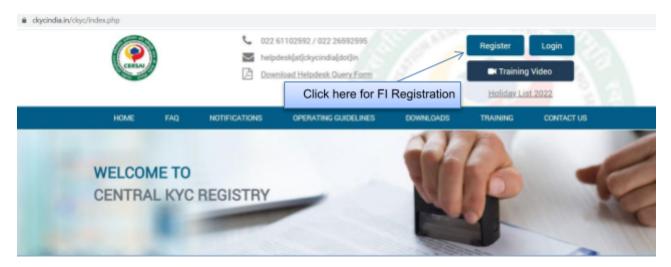
Overview

This document explains how institutions can connect with CKYC, from registration to secure access. It highlights the steps for safe data exchange, file uploads, and record authorisation, making the process simple and compliant.

FI Registration:

This functionality provides a facility for registration of Financial Institutions. After providing the required details and approvals by the authorities, System will generate a unique FI Code and will create two institutional logins for the FI after successful registration.



Provision for FI Registration

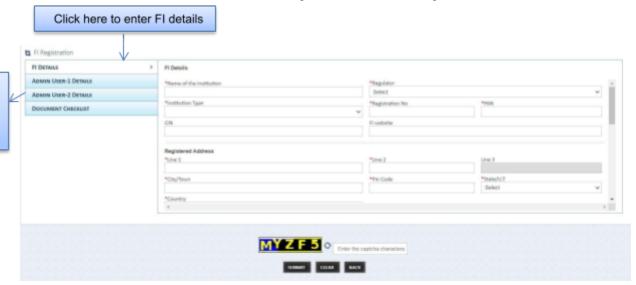
On clicking on FI registration link user will be redirected to following page:



New FI Registration Details:

Click here to add

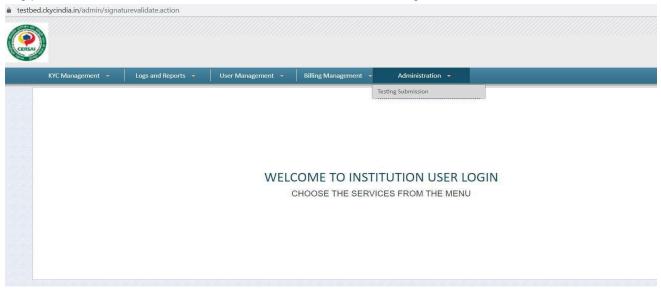
Admin 1 and Admin 2 details On clicking on the New Institution Registration option, the user will be redirected to the following page where the user can fill in all the required details of FI that has to be registered and the details of two institutional admins that are to be created along with the institution registration.



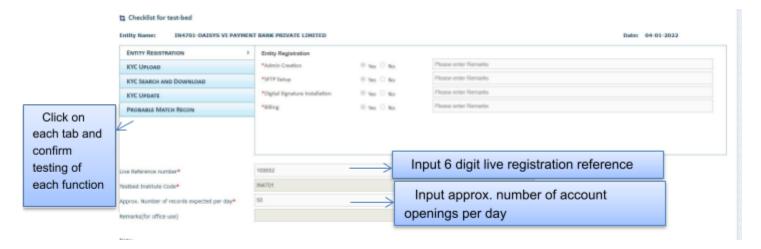
Screen for input to FI Registration

Upon submission of the details the system will generate a reference ID and mail will be sent to the nodal officer/authorized signatory of the FI informing the same. FI shall send the duly signed pre-filled registration form along with the supporting documents as per the document checklist, to CERSAI Delhi. The documents will be verified by CERSAI and shall accordingly be approved/rejected/put on hold.

Post successful completion of the document verification stage, the FI shall have to register on the testing portal. Documents do not need to be submitted for the testbed registration.



Testing checklist submission menu option



Screen for Testbed checklist input

Post verification of the testbed registration request, the testbed login credentials will be sent to the registered email ids. The reporting entity shall then submit the testing checklist online on the testing portal.

