

National Archival System (NAS)

- Introduction
- NAS Infrastructure – An Overview
- Banks On-Boarding
- Admin Module
- Cheque Retrieval
- Reports Retrieval

- Central facility with PR and DR sites
- Active PR and DR sites with online replication
- Archival of images and meta data
- Replication on archived images and data
- Retention of images and meta data for mandatory regulatory period
- On demand retrieval of images and data
 - On line retrieval through web based access
 - Off line / bulk retrieval using media delivery



Benefits

Centralized Platform with access to banks at no additional cost

10 years cheque data and Images will be stored

No need for individual bank to maintain their own archival

Considerable cost saving

Online retrieval of images and data

Bulk retrieval through help desk call

Secure login

- National Archival Project(Phase-I) completed ahead of timeline by NPCI
- Pilot launch on April 22, 2014
- Will be extended to all CHI banks by 30, June, 2014



Migration of existing data from tapes to SAN in progress.

- Data from February, 2013 onwards is available in SAN for user query

NAS can be accessed by Banks coming via Internet for those don't have NPCInet.

NAS service launched with Pilot banks on April 22, 2014

- Pilot launch with 7 banks as on date 20 banks user ids are created

User ID

- Member banks to fill the Web View Access Request Form (WVARF) and submit it to NPCI

Requirement from banks

- For access through CHI, opening specified network ports at both NPCI and Bank end. NPCI will provide the details

Grid Data

- Access to all three grids data or only specific grids data based on the requirement / preference

Data Availability

- Currently the cheque images and reports are available from February 2013.

What can
be accessed

- Images
- Reports

Retrieval

- Bank will be able to retrieve single image, bulk retrieval option will be made available in future

PASSWORD
LOCKED

- Member banks can have admin ids for resetting alternately they can email NPCI with their User ID to reset the NAS password

NO. OF
ACCESS

- 5 User IDs will be created per bank per grid



Indirect member
access

- Access will be provided through internet (Phase 2)
- No dependency on CHI

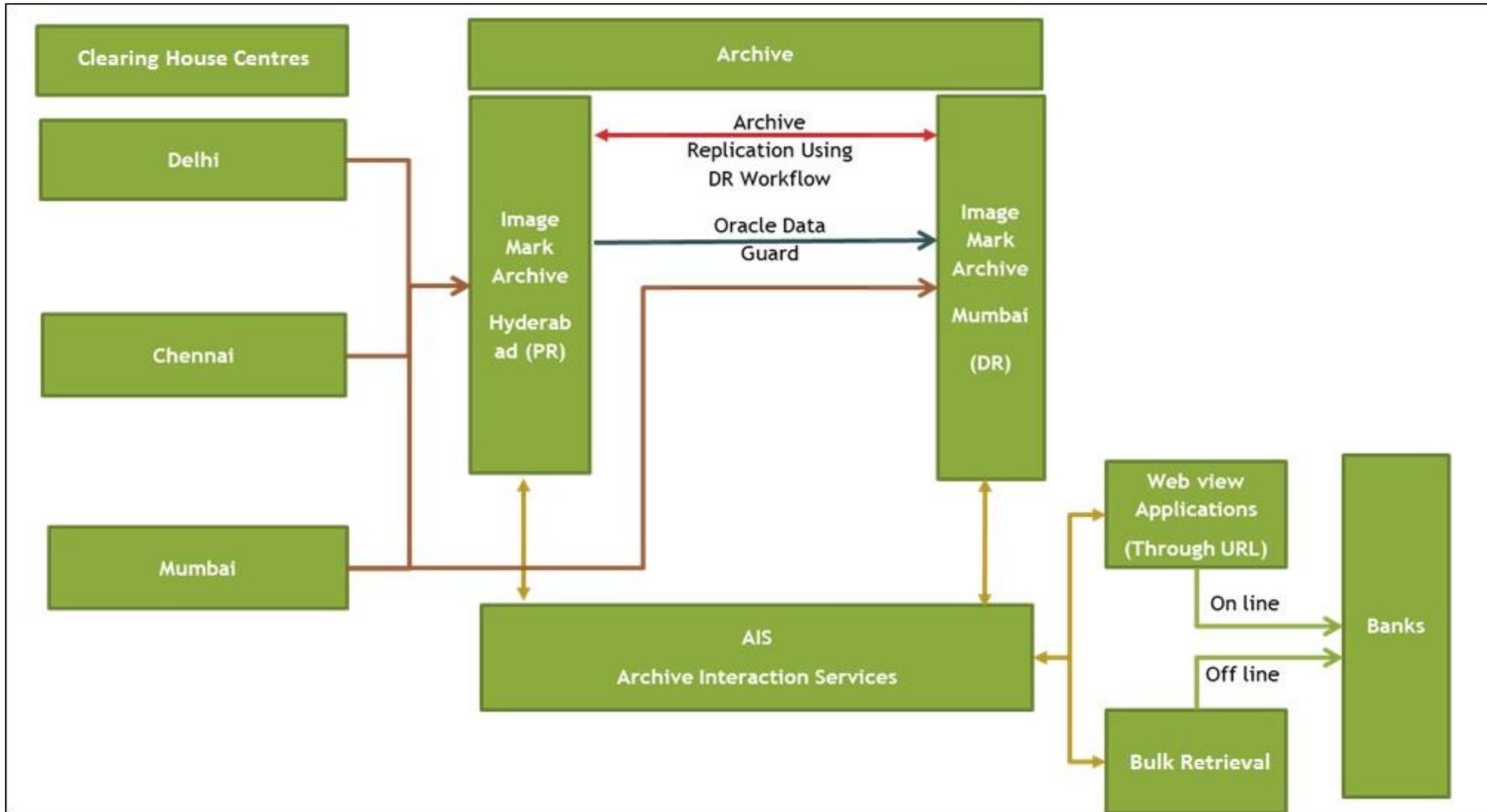


Reports for
indirect
banks

- Separate reports will be provided to the indirect banks
- No need for sponsor bank to split and give the reports any more
- Reports will be archived post the session closure and made available

System Architecture

ARCHITECTURE



A large graphic consisting of a central light pink circle. Overlaid on this circle are two curved, overlapping lines: a light green one that curves around the top and left, and a light yellow one that curves around the bottom and right. The text 'Banks On-Boarding' is centered in a bold, dark blue font.

Banks On-Boarding

- Banks user id will be created based on the forms submitted by the member banks
- Member banks has to inform their IP's which needs to opened for accessing the NAS application (NPCINET / Internet)
- Communication of user id will be sent to the member banks via email followed by a phone call for informing the password
- Ports opening in NPCI & Member banks end
- On first logon the user has to change the password

Retrieval of Cheques

❑ Banks accessing via NPCInet:

1. Cheques:

❑ <https://192.168.239.10/inquiry/brand/Cheque/>

2. Reports:

❑ <https://192.168.239.10/inquiry/brand/Report/>

❑ Banks accessing via Internet:

