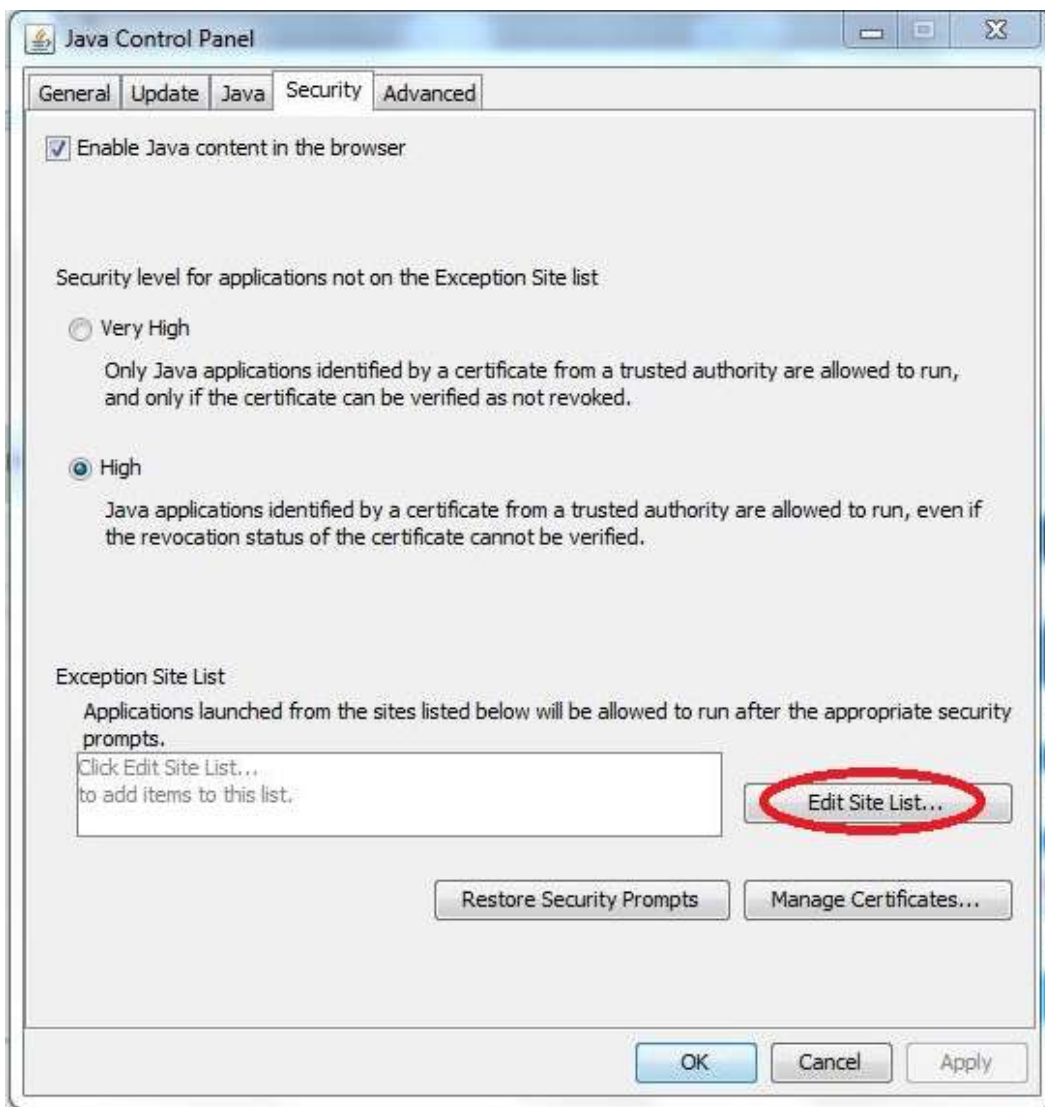
