

# **BANGLADESH TELECOMMUNICATION REGULATORY COMMISSION**

## **Instructions for the usage of Satellite Phone in Bangladesh**

### **1. INTRODUCTION**

1.1. In pursuant to its powers of the Bangladesh Telecommunication Regulation Act, 2001 (as amended), the regulatory and operational instructions for the usage of satellite phone in Bangladesh are being issued by the Bangladesh Telecommunication Regulatory Commission ('Commission' or 'BTRC').

1.2. With the rapid development of telecommunication technology the use of satellite phone has become versatile. The necessity of satellite phone has increased in many folds due to the various national requirements like natural calamity, search and rescue operation and operational requirement of the armed forces division. Moreover, to ensure national security these instructions are immensely needed.

1.3. The satellite phones which are permitted for disaster relief operations in Bangladesh shall be in accordance with the relevant ITU-R resolutions including ITU-R 53 and 55 (Radio Assembly Geneva-2007) and WRC Resolution 644 (Rev. WRC-07), Resolution 646 (WRC-03), and Resolution 647 (WRC-07).

### **2. OBJECTIVES**

These instructions have been formulated with a view to prepare operational and regulatory framework for the usage of satellite phone in Bangladesh.

2.1 To provide the backup emergency telecommunication system in case of the unavailability of terrestrial network or network infrastructure is damaged after the disaster and in case of mobile or PSTN is overloaded.

2.2 To introduce the services those require for the emergency Governmental purposes on national security issues.

2.3 To administrate the uses of satellite phones in aviation and maritime purposes.

2.4 To facilitate the international organizations about the regulation on satellite phone for importing, operating and exporting issue.

### **3. LEGAL ISSUES**

3.1 These Instructions should be read in conjunction with other Acts, subsequent legislation on other prevalent laws or sector policies framed by the Government, rules, regulations, decrees, orders, decisions, Instructions, directives and other document of general application issued by the Government or the Commission from time to time.

3.2 These Instructions may be withdrawn, revised, updated or amended by the Commission from time to time to take into consideration various factors including but not limited to imminent threat to public health, grave natural calamity and national security and statutory or court orders to accommodate the technological development and spectrum harmonization globally as per recommendation by ITU.

### **4. ELIGIBILITY**

4.1 No entity except the followings shall be eligible to use the satellite phone:

- a) The Government entities relating to national security, disaster management and research purposes with prior permission of the Commission through the concerned Ministry.
- b) Embassies/ High Commissions/ Mission Offices including international organizations involved in development activities with prior permission of the Commission through the Ministry of Foreign Affairs.
- c) Any Bangladeshi flag holding carriers (aeronautical and maritime) operating beyond Bangladesh territory, having permission of the Commission.

4.2 Whatever is written in the preceding paragraph, the Commission may permit any other entity to use satellite phone considering their requirement.

### **5. INTEROPERABILITY**

The satellite phone shall have to have the capability to communicate with local administration, public organizations such as police, fire and medical, the local military, international disaster organizations.

### **6. MOBILITY**

The satellite phone shall have to have the mobility allowing the user to roam from one network to another regardless of technologies, i.e., LMR (Land Mobile Radio) narrow band network, satellite network, terrestrial network (including PSTN and PLMN) and WLAN network.

## **7. TYPES OF NETWORK**

The satellite phone shall have to have the provision of SIM/RUIM card and shall be connected to the terrestrial PLMN and PSTN operators directly in case of availability of terrestrial coverage.

## **8. STAKEHOLDERS AND THEIR RESPONSIBILITIES**

The stakeholders and their responsibilities are considered for the Satellite Phone purpose as follows:

### **8.1 Satellite Phone User**

- 8.1.1 The user of satellite phone shall be responsible for its usage (use/misuse) and to ensure its security.
- 8.1.2 The applicant will fill up a prescribed application form (Annex-1/Annex-2) and submit it to BTRC.
- 8.1.3 The applicant shall collect and submit an undertaking from the Satellite Phone Service Provider to BTRC. (Sample of undertaking given as Annex-3)
- 8.1.4 The applicant is responsible for obtaining No Objection Certificate (NOC) from the concerned Ministry.
- 8.1.5 For dual mode satellite phone, having the features of both GSM/CDMA and satellite band the applicant shall submit the Equipment Identity number before importing the device.

### **8.2 Satellite Phone Service Provider**

The Satellite Service Provider(s) shall submit an undertaking (Annex-3) in its letterhead pad containing the averments on the following responsibilities:

- 8.2.1 To provide the information as and when required by BTRC and LEA.
- 8.2.2 To preserve all required information of the user.
- 8.2.3 To save the Call Details Record (CDR) for voice call, SMS details and the log of internet usages of each user for at least six months. The following fields will be incorporated in the CDR:
  - a) A Party Number: Originator
  - b) B Party Number: Terminator
  - c) Date and Time of the Calls
  - d) Duration of the Calls
  - e) The communication type (Voice/Fax/Data)
  - f) International Mobile Subscriber Identity (IMSI)
  - g) Temporary Mobile Subscriber Identity (TMSI)

- h) International Mobile Equipment Identity (IMEI)
- i) GPS Time Stamps- Time difference between two GPS signals.
- j) The types of MES (Mobile Earth Station)
- k) Closed User Group numbers
- l) The type of the terminal (Fixed/mobile)
- m) Location of the Satellite Phone (Latitude-longitude)

8.2.4 To inform BTRC with user details whenever a new subscriber initiates communication by using its frequency in Bangladeshi territory.