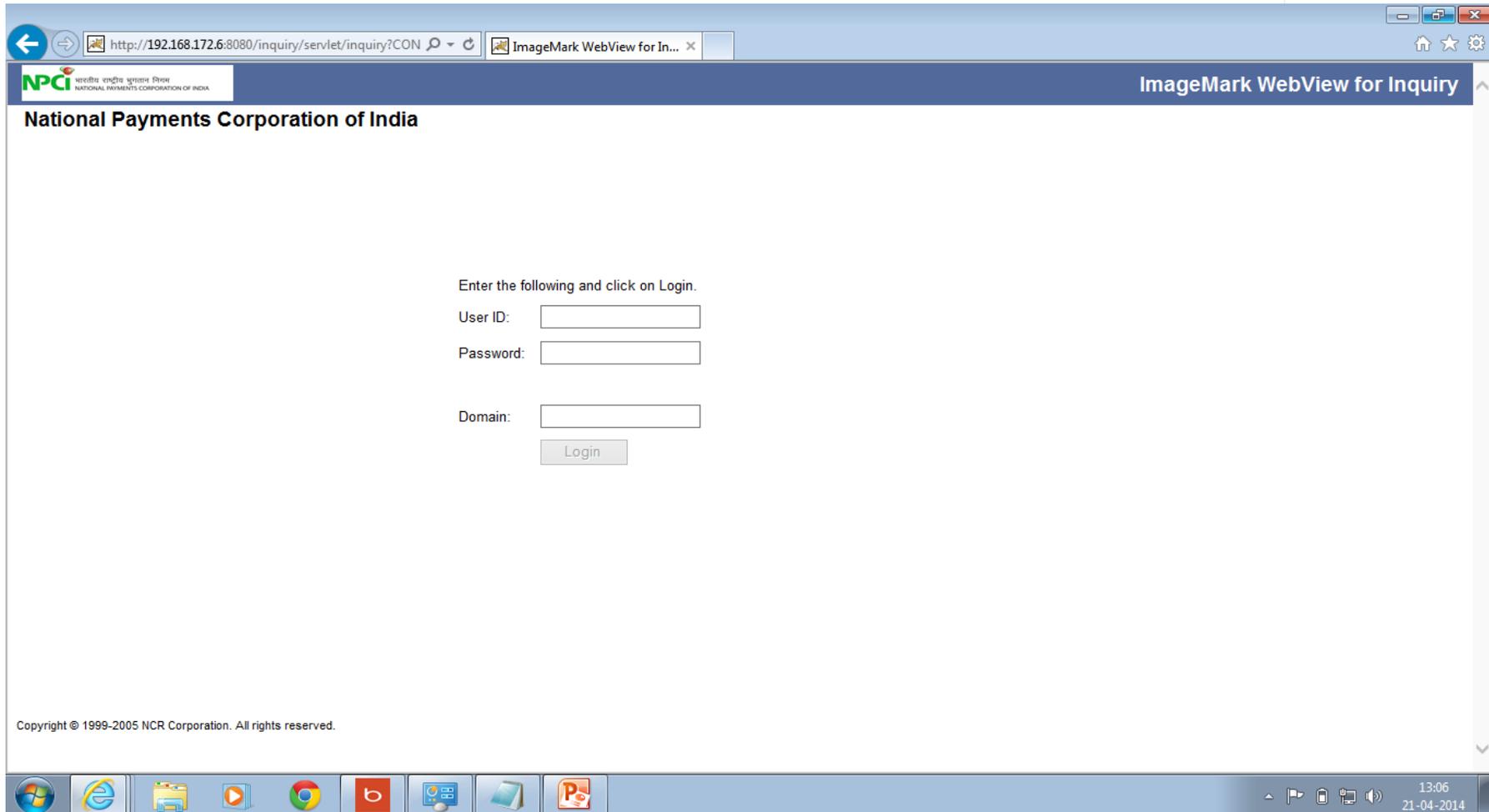
1. Cheques:

❑ <https://103.14.161.66/inquiry/brand/Cheque/>

2. Reports:

❑ <https://103.14.161.66/inquiry/brand/Report/>

Login Page:



The screenshot shows a web browser window displaying the login page for the National Payments Corporation of India (NPCI). The browser's address bar shows the URL `http://192.168.172.6:8080/inquiry/servlet/inquiry?CON`. The page header includes the NPCI logo and the text "National Payments Corporation of India". The main content area contains the following text and form fields:

Enter the following and click on Login.

User ID:

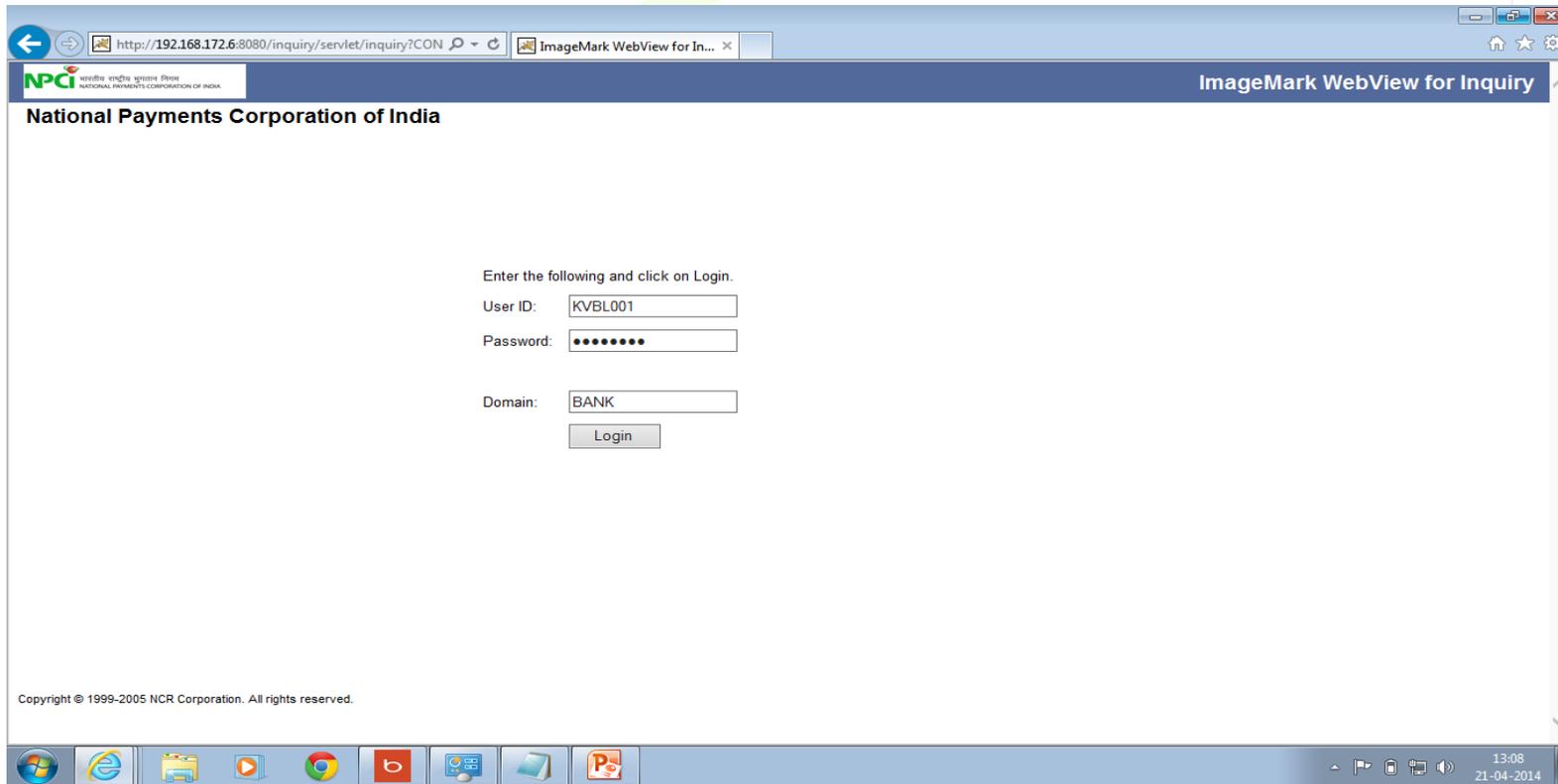
Password:

Domain:

At the bottom of the page, there is a copyright notice: "Copyright © 1999-2005 NCR Corporation. All rights reserved."

Enter Credentials provided:

- User ID
- Password
- Domain: BANK (default)



Enter the following and click on Login.

