

## 1. System Inventory Table (Supply and Installation Cost Items)

ICT and EWDS System Inventory Table (This is indicative Bidder to prepare)

Sr. No.	Equipment	Quantity	Location
A	Satellite based communications equipment		
A.1	ISAT phones terminal (one per EOC)	60	SEOC, DEOC and TEOC
A.2	VSAT terminals	326	SEOC, DEOC, TEOC, MPCS and all siren locations
B	Group messaging		
B.1	Work Stations with 19 " LED Monitor (1+1) redundant mode	2 Sets	SEOC and one of the selected DEOC for back-up
B.2	Integrated Emergency Warning Software including Customization	1	SEOC and one of the selected DEOC for back-up
B.3	LED TV Screen 42" HDMI cable for GIS	2	SEOC and one of the selected DEOC for back-up
B.4	Group based Message System Integration with at least 3 major Telecom Service Provider available in Gujarat	3	SEOC and one of the selected DEOC for back-up and SMS centers of TSP
B.5	Data Backup Storage for Logs	1	
B.6	Installation of the system	2	SEOC and one of the selected DEOC for back-up
B.7	Power Cabling	2	SEOC and one of the selected DEOC for back-up
C	Internet Bandwidth and equipment		
C.1	10 Mbps bandwidth (expandable to 20 Mbps)	1	SEOC
C.2	2 Mbps Bandwidth (expandable to 4 Mbps)	15	DEOC
C.3	1 Mbps Bandwidth (expandable to 2 Mbps)	26	TEOC
C.4	42 U 19" Server Rack	2	SEOC
C.5	Network Monitoring System with associated hardware including server and storage	1	
C.6	24 Port FODP (Fiber Optic Distribution Panel) with Pigtail	1	
C.7	24 port L2 switch	2	
C.8	Firewall and IPS	1	
C.9	WAN Router with 8 FE Port , 2 GE WAN Port and with 2 Fiber Port 10/100/1000	1	
C.10	42 U 19" Server Rack	15	DEOC
C.11	24 port L2 switch	15	
C.12	WAN Router with 8 FE Port , 2 GE WAN		

	Port and with 2 Fiber Port 10/100/1000	15	
C.13	9U Wall Mountable 19" Server Rack (one per Taluka x 26 Talukas)	26	TEOC
C.14	12 port L2 switch (one per Taluka x 26 Talukas)	26	
C.15	WAN Router with 8 FE Port , 2 GE WAN Port and with 2 Fiber Port 10/100/1000	26	
D	Alert siren and warning control system hardware and software		
D.1	Communication Control system which controls Alert Siren functionality	1	SEOC
D.2	Communication Control system which controls functionality of all Alert Sirens within boundary of concerned TEOC	26	TEOC
D.3	Advanced Communication Board-Interface board that allows the CCU to communicate over VSAT and via GSM - Two are required for each CCU, one for the VSAT and the second for the GSM modem.	2	SEOC
D.4	Advanced Communication Board-Interface board that allows the CCU to communicate over VSAT and via GSM - Two are required for each CCU, one for the VSAT and the second for the GSM modem. Two at each TEOC	52	SEOC
D.5	Mass Alert Software one at SEOC and one copy at each TEOC	1 Lot	SEOC and TEOC
D.6	Computer Station (1+ 1 Hot standby)	1	SEOC
D.7	Standalone computer station one at each TEOC	26	TEOC
D.8	GSM Modem, SIM Card	2	SEOC
D.9	GSM Modem, SIM Card one at each TEOC	26	TEOC
D.10	Microphone, Digitized Pre-Recorded Voice Messages and Pre-Recorded Digital Messages - Includes up to 15 pre- recorded messages with an average length of 30 seconds of recording time per message	1	SEOC
D,11	Microphone, Digitized Pre-Recorded Voice Messages and Pre-Recorded Digital Messages - Includes up to 15 pre- recorded messages with an average length of 30 seconds of recording time per message one lot at each TEOC	26	TEOC
E	Remote Terminal Unit warning system		
E.1	Audio amplifier and Horn Speaker to provide coverage area of -1.5 Km radius i.e. 3.0 km Diameter	284	
E.2	Remote Terminal Unit	284	

