

Amendment Notice

Subject:- Post pre bid conference amendments made in e. tender No 02 of 2015 dated 14.01.2015 floated by this hqrs for procurement of Digital Trunking System

Pursuant to the queries raised by the intending firms in the pre bid conference held in PHQ conference hall on 5.2.2015 following amendments are made in the e. tender notice No 2 of 2015 dated 14.1.2015 floated by this hqrs for procurement of digital trunking system:-

1. Date for submission of the bids:- 7.3.2015 upto 1600 hours
2. Date for on line opening of bids:- 9.3.2015, 1100 hours.

S.No	Query raised	Tender clause	Clarifications
1	Delivery period may be stipulated 60 days instead of 45 days	Clause 7(iii) of the tender provide delivery period of 45 days after issuance of supply order	60 days delivery period is allowed instead of 45 days.
2	EMD should be fixed instead of 2 % of the value of quoted items and it may be accepted in shape of bank guarantee also	Clause 6 of the tender notice provide EMD of Rs 5000/- for SSI Units of J&K State only and for others 2 % of the value of the quoted items .The MD is supposed to furnish in shape of CDR/FDR pledged to AIG P&T PHQ	EMD @ 2% value of the stores to be supplied would remain unchanged . EMD can however, be accepted in shape of bank guarantee also but authenticity of the EMD will be verified by the PHQ. The EMD should be pledged to AIG P&T PHQ J&K.
3	80 % payment may be allowed at the time of delivery of material and 20 % after installation /commissioning of the system	Clause 7 (vii) of the tender provides that payment will released only after survey, installation and commissioning of system	Change in the payment clause not considered.
4	Firms insisted that in order to have better competition, original OEM can issue authorization to different distributors /resells in case OEM is not quoting itself as	Serial I of the appendix -II provides "that I (bidder) hereby state that I am not connected an any manner with any other bidder in this	There will be no change in the tender clauses and appendix I & II.

	has been allowed by the DGS&D also. They requested to drop appendix-II and point No 2 of appendix -I.	tender with respect to manufacturing, distribution, supply, in sharing business information/documents and price of the items etc. quoted in this bid". Point No 2 of the appendix I provides that we confirm that no supplier or firm or individual other than M/s _____ (Name & address of the dealer) is authorized to submit tender, process the same further and enter into contract with you against your requirement as contained in the above referred tender enquiry documents for the above said goods manufactured by us"	
5	Sample test report of the international test laboratories may also be accepted.	Clasue 15(vi) of the tender notice provide that wherever applicable test report of the samples regarding composition, ingredient ,strength, texture etc. in terms of BIS/IND & other standard mentioned in the tender documents from BIS/NABL accredited Labs	Samples of Digital trunking system have not been asked

Clarifications about specifications etc:-

S.No of the NIT

Clarifications

- 6 **Digital voice and Encrypted Digital Voice transmission :-**
The proposed system should be capable of supporting Digital voice and data. The proposed system shall also support Encrypted Digital voice call with the following features.
- 7 i) Radios equipped with secure capability can have the option to communicate in either the clear mode or encrypted.
- 8 ii) End-to-end encrypted radio communication between two or more radios must be ensured. This means that for a call involving two or more repeater sites, the voice signal remains in its encrypted form both over the air as well as the link (microwave or optic fiber or wire line) connecting the sites.

1) Frequency Range 851-870 MHz Band

175 Dispatch console equipments to be capable of having communication with the subscriber radios under their respective jurisdictions and control/coordinate their activities

191 The Dispatch console with latest Personal Computer (PC) with 18.5" LED Monitor.

197 **P- 25, 25 watts or more Phase-II F-TDMA trunking mobile Radio with unity gain whip antenna complete with all accessories and AES encryption.**

All Mobile Radios should have

- 1) Whip unity gain mobile antenna with installation clamp standard co-axial cable fitted with standard connectors.
- 2) Full alphanumeric keypad
- 3) Microphone
- 4) Internal / External speaker.
- 5) Battery cable
- 6) Vehicle operation mounting brackets & installation.

201 **General**

- 1) Supply Voltage : 12 V DC Nominal
- 2) Frequency Generation : Synthesize
- 3) Modulation : APCO 25 Phase-II F-TDMA Standard
- 4) Temperature Range : -30°C to 60°C

Transmitter

1. Frequency : (851 - 870 MHz) Band
2. RF Power : 25 W. Programmable power control
3. Channel Spacing : 12.5 KHz for APCO 25 (12.5 or 25 KHz selectable for conventional operation
4. Frequency Stability: ± 1.5 PPM or better at -300C to 600 C
5. Output Impedence - 50 Ohms
6. Audio Distortion - < 3% at 1 KHz, at 3 KHz deviation (clear mode)

203 **Receiver**

1. Frequency : (806 - 824MHz)
2. Sensitivity : - -116 dBm at 5% BER or better
3. Frequency Stability: ± 1.5 PPM or better at -30°C to 60°C
4. Channel spacing - 12.5 KHz for APCO 25 Phase II F-TDMA and 12.5/25 KHz for conventional, if provided.
5. Adjacent Channel Rejection Selectivity : 60 dB or better
6. Spurious and Image: better than 75 dB
7. Audio output : 3 Watt
8. Audio Distortion : Less than 3% at 1 KHz in conventional mode, if provided.

