Digital Payments

STEP BY STEP INSTRUCTIONS FOR VARIOUS MODES OF PAYMENT:

BHIM Aadhaar, BHIM (UPI), USSD, AEPS, Cards, e-Wallets, PoS
BHIM Referral and Cashback Schemes
BHIM Aadhaar
(Only for Merchants)
Requirements for registration on BHIM Aadhaar

**Requirements for Merchants**

- Smartphone with internet facility
- Fingerprint Scanner attached to smartphone
- Aadhaar Number seeded to bank account

**Availability**

- Merchant on-boarded by his/her bank
- 22 banks on BHIM Aadhaar; more coming soon
WHAT IS BHIM AADHAAR?
- Aadhaar based system for merchants - a/c to a/c transfers
- Customers can pay without need of card/phone
- Merchant can accept payment through his mobile phone using a fingerprint scanner

FEATURES OF BHIM AADHAAR
- Direct credit transactions from customers’ bank a/c to merchants’ bank a/c
- Instantaneous transfer
- Authentication by customers’ fingerprint – highly secure
Receiving Money on BHIM Aadhaar

Register for BHIM Aadhaar App (On-boarded by Bank)

For receiving payment – enter Aadhaar number of customer and get fingerprint authentication

Message displayed after successful transaction
BHIM (UPI)
Bharat Interface for Money (BHIM)

1. WHAT IS BHIM?
   - National system for a/c to a/c transfers
   - One app for all users from all banks
   - Instant registration and transaction

2. FEATURES OF BHIM
   - Much more than e-wallets; money does not stop earning interest
   - Direct transactions from and to your bank account
   - Faster and cheaper than NEFT, RTGS
Requirements for registration on BHIM

REQUIREMENTS

- Smartphone with internet facility
- Bank Account details (only for registration)
- Phone number should be registered with your bank

AVAILABILITY

- BHIM app available on Google Play Store, Apple phones
- 44 banks on BHIM; more coming soon
Registering on BHIM

Choose language after installing

Choose SIM registered with bank

Select the bank and enter details

Homepage after successful registration
Security Features of BHIM

- Verification with mobile number and phone handset
- Password for opening BHIM app
- UPI PIN for making transactions
Sending Money on UPI

Select option “Send” on BHIM app homepage

Enter mobile number of payment address of payee

Enter your UPI PIN

Message displayed after successful transaction

Your Bank

Send Money

Your Bank

PRABHAT SHARMA

ENTER UPI PIN

Money Sent

You have successfully sent ₹1.00 to prabhat@upi

GO TO HOME
Scan and Pay on BHIM

- Select “Scan and Pay”
- Application opens a QR scanner
- Scan the QR code of payee
- Details of payee displayed on screen
- Enter the UPI PIN, transaction can be completed
Unstructured Supplementary Service Data (USSD) based BHIM

*99# - National Unified USSD Platform (NUUP) integrated with BHIM (UPI)
Required for Activation

1. ACCOUNT IN A BANK
2. ANY MOBILE PHONE ON GSM NETWORK; NO INTERNET NEEDED

Can be used for payments upto Rs 5000 per day per customer
Registration

Process

- Dial *99# from bank registered number
- Select account
- Now account registered for USSD
Setting up BHIM (UPI) PIN

Process
- Dial *99*7*1# from bank registered number
- Enter debit card details
- Enter new UPI PIN
- PIN set
Send Money to Mobile/Aadhaar/ Payment Address

Registered user is taken to the main menu on dialing *99#

1. User Selects 1 to pay to New contact.
2. Chooses to pay to a mobile number
3. Enters the mobile number to pay
4. Enters the amount to be paid. Name of the mobile number holder is verified and displayed
5. Enters UPI PIN
6. Payment Successful Displays “Your contact has been saved successfully” on 1
Aadhar enabled payment system (AEPS)
Aadhaar Enabled Payment System (AEPS)

AEPS allows bank-to-bank transaction at PoS (MicroATM) with the help of Banking Correspondent

Seed your account with your Aadhaar number

Now do transactions without remembering any PIN

Aadhar enabled Services
- Balance Enquiry
- Cash Withdrawal
- Cash Deposit
- Aadhaar to Aadhaar Funds Transfer
Key Steps for AEPS Transaction

