output of CAP files.</p> <p>The system must be able to use CAP to send alerts using all methods available to logged user.</p> <p>The system must have robust mechanism to handle errors</p>	<b>Also see 35</b>	

			<p>in the CAP exchange. The system must be able to add CAP extensions to handle all known use cases for the NCRMP solution.</p> <p>In the case of 3rd party systems (TV, radio, sensors, etc)themselves - which need to be integrated with the NCRMP mass messaging system - are not CAP compliant, then the NCRMP Mass messaging solution should provide, non-CAP but standards-based interfaces, available as part of the product offering, and details thereof.</p> <p>In case of non-standard 3rd party system (TV, radio, sensors, etc) integrations, Mass messaging solution provider may need to carry out certain software customizations to ensure this integration. The mass messaging solutions provider</p>		
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			<p>will not be required to provide any specialized hardware.</p> <p>Mass messaging solutions provider will be responsible for the integration with 3 TV channels and 3 Radio channels which includes customizations/modifications to be carried out by that 3rd party system (TV, radio, etc) for direct display of warning message.</p>		
163	Sec 1 – page 27	Can you indicate the value of X ? It does not seem to be provided in Section 2 ?	The bidding is done following Single stage, two envelope (2 folder) system using pass/fail criteria. The purchaser will open the part II (Financial bid of the technically (Part-1) qualified bidders only. See ITB 28.4 pg no. 12 of section 1.		
164	Section VI 2.1.4.1 of 1 i) Pg 18	Frequency Range: 136 to 174 MHz (full band)	Accepted	<b>4</b>	
165	Section VI 2.1.4.1 of 1	We suggest all sets to be supplied with display	All sets with display only		

	iii) Pg 18	only and remove non-display			
166	Section VI 2.1.4.1 of 1 vi) Pg 18	Average battery life for 5/5/90 duty cycles Digital: 16 hrs or more & Analog: 10 hrs or more	Battery Capacity 2000 mAH or more. Average battery life for 5/5/90 duty cycles Digital: 16 hrs or more & Analog: 10 hrs or more		
167	Section VI 2.1.4.1 of 1 ix) Pg 18	Weight: Less than 350 gm with battery as 500 gms is very heavy.	Accepted	<b>5</b>	
168	Section VI 2.1.4.1 of 3 iii) Pg 18	Adjacent Chanel Selectivity : 60db or better ( As per TIA 603A-1T Standards)	No change		
169	Section VI 2.1.4.1 of 4 Pg 19	Degree sign is to be added instead of '0'	Accepted. Typing error	<b>6</b>	
170	Section VI 2.1.4.1 of 4 xi) Pg 19	Should be deleted as Project is near Sea	Accepted	<b>7</b>	
171	Section VI 2.1.4.1 Feature wise Configuration Point 16 Pg 20	Should have built-in GPS feature with following specifications: i. Time to First Fix (TTFF) cold start : <1 minutes ii. Time to First Fix (TTFF) hot start :<10 seconds	No change		



		iii. Horizontally accuracy :< 5 meters			
172	Section VI 2.1.4.1 Feature wise Configuration Point 16 Pg 20	Over the Air Programming to programe the radios from District / Block / FLC Control rooms	Optional		
173	Section VI 2.1.4.1 Feature wise Configuration Point 16 Pg 20	IP Standard should be IP57 as sets are going to be used in Harsh conditions	Water submergibility protection shall be required hence IP 57 or better shall be provided for Handheld radio.		
174	Section VI 2.1.4.1 Feature wise Configuration Point 16 Pg 20	Programming through inbuilt Bluetooth as no provision for programming cables	Accepted	<b>9</b>	
175	Section VI 2.1.4.2 of 1 i) Pg 20	Frequency Range: 136 to174 MHz (full band)	Accepted	<b>10</b>	
176	Section VI 2.1.4.2 of 2 i) Pg 20	RF Power output : 25 to 45 Watts (programmable)	Accepted	<b>11</b>	
177	Section VI 2.1.4.2 of 4	Degree sign is to be	Accepted. Typing error	<b>12</b>	

	Pg 21	added instead of '0'			
178	Section VI of 3 iv 2.1.4.2	Adjacent Chanel Selectivity : 60db or better ( As per TIA 603A- 1T Standards)	No change		
179	Section VI 2.1.4.3 of 1i) Pg 21	Frequency Range: 136 to174 MHz (full band)	Accepted	<b>13</b>	
180	Section VI 2.1.4.3 of 1 viii) Pg 21	Duplicating as mentioned at Page23 Serial no 5 also	Accepted	<b>14</b>	
181	Section VI 2.1.4.3 of 3 iii) Pg 22	Adjacent Chanel Selectivity : 60db or better ( As per TIA 603A- 1T Standards)	No change		
182	Section VI 2.1.4.3 of 4 Pg 22	Degree sign is to be added instead of '0'	Accepted. Typing error	<b>15</b>	
183	Section VI 2.1.4.3 of 4x Pg 22	Should be deleted as Project is near Sea	Accepted	<b>16</b>	
184	Section VI 2.1.4.3 of Serial no 13 Pg 23	Should have built-in GPS feature with following specifications: i. Time to First Fix (TTFF) cold start : <1 minutes	No change		