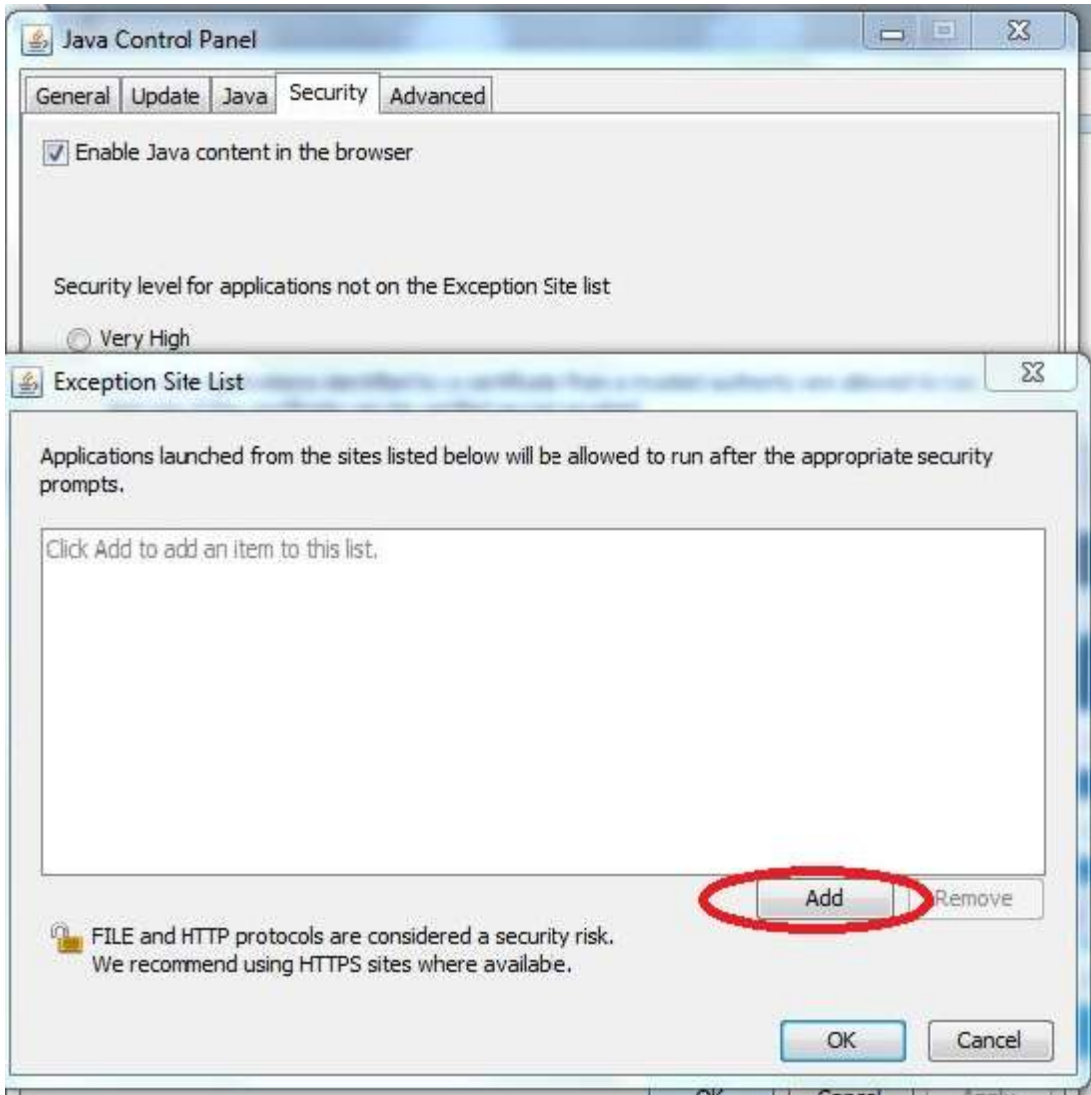