8.2.5 To assist Law Enforcing Agencies and BTRC to establish "Lawful Interception" platform.

8.2.6 To comply with the regulation formulated by the Government/Commission regarding the Satellite Phone instructions.

### **8.3 Law Enforcing Agencies**

8.3.1 Only the designated official from the agencies will correspond with the Satellite Phone Service Provider(s) by using their authenticated contact details.

8.3.2 The agencies will inform BTRC after barring the satellite phone in either temporary or permanent basis.

8.3.3 The agencies will maintain top secrecy for keeping the user's information and treat the information as highly confidential.

8.3.4 The agencies will update the satellite phone database by collecting it from NMC (National Monitoring Center). After receiving necessary information, the agencies will update BTRC at regular intervals.

### **8.4 Bangladesh Telecommunication Regulatory Commission (BTRC).**

8.4.1 Subject to the fulfillment of the above conditions, BTRC will issue the Satellite Phone approval for the special case in emergency basis in the following area:

- a) For the security purpose of the visiting foreign delegates.
- b) For security purpose of the visiting international VVIPs.
- c) For Humanitarian Assistance/ Disaster Recovery purpose.

8.4.2 BTRC will incorporate necessary terms and conditions in the permission letter to approve the use of Satellite Phone. The generality of this Clause includes the followings:

- a) The permitted satellite phone shall not be transferable in any condition.

- b) It is the responsibilities of the user to maintain a log of each call, SMS and data communication record. The designated agencies can inspect the user's premises without prior notice and the user shall be bound to co-operate them.
- c) BTRC may cancel the permission to use the satellite phone for the sake of national interest.
- d) In case of establishing emergency disaster recovery communication, the user/organization shall fill-up a form at the time of arrival but they shall submit all the other required documents at the time of re-exporting of the satellite phone.
- e) NOC is to be acquired from BTRC for custom clearance purpose.

## **9 Conclusion**

These instructions for using the satellite phone will make the stakeholders understand about their responsibilities and it is obvious that by complying with the terms a transparent environment is ensured for all the parties.

## DEFINITIONS AND INTERPRETATIONS

1. **Land Mobile Radio System (LMRS)** is a term that denotes a wireless communications system(s) intended for use by terrestrial users in vehicles (mobiles) or on foot (portables). Such systems are used by emergency first responder organizations, public works organizations, or companies with large vehicle fleets or numerous field staff. Such a system can be independent, but often can be connected to other fixed systems such as the public switched telephone network (PSTN) or cellular networks.
2. **Wireless Local Area Network (WLAN)** links two or more devices using some wireless distribution method (typically spread-spectrum or OFDM radio), and usually providing a connection through an access point to the wider internet. This gives users the mobility to move around within a local coverage area and still be connected to the network. Most modern WLANs are based on IEEE 802.11 standards, marketed under the Wi-Fi brand name.
3. **Mobile Satellite Services**, referring to services to portable or mobile devices from satellite. It includes broadband data and voice services in the world's remotest locations, using the latest hi-tech satellite communications equipment available.
4. **An International Mobile Subscriber Identity or IMSI** is a unique identification associated with all GSM and UMTS network mobile phone users. It is stored as a 64 bit field in the SIM inside the phone and is sent by the phone to the network.
5. **The Temporary Mobile Subscriber Identity (TMSI)** is the identity that is most commonly sent between the mobile and the network. TMSI is randomly assigned by the VLR to every mobile in the area, the moment it is switched on. The number is local to a location area, and so it has to be updated each time the mobile moves to a new geographical area.
6. **The International Mobile Equipment Identity or IMEI** is a number, usually unique, to identify GSM and WCDMA mobile phones, as well as some satellite phones. It is usually found printed inside the battery compartment of the phone. It can also be displayed on the screen of the phone by entering **\*#06#** into the keypad on most phones.
7. **Closed User Groups** are groups of GSM mobile telephone subscribers who can only make calls and receive calls from members within the group. Any other calls would be rejected. This service is NOT applicable to Short Messaging Service (SMS).
8. **Mobile Earth Station (MES)**, an earth station intended to be used while in motion or at halts at unspecified points.

# Bangladesh Telecommunication Regulatory Commission (BTRC)

## Application Form for Using Satellite Phone

Photograph  
(Attested by  
concerned  
Ministry)

### Individual:

1. Name: .....
2. Father's Name: .....
3. Mother's Name: .....
4. Date of Birth: .....
5. Present Address: .....
6. Permanent Address: .....
7. Nationality: ..... 8. National ID: .....
9. Passport No. ....
  - a. Place of Issue: ..... b. Date of Issue: ..... c. Date of Expiry: .....
10. E-mail Address:
  - a. Official: .....
  - b. Personal: .....
11. URL (if any): .....
12. Mobile Phone No. ....
13. Fax No. (if any): .....
14. Purpose of Use: .....
15. Letter of Recommendation/Permission from Concerned Ministry: Attached/Not Attached
16. a. Equipment Information:

Sl No	Class of Station	Satellite Phone Service Provider's Details	Type/Model of Satellite Phone	Frequency Range		Duration Utilization		Remarks
				From	To	From	To	

- b. IMEI Details: .....
- c. Satellite Phone CLI: .....