The checklist shall be verified, and testing completion approval mail shall be sent to the institution's registered email id.

Upon Registry approval, user credentials will be sent to the e-mail IDs of institutional admin1 and institutional admin2 separately, and compliance officers will get the welcome e-mail along with FI code.

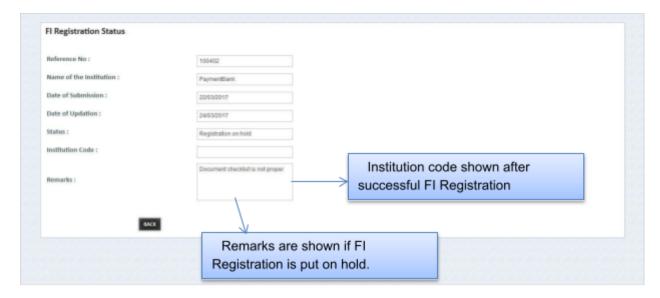
Check Status of FI Registration Request:

Using this functionality, a compliance officer can check the current status of a FI registration request. User needs to follow following steps:

- 1. Click on Check Status link on FI Registration home screen.
- 2. Click on the "CHECK STATUS" link after providing the generated reference number.



FI Registration Status Check



FI Registration Status

Password Generation for First Time Users:

After activation of users by institution an email will be sent to the user containing User ID and a link to generate password.

On clicking on the link provided in e-mail, the user will be redirected to the following screen:



OTP Generation screen

- User Id is auto populated. The user needs to enter a 10 digit mobile number as provided during FI Registration.
- Clicking on the "SUBMIT" button, the system will validate the entered mobile number with the
 registered mobile number. If the mobile number is authenticated successfully then an OTP is
 sent to the user via SMS and the following screen appears:



Set Password screen

In order to set the password, User needs to fill the following fields:

- OTP received by SMS.
- New Password as per the password policy.
- Confirm Password.

On clicking "SUBMIT" button password would be successfully generated and User will be able to see the following screen:



Password Set Successful screen

Note: If Admin has SFTP access, He should use same User ID and Password for SFTP login

Login Screen:

Opening the predefined URL in any browser will take the User to the login screen.

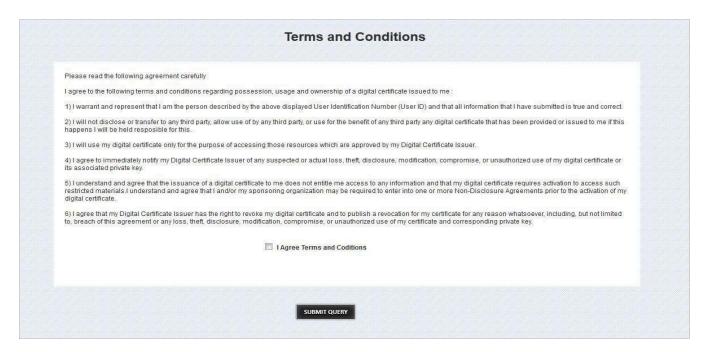


User Login screen

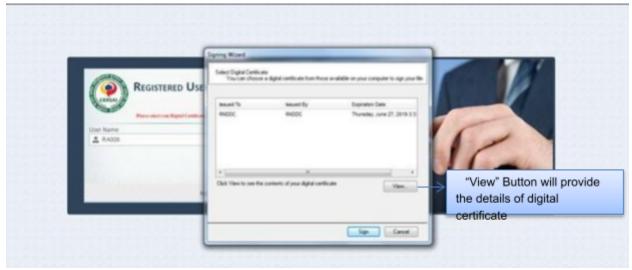
Following steps are to be followed to login:

- 1. User needs to fill following fields:
 - User Name: Enter User Id /User name received via email.
 - Password: Enter the Login password.
 - Captcha: Enter exact characters as displayed in the Captcha field.
- After entering the user ID and password, a pop up will appear on screen to choose a digital certificate. Users need to select the digital signature that was registered during first time user login.

Note: System will ask first time users to read and accept the terms and conditions regarding possession, usage and ownership of a digital certificate.