## Steps for Applying Digital Signature

### System Requirements:

1. Mozilla Firefox (**32 bit**) browser – [click here to download firefox 48.0.2](#)
2. JRE (32 bit) 1.6 update 29 or above, 1.7 or 1.8 – [click here to download jre 1.8 update 121](#)
3. Only Java/JRE 32 bit should be used even if operating system is 64 bit
4. DSC drivers must be already installed in the PC.
5. For Windows machine, After installing JRE, Add site url (http://rr.kerala.gov.in) in Exception Site List of Security Tab in Java Control Panel (Start -> Programs -> Java -> Configure Java)

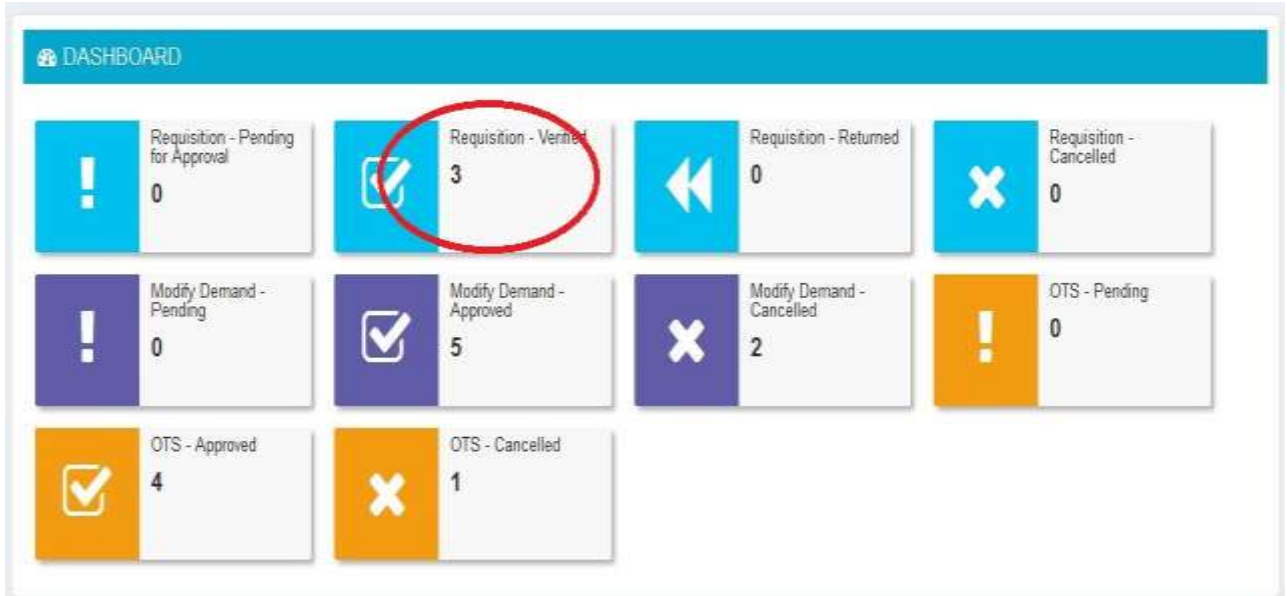






## Steps for DSC registration and Form Signing:

1. Click **Verified list** from Dash board.



2. Click **view form / Apply Dsc** button from the list.

Requisition List

Pending Requisitions 0 | Verified Requisitions 5 | Returned Requisitions 0 | Cancelled Requisitions 0

Verified Requisitions

10 records per page

| Sl No. | Year | Verified Date | RR No. | Ref. File No. | Ref. File Date | A/c No.  | Principal Amount | Amount Due | Name of principal Defaulter | View Form24 Apply Dsc | Cancel Form 24 |
|--------|------|---------------|--------|---------------|----------------|----------|------------------|------------|-----------------------------|-----------------------|----------------|
| 1      | 2017 | 11-04-2017    | 5      | 001           | 11-04-2017     | 123      | 25000            | 28000      | Manju                       | <b>Apply Dsc</b>      | Cancel         |
| 2      | 2017 | 10-04-2017    | 1      | 2017/klmv01   | 10-04-2017     | 2356     | 30000            | 31447      | Anil                        | View form 24          |                |
| 3      | 2017 | 10-04-2017    | 2      | 002356        | 10-04-2017     | 12345678 | 50000            | 62587      | Dinil                       | View form 24          |                |
| 4      | 2017 | 10-04-2017    | 3      | 002356        | 10-04-2017     | 12345678 | 25000            | 34168      | Adarsh                      | View form 24          |                |
| 5      | 2017 | 10-04-2017    | 4      | 11232         | 10-04-2017     | 123654   | 24000            | 25920      | Paul                        | View form 24          |                |

Showing 1 to 5 of 5 entries

Previous 1 Next

3. DSC needs to be registered once before using in RROnline Portal.  
If your dsc is not registered then the following screen will appear.  
Insert smartcard/USB key and click the **Register** button

RRC : 2017/5/02 Form 24

Unsigned Form 24 Apply Digital Signature Signed Form 24 Confirm & Forward

**DSC needs to be registered once before using in RROnline Portal.**

Insert Smartcard/USB Key for DSC registration..