		ii. Time to First Fix (TTFF) hot start :<10 seconds iii. Horizontally accuracy :<5 meters			
185	Section VI 2.1.4.3 Features Pg 23	Over the Air Programming to programe the radios from District / Block / FLC Control rooms	Optional		
186	Section VI 2.1.4.3 Features Pg 23	Programming through inbuilt Bluetooth as no provision for programming cables	Accepted	<b>17</b>	
187	Section VI 2.1.4.3 of NOTE TO THE BIDDER Pg 30	Bidder is to submit Lab Test Certificate on the parameter mentioned in technical specifications, from the NABL /ILAC approved Lab. The Certificate must be enclosed with technical bid. In case offer is received without Lab report same will be rejected.	Accepted	<b>18</b>	

188	Section VI 2.1.4.3 of NOTE TO THE BIDDER Pg 30	Should be deleted as tests are carried as per DMR & Manufacturer's standards	Accepted	19	
189	Our Submission	The project is for disaster management and vehicular DMR sets are not mentioned in the tender, with our past experience we suggest department to include some DMR sets for Mobile communication also.	To be quoted as an optional item		
190	Section VI of 2.1.2 Scope of Work:Pg 16	User Transmition Interruption for emergency broadcasts limited to supervisory controls only	As per Tender		
191	Section VI of 2.1.2 Scope of Work:Pg 16	The selected bidder shall be asked to show the live demonstration of Radios with repeater and related software features including dispatcher	Clause deleted	45	

192	2.4.1.a	It is required for NDMA/Information and Broadcasting department to send a letter of communication to all Radio and TV channel operators to dedicate a SMS number for receiving Emergency Alerts from NDMA in virtue of saving public lives and public property during calamities and receive the alerts. The alerts so received will be approved and displayed / voiced in the most visible / audible format to the public in their channels	As per Tender		
193	2.4.1.b	For location based alerts. A part from SMS, optionally choice of channel like Cell Broadcast has to be used to send mass alerts to public as this technology has been internationally recognized for sending	CB system does not provide any data on the no. of subscribers who are present in an area, or about how many received the alerts. Each of the individual mobile handsets which are CB compliant, need to manually configure for the CB setting and channel by individuals.  However, new clause in 2.4.2.8 added that	<b>36</b>	

		emerging alerts using CAP Protocol. This requirement needs to be incorporated in the tender to accomplish the actual need of this project	the proposed application should have capability to integrate with Cell Broadcast of the TSPs.		
<b>194</b>	2.4.1.b	It is required for NDMA/DOT to send a letter of communication to all mobile network operators to extend the network interfaces to the selected MassMessaging Vendor in this tender using standard protocols like SMPP, HTTPS etc to connect to their existing LBS-AS and CBC systems operating in the regions/circles of this contract scope for sending emergency alerts to save public lives and public property during natural or man-made disasters. such alerts has to be assigned the	Bidder's scope of work		

		highest priority. The mobile network operator will disclose the statistics of total indian numbers and international numbers affected in that region, if not for the actual mobile subscriber numbers			
195		<p>We would like to bring to your notice that Telecom Operators require a regulatory approval from DOT so that they can open the LBS Interfaces to third party vendors like us.</p> <p>We have the solution ready with us and we have tried to deploy a similar system in the past but due to regulatory constraints, we were not able to deploy it.</p> <p>We would like to know whether the tenderer/AP</p>	<p>There have been multiple deliberations on this topic with the leading TSPs (Telecom Service Providers) in India. No subscriber information or other sensitive subscriber data is required to be shared at any time, by the telecom provider – to the NCRMP system.</p> <p>The NCRMP system will send the location data of the geographical regions selected, i.e. latitudes/longitudes of the polygon (and the alert message in certain cases) – using a GIS interface – to the Location based alerting interface of the telecom operators. And it will get back a response from the telco interface, in terms of the no. of subscribers present in the specified location(s) of that telecom operator (and also no of messages sent, no. of messages received, no. of messages failed,</p>		

		Government would ensure that DOT gives regulatory approval for LBS services for Mass Notification (during emergencies) so that all telecom operators are legally bound to open the LBS Interfaces to third party vendors and give full co-operation.  Kindly Confirm?	etc).		
196	NIT Pg 8 point 7	We want to know the bid security amount of Rs 1,00,00,000 is for project or for each consortium partner.	For the project		
197	Section II 5 ,Point iii Technical	We want to know in detail about qualifying criteria is both satellite phone and VSAT or any one of them	Any one of them		
198	Section II 5 ,Point iii Technical	Selling Satellite Phone in India is illegal as per regulatory, can bidder provide the VoIP on VSAT ?	As per tender. MHA will provide NOC. AP Govt., will extend all support to bidder for getting approval/ License/ regulatory clearances in the name of AP Govt., but bidder is required to		