E.3	Antenna Lightning Strike Protector	284	
E.4	Solar Panel	284	
E.5	Solar Hybrid Inverter and Power cabling	284	
E.6	Solar Battery Bank	284	
E.7	Voltage Stabilizer	284	
<b>F</b>	7.0-meter Poles for sirens and 15.0-meter self- supporting towers		
F,1	7.0-meter Poles	142	Siren locations where suitable government / public buildings are available for mounting poles
F.2	15.0-meter self-supporting towers	142	Siren locations where towers are to be installed on ground
F.3	Security fencing around towers and poles	284	
<b>G.</b>	IT , TV reception, office equipment and display systems		
G.1	Work Stations with 19 " LED Monitor (Windows 7/10, MS Office and Anti-Virus) with Head Phone, Webcam, Microphone, Keyboard, Mouse	10	<b>SEOC</b>
G.2	Portable Projector with screen	2	
G.3	Laser All-in-One Printer (Printer, Scanner, Photocopier)	2	
G.4	Fax Machine	2	
G.5	LED TV Screen 42" HDMI cable for news feed	4	
G.6	Set-top Box with TV-Connection Charges	4	
G.7	Modular Furniture set tables + Chairs	1 Lot	
G.8	Work Stations with 19 " LED Monitor (Windows 7/10 , MS Office and Anti-Virus) with Head Phone, Webcam, Microphone, Keyboard, Mouse (3 units per DEOC)	45	<b>DEOC</b>
G.9	Laser All-in-One Printer (Printer, Scanner, Photocopier)-One unit in each DEOC	15	
G.10	Fax Machine (One unit in each DEOC)	15	
G.11	LED TV Screen 42" HDMI cable for news feed (3 units in each DEOC)	45	
G.12	Set-top Box with TV-Connection Charges	15	
G.13	Modular Furniture set tables + Chairs	15 Lots	
G.14	Work Stations with 19 " LED Monitor (Windows 7/10 , MS Office and Anti-Virus) with Head Phone, Webcam, Microphone, Keyboard, Mouse (2 units per TEOC)	52	<b>TEOC</b>
G.15	Laser All-in-One Printer (Printer, Scanner, Photocopier)-One unit in each TEOC	26	
G.16	Fax Machine (One unit in each TEOC)	26	

G.17	LED TV Screen 42" HDMI cable for news feed (2 units in each DEOC)	52	
G.18	Set-top Box with TV-Connection Charges	26	
G.19	Modular Furniture set tables + Chairs	26 Lots	
H	LAN Cabling and power supply wiring for equipment		
H.1	Shall be provided at all EOCs	42 lots	SEOC, DEOC AND TEOC
I	Mains and back-up power supply		
I.1	Mains supply servo stabilizers at all EOCs (Redundant at SEOC and standalone at other EOCs)	3 Lots	SEOC, DEOC AND TEOC
I.2	Mains distribution switches at all EOCs (Redundant at SEOC and DEOCs and standalone at TEOCs)	3 Lots	SEOC, DEOC AND TEOC
I.3	Redundant DG Set 100 KVA (2) with Platform base	2	<b>SEOC</b>
I.4	UPS-20 KVA at SEOC (2 in Hot standby configuration)	2	
I.5	POWER Cabling	1	
I.6	UPS 10 KVA ( 1 per District)	15	<b>DEOC</b>
I.7	DG SET-30 KVA ( 1 per District)	15	
I.8	Power Cabling ( 1 per District)	15	
I.9	UPS 5 KVA (one per Taluka)	26	<b>TEOC</b>
I.10	DG SET-15 KVA (one per Taluka)	26	
I.11	Power Cabling (one per Taluka)	26	

## 2. System Inventory Table (Recurrent Cost Items)

System Inventory Table (Recurrent Cost Items) from Year- 1 to Year- 5. (Year – 1 and Year -2 are for O&M period and year 3-5 are for AMC).

Component
1. ICT Equipment including EWDS
AMC for IT equipment at all EOCs
AMC for EWDS equipment at 284 sites
AMC for office equipment at all EOCS
2. Internet bandwidth
SEOC- 10 Mbps and 20 Mbps dedication Internet Charges per Year
DEOC- 2 Mbps and 4 Mbps dedicated Internet - Charges per Year
TEOC- 1 Mbps and 2 Mbps dedicated Internet Charges per Year
3. Handheld Phones
WPC License & Royalty fee for all ISAT-2 phones
SEOC- Yearly subscription and utilization charges for 4 unit of ISAT-2
DEOC- Yearly subscription and utilization charges for 30 units ISAT-2
TEOC- Yearly subscription and utilization charges for 26 units of ISAT-2

4. VSAT Network
Annual Satellite bandwidth charges for 3.0 Mbps data rate
AMC for 326 VSATs
Annual lease rental for 2.0 Mbps data link between SEOC and VSAT hub
5. Back-up power generators
SEOC- Diesel Charges for DG set operating average 30 hours/month
DEOC- Diesel Charges for DG set 30 hours / month
TEOC- Diesel Charges for DG set for operating 60 hours / month (30 days x 1 month= 480 Litters per month x 20 Talukas)
ALL EOCs- AMC for mains voltage stabilizers
ALL EOCs- AMC for all UPS equipment
6. SET TOP BOX
SEOC- Yearly connection charges for News feed (4- No of news channels selected by GSDMA)
DEOC- Yearly connection charges for News feed (1no x 15 Districts)
TEOC- Yearly connection charges for News feed (1no x 26 number of Talukas)
7. APPLICATION SOFTWARE
SEOC- AMC for ICT equipment
SEOC- AMC for Alert and warning system
SEOC- AMC for Group based Message
SEOC- AMC for NMS
8. Consumable materials and Hardware Maintenance
Paper, ink cartridges, lamps and tube lights etc. painting of towers etc. as per requirement
9. All EOCs and EWDS towers and poles
Estimated Annual expenses
10. Any other expenses felt necessary by bidder