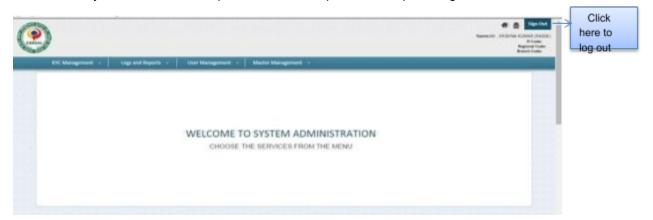


Terms and Conditions regarding usage of Digital Certificate



Digital certificate selection

Digital certificate selected is validated each time against the one registered during first login/last modified. The user is navigated to the CKYC application home screen after the certificate is successfully verified. Users can perform different operations as per assigned role.



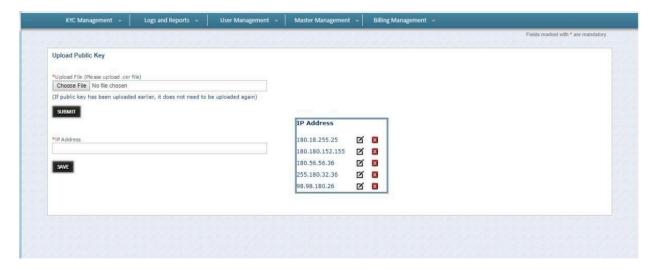
Admin User home screen

Upload Public Key/ IP Whitelisting:

Institutions need to upload their public key of digital signature and configure their IP(IP from which request has to be sent) address in order to avail Search and Download API services. Through this functionality, Institutional admin can upload public keys and configure public IP.

Following steps are required to follow:

1. Click on the "Upload Public Key" option under User Management.



Screen to upload public key and IP address

- 1. Upload Institution's public key(.cer file)
- 2. Enter Institution's Public IP
- 3. Click on Submt.

SFTP setup:

All financial institutions (FI) require access to files over a secure connection that allows for the upload of files. This document details the requirements around the SFTP functionality only, detailing FI responsibilities necessary to implement this functionality and effectively govern the operation of the interchange. The SFTP behaves as a server application and is responsible for the bulk upload of data and images for FI to connect and upload the files over the secure file transfer protocol.

Accessing SFTP Service

The Financial Institution must use a client or service that supports the SFTP protocol. Access will be over the internet on port 6010 at the following failover enabled URL's: (Production) – IP address will be provided in a separate email. The IP's must be configured on the financial institution side when opening a firewall or when caching is used.

SFTP Access

A folder on the SFTP will be provided to the FIs to facilitate bulk upload of data and images. FI will be given read/modify/delete access to their folder.

All response files will be placed in the institution folder for the institute to pick up.

File Format and Details

Data Fields for the individual record under each header have been described in the bulk upload file format available on https://www.ckycindia.in/ckyc/?r=download.

Hardware

There are no specific hardware requirements due to the loose coupling between FI applications and the SFTP infrastructure. FI should choose appropriate hardware to support the rest of the requirements defined below and in particular the SLAs defined by the individual services in their respective Interface Specification documents.

Software

There are multiple clients that are capable of providing the SFTP protocol available to the FI. FIs are encouraged to evaluate the clients available to ensure alignment with their business and technical needs. Eg: Filezilla, WinSCP.

Network

By default, these services are available over the internet. Leased line connectivity is available on request. Please get in touch with the helpdesk for further details on leased line connectivity.

Bandwidth

Bandwidth required will be based on your data size and count of end-users accessing this data

Protocols and Standards

SFTP: FTP over SSH (Secure Shell protocol) for data transfer over an encrypted connection.