			liaison and pay		
199	Section VI Pg 11 Mass Messaging	What is the maximum message capacity that a system required	Minimum 5 lakhs Text SMS and 1 lakh voice SMS		
200	Section VI Universal Communication Interface pg 47	Are there any specific OEM restriction for the UCI functionality	As per Tender specifications		
201	Section VI Pg 31 Technical	Bidder need to use the separate Last mile from APSWAN ?Incase of APSWAN is not feasible for connectivity, what needs to be done.	As per Tender		
202	Section VI Pg 31 Technical	Since APSWAN is not having higher uptime, we recommend the separate MPLS connectivity for this project as the same will have higher uptime	As per Tender		
203	Section VI Pg 18 Technical	What is the area that each Digital Mobile Radio tower should cover, is there any area defined ? Please give us more details	Bidder will have to undertake a survey for that to cover entire coastal mandals. The DMR system shall be used at disaster sites when the management staff will move to the site		

			and also to activate Alert Siren System.		
204	Section VI Pg 18 Technical	What is the existing VHF system that currently Fisherman using, please provide details.	Necessary Hardware and software for audio level integration at all FLC / Shore station should be made available. "Details of the existing Analog VHF network -----" is bidders scope of survey. Interface should be compatible with any VHF frequency/ Band Radio		
205	Section I Pg 8 Qualifications of the Bidder	Does Joint venture mean a consortium partner ? Kindly clarify	yes – all consortium partner or member of joint venture are severally liable		
206	Section II Pg 2 ITB 6.1 (a) Bid data sheet General (Qualification requirements for Bidders )	Kindly make this for a period of 03 years	As per Tender		
207	Section II Pg 5 TECHNICAL:	As there is no bench mark to any such project , this should be relaxed and changed to : Prime Bidder/Consortium Partner/ Subcontractor/ OEM/ OEM Authorized Partner should have implemented at least two (1) radio communication	No change		

		network comprising of repeaters/hand portable, mobile/ static radio/ telecom network in last eight years costing not less than the amount equal to INR 100,00,000/- . Successful completion certificate from competent authority required to be submitted.			
208	Section II Pg 5 TECHNICAL:	As there is no bench mark to any such project , this should be relaxed and changed to : should have Implemented at least two (1) national/state level multi-channel alerting solution for public warning in the last eight years, and also have location based SMS alerting capabilities. As TSP has all capability, a self certification should be allowed .	No change		
209	Section II Pg 6 Financial	To be considered as Prime Bidder or any of related company /100% owned subsidiary company should have positive net worth for	Accepted	<b>46</b>	

		each of the last three financial years ending March 2015. Auditor's certificate for net worth is required to be submitted			
210	Section IV D.INTELLECTUAL PROPERTY Pg 24	who will invest( pay for ) in the Escrow account .	Bidders account		
211	Section IV General Conditions of Contract	This should be only for the existing requirement, anything new will be considered as change request .	No change		
212	Section IV FINANCIAL	ii. Prime Bidder and all Member of the Consortium should have positive net worth for each of the last three financial years ending March 2015. Auditor's certificate for net worth is required to be submitted. To be changed to the prime bidder or its parent company should have positive net worth . Prime Bidder should have a minimum average turnover of INR 200 Crores for the last	ii. Prime bidder or its parent company and all members of consortium should have positive net worth for each of the last three financial years ending March 2015. Auditor's certificate for net worth is required to be submitted.		

		three financial years from IT/Telecom infrastructure services businesses.( with this size of big bid and turn over has to be higher )			
213	Sec – 6 :44	What is expected from Voice SMS? Can this be explained further?	Voice SMS means Pre recorded Voice message of fixed duration regarding the emergency voice alert messages which the system should be able to trigger for selected groups. System should be able to capture DTMF responses - if any - by recipients, to these voice alerts. These responses will then need to be collated and displayed in reports. System should have the functionality to send in either language, as per requirement		
214		Each message needs to be sent in all the three languages?	Yes		
215		Or should the system provide the functionality to send in either language ?	Each message needs to be sent in all the three languages		

216	Sec - 6 : 44 Sl. No: 26	<p>Can this use case be defined?</p> <p>Does this log refer to sending alerts to groups (known individuals) or to geographically identified populations?</p>	<p>This log refers to the alerts sent to groups ((known individuals) or to geographically identified populations). For location based alerts, the subscriber info is not available from the telecom operators. But the statistical info can be displayed - how many messages sent, how many delivered, how many failed, etc. If a person chooses to respond to the location based alert SMS - asking for help, etc - then his details can be displayed</p>		
217	Sec - 6 - 44	<p>Does this mean the system should have a requirement of sending an LBAS alert message in all 3 languages, as part of the same alert ? Or the ability to send in either language ?</p>	<p>Each message needs to be sent in all the three languages</p>		
218	Sec - 6 : 46pg	<p>Would request more description of this functionality. Are there specific use-cases for user registration defined?</p>	<p>This registration system must be easy to use from any PC or mobile phone without the need for any additional software or plugins.</p> <p>Accessing this system must be secured without need for passwords.</p> <p>General public must be able to register multiple areas (addresses) that they</p>		