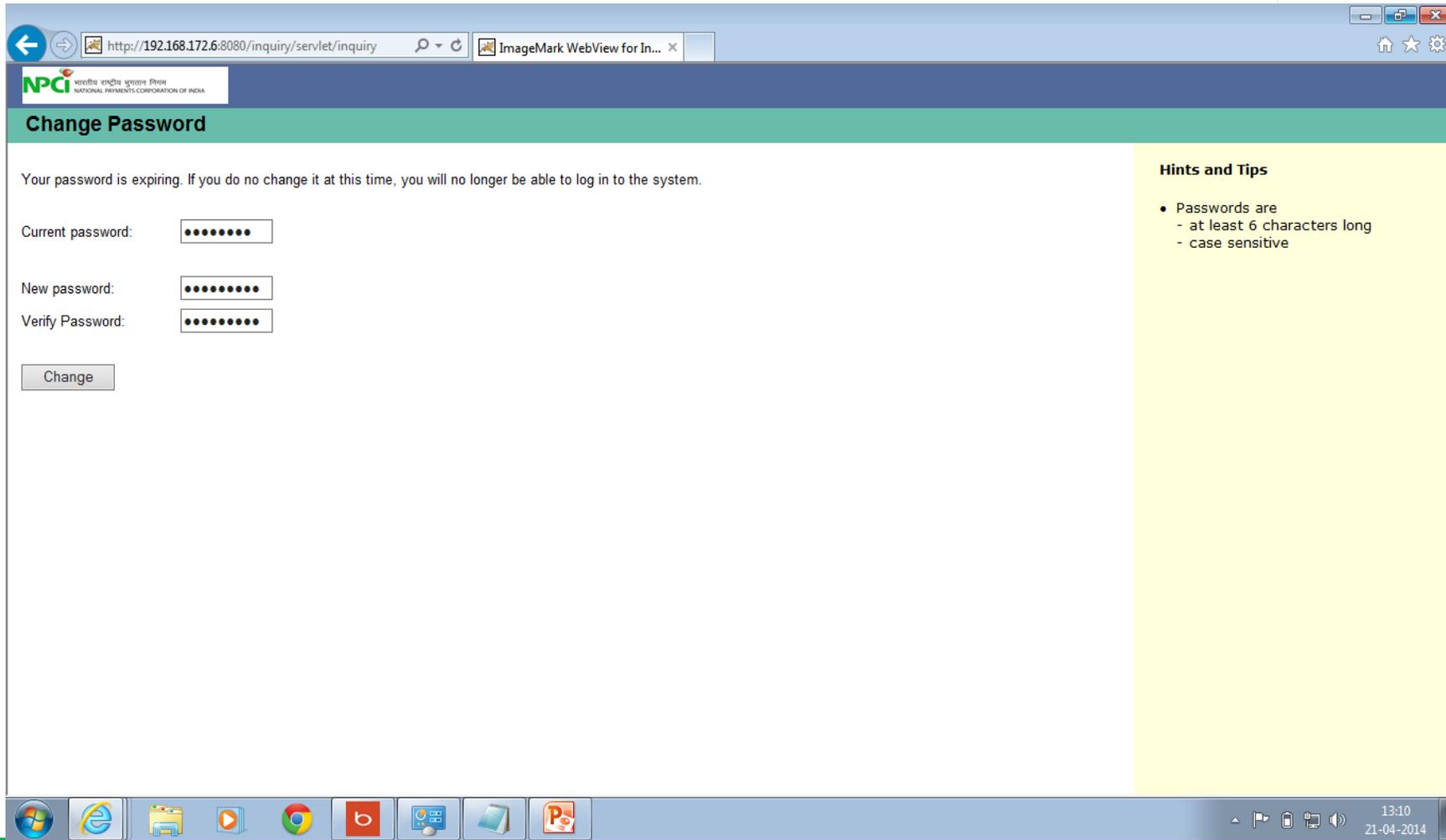
User ID:

Password:

Domain:

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First Time Login user has to change password:

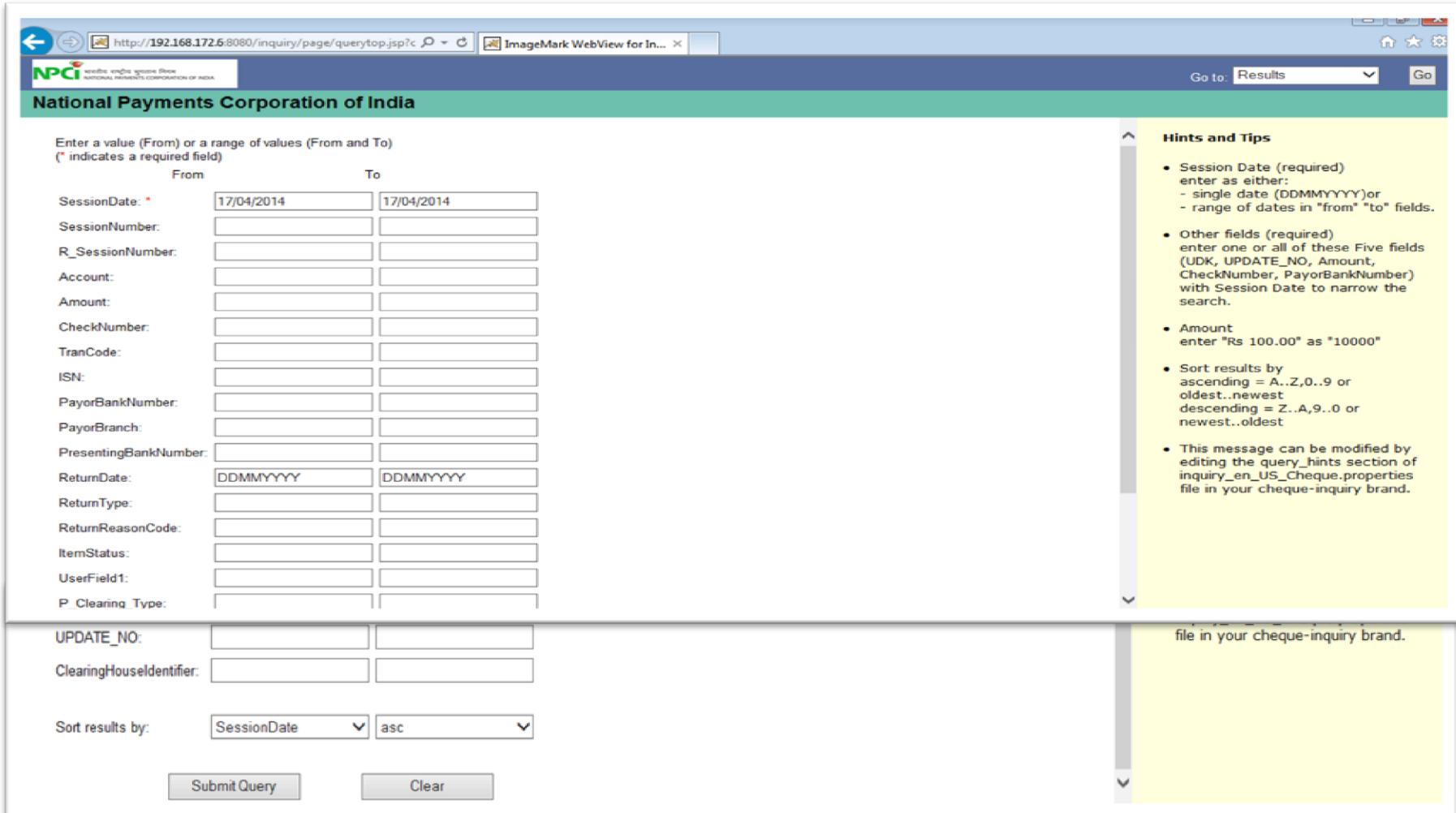


The screenshot shows a web browser window displaying the NPCI Change Password page. The browser address bar shows the URL `http://192.168.172.6:8080/inquiry/servlet/inquiry`. The page header includes the NPCI logo and the text "NATIONAL PAYMENTS CORPORATION OF INDIA". The main heading is "Change Password". Below the heading, a message states: "Your password is expiring. If you do not change it at this time, you will no longer be able to log in to the system." The form contains three input fields: "Current password:", "New password:", and "Verify Password:", each with a password mask. A "Change" button is located below the input fields. On the right side, a yellow box titled "Hints and Tips" contains the following information:

- Passwords are
 - at least 6 characters long
 - case sensitive

The Windows taskbar at the bottom shows the system tray with the date and time: 13:10, 21-04-2014.

Query Screen:



The screenshot shows a web browser window displaying the NPCI Cheque Enquiry Query Screen. The browser address bar shows the URL: <http://192.168.172.6:8080/inquiry/page/querytop.jsp?c>. The page title is "National Payments Corporation of India".