206 **P- APCO 25 watts or more Phase-II F-TDMA trunking Desktop Radios with 3dB gain antenna complete with all accessories and AES encryption**

All Desk top Radios should have

- 1) Minimum 3dB or high gain Omni directional GP Antenna with installation clamp, 30 meters UHF LDF RF cable fitted with standard connectors at its ends.
- 2) Full alphanumeric keypad
- 3) Microphone
- 4) Internal / External speaker.
- 5) Battery cable

210

General

- 1) Supply Voltage : 12 V DC Nominal
- 2) Frequency Generation : Synthesize
- 3) Modulation : APCO 25 Phase-II F-TDMA Standard
- 4) Temperature Range : -30°C to 60°C

Transmitter

- 1. Frequency : (851 - 870 MHz) Band
- 2. RF Power : 25 W. Programmable power control
- 3. Channel Spacing : 12.5 KHz for APCO 25 (12.5 or 25 KHz selectable for conventional operation
- 4. Frequency Stability: ± 1.5 PPM or better at -300C to 600 C
- 5. Output Impedence - 50 Ohms
- 6. Audio Distortion - < 3% at 1 KHz, at 3 KHz deviation (clear mode)

212

Receiver

- 1. Frequency : (806- 824MHz)
 - 2. Sensitivity : - -116 dBm at 5% BER or better
 - 3. Frequency Stability: ± 1.5 PPM or better at -30°C to 60°C
 - 4. Channel spacing - 12.5 KHz for APCO 25 Phase II F-TDMA and 12.5/25 KHz for conventional, if provided.
 - 5. Adjacent Channel Rejection Selectivity : 60 dB or better
 - 6. Spurious and Image: better than 75 dB
 - 7. Audio output : 3 Watt
 - 8. Audio Distortion : Less than 3% at 1 KHz in conventional mode, if provided.
- Trunk Talk Groups ---100 Talk groups
 Conventional / Talk around (if provided) ---25 Talk groups
 Dynamic Regrouping ---10 Talk groups

214

P- APCO 03 watts or more Phase-II F-TDMA trunking portable Radios with antennas, Li-ion batteries 1800 MAh, Belt clip and Desktop chargers with one spare battery pack with AES encryption.

All Hand Held Portable Radios should have

- 1) Suitable Helical Antenna.
- 2) Full alphanumeric keypad.
- 3) Two No's of Li-ion batteries. 1800 MAH or more
- 4) Compatible Rapid battery chargers for 230 Volt AC operations.
- 5) Carrying Case / Belt Clip.

218

General

- 1) Supply Voltage : Bidder to specify
- 2) Frequency Generation : Synthesize
- 3) Modulation : APCO 25 Phase-II F-TDMA Standard
- 4) Temperature Range : -30°C to 60°C

Transmitter

- 1) Frequency : (851 - 870 MHz) Band
- 2) RF Power : 3 W. Programmable power control
- 3) Channel Spacing : 12.5 KHz for APCO 25 (12.5 or 25 KHz selectable For conventional operation
- 4) Frequency Stability: ± 1.5 PPM or better at -30°C to 60°C

- 5) Output Impedence - 50 Ohms
 6) Audio Distortion - < 3% at 1 KHz, at 3 KHz deviation (clear mode)

- 219 **Receiver**
 1. Frequency : (806 - 824 MHz) Band
 2. Sensitivity : -116 dBm at 5% BER or better
 3. Frequency Stability: ± 1.5 PPM or better at -300C to 600 C
 4. Channel spacing - 12.5 KHz for APCO 25 Phase II F-TDMA and 12.5/25 KHz for conventional, if provided.
 5. Adjacent Channel Rejection Selectivity 60 dB or better
 6. Spurious and Image: better than 75 dB
 7. Audio output 500 milli watt
 8. Audio Distortion - Less than 3% at 1 KHz in conventional mode, if Provided.

- 220 **Battery Type and Capacity -** 2 No's of Li-ion batteries 1800 mAh, or more

222 **Features**

25. Port for External Speaker and Data Communication, radio programming.

224 .Deleted

228 **Warranty & AMC:-**

Three year on site comprehensive warranty for all equipments followed by cost of 05 years comprehensive AMC of complete package to make trunking system functional 24x7x365 and to achieve the optimum use of the system shall be provided. The warranty period will begin from the date of acceptance test.

