Guidelines for ‘Bangla QR’ Code Based Payments

1. The Bangladesh QR code is a quick response (QR) code that is interoperable. The code is based on the 'National QR Code Standard for Retail Payments in Bangladesh' and is issued by the Bangladesh Bank. The code can be used for both issuing and acquiring transactions.

2. ‘Bangla QR’ is a proprietary standard for retail payments in Bangladesh. The code is designed to be easy to use and to reduce fraud.

3. For static QR codes, a maximum of 20,000 transactions can be processed in a day.

4. ‘Bangla QR’ can be used for both issuing and acquiring transactions. The code is designed to be easy to use and to reduce fraud.

5. ‘Bangla QR’ is a proprietary standard for retail payments in Bangladesh. The code is designed to be easy to use and to reduce fraud.

Upwardly mobile individuals must be aware of these guidelines.
Guidelines for ‘Bangla QR’ Code Based Payments

Payment Systems Department
Bangladesh Bank
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1.0 Introduction

Building a safe, secured and efficient payment and settlement system in the country requires continuous efforts from all related stakeholders i.e. Regulators, Banks, Mobile Financial Service (MFS) providers, Payment System Operator (PSO), Payment Service Providers (PSP), Payment Schemes etc. These organizations play a pivotal role in encouraging and adopting new technologies such as Quick Response (QR) code which is a low cost retail payment solution. QR code is a two dimensional bar code initially invented for the auto industry eventually became popular in processing payments worldwide as a contactless payment method. Acquisition of small merchants will now be possible using QR codes instead of currently practiced expensive acquisition process using Point of Sales (POS) devices. This low cost technology will enable all merchants including small and micro merchants to be a part of the digital payment ecosystem.

Some Banks, Payment Schemes, MFSs, PSPs and PSOs have already prepared their own standards and infrastructures for facilitating closed loop/Proprietary QR code based payments, this however would increase inefficiency in the overall payment systems. In this backdrop, Bangladesh Bank in consultation with the stakeholders has developed a National QR Code Standard for Retail Payment named ‘Bangla QR’ for open loop interoperable QR code based payments. Here, we have adopted EMV® Merchant-Presented QR Code Specification (EMV® QRCPS), where merchant will display its QR code and customer will scan the QR code using his/her financial institution’s solution.

2.0 Purposes of these Guidelines

i. To promote the use of low cost QR code based payments throughout the country.

ii. To provide regulatory framework about branding, merchant on-boarding, fees & charges and dispute Management etc. for the participants.

3.0 Scope/Applicability

These guidelines are applicable for all members (Issuers, Acquirers, Transaction Processors, Third Party Payment Aggregators, Customers and Merchants) who will take part in Merchant Presented Mode of QR code based payments.
4.0 Participants in a QR Code based Transaction

The QR code based Payment System consists of the following members:

a. **Acquirer** – the Banks/MFSs/PSPs/PSOs that enrolls merchants, assigning merchant ID, maintaining merchant record/account and settling funds for merchants. Acquirer also facilitates QR code payments by providing application solution for merchants as well as for customers.

b. **Issuer** – Institutions that facilitates QR payments from its customer’s account (i.e. current savings account, debit/credit/prepaid card, MFS account, e-wallet account etc.). Issuer usually on boards the customers (individuals and merchant) and provides QR code base transaction processing solution.

c. **Transaction processor** – A payment infrastructure provider which processes all off-us transactions by routing them to the appropriate participant and provides net settlement position to its participants and arrange to send the same to the settlement bank for posting.

d. **Third Party Payment Aggregator** - An entity that provides support to the merchants to facilitate electronic payments, these support include onboarding merchants directly, or on behalf of the acquirer. In case of direct onboarding, the entity needs to obtain license from the Bangladesh Bank as PSO (WLAMA).

e. **Customer** - An entity who maintains account (current/savings account, debit/credit/prepaid card, MFS account, e-wallet account etc.) with the issuer.

f. **Merchant** - An entity engaged in the business of selling of goods and services enrolled with an acquirer for receiving electronic payments.

5.0 Bangla QR Logo

To ensure the uniformity of National QR Code Standard, Bangladesh Bank has developed a logo termed as ‘Bangla QR’. This logo represents the interoperable QR Code based retail payments and should be displayed in each merchant point to facilitate ‘Bangla QR’ payments. The logo of ‘Bangla QR’ must be developed according to the format given in Annexure-1. The acquirer shall also comply with the template as per Annexure-2. The ‘Bangla QR’ template should be clearly visible and readable to the customers. Apart from paper or sticker, ‘Bangla QR’ may be displayed in virtual form on any device screen.

