Bangladesh Standard

SPECIFICATION FOR
MOBILE PHONE BANGLA KEYPAD

BANGLADESH STANDARDS AND TESTING INSTITUTION
116-A, TEJGAON INDUSTRIAL AREA DHAKA-1208
BANGLADESH

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Committee on Standardization of Bangla for use in ICT

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14. Deputy Director (Systems)	Bangladesh Computer Council
MEMBER SECRETARY	
15. Senior Systems Analyst	Bangladesh Computer Council

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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. The 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 assistance of Access to Information (A2I) 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 expectations 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 have 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 recognised that for optimum use of this platform, the language of the mobile phones should be localised. 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 a scientific manner to facilitate use of Bangla in all ICT applications in mobile phones.

BANGLADESH STANDARDS AND TESTING INSTITUTION
(MAAN BHABAN)
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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 ্ ঃ ু ঁ ্য ঁ ্র ১	2 া ূ অ A ি ৃ আ উ B ী ৄ ই ঊ C ২ ঈ ঋ	3 ে এ D ৈ ৌ ঐ E ো ৌ ও F ৩ ঔ
4 ক G খ ঘ H গ ঙ I ৪	5 চ J ছ ঝ K জ ঞ L ৫	6 ট M ঠ ড N ড ণ O ৬
7 ত P থ Q দ ধ R ন S ৭	8 প T ফ U ব ব V ভ ম ৮	9 য W র ল শ X ল ষ Y স Z ৯
* ✳ ঁ	0 [space] হ য় ড় ৎ ঢ় ০	# । ! । ৳ , @ ? ↵

The Bangla keypad chart is illustrated below:

	1	2	3	4	5	6	7	8
1	◌্য	◌্য	◌র্	◌ং	◌ঃ	◌ঁ	১	
2	অ	আ	ই	ঈ	উ	ঊ	ঋ	২
2 ◇	◌া	ি	◌ী	◌ু	◌ূ	◌ৃ	২	
3	এ	ঐ	ও	ঔ	৩			
3 ◇	◌ে	◌ৈ	◌ো	◌ৌ	৩			
4	ক	খ	গ	ঘ	ঙ	৪		
5	চ	ছ	জ	ঝ	ঞ	৫		
6	ট	ঠ	ড	ঢ	ণ	৬		
7	ত	থ	দ	ধ	ন	৭		
8	প	ফ	ব	ভ	ম	৮		
9	য	র	ল	শ	স	ষ	৯	
0	[Space]	হ	ড়	ঢ়	য়	ৎ	০	
*	[Joiner] ◌্	◌্						
#	।	.	,	?	!	৳	@	↵

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4. 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 depend 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 the 2 or 3 key.

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

The matra character 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 RAPHALA press the consonant and then select RAPHALA (ৃ).

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 (pressing 1 three times)