Comprehensive Warranty period of consumable items such as Batteries, of Digital APCO Hand held Radios and UPS provided with system is also required for 18 months followed by the cost of these batteries in comprehensive AMC for the remaining period i.e. (six years & six months).

231-32 **TRAINING:-**

The Bidder shall provide training Programs for the purchaser's technical personnel, technicians and system users.

Part I :-

In first part J&K Police will depute its 05 technical personnel for technical training at the works of the manufacturer's factory premises for the period of 15 days and all the expenses including fare, lodging and boarding shall be borne by the supplier.

Part II :-

In second part the supplier shall provide 15 days technical training to the 25 technical personnel of J&K Police at the premises of Purchaser's Master site (Jammu) on no extra cost. The training part should cover the following aspects. (i) Description of all functional assemblies of the system, including controls, indicators and monitoring system. Line up procedures for the system and adjustment of operating parameters and other operation in keeping with features provided ,maintenance procedures, fault diagnostics procedures, over the air programming and over the air rekeying etc.

Part III :- User Operational Training:-

(a) In third part the supplier shall provide 10 days operational training to the 25 technical personnel of J&K Police at the user's location both at Jammu / Srinagar respectively on no extra cost.

(b) The technical personnel and operators shall be taught the functionality features of each equipment in the system and to identify common hardware failure.

- 5) Output Impedence - 50 Ohms
 6) Audio Distortion - < 3% at 1 KHz, at 3 KHz deviation (clear mode)

- 219 **Receiver**
 1. Frequency : (806 - 824 MHz) Band
 2. Sensitivity : -116 dBm at 5% BER or better
 3. Frequency Stability: ± 1.5 PPM or better at -300C to 600 C
 4. Channel spacing - 12.5 KHz for APCO 25 Phase II F-TDMA and 12.5/25 KHz for conventional, if provided.
 5. Adjacent Channel Rejection Selectivity 60 dB or better
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 7. Audio output 500 milli watt
 8. Audio Distortion - Less than 3% at 1 KHz in conventional mode, if Provided.

220 **Battery Type and Capacity -** 2 No's of Li-ion batteries 1800 mAh, or more

222 **Features**

25. Port for External Speaker and Data Communication, radio programming.

224 .Deleted

228 **Warranty & AMC:-**

Three year on site comprehensive warranty for all equipments followed by cost of 05 years comprehensive AMC of complete package to make trunking system functional 24x7x365 and to achieve the optimum use of the system shall be provided. The warranty period will begin from the date of acceptance test.

Comprehensive Warranty period of consumable items such as Batteries, of Digital APCO Hand held Radios and UPS provided with system is also required for 18 months followed by the cost of these batteries in comprehensive AMC for the remaining period i.e. (six years & six months).

231-32 **TRAINING:-**

The Bidder shall provide training Programs for the purchaser's technical personnel, technicians and system users.

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Part III :- User Operational Training:-

(a) In third part the supplier shall provide 10 days operational training to the 25 technical personnel of J&K Police at the user's location both at Jammu / Srinagar respectively on no extra cost.

(b) The technical personnel and operators shall be taught the functionality features of each equipment in the system and to identify common hardware failure.

- c) All operators shall be taught the functionality features of the various types of transceivers & functioning and operation.
- 233 **Technical Support/ Services Centre:-**
Supplier should establish Services centre with availability of all cards/parts in both capital cities of J&K with competent Services Engineers at Police control Room Jammu and Srinagar round the clock i.e. (24x7x365) during the comprehensive warranty period followed by comprehensive AMC.
- 235 & 236 Essential requirement.
- 237 & 238 Optional items.
- 244 Storing capacity: minimum 22 channels for 30 days.
- 245 **The proposed system should support following types of call recording facilities for all talk groups of the proposed system:-**
1. Group Call recording.
 2. Dispatch console recording.
 3. Individual call recording.
- 257- 273 Deleted
- 276 Deleted
- 277 **Warranty & AMC:-**
Three year on site comprehensive warranty for all equipments followed by cost of 05 years comprehensive AMC of complete package to make trunking system functional 24x7x365 and to achieve the optimum use of the system shall be provided. The warranty period will begin from the date of acceptance test.
Comprehensive Warranty period of consumable items such as Batteries, of Digital APCO Hand held Radios and UPS provided with system is also required for 18 months followed by the cost these batteries in comprehensive AMC for the remaining period i.e. (six years & six months).
- 284 Deleted
- 285 The successful bidder has to obtain necessary licenses for frequency spots from WPC & DOT to be used in trunking system for J&K Police. The royalties and licesened fee charges what so ever, will be paid by purchaser.