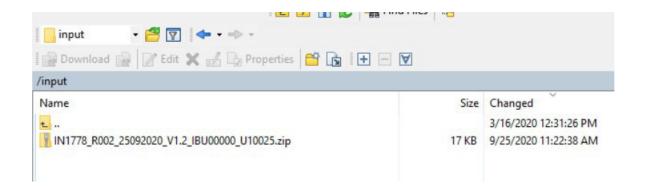
Folder Structure:

Once the user logged in with his user id and password, the user will land on the home directory. The SFTP account of each institution will have two folders in the home directory. "input" and "response" as shown in the below. Each user tagged to a particular FI code that has been provided with SFTP access will be pointed to the same set of input and response folders.



Input Folder/File Upload through SFTP:

The input folder allows the SFTP user to upload the bulk file in zip format. Once the upload of the file (E.g.: IN1778_R002_25092020_V1.2_IBU00000_U10025.zip) is complete then trigger file with the same name as the uploaded zip file has to be uploaded. The trigger file extension has to be (.trg). The trigger file should be an empty text file. When the trigger file (E.g.: "IN1778_R002_25092020_V1.2_IBU00000_U10025.trg") is uploaded the SFTP Listener willstart processing the zip file. The zip file and the trigger file will be deleted from the folder once the processing has been completed.

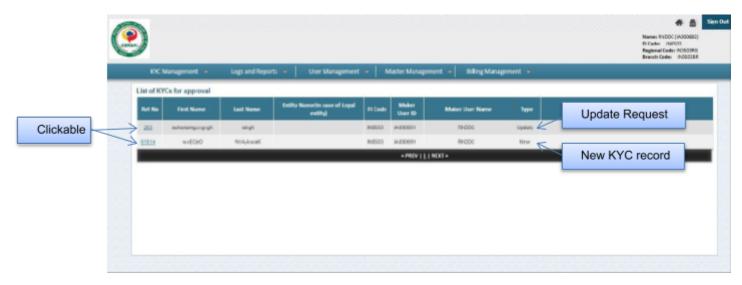


KYC Authorization:

In the KYC Authorization section, a checker User can see the list of submitted KYC records by the maker and can approve/reject a record after reviewing the details for that record. This functionality can be only accessed by Institution level Admins only e.g. Institute admin, Regional admin and Branch Admin. This screen can be used to approve both Individual and Legal entity records.

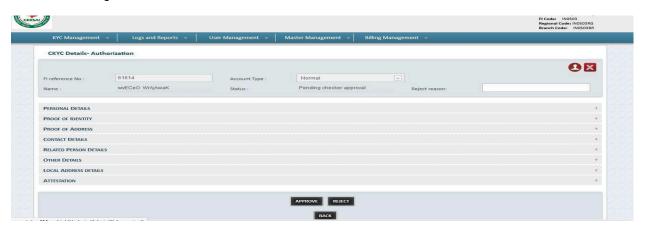
Following are the steps to explain how checker can approve/Reject a particular record:

- 1. Click on the "KYC Authorization" link under the KYC Management menu.
- 2. Users will be redirected to the following screen where a list of records submitted by the maker and pending for checker approval can be seen.