			<p>can get alerts.</p> <p>Data of the self-registered citizens should be available for mass messaging without significant delays without additional customization.</p> <p>General public can select how they will be alerted - voice calls, SMS or using mobile app.</p>		
219	Sec - 6 : 41	<p>Mass messaging systems needs to be CAP compliant, But how is it required to integrate with other non-CAP compliant systems?</p>	<p>The Mass messaging system must be CAP compliant, so as to be easily integrable with any other CAP compliant systems (TV, radio, sensors, etc).</p> <p>The system must be compliant to the latest standard of CAP, both for input and output of CAP files.</p> <p>The system must be able to use CAP to send alerts using all methods available to logged user.</p> <p>The system must have robust mechanism to handle errors in the CAP exchange.</p> <p>The system must be able to add CAP extensions to handle all known use cases for the NCRMP solution.</p> <p>In the case of 3rd party systems (TV, radio, sensors, etc)themselves - which</p>	<b>35</b>	

			<p>need to be integrated with the NCRMP mass messaging system - are not CAP compliant, then the NCRMP Mass messaging solution should provide, non-CAP but standards-based interfaces, available as part of the product offering, and details thereof.</p> <p>In case of non-standard 3rd party system (TV, radio, sensors, etc) integrations, Mass messaging solution provider may need to carry out certain software customizations to ensure this integration. The mass messaging solutions provider will not be required to provide any specialized hardware.</p> <p>Mass messaging solutions provider will be responsible for the integration with 3 TV channels and 3 Radio channels which includes customizations/modifications to be carried out by that 3rd party system (TV, radio, etc) for direct display of warning message.</p>		
220	Sec 1 – page 27	Can you indicate the value of X ? It does not seem to be	The bidding is done following Single stage, two envelope (2 folder) system using pass/ fail criteria. The purchaser		



		provided in Section 2 ?	will open the part II (Financial bid of the technically (Part-1) qualified bidders only. See ITB 28.4 pg no. 12 of section 1.		
221	Section VI 2.7 Pg 59	Technical Specifications of 30 meter Self-Supporting Tower or Spun Concrete Monopole type.	Accepted	<b>32</b>	
222	Section VI 2.7.3 Pg 60	Specifications for Fabrication and Design of Angular Tower / Design, Casting of Spun Concrete Tower	Accepted	<b>37</b>	
223	Section VI 2.7.3.1) Pg 60	Tower members shall be of structural steel grade 'A' conforming to IS 226, IS 2062 and IS 7215 with latest amendments or Spun Concrete tower shall be casted with minimum M-60 grade of concrete complying to IS-875	Accepted	<b>38</b>	
224	Section VI 2.7.3.2) Pg 60	All steel used shall be galvanized conforming to relevant IS specification i.e. IS 2629 for tower members, IS 5358 for fasteners and IS 1573 for washers. Spray galvanizing is permitted whenever hot dip	Accepted	<b>39</b>	

		galvanization is not possible or conforming to relevant IS Standards for Spun Concrete Tower.			
225	Section VI 2.7.4.1) Pg 60	The overall force coefficients for wind load on tower shall be taken from the latest standards prescribed by the bureau off Indian Standards for self supporting steel towers or spun concrete tower, loads and permissible stresses. For calculating the solidity ratio actual obstruction area of tower shall be considered. Separate wind obstruction areas shall be taken for ladder, cable rack and platforms etc.	Accepted	<b>40</b>	
226	Section VI 2.7.4.1) Pg 60	The basic dynamic wind pressure at different heights for different zones shall be taken from the prescribed Standard. The basic wind velocity for the site is to be taken from the latest BIS Code No. IS 875. The permissible stresses in the various structural members of	Accepted	<b>41</b>	

		tower shall be adopted from the relevant clauses and tables of IS 800 amended upto date and spun concrete tower shall comply IS 875 :1987 ( part III).			
227	Section VI 2.7.9 Pg 62	<ul style="list-style-type: none"> <li>• Particular attention shall be paid to the bonding of earthing straps to tower, runway, gantry and building steelwork.</li> <li>• Earthing strap shall consist of pure copper of nominal dimensions 3mm x 2.5 mm x 60m long.</li> <li>• The completed earth system shall have a resistance of less than 2 ohms, when measured with a specific earth resistance-measuring instrument. At least two earths at adequate distance apart but interconnected shall be provided.</li> <li>• Length of 25X3mm</li> </ul>	Accepted	<b>42</b>	

		<p>copper strip shall be 60M per site.</p> <p>For earthing of Spun Concrete tower, two earths for lightening protection and runway to be provided. Tower leg grounding shall not be applicable.</p>			
228		<p>Ladders An internal ladder of width not less than 300mm starting from about 0.5 meter level of the tower from the ground and going upto the top with openings at all the platforms shall be provided. In case of spun concrete tower external ladder shall be applicable.</p>	Accepted	<b>43</b>	
229		<p>Trial Erection for Steel Tower / Spun Concrete Tower</p>	Accepted	<b>44</b>	
230	Section VI , Clause 2.7 Pg 59	<p>Technical Specifications of 30 meter Self-Supporting Tower or Spun Concrete Monopole type.</p>	Accepted	<b>32</b>	
231	Section VI , Clause 2.7.3	<p>Specifications for Fabrication and Design of Angular Tower /</p>	Accepted	<b>37</b>	