1. Go to a MicroATM or banking corresponding
2. Provide your bank name and Aadhaar
3. Choose which transaction to do
4. On successful transaction, take the print slip
5. Process completed
6. Provide fingerprint on scanner
MicroATM Transaction
Bank Cards
Getting a Bank Card

1. HOW TO ISSUE A CARD FROM YOUR ACCOUNT
   - Approach nearest bank branch
   - Multiple cards from one account
   - PIN issued by bank separately

2. ACTIVATE YOUR CARD
   - At your Bank’s ATM by even balance checking
   - At your bank branch by any transaction
Point of Sale (PoS) & Card steps

**BANKS ISSUE VARIOUS CARDS FOR THEIR ACCOUNT HOLDERS**

- Prepaid Cards
- Debit cards
- Credit Cards

**USE YOUR CARD TO SHOP ANYWHERE**

- At any PoS
- At ATM
- Online shopping

**PREPAID CARD CAN BE ISSUED BY ANY BANK FROM ACCOUNT OR CASH**

- Pre-loaded card
- Equivalent to cash
- Can be recharged several times
- Can be used at any PoS, ATM

(FOLLOWING BENEFITS)
Wallets
What are e-wallets?

Electronic pre-paid payment system, mobile-first

Used in purchasing items on-line with a computer or a smartphone at a store.

An individual's account is required to be linked to the digital wallet to load money in it.

Most banks have their e-wallets and some private companies
Using Wallets

Consumer Wallet Limits: Rs.20,000/month for all. Rs.1 lakh/month with KYC

Merchant Wallet Limits: Rs.50,000/month with Self Declaration. Rs.1 lakh/month with KYC

Basic Requirements to Start Using a Wallet: Bank Account, Smartphone, 2G/3G Connection & A Free Wallet App
Point of Sale (PoS)
Types of PoS

PHYSICAL POS
Physical Card Swiping – PTSN with landline / GPRS enabled

MPOS
Phone connected with external POS device through jack / Bluetooth

V-POS
Virtual E-payment Gateway
Physical PoS

1. SWIPE A DEBIT/CREDIT CARD ON THE POS MACHINE

2. ENTER AMOUNT TO BE PAID AND PIN

3. GENERATE RECEIPT
Installation of Physical PoS Terminal

1. Open / identify current account for transactions

2. Fill in the application form (online / at the branch)

3. Identify type of PoS required (landline / GPRS)

4. Submit following documents:
   - Proof of business (any one)
     • Shop & establishment registration certificate
     • VAT certificate
     • Sales tax
   - Proof of address
   - Photo identity proof of proprietor / partner
   - Financial details
     • Bank statement
     • Income tax return

5. Acceptance of MDR by merchant

6. Execution of Merchant Establishment Agreement
Mobile PoS

Note: mSwipe is used as an example of MPOS here
V-PoS

No PoS machine required

QR code used for payment to bank account of merchant

Complete privacy of merchant bank account
Must Do Practices

Register your mobile number at bank for regular information by SMS for every transaction

Never share your PIN to anyone

Transact at only trusted merchants

While at ATM, ensure no one is looking over your shoulders
Referral Scheme for Individual Users on BHIM

1. Existing user introduces a new user about BHIM app
2. New User downloads the app
3. New User enters referral code (mob. no.) of referrer during his 1st transaction
4. New User makes minimum 3 successful transactions with 3 different users

Referral Bonus
- Existing User: Rs. 10
- New User: Rs. 25
Cashback Scheme for Merchants on BHIM

1. Merchant downloads the BHIM app and clicks “I am a merchant”

2. Fills in his details and is self-registered as a merchant

3. Starts receiving payments from customers using BHIM (must have >20 different customers in a month)

CASHBACK BONUS TO MERCHANTS

- 50-100 inward transactions in a month: Rs. 100
- 100+ inward transactions: Rs. 0.5 per transaction

Total Monthly cashback: Ranges Rs. 100-300

Credited to merchant by 7th of next month
Usage of Aadhaar in Digital Payments
Aadhaar for Digital Payments – 4 Modes