The main content area is titled "National Payments Corporation of India" and contains a form for entering query criteria. The form includes the following fields:

Enter a value (From) or a range of values (From and To) (* indicates a required field)	
From	To
SessionDate: *	17/04/2014
SessionNumber:	
R_SessionNumber:	
Account:	
Amount:	
CheckNumber:	
TranCode:	
ISN:	
PayorBankNumber:	
PayorBranch:	
PresentingBankNumber:	
ReturnDate:	DDMMYYYY
ReturnType:	
ReturnReasonCode:	
ItemStatus:	
UserField1:	
P_Clearing_Type:	

Below the main form, there are additional fields:

UPDATE_NO:		
ClearingHouseIdentifier:		
Sort results by:	SessionDate	asc

At the bottom of the form, there are two buttons: "Submit Query" and "Clear".

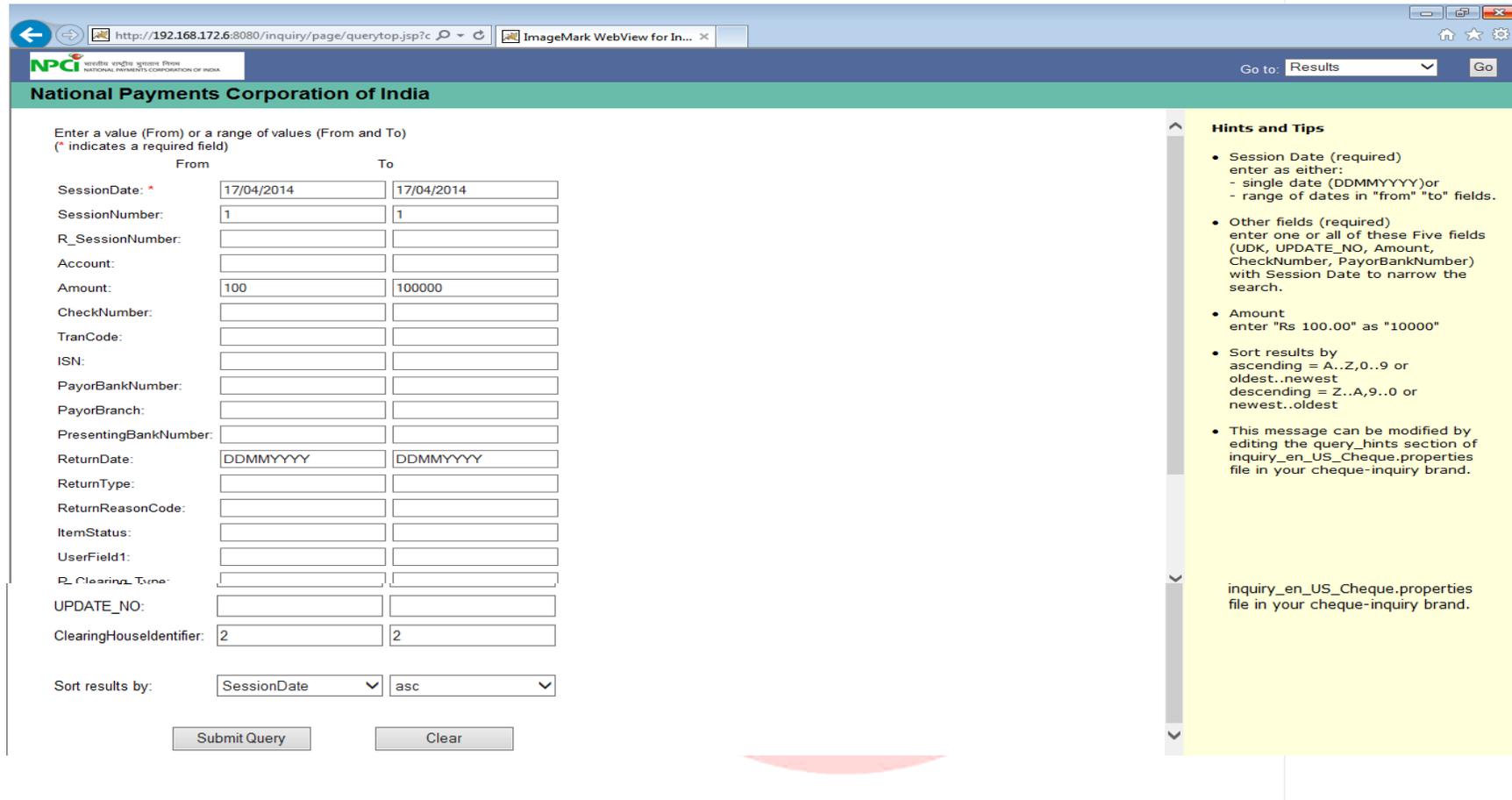
On the right side of the screen, there is a "Hints and Tips" section with the following content:

Hints and Tips

- Session Date (required) enter as either:
 - single date (DDMMYYYY) or
 - range of dates in "from" "to" fields.
- Other fields (required) enter one or all of these Five fields (UDK, UPDATE_NO, Amount, CheckNumber, PayorBankNumber) with Session Date to narrow the search.
- Amount enter "Rs 100.00" as "10000"
- Sort results by ascending = A..Z,0..9 or oldest..newest descending = Z..A,9..0 or newest..oldest
- This message can be modified by editing the query_hints section of inquiry_en_US_Cheque.properties file in your cheque-inquiry brand.

Field Name	Field Details
Session Date: *	Fill required date for which data required(* shows mandatory field)
SessionNumber:	Presentment Session no
R_SessionNumber:	Return Session no
Account:	Account number of customer
Amount:	Fill amount
CheckNumber:	Fill cheque number for which data required
TranCode:	Fill transaction code
ISN:	User has to fill Item sequence number
PayorBankNumber:	User has to fill Payor Bank Number
PayorBranch:	Fill Payor Branch
PresentingBankNumber:	Fill Presenting Bank Number
ReturnDate:	User has to fill Return Date
ReturnType:	User has to fill this according to required data.This can be RRF,EXTENSION and CH_WEB
ReturnReasonCode:	User has to fill Return reason code
Item Status:	User has to fill 0 for normal cheques and 9 for duplicate MICR data
UserField1:	User has to give payee name
P_Clearing_Type:	User has to give clearing type of CTS or Non CTS
UPDATE_NO:	User has to fill 1 if extension is given otherwise it will be 0.
Clearing House Identifier:	If this field will empty then it will fetch data from all three grids. User have to give 1 for Northern Grid,2 for Southern Grid and 3 for Western grid.

Fill the fields according to required query:



Enter a value (From) or a range of values (From and To)
(* indicates a required field)

	From	To
SessionDate: *	17/04/2014	17/04/2014
SessionNumber:	1	1
R_SessionNumber:		
Account:		
Amount:	100	100000
CheckNumber:		
TranCode:		
ISN:		
PayorBankNumber:		
PayorBranch:		
PresentingBankNumber:		
ReturnDate:	DDMMYYYY	DDMMYYYY
ReturnType:		
ReturnReasonCode:		
ItemStatus:		
UserField1:		
R_Clearing_Type:		
UPDATE_NO:		
ClearingHouseIdentifier:	2	2

