

## Specification of RoIP Gateways

### Equipment shall be with following minimum features:-

1	The radio communication Integration system should interface with any combination of two way radios (Conventional Airband, VHF, UHF, Digital) & IP Networking while allowing min 4 multiple simultaneous two-way conversations between sites.
2	Unit should have minimum: 4 –radio ports, 1- Telephone port, 1- LAN, 1-WAN, 2- USB ports, RESET key, LED activity indications(TX/RX).
3	Capable to work with IP Based EPABX and allow interconnectivity radio and EPABX/IP phones. Equipment should compatible with SIP server for IP phones application.
4.	Able to work as Repeater function & transmit on other 3 network while receive from one network (Crossbanding function).
5	Able to connect VHF to UHF and vice versa, VHF/UHF to HF/Airband and vice versa.
6	Able to interface with Hand held, Base and Repeater as required by user. Able to connect Point to Point & Point to Multi point radio Networks.
7	Capability to operate on Selective mode. Telephone (Mobile/Basic phone) can make selective Call to radios.
8	DTMF, 5-Tone, MDC1200, NMEA, AVL5 should pass through the IP network for radio features compatibility.
9	SNMP & SYSLOG should be available in the Equipment.
10	Capable priority calling for various ports.
11	Equipment should support to transfer of data from field to control radio for AVL5 monitoring purpose.
12	Interface Unit & Radio manufacture should be from same to ensure optimisation of the audio quality over IP. Source of manufacture & Model no. should be indicated by bidder in offer.
13	The supplied VHF H/B Radio should have RF output of 40W. The radio should be capable of the following features, LCD Display with 24 character, RSSI display in dBm, Accessory Port Connectors with dummy matched cable in wired connectors (4 set cables each in 1 RoIP router).
14	The equipment should be from reputed global radio manufacturer to ascertain to perfect match of Radio parameters of existing radio networks & telephone for prolong operation 7 reliability. Required Radio of Programming kit with software should be supplied along with.
15	Shall operate on 230V±10%, 50 Hz or 12 VDC (Suitable adaptor shall be provided if not build-in).
16	Date Backup/restore facility for quick programming & firmware upgradation via USB port