	Pg 60	Design, Casting of Spun Concrete Tower			
232	Section VI , Clause 2.7.3.1)Pg 60	Tower members shall be of structural steel grade 'A' conforming to IS 226, IS 2062 and IS 7215 with latest amendments or Spun Concrete tower shall be casted with minimum M-60 grade of concrete complying to IS-875	Accepted	<b>38</b>	
233	Section VI Clause 2.7.3.2) Pg 60	All steel used shall be galvanized conforming to relevant IS specification i.e. IS 2629 for tower members, IS 5358 for fasteners and IS 1573 for washers. Spray galvanizing is permitted whenever hot dip galvanization is not possible or conforming to relevant IS Standards for Spun Concrete Tower.	Accepted	<b>39</b>	
234	Section VI Clause 2.7.4.1), Pg 60	The overall force coefficients for wind load on tower shall be taken from the latest standards prescribed by the bureau off Indian Standards for self supporting steel towersor spun	Accepted	<b>40</b>	

		concrete tower, loads and permissible stresses. For calculating the solidity ratio actual obstruction area of tower shall be considered. Separate wind obstruction areas shall be taken for ladder, cable rack and platforms etc.			
235	Section VI Clause 2.7.4.1) Pg 60	The basic dynamic wind pressure at different heights for different zones shall be taken from the prescribed Standard. The basic wind velocity for the site is to be taken from the latest BIS Code No. IS 875. The permissible stresses in the various structural members of tower shall be adopted from the relevant clauses and tables of IS 800 amended upto date and spun concrete tower shall comply IS 875 :1987 ( part III).	Accepted	<b>41</b>	
236	Section VI Clause 2.7.9 Pg 62	<ul style="list-style-type: none"> <li>Particular attention shall be paid to the bonding of earthing straps to tower,</li> </ul>	Accepted	<b>42</b>	

		<p>runway, gantry and building steelwork.</p> <ul style="list-style-type: none"> <li>• Earthing strap shall consist of pure copper of nominal dimensions 3mm x 2.5 mm x 60m long.</li> <li>• The completed earth system shall have a resistance of less than 2 ohms, when measured with a specific earth resistance-measuring instrument. At least two earths at adequate distance apart but interconnected shall be provided.</li> <li>• Length of 25X3mm copper strip shall be 60M per site.</li> </ul> <p>For earthing of Spun Concrete tower, two earths for lightning</p>			
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		protection and runway to be provided. Tower leg grounding shall not be applicable.			
237	Section VI Clause 2.7.9.b Pg 62	Ladders An internal ladder of width not less than 300mm starting from about 0.5 meter level of the tower from the ground and going upto the top with openings at all the platforms shall be provided.In case of spun concrete tower external ladder shall be applicable.	Accepted	<b>43</b>	
238	Section VI Clause 2.7.14, Pg 64	Trial Erection for Steel Tower/Spun Concrete Tower	Accepted	<b>44</b>	
239	Section II , ITB Clause 31.2 Pageno 12	We understand that as per the CVC guidelines, in such tenders in case the Lowest Evaluated Bidder (L1) fails in the technical demo during the NCNC site visits, then as next step it may be difficult for Client to place Order on L2. This situation may eventually result in re-tendering. In order to save time	NCNC demo clause deleted	<b>45</b>	



		<p>and effort of re-tendering, we suggest that you may kindly plan to make site visits as part of Technical evaluation, even before opening the Financial Bids. In that case, rejections if any, may be announced and Financial Bids of only acceptable solutions may be opened.</p>			
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### ANNEXURE III

**Subject: TABLE 2 Consolidated Addendum No.2 dt.16-10-2015.**

**Reference No: Tender reference No. AP/SPIU/NCRMP-1/EWDS/001/2015 dated 24.08.2015**

**Tender Title: Procurement of Supply, Installation, Commissioning and Services for Early Warning Dissemination System for the Coastal Districts of Andhra Pradesh**

**Following is the Consolidated amendment to the Queries raised till date 30.09.2015 against Tender for "Procurement of Supply, Installation, Commissioning and Services for Early Warning Dissemination System for the Coastal Districts of Andhra Pradesh"**

Sl.No	Clause no. of ITB/GCC/SCC/Forms	Existing provisions	Amended Provisions
1	Sl. No. 7 of Pg No: 5 of NIT	The Last Date and time for receipt of bids through the e-tendering portal <a href="http://eprocure.gov.in">http://eprocure.gov.in</a> is 14.10.2015 up to 15.00 Hrs	The Last Date and time for receipt of bids through the e-tendering portal <a href="http://eprocure.gov.in">http://eprocure.gov.in</a> is 17.11.2015 up to 15.00 Hrs and will be opened on 19.11.2015 at 15.00 hrs.
2	Sl. No. 5 of Pg No: 5 of NIT	The bidders are required to submit the following to the O/o Project Director , SPIU,NCRMP,7th Floor, North Wing, GaganVihar Complex, Opposite Gandhi Bhawan, MJ Road, Nampally, Hyderabad -	The bidders are required to submit the following to the O/o Project Director , SPIU,NCRMP,7th Floor, North Wing, GaganVihar Complex, Opposite Gandhi Bhawan, MJ Road, Nampally, Hyderabad -500001 on or before 19.11.2015 up to 15.00 Hrs.