Sort results by: SessionDate asc

Submit Query Clear

Hints and Tips

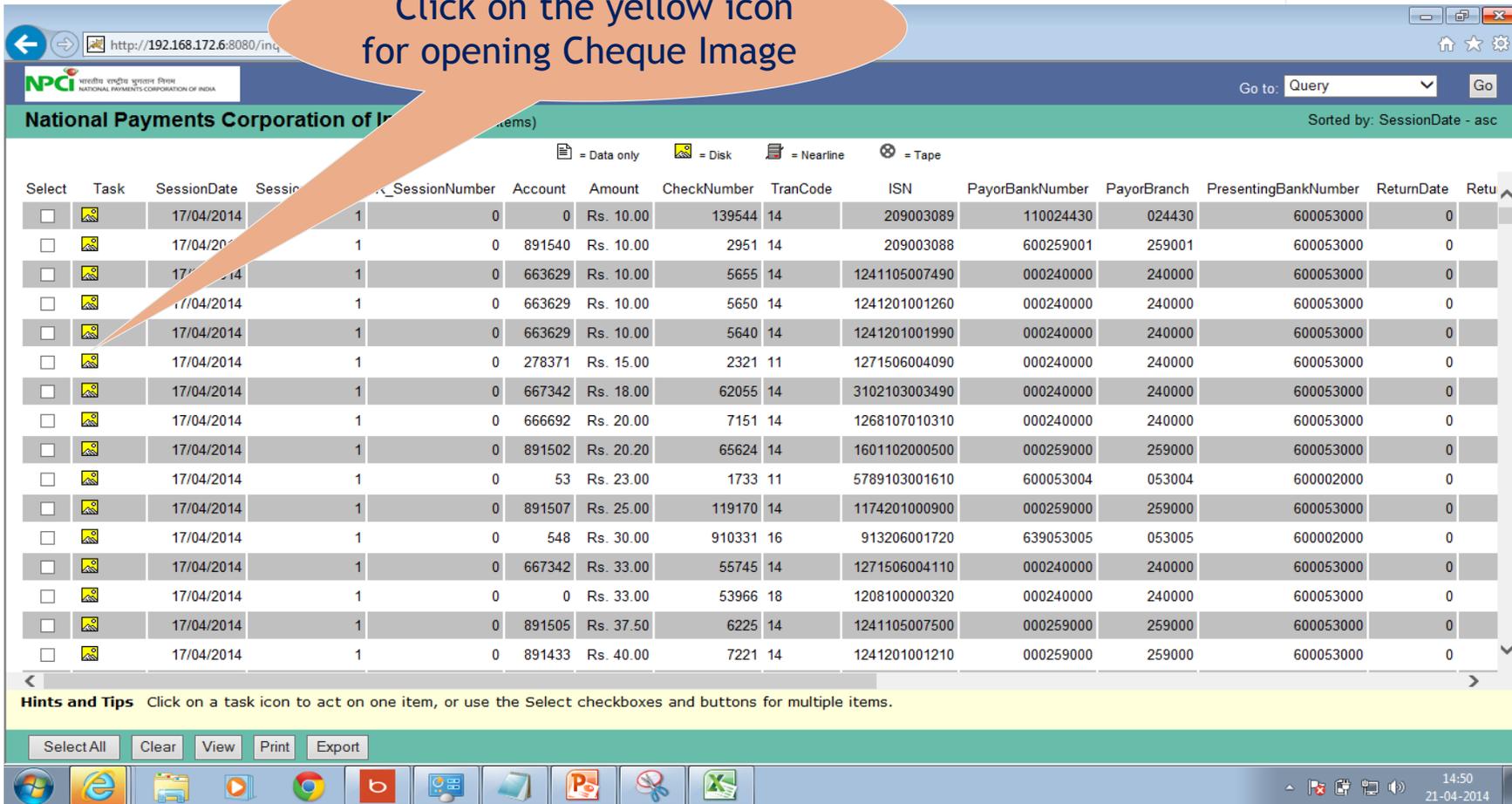
- Session Date (required) enter as either:
 - single date (DDMMYYYY) or
 - range of dates in "from" "to" fields.
- Other fields (required) enter one or all of these Five fields (UDK, UPDATE_NO, Amount, CheckNumber, PayorBankNumber) with Session Date to narrow the search.
- Amount enter "Rs 100.00" as "10000"
- Sort results by ascending = A..Z,0..9 or oldest..newest descending = Z..A,9..0 or newest..oldest
- This message can be modified by editing the query_hints section of inquiry_en_US_Cheque.properties file in your cheque-inquiry brand.

inquiry_en_US_Cheque.properties file in your cheque-inquiry brand.

After entering fields click on Submit query

Query Result Screen:

Click on the yellow icon for opening Cheque Image



The screenshot displays the NPCI National Payments Corporation of India Query Result Screen. The browser address bar shows the URL <http://192.168.172.6:8080/inq>. The page title is "National Payments Corporation of India (Items)". The search criteria is "Query" and the results are sorted by "SessionDate - asc".

The table contains the following columns: Select, Task, SessionDate, SessionNumber, Account, Amount, CheckNumber, TranCode, ISN, PayorBankNumber, PayorBranch, PresentingBankNumber, ReturnDate, and ReturnCode. Each row represents a transaction with a yellow icon in the Task column, which is highlighted by a callout bubble.

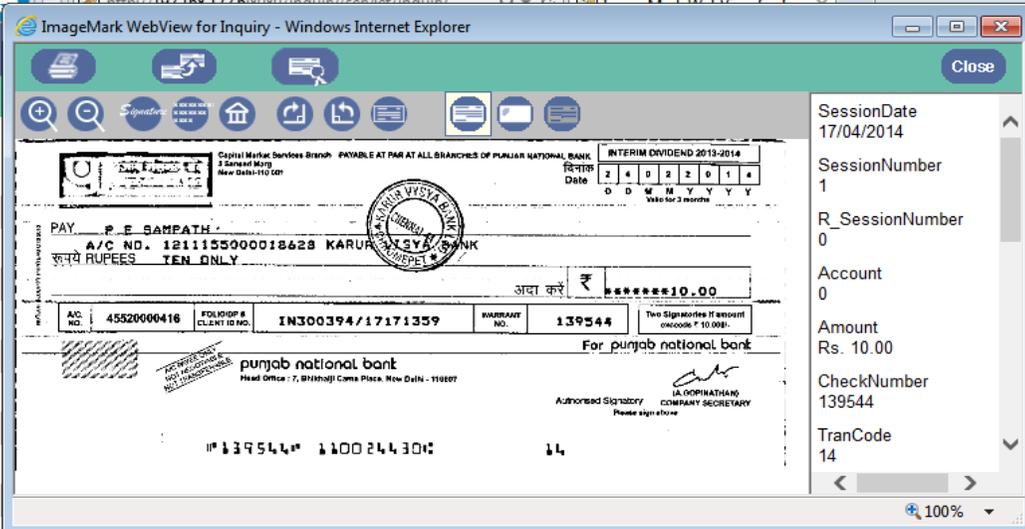
Select	Task	SessionDate	SessionNumber	Account	Amount	CheckNumber	TranCode	ISN	PayorBankNumber	PayorBranch	PresentingBankNumber	ReturnDate	ReturnCode
<input type="checkbox"/>		17/04/2014	1	0	Rs. 10.00	139544	14	209003089	110024430	024430	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	891540	Rs. 10.00	2951	14	209003088	600259001	259001	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	663629	Rs. 10.00	5655	14	1241105007490	000240000	240000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	663629	Rs. 10.00	5650	14	1241201001260	000240000	240000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	663629	Rs. 10.00	5640	14	1241201001990	000240000	240000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	278371	Rs. 15.00	2321	11	1271506004090	000240000	240000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	667342	Rs. 18.00	62055	14	3102103003490	000240000	240000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	666692	Rs. 20.00	7151	14	1268107010310	000240000	240000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	891502	Rs. 20.20	65624	14	1601102000500	000259000	259000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	53	Rs. 23.00	1733	11	5789103001610	600053004	053004	600002000	0	0
<input type="checkbox"/>		17/04/2014	1	891507	Rs. 25.00	119170	14	1174201000900	000259000	259000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	548	Rs. 30.00	910331	16	913206001720	639053005	053005	600002000	0	0
<input type="checkbox"/>		17/04/2014	1	667342	Rs. 33.00	55745	14	1271506004110	000240000	240000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	0	Rs. 33.00	53966	18	1208100000320	000240000	240000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	891505	Rs. 37.50	6225	14	1241105007500	000259000	259000	600053000	0	0
<input type="checkbox"/>		17/04/2014	1	891433	Rs. 40.00	7221	14	1241201001210	000259000	259000	600053000	0	0

Hints and Tips Click on a task icon to act on one item, or use the Select checkboxes and buttons for multiple items.