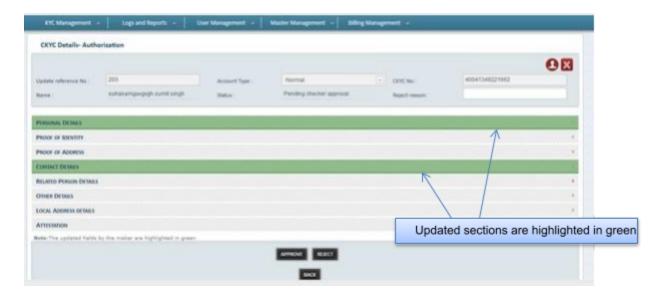


KYC Authorization: List of Records pending for approvals

3. Click on "Ref No" of a particular row to see the details of that record. User will be redirected to following screen:

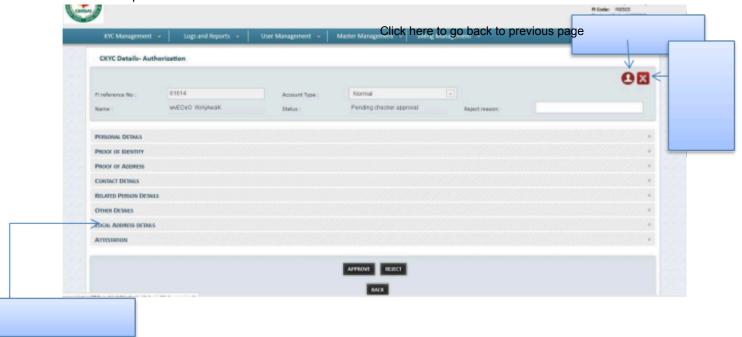


KYC Authorization- Details of New KYC Record



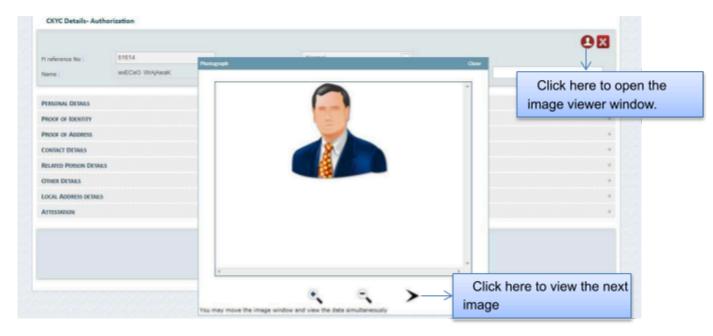
KYC Authorization- Details of Update Request

4. Click on a particular tab heading e.g. Entity Details, Proof of Identity, and Proof of address etc. to open the details of that tab.



KYC Authorization- Details

5. Verify the images uploaded by the maker by clicking on image icon.



KYC Authorization- Details with image

Note: Checker is able to zoom in and zoom out uploaded images. Corrupted images will not be displayed on the image viewer window.

6. Users can reject a record by clicking on the "REJECT" button after selecting the "Reject reason". If User wants to approve the record User needs to click on "APPROVE" Button. After clicking on the approve button a popup opens to select a digital certificate. Users can select a certificate from the popup and click on the "Sign" button to complete the process.



KYC Authorization - Approve and Reject



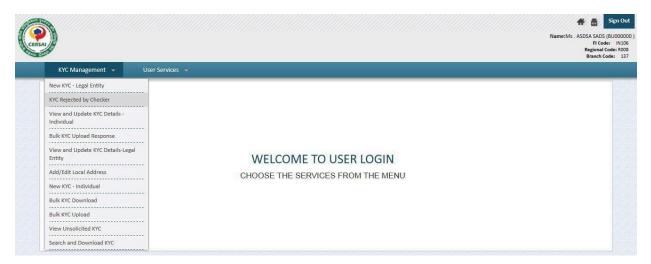
KYC Authorization - Digital signing

KYC Rejected by Checker:

In the KYC Rejected by Checker section a maker can see the records (both Individual and Legal entity records) which are rejected by the checker along with a rejection reason. This functionality is available for institution level admin e.g. Institute admin, Regional admin and Branch admin as well as for institution level Users e.g. Institute User, Regional User and Branch User.

Following are the steps to explain how User can see the reject records list and see their detail and edit a particular record:

7. Click on the "KYC Rejected by Checker" link under the KYC Management Menu.



KYC Rejected by Checker option

8. Maker will be redirected to the following screen which will show the list of all the rejected records by checker which are submitted by the maker (both new KYC request and update request).