1. Aadhaar Payment Bridge (APB):
   A payment can be made to a person’s bank account via his/her Aadhaar number, provided it is linked to his/her Aadhaar number. Government India transfers benefits and subsidies directly to the beneficiaries bank account through APB. **Bank is chosen through NPCI Mapper as it is a resident absent transaction.**

2. Aadhaar Enabled Payment System (AEPS):
   AEPS is the platform in which a person can do basic banking transactions including withdrawal, deposit cash, fund transfer etc. from his /her bank account at Micro-ATMs using biometric authentication. **Bank is chosen by resident as it is a resident present transaction.**

3. Aadhaar Pay/ BHIM Aadhaar:
   Aadhaar Pay is merchant version of AEPS. The Application works on a low cost android phone with single finger bio-metric device. It enables merchant to take cashless payment from his customers. **Bank is chosen by resident as it is a resident present transaction.**

4. Pay to Aadhaar:
   It is a facility available on UPI platform integrated in BHIM app. This enables a resident to make a payment to the Aadhaar number any other resident. The receiving Aadhaar number should be linked with his/her Aadhaar number. **Bank is chosen through NPCI Mapper as it is a resident absent transaction.**
NREGA Payments

LPG Subsidy paid by Govt.

Shopkeeper receiving payments using Aadhaar Pay

BHIM Users

Pay 2 Aadhaar Holder using BHIM/UPI

Micro ATMs

AEPS Fund Transfer

Bank

AEPS Cash Withdrawal

AEPS Cash Deposit

AEPS Fund Transfer

Aadhaar Holders

NREGA Workers

APB

APB

AEPS Cash Withdrawal

AEPS Cash Deposit

AEPS Fund Transfer

LPG DBT Beneficiaries

NREGA Workers

LPG Subsidy paid by Govt.

Shopkeeper receiving payments using Aadhaar Pay

BHIM Users

Pay 2 Aadhaar Holder using BHIM/UPI

Micro ATMs

AEPS Fund Transfer

Bank

AEPS Cash Withdrawal

AEPS Cash Deposit

AEPS Fund Transfer

Aadhaar Holders
Aadhaar Payment Bridge

- File - Aadhaar, Amount and trans. Ref. no.
  - Gov. 1: Sponsor Bank 1
  - Gov. 2: Sponsor Bank 2
  - Gov. 3: Sponsor Bank 3

NPCI Repository
- Aadhaar - IIN

Data from
- Banks and Governments

Beneficiary
- Bank 1 (CBS)
- Bank 2 (CBS)
- Bank 3 (CBS)

APB/ACH
- NPCI Central Clearing System
Aadhaar Enabled Payment System
Aadhaar Pay/ BHIM Aadhaar – Merchants

Customer Inputs:
1. AADHAAR Number
2. Bank Name
3. Amount
4. Biometric (FP/IRIS)

Authentication is done by UIDAI and Switching, Clearing and Settlement is performed by NPCI.
Pay to Aadhaar Number in BHIM/UPI

1. Acquiring Channel
2. ReqPay
3. Address Resolution Request
4. Address Resolution Response
5. Payee PSP (Beneficiary Bank)
6. 6
7. RespPay
8. 8

Notes:
- NPCI Mapper
- Payer PSP (Remitter Bank)
- Unified Payments Interface
<table>
<thead>
<tr>
<th>Aadhaar Payment Bridge</th>
<th>Pay to Aadhaar in BHIM/UPI</th>
<th>Aadhaar Enabled Payment System</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Used for crediting money to Aadhaar Holders</td>
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<td>Used for providing banking services like cash deposit, cash withdrawal, fund transfer, balance enquiry etc.</td>
<td>Used for receiving payments from customers</td>
</tr>
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<td><strong>Resident need not be present at time of transaction</strong></td>
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<td>Resident himself chooses bank of his choice</td>
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<td><strong>Used for transferring one to one payment</strong></td>
<td><strong>Used for providing banking service to individual customers by Bank Mitras</strong></td>
<td><strong>Used for receiving payments from individual customers by shopkeepers/ merchants</strong></td>
</tr>
</tbody>
</table>