Buttons: Select All, Clear, View, Print, Export

System tray: 14:50, 21-04-2014

Front B/W Image:



Go to:

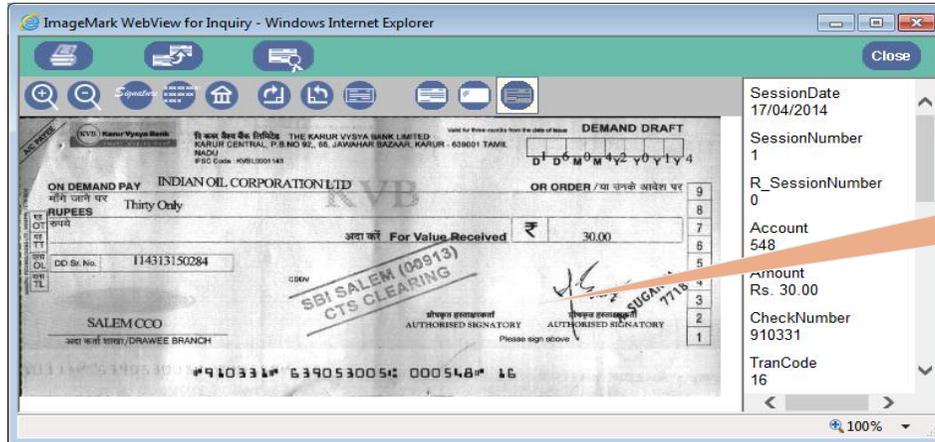
Sorted by: SessionDate - asc

ISN	PayorBankNumber	PayorBranch	PresentingBankNumber	ReturnDate	Retu
209003089	110024430	024430	600053000	0	
209003088	600259001	259001	600053000	0	
1105007490	000240000	240000	600053000	0	
1201001260	000240000	240000	600053000	0	
1201001990	000240000	240000	600053000	0	
1506004090	000240000	240000	600053000	0	
2103003490	000240000	240000	600053000	0	
8107010310	000240000	240000	600053000	0	
1102000500	000259000	259000	600053000	0	
9769103001610	600053004	053004	60002000	0	
1174201000900	000259000	259000	600053000	0	
639053005	053005	60002000	0		
1271506004110	000240000	240000	600053000	0	
1208100000320	000240000	240000	600053000	0	
1241105007500	000259000	259000	600053000	0	
1241201001210	000259000	259000	600053000	0	

Hints and Tips Click on a task icon to act on one item, or use the Select checkboxes and buttons for multiple items.

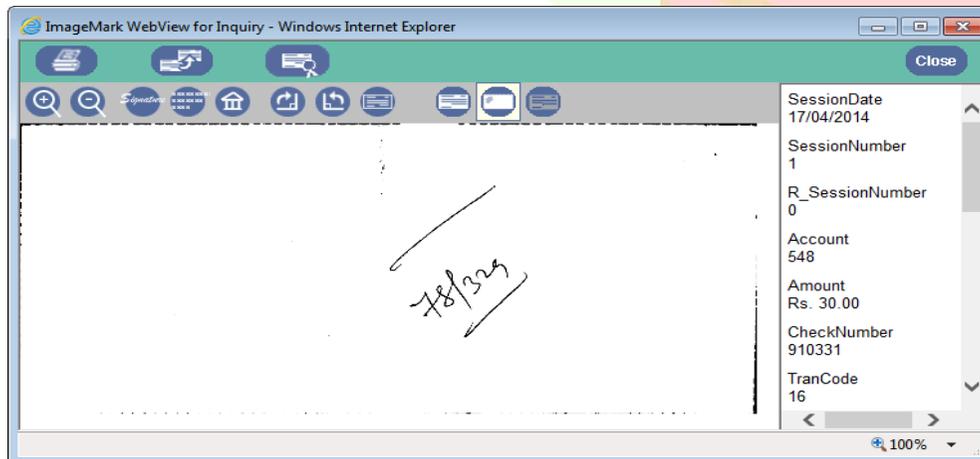
Select All Clear View Print Export

Front Grey Image:



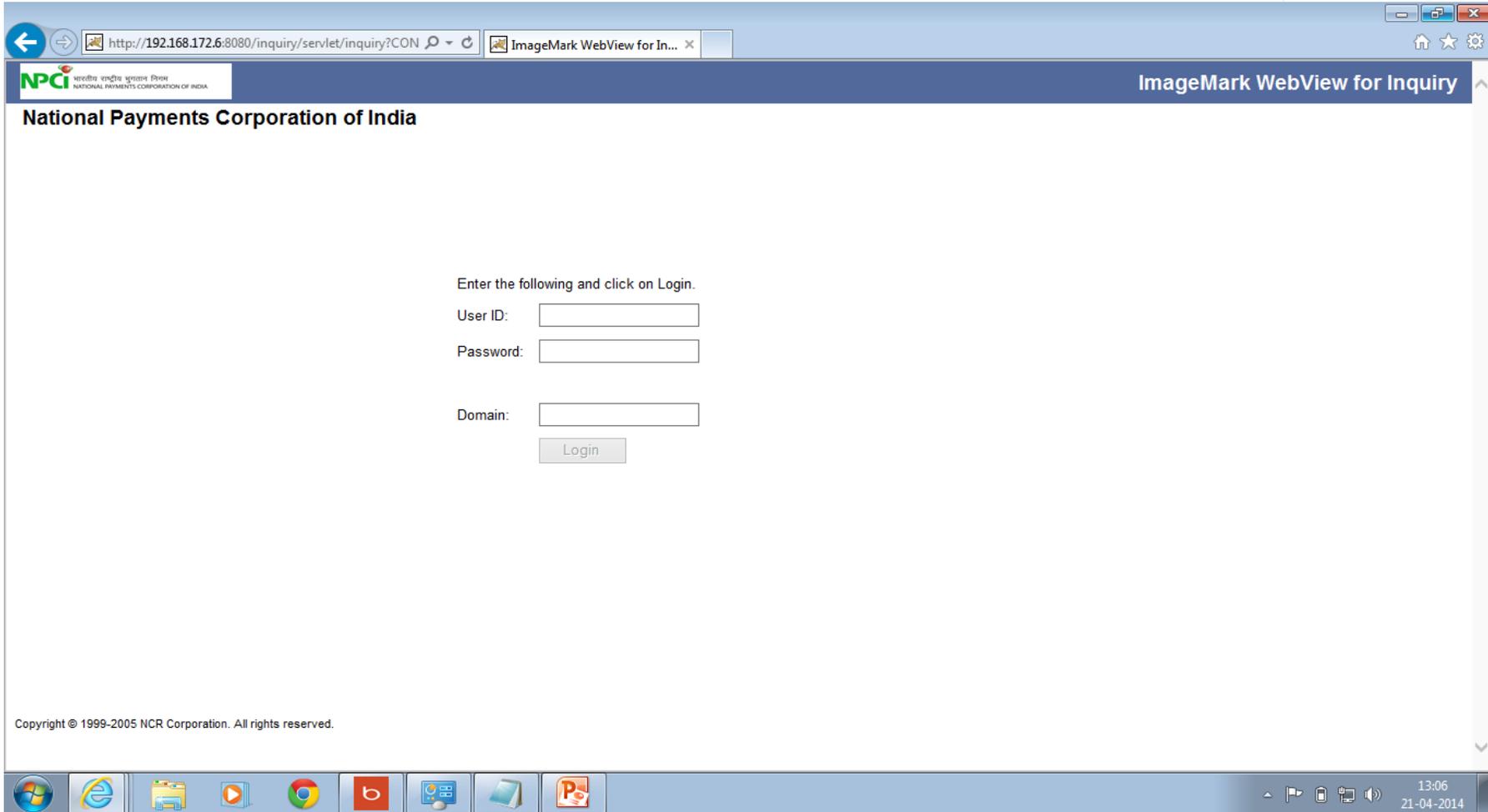
Right click on the image and save the image of the cheque

Back B/W Image:



Retrieval of Reports

Login Page:



http://192.168.172.6:8080/inquiry/servlet/inquiry?CON

ImageMark WebView for Inquiry

NPCI नॅशनल पेमेंट्स कॉर्पोरेशन ऑफ इंडिया
NATIONAL PAYMENTS CORPORATION OF INDIA

ImageMark WebView for Inquiry

National Payments Corporation of India

Enter the following and click on Login.