		500001 on or before 14.10.2015 up to 15.00 Hrs	
3	10.1 of Section I	The Purchaser will upload clarifications to any request for clarification or modification of the Bidding Documents that it receives through the e-procurement portal, no later than fifteen (15) days prior to the deadline for submission of bids prescribed by the Purchaser	Last date of submission of queries is 26.10.2015 at 15.00 hrs
4	Section VI 2.1.4.1 - 1 I Pg No. 18	Frequency Range: 136 to 174 MHz (split or full band)	Frequency Range: 136 to 174 MHz (full band)
5	Section VI 2.1.4.1 - 1 (vi)Pg No. 18	Average battery life for 5/5/90 duty cycles: Digital: 10hrs or more & Analog: 8hrs or more	Battery Capacity 2000 mAH or more. Average battery life for 5/5/90 duty cycles Digital: 16 hrs or more & Analog: 10 hrs or more
6	Section VI 2.1.4.1-1 ix)Pg No. 18	Weight: Less than 500 gm with battery	Weight: Less than 350 gm with battery
7	Section VI 2.1.4.1 -4 Pg No. 19	Operating Temperature: -30 C to +55C	Operating Temperature: -30° C to +55 ° C
8	Section VI 2.1.4.1-4 xi)Pg No. 19	High Altitude: MIL-STD-810F/G	Deleted
9	Section VI 2.1.4.1 Pg No. 20 Feature wise	No provision made	Clause No. 17 added at Section VI 2.1.4.1 Pg No. 20  : Programming through inbuilt Bluetooth as no provision for programming cables

	Configuration Point 16		
10	Section VI 2.1.4.2 – 1i Pg No. 20	Frequency Range: 136 to174 MHz (split or full band)	Frequency Range: 136 to174 MHz (full band)
11	Section VI 2.1.4.2 – 2i Pg No. 20	RF Power output : 25 to50Watts (programmable)	RF Power output : 25 to 45 Watts or more (programmable)
12	Section VI 2.1.4.2 -4 Pg No. 21	Operating Temperature: -300Cto +550C	Operating Temperature: -30° C to +55 ° C
13	Section VI 2.1.4.3 - 1 i)Pg No. 21	Frequency Range: 136 to174 MHz (split or full band)	Frequency Range: 136 to174 MHz (full band)
14	Section VI 2.1.4.3 –sl no 5 Pg No. 23	Any one of 2-Tone/5-Tone/DTMF Signaling	DTMF Signaling
15	Section VI 2.1.4.3 – 4 Pg No. 22	Degree sign is to be added instead of '0'	Operating Temperature: -30° C to +55 ° C
16	Section VI 2.1.4.3 - 4 x)Pg No. 22	High Altitude: MIL-STD-810F/G	Deleted
17	Section VI 2.1.4.3 –	No provision made	Clause No. 15 added at Section VI 2.1.4.1 Pg No. 20

	FeaturesPg No. 23		: Programming through inbuilt Bluetooth as no provision for programming cables
18	NOTE TO THE BIDDER Pg No. 30 -2.1. 4 Section VI sl no 09	Bidder is to submit Lab Test Report on the parameter mentioned in technical specifications, from the NABL /ILAC approved Lab. The report must be enclosed with technical bid. In case offer is received without Lab report same will be rejected.	Bidder is to submit Lab Test <b>Certificate</b> on the parameter mentioned in technical specifications, from the NABL /ILAC approved Lab. The <b>Certificate</b> must be enclosed with technical bid. In case offer is received without Lab Certificate same will be rejected
19	NOTE TO THE BIDDER Pg No. 30 -2.1. 4 Section VI sl no 10	“The Lab Test Report should be obtained specifically as per this tender specification. The Lab Test Report obtained before issue of Tender Notice will not be considered” .	This clause is deleted
20	Section IV of 37.1 ( c) Pg No: 54	On terms as specified in the SCC, covering bodily injury or deathsuffered by third parties (including the Purchaser’s personnel) andloss of or damage to property (including the Purchaser’s propertyand any Subsystems that have been accepted by the Purchaser)occurring in connection with the supply and installation of theInformation System.	The Clause 37.1 (c) is modified as: On terms as specified in the SCC, covering bodily injury or death suffered by the Bidder's personnel and loss of or damage to the systems supplied by the Bidder and any Subsystems that have been accepted by the Purchaser occurring in connection with the supply and installation of the EWDS System.
21	Section II (BDS) of ITB 6.1 (a) 1.(ii) Pg No: 4	Bidder should have a proven record in implementing heterogeneous system integration projects, WAN Connectivity, network center, <b>security</b> , telecom projects.	Bidder should have a proven record in implementing heterogeneous system integration projects, WAN Connectivity, network center, telecom projects.
22	Section II (BDS) of ITB 6.1 (a) 2(vi) Pg No: 6	Prime Bidder/ Consortium Partner/ Subcontractor/ OEM / OEM Authorized Partner/ Distributor should have Implemented at least one (1) project related to :Emergency Operation Centre or Network Operation	Prime Bidder/ Consortium Partner/ Subcontractor/ OEM / OEM Authorized Partner/ Distributor should have Implemented at least one (1) project related to :Emergency Operation Centre or Network Operation Centre, LAN, WAN, Internet Services with over 30 WAN Nodes. Successful completion certificate from