**Declaration and Undertaking:** I declare that I have perused and understood correctly and unequivocally each and all the terms and conditions of “Instructions for usage of Satellite Phone in Bangladesh” issued by BTRC, and as such I am well conversant with the requirements of BTRC. I undertake that I shall perform according to the said terms and conditions with due diligence, willingly, consciously and shall never do anything contrary to the national interest and/or any of the provisions of the aforementioned instructions and the No Objection Certificate (NOC) issued by BTRC. I further declare that all information mentioned in this application are true and correct to best of my knowledge and belief. In case of any information is proved as false, fabricated, concocted or of ulterior motive, I shall bear all responsibilities therefor and shall also be bound to return the wireless equipment as well as shall comply with the decision of BTRC and shall not raise any claim or objection thereto to any court, authority, organization or any other person whosoever . If I ever make any such claim or objection, no claim or objection shall have any legal effect and each of such claims and/or objection shall be liable to be rejected.

**Signature of the applicant with date**

[Note: In case of any change, the appropriate authority must inform BTRC.]



## Bangladesh Telecommunication Regulatory Commission (BTRC)

### Application Form for Using Satellite Phone

Photograph  
(Attested by  
concerned  
Ministry)

1. Organization/Company Name: .....
2. User Name and Designation: .....
3. Address of the Organization/Company: .....
4. Name of Contact Person: ..... Designation: .....
- Mobile: ..... Telephone: ..... Fax: ..... E-mail: .....
5. Nationality: ..... National ID No: .....
6. Passport No: ..... Date of Issue: ..... Date of Expiry: .....
7. Name and Address of Local Agent/Representative/Organization: .....
- .....
8. Purpose of Use: .....
9. Letter of Recommendation/Permission from Concerned Ministry: Attached/Not Attached
10. Satellite Phone number:
11. a. Equipment Information:

Sl No	Class of Station	Satellite Phone Service Provider's Details	Type/Model of Satellite Phone	Frequency Range		Duration Utilization		Remarks
				From	To	From	To	

- b. IMEI Details: .....
- c. Satellite Phone CLI: .....

**Declaration and Undertaking:** We declare that we have perused and understood correctly and unequivocally each and all the terms and conditions of “Instruction for usage of Satellite Phone in Bangladesh” issued by BTRC, and as such we are well conversant with the requirements of BTRC. We undertake that we shall perform according to the said terms and conditions with due diligence, willingly, consciously and shall never do anything contrary to the national interest and/or any of the provisions of the aforementioned instructions and the No Objection Certificate (NOC) issued by BTRC. We further declare that all information mentioned in this application are true and correct to best of my knowledge and belief. In case of any information is proved as false, fabricated, concocted or of ulterior motive, we shall bear all responsibilities therefor and shall also be bound to return the wireless equipment as well as shall comply with the decision of BTRC and shall not raise any claim or objection thereto to any court, authority,

organization or any other person whosoever . If we ever make any such claim or objection, no claim or objection shall have any legal effect and each of such claims and/or objection shall be liable to be rejected.

**Signature of the applicant with seal & date**

[Note: In case of any change, the appropriate authority must inform BTRC.]

# (Satellite Phone Service Provider's Letter Head Pad)

## LETTER OF UNDERTAKING

We, .....(Name and Address of Satellite Phone Service Provider represented by its MD/CEO)..... do hereby declare and undertake that:

1. All information of existing and new user of our satellite phone within the territory of Bangladesh shall be informed to BTRC as and when required.
  
2. The CDR containing the following fields shall be provided to Law Enforcing Agencies and BTRC as and when required within 24 hours if required through email.
  - a) A Party (Originator) Number:
  - b) B Party (Terminator) Number:
  - c) Date and Time of Calls
  - d) Duration of Calls
  - e) The communication type (Voice/Fax/Data)
  - f) International Mobile Subscriber Identity (IMSI)
  - g) Temporary Mobile Subscriber Identity (TMSI)
  - h) International Mobile Equipment Identity (IMEI)
  - i) GPS Time Stamps- Time difference between two GPS signal.
  - j) The types of MES (Mobile Earth Station)
  - k) Closed User Group numbers
  - l) The type of the terminal (Fixed/ Mobile)
  - m) Location of the Satellite Phone (Latitude-longitude)

We further undertake that for any non-compliance, we shall accept any decision of the Government of Bangladesh as per the laws of Bangladesh. Any dispute in this regard shall also be resolved as per the Laws of Bangladesh.

(Signature with date)

Name, Designation and Seal of authorized Person  
of Satellite Phone Service Provider