User ID:

Password:

Domain:

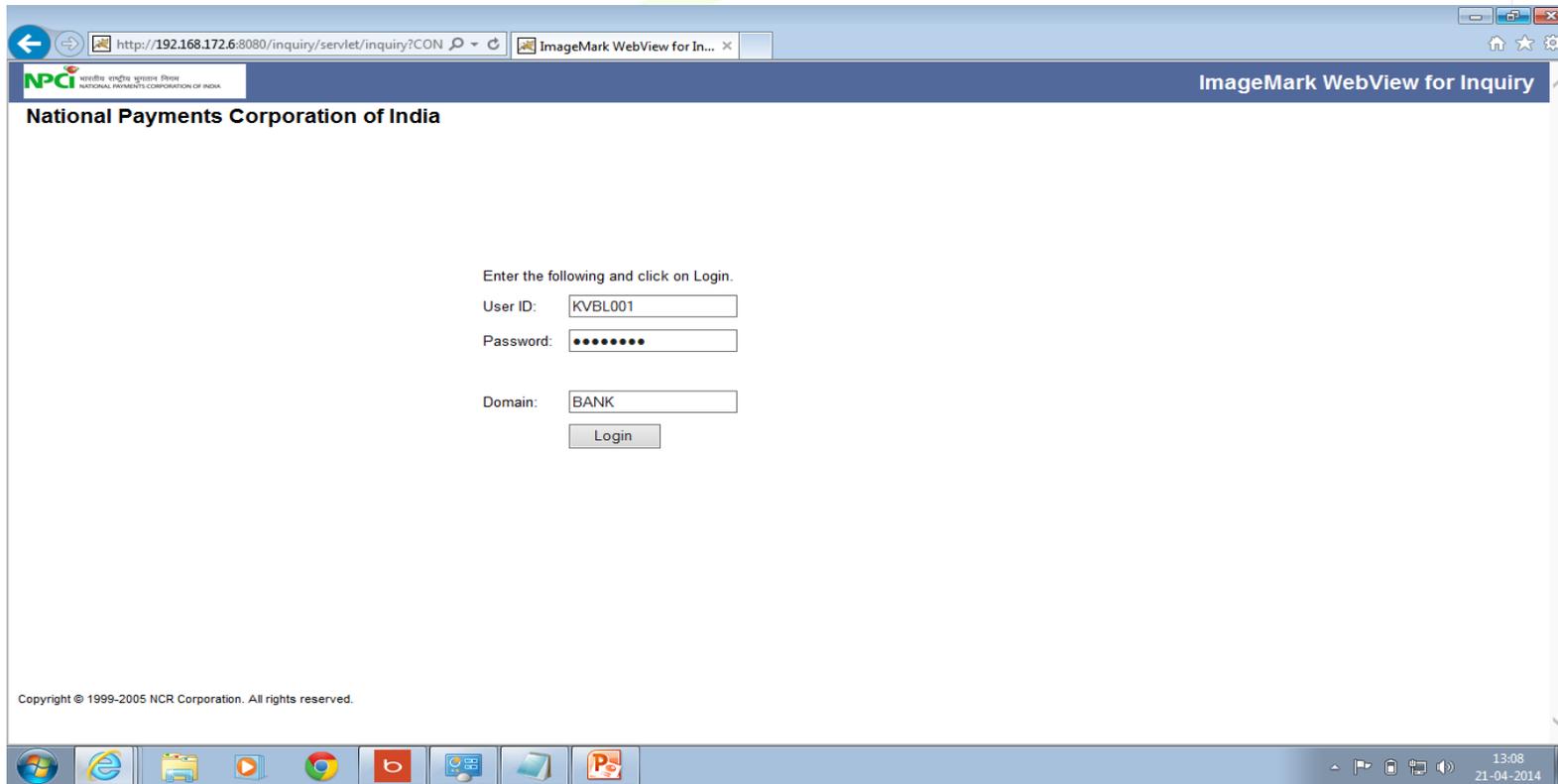
Login

Copyright © 1999-2005 NCR Corporation. All rights reserved.

13:06
21-04-2014

Enter Credentials provided:

- User ID
- Password
- Domain: BANK (default)



Enter the following and click on Login.

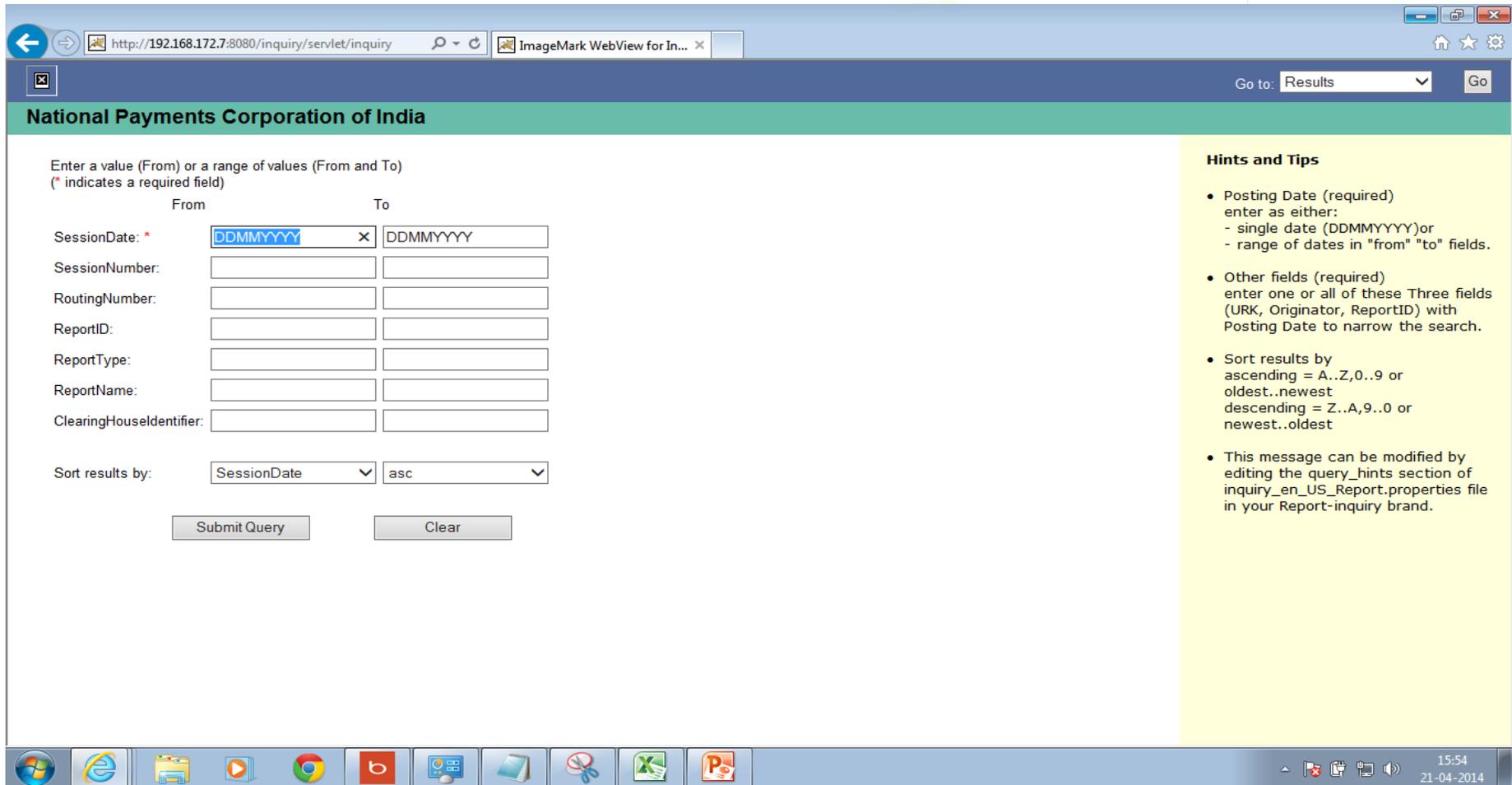
User ID:

Password:

Domain:

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Query Screen:



Enter a value (From) or a range of values (From and To)
(* indicates a required field)

	From	To
SessionDate: *	<input type="text" value="DDMMYYYY"/>	<input type="text" value="DDMMYYYY"/>
SessionNumber:	<input type="text"/>	<input type="text"/>
RoutingNumber:	<input type="text"/>	<input type="text"/>
ReportID:	<input type="text"/>	<input type="text"/>
ReportType:	<input type="text"/>	<input type="text"/>
ReportName:	<input type="text"/>	<input type="text"/>
ClearingHouseIdentifier:	<input type="text"/>	<input type="text"/>