		Centre, <b>Security</b> , LAN, WAN, Internet Services with over 30 WAN Nodes. Successful completion certificate from competent authority required to be submitted.  Note: Technical Experience can be individually or combined with the Consortium partners	competent authority required to be submitted.  Note: Technical Experience can be individually or combined with the Consortium partners
23	Section VII of 2.8 (3) Pg No: 33 also See section VI clause 01 page 38'Note to the bidder'	The The bidder has to pay the Airtime in prepaid/postpaid format with minimum recharge of Rs. 10000/- (with 1 year validity per year of operation) ie for two years. The purchaser shall reimburse for the extra Airtime utilized to the bidder after one year prepaid/postpaid validity expires / usage whichever is earlier.	Bidder has to pay the airtime in prepaid mode of payment. See section vi clause 01 page 38 'Note to the bidder'(Post paid to be deleted)
24	Section VI of 2.10.6 Pg No: 73	<b>2.10.6 SET TOP BOX</b> Bidder shall provide four nos HD-Set Top Box from different Operators (DishTV,Airtel, <b>Vodafone</b> , Reliance or local operator) for News feed to be integrated with 42 inch TV at SEOC.	Bidder shall provide four nos HD-Set Top Box from different Operators (DishTV,Airtel, <b>Videocon</b> , Reliance or local operator) for News feed to be integrated with 42 inch TV at SEOC.
25	Section VI – Technical requirements - 2.6.1 & 2.6.5 Page No: 52&57	At page no: 52 The speaker Horn of Remote Terminal Unit (RTU) to be installed on minimum 4 meters pole	.....to be installed on minimum Five (5) meters pole....
26	Section VI – Technical requirements - 2.6.8 Page No: 58 & page no 59	2.6.8 Specification for Solar Hybrid Inverter 1000VA:  Capacity of Solar Hybrid Inverter: <b>1000VA</b>	2.6.8 Specification for Solar Hybrid Inverter 1500VA:  Capacity of Solar Hybrid Inverter: <b>1500VA</b>
27	Section VI – Technical	2.9.1 2512 Port L2 Switch	2.9.1 12 Port L2 Switch

	requirements - 2.9.1 Page No: 68		
28	Section VI – Technical requirements - 2.12.3 Page No: 79	a) The Batteries should be of SMF type designed for 4 hrs backup. Battery must be installed in two strings for the above specified power back for the equipments at 100% load	a) The Batteries should be of SMF VRLA type designed for 4 hrs backup. Battery must be installed in two strings for the above specified power back for the equipments at 100% load
29	Section VI – Technical requirements - 4.2 Page No: 105 and Section VI clause no.2.6.4 page no 57	Horn Speaker Audio Coverage-1.0 Km  The system audio output must be sufficiently high quality audible not less than 1000 meters (diameter) Omnidirectional at 70 db ambient noise.	Horn Speaker Audio Coverage-1.0 Km radius ie 2 km dia  The system audio output must be sufficiently high quality audible not less than 1000 meters (radius)ie <b>two km diameter</b> Omnidirectional at 70 db ambient noise.
30	Section VI – Technical requirements - General	Addition	At MEOC 1 no. 2 T Split AC, DEOC 2 nos 2 T Split AC and at SEOC 4 nos 2T Split AC to be installed.
31	VI – Technical requirements Clause 2.1.4.3 (4,i, ii) Pg 23 of 149	4. i. Page 22 Operating Temperature: -300C to +550C  ii) Storage Temperature : -300C to +600C	4 i. Operating Temperature: -30° C to +55 ° C  ii) Storage Temperature : -30° C to +60 ° C
32	VI – Technical requirements Clause 2.7 Pg 59	<b>2.7 Towers 30 Mtr</b> Technical Specifications of 30 meter Self Supporting Tower	<b>2.7 Towers 30 Mtr</b> Technical Specifications of 30 meter Self-Supporting Tower or Spun Concrete Monopole type.
33	2.1.4.5 Pg 29 of Section	Humidity: 100% non-condensing	Humidity :95% Non-Condensing.