Clarifications and amendments in BOQ of RADIO TRUNKING System

S/No	Infrastructure	Quantity
1	Full Digital P-25 Phase 2 nd FTDMA Radio Trunking Switch in 800 MHz with Redundant (F-TDMA) Zone Controller, Network Switching, Packet Data, Network Management System & AES end to end encryption Loader with 100% redundancy complete with all accessories.	1
2	5-Channel P-25 phase 2 nd FTDMA Trunked Based Station Programable 100 Watt with Site redundancy. 2 Antennae, 150M RF Cable , Tower Top Amplifier , Couplers , Combiners complete with all other related Accessories with UPS system	2
3	AES (Advance Encryption Standard) encrypted Dispatcher Console complete with all accessories	1
4	AES (Advance Encryption Standard) encrypted Dispatcher Console with backup Dispatch console consisting of conventional network gateway complete with all accessories	1

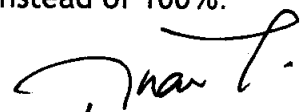
Subscribers

5	P -25 , 25 watts or more Phase -2 nd (F-TDMA) Trunking Mobile Radio Digital Open Standard with AES Encryption, unity gain whip antenna complete with all accessories & AES Encryption	50
6	P -25 , 25 watts or more Phase 2 nd (F-TDMA) Trunking Static/Desktop Radios Digital Open Standard, 03 db gain OD GP antenna , 30M RF LDF Cable, Speaker, Desk Microphone , Power supply unit & AES encryption complete with all accessories.	25
7	P-25 , 03 watt or more Phase 2 nd (F-TDMA) Trunking Portable radios with Helical antenna , Li-on batteries 1800 mAh or more, belt clip ,desktop charge & AES encryption complete with all accessories. Spare battery pack for P-25 , 03 watt or more Phase 2 nd (F-TDMA) Trunking Portable radios Li-ion 1800 mAh or more	100 100
8	Tower height as per requirement	2
9	Radio Programming software & Hardware Kit with Laptop	2
10	Over the Air programming kit (OTAP)	2
11	AES key loader kit for P-25 phase 2 nd FTDMA portable & Mobile Radios.	2
12	Conventional network Gateway	01
13	compressive warranty for Complete proposed system	for 03 years
14	compressive AMC for Complete system after expiry of warranty period.	five years
Optional		
16	Over the Air Rekeying (OTAR) Hardware and software.	01
17	Microwave link between repeater and master site if required.	As per requirement

Clarifications and amendments

Under heading “Other essentials of the Project APCO 25”

- Source code not required however company should provide Technical / Services manuals in original for proper maintenance and repairs of equipment.
- Compressive warranty three years followed by compressive 5 years.
- Coverage area of 90% or more in the Capital cities of the State with PCR Jammu & Srinagar as instillation sites instead of 100%.



(AIG Provision/Transport)
For Director General of Police,
J&K-Jammu

Dated: 25.02.2015

No: Prov-II/WPR- 07/2012-13/

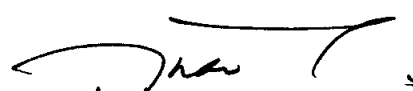
Copy to the:-


1. Principal Secretary to Govt. Home Department J&K Jammu
2. All ADsGP J&K

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25-2-2015

3. All IsGP J&K
.... for favour of information.
4. Director Information J&K Jammu alongwith copy of the amendment with the request of arranging publication of Gist of the e.tender in National Dailies viz, The Hindu, Decan Herald, Hindustan Times, Indian Express and in local newspapers i.e., Greater Kashmir in Srinagar and Excelsior in Jammu and Tender Journals etc. for wide publicity. The payment for publication in National Dailies shall be made by the PHQ against verified bills.
5. DIG CKR Srinagar/DIG Jammu-Kathua & Samba Range Jammu.
6. Director Police Telecom J&K Jammu for information.
7. Director Industries Jammu/Srinagar for information.
8. Manager Government Press Srinagar / Jammu for publication of the e.tender in Govt Gazette.
9. SSP J&K CID Cell, 11 Harish Chander Mathur Lane Kasturba Gandhi Marg New Delhi-110001 alongwith 05 copies of the tender for information and distribution among intending firms.
10. PRO to DGP J&K Jammu alongwith 02 copies of the amendment of the e.tender for publication purpose. He will personally liaise with Directorate Information for the publication of the e.tender Gist immediately and make available the newspaper in which NIT is published to AIG (Prov/Tpt) PHQ J&K for record and reference.
11. In-Charge Police Central Store Gulshan Ground Jammu/ Zewan Srinagar for information.
12. In-Charge IT Centre PHQ/In-Charge e-tendering PHQ for placing the e-tender on the website of J&K Police and J&K Govt. Portal.


(AIG/Provision/Transport)
For Director General of Police,
J&K Jammu.


25.2.2015