Bangladesh Standard
Specification for Mobile Phone Bangla Keypad

0. Foreword

0.1   This Bangladesh Standard was adopted by the Bangladesh Standards and Testing Institution on 15-02-2011 after the recommendation by the Committee on standardization of Bangla for use in ICT and had been approved by the Electrical and Electronics Divisional Committee on standardization of Bangla for use in ICT of Ministry of Science and Information & Communication Technology formulated the standard for Mobile Phone Bangla Keypad with technical assistant of Access to Information (A21) programme of Prime Minister's Office.

0.2   Mobile Telecom sector has shown a rapid growth since 1997. In recent times mobile penetration in the country has exceeded all expectation with over 65.5 million subscribers as of October 2010. Recent studies on telecom sector of Bangladesh suggested that the number of mobile phone subscriber may cross 100 million by 2013.

0.3   The fast spreading mobile network has made mobile phones the most popular means for communication for the mass people in the country. As a result, mobile network has become the primary choice for service delivery. Already, the Government made a number of mobile based services available such as PURJI for sugarcane farmers, admission procedure for educational institutes, result publishing of different examinations, railway ticket reservation etc. However, it is recognized that for optimum use of this platform, the language of the mobile phones should be localized. In view of that, the standard for mobile phone Bangla keypad is approved by Bangladesh Standards and Testing Institution (BSTI).

0.4   This standard incorporates Bangla alphabets, numbers, signs and symbols in a mobile phone in scientific manner to facilitate use of Bangla in all ICT applications in mobile phones.

1. SCOPE:

   1.1 The standard defines layouts for input of Bangla characters, signs, symbols and currency marks using industry standard 3 X 4 Mobile Keypad.
   1.2 This standard specifies Bangla Characters intended for the definition and implementation of standards for localization of ICT.

2. NUMBER OF KEYS
   This standard defines a layout with 12 keys (3 X 4 Keypad)

3. LAYOUTS
   The layout for Bangla keypad is illustrated below:

1 ং ঃ ঁ ৲ ৴ ৗ ১	2 A B C া ি ী ৄ ৃ ৢ ২ অ আ ই ঈ ড ঊ ঋ ঌ	3 D E F ে ৈ ো ৌ এ ঐ ও ঔ ৩ ৺
4 G H I ক খ গ ঘ ঙ ৪	5 J K L চ ছ জ ঝ ঞ ৫	6 M N O ট ঠ ড ঢ ণ ৬
7 P Q R S ত থ দ ন ৭ ধ	8 T U V প ফ ব ভ ম ৮	9 W X Y Z য র ল শ ষ স ৯
* + ` । . , ? ! ৼ ৻ ↵	0 হ ড় ঢ় য় ৎ ০	#

Keys	Characters							
1	ঢ়	্য	́	ং	ঃ	ঁ	১	
Unicode				0982	0983	0981	09E7	
2	অ	আ	ই	ঈ	উ	ঊ	ঋ	
Unicode	0985	0986	0987	0988	0989	098A	098B	
2	া	ি	ী	ু	ূ	ৃ	২	
Unicode	09BE	09BF	09C0	09C1	09C2	09C3	09E8	
3	এ	ঐ	ও	ঔ				
Unicode	098F	0990	0993	0994				
3	ে	ৈ	ো	ৌ	৩			
Unicode	09C7	09C8	09CB	09CC	09E9			
4	ক	খ	গ	ঘ	ঙ	৪		
Unicode	0995	0996	0997	0998	0999	09EA		
5	চ	ছ	জ	ঝ	ঞ	৫		
Unicode	099A	099B	099C	099D	099E	09EB		
6	ট	ঠ	ড	ঢ	ণ	৬		
Unicode	099F	09A0	09A1	09A2	09A3	09EC		
7	ত	থ	দ	ধ	ন	৭		
Unicode	09A4	09A5	09A6	09A7	09A8	09ED		
8	প	ফ	ব	ভ	ম	৮		
Unicode	09AA	09AB	09AC	09AD	09AE	09EE		
9	য	র	ল	শ	ষ	স	৯	
Unicode	09AF	09B0	09B2	09B6	09B7	09B8	09EF	
0	[Space]	হ	ড়	ঢ়	য়	ৎ	০	
Unicode		09B9	09DC	09DD	09DF	09CE	09E6	
*	[Joiner]	্						
Unicode		09CD						
*	।	.	,	?	!	৺	৳	↵
Unicode	0964	09BC					09F3	
#	Change input method							

Characters to Print on Mobile Phone Keypad:

1   ৗ - ́
    ং - ঁ
	2 অ - ঋ
	    abc
		3 এ - ঔ
		    def

4   ক - ঙ
    ghi
	5 চ - ঞ
	    jkl
		6 ট - ণ
		    mno

7   ত - ন
    pqrs
	8 প - ম
	    tuv
		9 য - স
		    wxyz

*   ̀
    +
	0 হ - ৎ
	    ৗ
		#

Instructions on how to type using the Bangla Keypad arrangement

Type the Bangla by pressing the 0-9, Hash (#) or asterisk (*) keys as shown in the chart above:

Consonants

The consonant are accessed using the 4-0 keys in alphabetical order as follows:

অ আ ই ঈ উ ঊ ঋ এ ঐ ও ঔ

ক খ গ ঘ ঙ চ ছ জ ঝ ঞ ট ঠ ড ঢ ণ ত থ দ ধ ন প ফ ব ভ ম য র ল শ ষ স

হ ড় ঢ় য় ৎ

(as per the Bangla keypad chart)

Transformation of the letters depends on the preceding character – the number key is to be pressed for a character.

Vowels

Independent Vowels can be accessed using the 2 or 3 key.

After a consonant the matra (dependent vowels) can be accessed using 2 or 3 key.

For matra characters first type the consonant until the required character is displayed.

The matra characters are displayed in the chart using the symbol (⊙)

Conjunct Characters

Press * before a value to type required character.

Alternate: Select the desired character then HASANTA and select the desired character.

Numeric

Press 0 for space. For numerical keys press 0-9 keys until the desired numeric is displayed.

Special Characters

Special characters are accessed by repeated pressing until the character is displayed.

To type RAFALA press the consonant and then select RAFALA (্র).

Alternate: Type the consonant then * or HASANTA (্) and then র

To type JAPHALA press the consonant and then select JAPHALA (্য).

Alternate: Type the consonant then * or HASANTA (্) and then য

Type the desired character and then select REPH <mark>(pressing 1 three times)</mark>.