- Click To Register -

4. If appropriate library files (.dll or .so) are available in the system, it will be automatically detected and system will prompt for dsc pin code.

RRC : 2017/5/02 Form 24

Unsigned Form 24 Apply Digital Signature Signed Form 24 Confirm & Forward

**DSC needs to be registered once before using in RROnline Portal.**

Insert Smartcard/USB Key for DSC registration..

Processing...

Digital Signature - RROnline

Please select your PKCS#11 implementation library file(.dll / .so):

C:\Windows\System32\cryptsp1.dll Browse

Enter PIN Code:

Sign Cancel

5. Enter pin code to proceed. If the implementation library file path is not appearing, browse and provide the appropriate path of .dll / .so file.

- For Windows the file will be in Windows\SysWOW64" or

"WINDOWS\system32" or "WINNT\system32"

- For Linux machine the file will be in /usr/local/lib/ or /usr/lib/

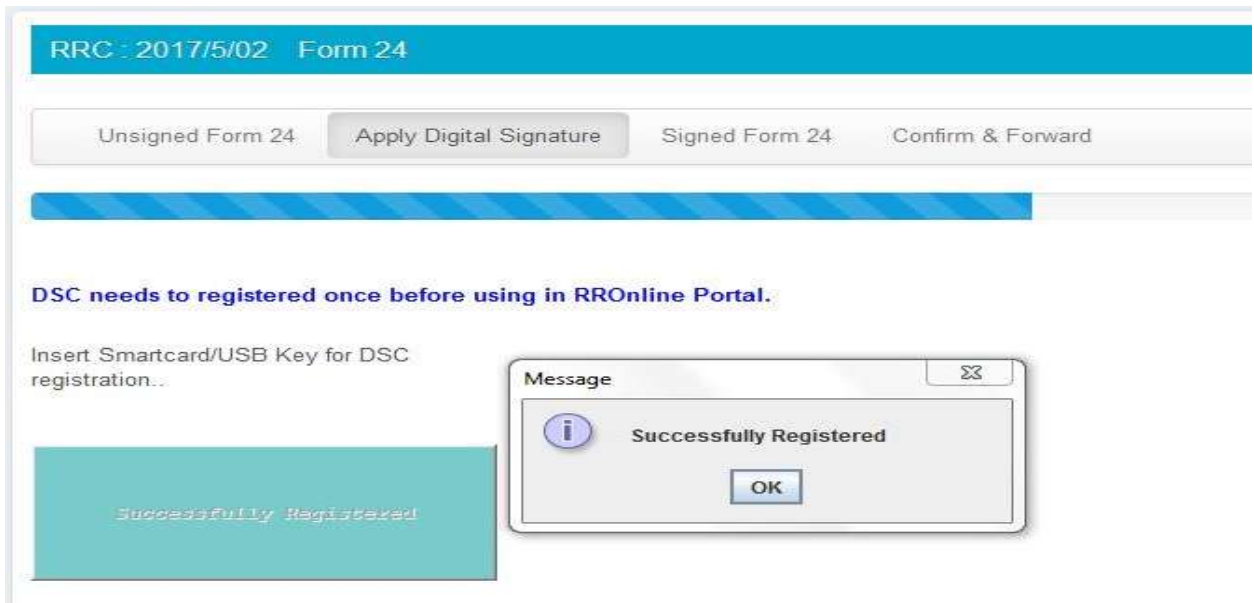
Selection of appropriate driver path (.dll / .so file) needs to be done once only.