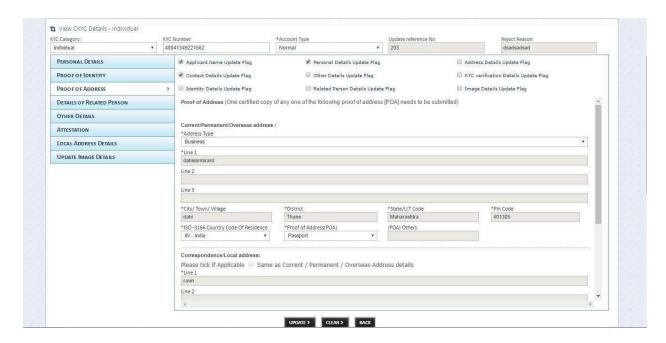


KYC Rejected by Checker screen

9. Click on the "Ref No" hyperlink to see the details of that record for editing. User will be redirected to following screen:

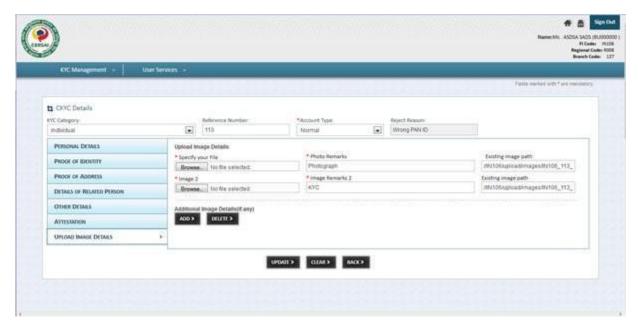


KYC Rejected by Checker- Details of New KYC Record



KYC Rejected by Checker- Details of Update request

10. Users can edit the desired fields as per checker remarks and resubmit the record by clicking on "Update" Button.



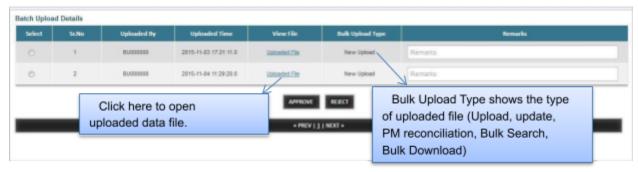
KYC Rejected by Checker- Details of New KYC Record

Bulk Upload Authorization:

In the Bulk Upload Authorization section Admin/Checker can see the list of all bulk files uploaded by the maker in batches and can approve/reject a batch after reviewing the details of records in that file. All admin users have access to this functionality.

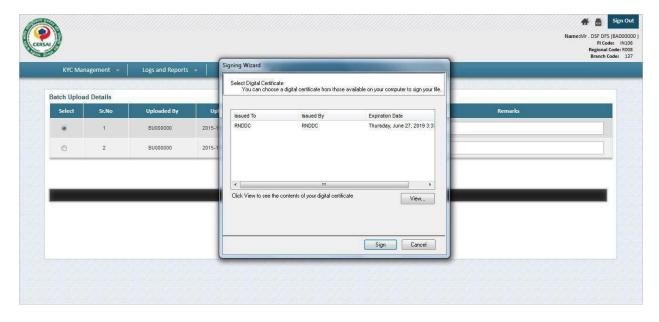
Checker has to follow the following steps to approve/reject uploaded bulk files.

- 11. Click on the "Bulk KYC Authorization" link under the KYC Management menu.
- 12. Users will be redirected to the following screen where a list of bulk records pending for checker approval can be seen.



Bulk upload authorization screen

- 13. Select the radio button for the particular batch.
- 14. Click on Upload file link to open uploaded data file.
- 15. Click on the "APPROVE" button if uploaded data is found to be correct. Immediately a pop will appear to select the digital certificate.



Bulk Upload Authorization: Digital signing

16. Select the digital certificate from the list and click on the "Sign" button. Batch records will be approved and will be sent to the registry for further process.
Users can reject a batch if there is any discrepancy in uploaded data by clicking on "REJECT" button after providing the reject reason in the Remarks field. No digital certificate is required to reject.