6.0 Transaction Flow of a QR Payment

To encourage seamless Bangla QR payments, the applications provided by the issuer should be uniform. Bangladesh Bank suggests to customize the steps for QR code based payments as follows:
The following image depicts a generic mobile application user interfaces and process flow:

In this instance, the merchant will display a generic QR code which contains merchant’s payment information without amount. Customer will scan the QR code and enter the payable amount in his/her mobile application and process the payment.

In this instance, the merchant will generate specific QR code which contains merchant information including amount for each payment. Customer will scan the QR code and pay without entering the amount in his/her mobile application.
7.0 Merchant on boarding for QR Payments

QR code based payments opened the opportunity for the acquirers as well as for the merchants by enabling them to accept digital payments cheaply and easily. Bangla QR code will increase customers’ financial service accessibility and interoperability in payment ecosystem. For the rapid expansion of QR code based payments, acquirers should prepare their strategy considering the following issues:

i. Acquisition of merchants for Bangla QR payments will be decided by existing risk analysis and mitigation method (for example acquirer can segregate the merchants based on their sales volume, business nature, services offered etc).

ii. Acquirers shall adopt the merchant acquisition policy in compliance with the regulations provided by Bangladesh Bank and BFIU.

8.0 Clearing and settlement

All successful Bangla QR transactions must be authorized by the issuer and transaction completion information will be notified to related customer and merchant instantly. Transactions which are processed through Bangladesh Bank’s network will be settled on the next business day. Participants will receive all the Clearing and Settlement reports including detail information at the end of each clearing cycle as usual.

9.0 Security

i. The Bangla QR code is prepared according to the EMVCo standard. So, the acquirers and issuers shall adopt related security features instructed by EMVCo.

ii. Acquirers and issuers shall follow card and other relevant controls mentioned in guidelines on ‘ICT Security for Banks and Non-Bank Financial Institutions’ issued by Bangladesh Bank.

iii. Acquirers and issuers shall comply with relevant circulars issued by Bangladesh Bank regarding Card Present and Card Not Present (CNP) transactions from time to time.

iv. Acquirers shall provide merchant awareness to ensure presentation of legitimate QR code.

v. Issuers shall aware their customers to verify merchant’s name and details while paying through Bangla QR.

vi. For security purposes, issuers shall adopt transaction limits in line with clause 11 of these guidelines for QR code based transactions.
10.0 Transaction Limits

Merchants will be able to accept funds by using Bangla QR from various payment instruments including bank account, debit card, credit card, pre-paid card, MFS account and e-wallet account. Therefore, the number and amount for daily transaction for each category of account will be determined by the issuers as per their existing policy. However, Bangladesh Bank shall determine any transaction limit deemed necessary and will provide notification to the participants regarding such limits from time to time.

11.0 Transaction Notifications

i. Issuers shall notify customers the transaction status in real-time via SMS/email.
ii. Acquirers shall notify the merchants the transaction status in real-time via SMS/email.

12.0 Fees and Charges

i. Acquirers are strictly advised to make sure that the cost of Merchant Discount Rate (MDR) shall not be passed on to the customer.
ii. Fees and charges for transactions processed through Bangladesh Bank’s network will be as per Bangladesh Bank directives while the fees for other processors will be based on their policy. However, processors are encouraged to reshuffle their fee structure in line with the fees of Bangladesh Bank’s network as much as possible.

13.0 Dispute Management

In case of on-us transactions, there should be a clearly defined and disclosed Dispute Management Procedure for merchant and customer by respective service provider. While for not on-us transaction, acquirers and issuers should follow transaction processor’s dispute management guideline. The transaction processor(s) are encouraged to adopt shorter dispute management timeframe for Bangla QR payments.
Annexure-1: Bangla QR Logo Details

BANGLA QR LOGO

BANGLA

QR
BANGLA QR LOGO

Colors

Color values:

- **RGB**: 214 0 28
- **HEX/HTML**: #D6001C
- **CMYK**: 0 100 100 0

- **RGB**: 18 112 60
- **HEX/HTML**: #12703C
- **CMYK**: 85 91 44

BANGLA QR LOGO

Sizes

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