	VI Humidity		
34	Cl. No 2.1.4.3, Pg 23, sub clause no 4. Section VI	4. All features of configuration VH1	4. All features of configuration VHF
35	Section VI page no 41 clause 2.4.2.11	New clause Addition	Mass messaging solutions provider will be responsible for the integration with 3 TV channels and 3 Radio channels which includes customizations/modifications to be carried out by that 3rd party system (TV, radio, etc) for direct display of warning message.
36	Section VI page no 41 clause 2.4.2.8	New clause Addition	New clause in 2.4.2.8 added that the proposed application should have capability to integrate with "Cell Broadcast of the TSPs".
37	Section VI Clause No.2.7.3 Page No 60	Specifications for Fabrication and Design of Angular Tower	Specifications for Fabrication and Design of Angular Tower / Design, Casting of Spun Concrete Tower
38	Section VI Clause No.2.7.3.1) Page No 60	Tower members shall be of structural steel grade 'A' conforming to IS 226, IS 2062 and IS 7215 with latest amendments	Tower members shall be of structural steel grade 'A' conforming to IS 226, IS 2062 and IS 7215 with latest amendments or Spun Concrete tower shall be casted with minimum M-60 grade of concrete complying to IS-875
39	Section VI Clause No.2.7.3.2) Page No 60	All steel used shall be galvanized conforming to relevant IS specification i.e. IS 2629 for tower members, IS 5358 for fasteners and IS 1573 for washers. Spray galvanizing is permitted whenever hot dip galvanization is not possible	All steel used shall be galvanized conforming to relevant IS specification i.e. IS 2629 for tower members, IS 5358 for fasteners and IS 1573 for washers. Spray galvanizing is permitted whenever hot dip galvanization is not possible or conforming to relevant IS Standards for Spun Concrete Tower.



40	<p>Section VI Clause No.2.7.4.1) Page No 60</p>	<p>The overall force coefficients for wind load on tower shall be taken from the latest standards prescribed by the bureau off Indian Standards for self supporting steel towers, loads and permissible stresses. For calculating the solidity ratio actual obstruction area of tower shall be considered. Separate wind obstruction areas shall be taken for ladder, cable rack and platforms etc.</p>	<p>The overall force coefficients for wind load on tower shall be taken from the latest standards prescribed by the bureau off Indian Standards for self supporting steel towers or spun concrete tower, loads and permissible stresses. For calculating the solidity ratio actual obstruction area of tower shall be considered. Separate wind obstruction areas shall be taken for ladder, cable rack and platforms etc.</p>
41	<p>Section VI Clause No.2.7.4.1) Page No 60</p>	<p>The basic dynamic wind pressure at different heights for different zones shall be taken from the prescribed Standard. The basic wind velocity for the site is to be taken from the latest BIS Code No. IS 875. The permissible stresses in the various structural members of tower shall be adopted from the relevant clauses and tables of IS 800 amended upto date</p>	<p>The basic dynamic wind pressure at different heights for different zones shall be taken from the prescribed Standard. The basic wind velocity for the site is to be taken from the latest BIS Code No. IS 875. The permissible stresses in the various structural members of tower shall be adopted from the relevant clauses and tables of IS 800 amended upto date and spun concrete tower shall comply IS 875 :1987 ( part III).</p>
42	<p>Section VI Clause No.2.7.9 Page No 62</p>	<ul style="list-style-type: none"> <li>• Particular attention shall be paid to the bonding of earthing straps to tower, runway, gantry and building steelwork.</li> <li>• Earthing strap shall consist of pure copper of nominal dimensions 3mm x 2.5 mm x 60m long.</li> <li>• The completed earth system shall have a resistance of less than 2 ohms, when measured with a</li> </ul>	<ul style="list-style-type: none"> <li>• Particular attention shall be paid to the bonding of earthing straps to tower, runway, gantry and building steelwork.</li> <li>• Earthing strap shall consist of pure copper of nominal dimensions 3mm x 2.5 mm x 60m long.</li> <li>• The completed earth system shall have a resistance of less than 2 ohms, when measured with a specific earth resistance-measuring instrument. At least two earths at adequate distance apart but interconnected shall be provided.</li> </ul>

		specific earth resistance-measuring instrument. Length of 25X3mm copper strip shall be 60M per site.	<ul style="list-style-type: none"> <li>Length of 25X3mm copper strip shall be 60M per site.</li> </ul> <p>For earthing of Spun Concrete tower, two earths for lightning protection and runway to be provided. Tower leg grounding shall not be applicable.</p>
43	Section VI Clause No.2.7.10.b Page No 62	Ladders An internal ladder of width not less than 300mm starting from about 0.5 meter level of the tower from the ground and going upto the top with openings at all the platforms shall be provided.	Ladders An internal ladder of width not less than 300mm starting from about 0.5 meter level of the tower from the ground and going upto the top with openings at all the platforms shall be provided.In case of spun concrete tower external ladder shall be applicable.
44	Section VI Clause No.2.7.14 Page No 64	Trial Erection for Steel Tower	Trial Erection for Steel Tower /Spun Concrete Tower
45	Section II Clause ITB 31.2 page 12	As additional post qualification measures, the Early Warning Dissemination System (or components/parts of it) offered by the Lowest Evaluated Bidder may be subjected to tests and performance benchmarks prior to Contract award such as presentations, demonstration tests based on NO Cost No Commitment, documentation reviews and reference site visits or as detailed in technical requirements.	This Clause is Deleted

46	Section II Clause 3.ii page 6	Prime Bidder and all Member of the Consortium should have positive net worth for each of the last three financial years ending March 2015. Auditor's certificate for net worth is required to be submitted.	Prime Bidder and all Member of the Consortium or any of related company /100% owned subsidiary company should have positive net worth for each of the last three financial years ending March 2015. Auditor's certificate for net worth is required to be submitted