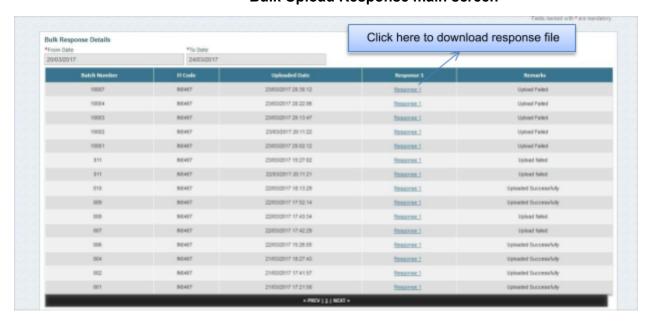
Bulk Upload Response:

Maker and Checker can view and download responses of each uploaded batch after checker approval. User needs to follow following steps to download bulk upload response file:

- 17. Click on the "Bulk Upload Response" link under KYC Management.
- 18. Click on "SUBMIT" after providing the start and end date.



Bulk Upload Response main screen



Bulk KYC Upload immediate Response screen

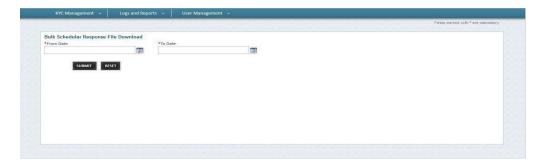
Note: Remarks column shows whether the batch is approved/ rejected by the checker. If rejected, checkers reject remarks will be shown.

- Under Process- When the batch processing is under process
- Upload Failed/Validation Failure Checker approved but not a single record successfully processed.
- Uploaded Successfully- At least one record should be processed successfully.
- Pending checker verification- Pending with checker for approval
- Rejected- Batch rejected by checker
- Completed- Batch processing is completed (only for bulk search)

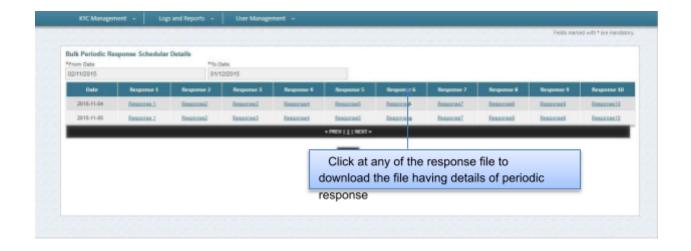
Periodic Response:

Users will be able to download and view the status of each record after the post De-Duplication process. User needs to follow following steps to download bulk upload response file:

- 1. Click on the "Bulk Periodic Response" link under KYC Management.
- 2. Click on "SUBMIT" after providing the start and end date.



Bulk Periodic Response Download option screen



Bulk Periodic Response screen

Bulk Periodic Response Sample File screen

File Based Probable Match Reconciliation:

Using this functionality, FI users can download the Probable match (PM) reconciliation request file and can upload the corresponding response file (FI's decision on each PM record).

- 19. Click on "FI Recon" under KYC Management
- 20. Click on "DOWNLOAD" button to download PM reconciliation request file



FI Recon request download

21. Users are able to upload FI recon response files on the Bulk File Upload screen. After the successful upload checker has to approve the same on the Bulk Upload Authorization screen (Flow is similar to bulk file upload).

Note: If FI's decision is Confirmed Match (CM) then the user needs to provide only one target CKYC number corresponding to that record.

If FI's decision is No Match (NM) then users need not mention any target CKYC number for that record.

Web Based Probable Match Reconciliation:

Using this functionality, FI can take decisions for Probable Match (PM) cases without uploading or downloading any file.

Note: All users in the FI are able to take decisions as makers for the FIR (PM) records uploaded by that FI. After the maker's decision checker will be as per hierarchy (Similar to KYC Authorization)

Probable Match Reconciliation- Maker Decision:

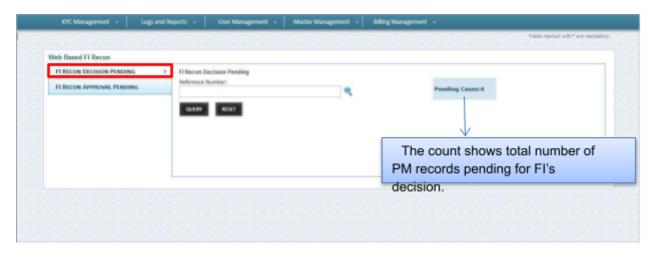
Following are the steps that need to be followed by users to take decision on FIR record (PM):