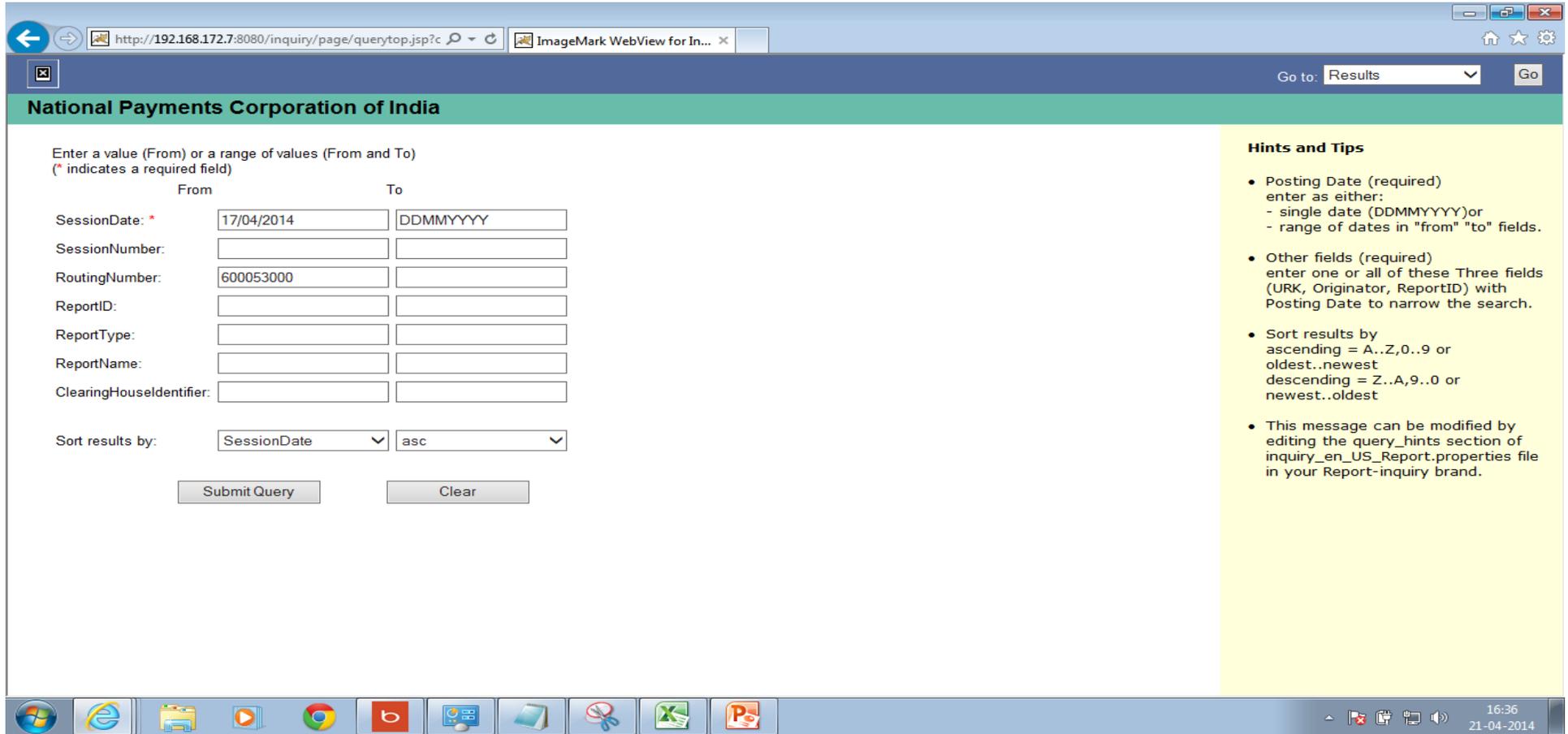
Sort results by:

Hints and Tips

- Posting Date (required) enter as either:
- single date (DDMMYYYY) or
- range of dates in "from" "to" fields.
- Other fields (required) enter one or all of these Three fields (URK, Originator, ReportID) with Posting Date to narrow the search.
- Sort results by
ascending = A..Z,0..9 or oldest..newest
descending = Z..A,9..0 or newest..oldest
- This message can be modified by editing the query_hints section of inquiry_en_US_Report.properties file in your Report-inquiry brand.

Field Name	Field Details
Session Date: *	Fill required date for which data required(* shows mandatory field)
Session Number:	User have to give according to required query
Routing Number:	User have to fill their CHI routing number
ReportID:	User can fill Report ID
ReportName:	User can fill Report Name
ClearingHouseIdentifier:	If this field will empty then it will fetch data from all three grids. User have to give 1 for Northern Grid,2 for Western Grid and 3 for southern grid.

Fill the fields according to required query:



Enter a value (From) or a range of values (From and To)
(* indicates a required field)

	From	To
SessionDate: *	17/04/2014	DDMMYYYY
SessionNumber:		
RoutingNumber:	600053000	
ReportID:		
ReportType:		
ReportName:		
ClearingHouseIdentifier:		

Sort results by: SessionDate (dropdown) asc (dropdown)

Submit Query Clear

Hints and Tips

- Posting Date (required)
enter as either:
- single date (DDMMYYYY) or
- range of dates in "from" "to" fields.
- Other fields (required)
enter one or all of these Three fields (URK, Originator, ReportID) with Posting Date to narrow the search.
- Sort results by
ascending = A..Z,0..9 or
oldest..newest
descending = Z..A,9..0 or
newest..oldest
- This message can be modified by editing the query_hints section of inquiry_en_US_Report.properties file in your Report-inquiry brand.

After entering fields click on “Submit Query”

Report Page:

Save Report

ImageMark WebView for Inquiry

Close

Item information:

SessionDate	SessionNumber	RoutingNumber	ReportID	ReportType	ReportName	ClearingHouseID
17/04/2014	99999	600053000	N2	VIEW	Clearing Items Extension List	2

2 / 2 53.2% Find

Report ID : N2
Clearing Date : 17/04/2014
Clearing Type : Local
Frequency : Daily
Destination : 570837000

Clearing Items Extension List

Bank Name : KARUR VYSYA BANK LTD. - 600053000

Bank Code	Item Sequence No	Drawee Code	Cheque No	Account No	Trans Code	Amount (INR)	Extn Reason	Extn Duration (hours)
EXTENSION RECEIVED								
600053000	01307201000560	570837002	039502	000000	29	1,805.00	Extension on Banks Request	24
600053000	01307204000920	570837002	039349	000000	29	768.00	Extension on Banks Request	24
600053000	01311102000180	591483583	012731	000000	10	49,932.00	Extension on Banks Request	24
600053000	01311102000190	591483583	012518	000000	10	49,932.00	Extension on Banks Request	24
600053000	01312502002900	560288002	060403	000000	10	2,40,201.00	Extension on Banks Request	24
600053000	01312502003580	560267002	614957	000000	10	50,000.00	Extension on Banks Request	24
600053000	01312507009230	560446005	003377	000000	10	1,00,200.00	Extension on Banks Request	24
600053000	01312507009240	560446005	003378	000000	10	1,00,200.00	Extension on Banks Request	24
600053000	01312508011260	560574002	787906	000000	11	1,00,000.00	Extension on Banks Request	24
600053000	01312516020830	560267005	651776	000000	10	9,372.00	Extension on Banks Request	24
600053000	01312516022060	560574005	961254	000000	11	1,161.00	Extension on Banks Request	24
600053000	01312516022340	560574003	977328	000000	11	21,845.00	Extension on Banks Request	24
600053000	01312518026180	560267003	400281	000000	11	1,117.00	Extension on Banks Request	24
600053000	01312518026190	560446003	003321	000000	10	15,000.00	Extension on Banks Request	24
600053000	01312802001510	560269002	267958	053576	11	34,685.00	Extension on Banks Request	24

Total Items - 16
Total Amount - 7,78,218.00

For any queries, you may get in touch with your respective RMs and/or you can mail us directly at cts@npci.org.in

A large graphic consisting of a light pink circle in the center. Overlaid on this circle are two curved, overlapping lines: a light green one that starts from the left and curves upwards and then downwards, and a light yellow one that starts from the left and curves downwards. The text 'Thank You' is written in a bold, dark blue, sans-serif font across the middle of the pink circle.

Thank You