22. Click on "Web Based FI Recon" under KYC Management.



Web Based FI Recon option

- 23. Search and select the Reference No for which decision has to be taken.
- 24. Click on "QUERY" button



Screen to select PM Reference No which are pending for maker's decision

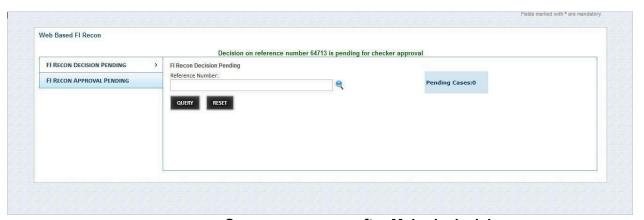
- 25. Now users can see the basic details of source and target (Matching) records along with matching reasons.
- 26. Click on the appropriate button in the decision column for all the given matches and Click on the "SUBMIT" button.



Web Based PM Reconciliation screen

Note: If multiple matches (target records) are there for a single Ref No then FI has to take decision for each match. If FI takes the decision as NM for all the matches then Reference No will go ahead for ID Verification/KYC generation. In case FI takes a decision as CM with any one of the target records (Only one CM possible) then Ref No will be tagged as CM with the corresponding CKYC No.

27. Success messages will be shown on screen about the maker's decision and pending for checker approval and users can follow the same steps to take decisions on other pending PM cases.



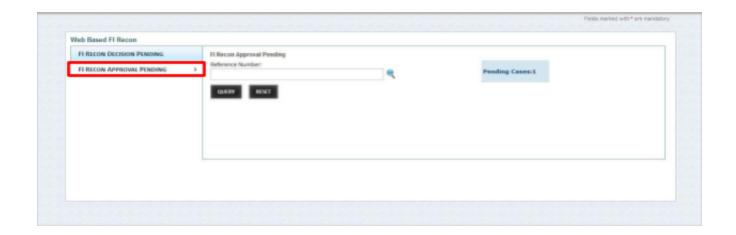
Success message after Maker's decision

Note: Through Web based, FI can take decision only for one Reference Number at a time whereas through file based, decision can be taken for multiple reference numbers.

Probable Match Reconciliation- Checker Approval

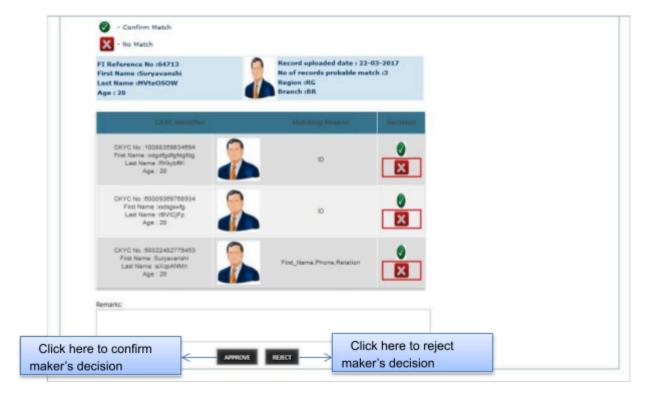
Following are the steps that need to be followed by users (Checkers) to approve or reject maker's decision on FIR record (PM):

- 1. Click on "Web Based FI Recon" under KYC Management.
- 2. Search and select the Reference No for which decision has to be taken.
- 3. Click on "QUERY" button



Screen to select PM reference No which are pending for checker approval

- 4. Checkers are able to see the basic details of source and target records along with the maker's decision for each target record.
- 5. Checkers are able to either approve or reject the maker's decision. Click on "APPROVE" button to approve the decision or the "REJECT" button to reject the maker's decision (Remarks are mandatory to reject).



Probable Match Checker Authorization screen

Note: If Checker rejects the Maker's decision then once again record will be available for all users in that FI to take decision (with reject remarks). After the maker's decision the flow is the same.