Listed below are few DSC dll's

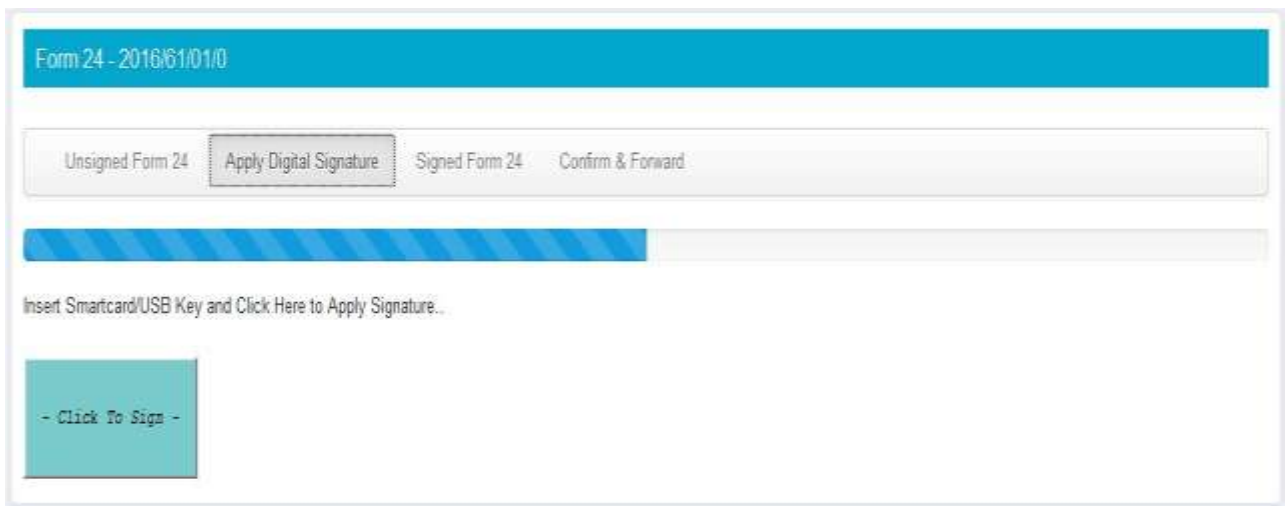
| DSC Type                 | Library file (Windows)  | Library file (Linux)  |
|--------------------------|---|---|
| SafeSign                 | aetpkss1.dll  | aetpkss1.so   |
| eMudhra                  | eMudhra\eMudhra CSP V1.0\wdpkcs.dll   | 1. WatchData/eMudhra_3.4.3/lib/libpkcs11wrapper.so<br>2. WatchData/eMudhra_3.4.3/lib/libwdpkcs_eMudhra_343.so |
| TRUST KEY                | 1. TRUST KEY\TRUST KEY CSP V1.0\wdpkcs.dll<br>2. C:\Windows\System32\TRUSTKEYP11_ND_v34.dll | 1.WatchData/TRUSTKEY/lib/libpkcs11wrapper.so<br>2. WatchData/TRUSTKEY/lib/libwdpkcs_TRUSTKEY.so               |
| Belgium eID MiddleWare   | beidpkcs11.dll  | beidpkcs11.so   |
| Gemalto Cryptocard token | libgtop11dotnet.dll   | libgtop11dotnet.so  |
| EPass                    | eps2003csp11.dll  |   |
| Aladdin e token          | eTPKCS11.dll  |   |
| Safe net I key           | dkck201.dll   |   |
| Starkey                  | aetpkss1.dll  |   |
| Watchdata PROXkey        | SignatureP11.dll  | Watchdata/Proxkey/lib/libwdpkcs_SignatureP11.so   |

(Note: DSC supplier can be contacted for identifying appropriate dll for your dsc)

6. On completion the following screen will be displayed and you can continue with form signing



7. On selecting **Apply Digital Signature** tab, below screen will be displayed. Insert the smart card and click on “**Click To Sign**” button.



8. Applying digital signature may lead to some pop up messages containing security warnings as shown below. Please act according to the messages (**Allow, Run and Don't Block**) to continue signing process.



Unsigned Form 24

Insert Smartcard/USB K



Security Warning

**Do you want to run this application?**

 **Name:** RROnline  
**Publisher:** UNKNOWN  
**Location:** http://localhost

**Running this application may be a security risk**

**Risk:** This application will run with unrestricted access which may put your computer and personal information at risk. The information provided is unreliable or unknown so it is recommended not to run this application unless you are familiar with its source

[More Information](#)

Select the box below, then click Run to start the application

I accept the risk and want to run this application.


Unsigned Form

Insert Smartcard/US

Signing, Wait.

Security Warning

**Do you want to run this application?**

 **An unsigned application from the location below is requesting permission to run.**  
**Location:** http://localhost

[More Information](#)

Click **Cancel** to stop this app or **Run** to allow it to continue.





9. Enter pin code to proceed. If the implementation library file path is not appearing, browse and provide the appropriate path of .dll / .so file.
  - For Windows the file will be in Windows\SysWOW64" or "WINDOWS\system32" or "WINNT\system32"
  - For Linux machine the file will be in /usr/local/lib/ or /usr/lib/

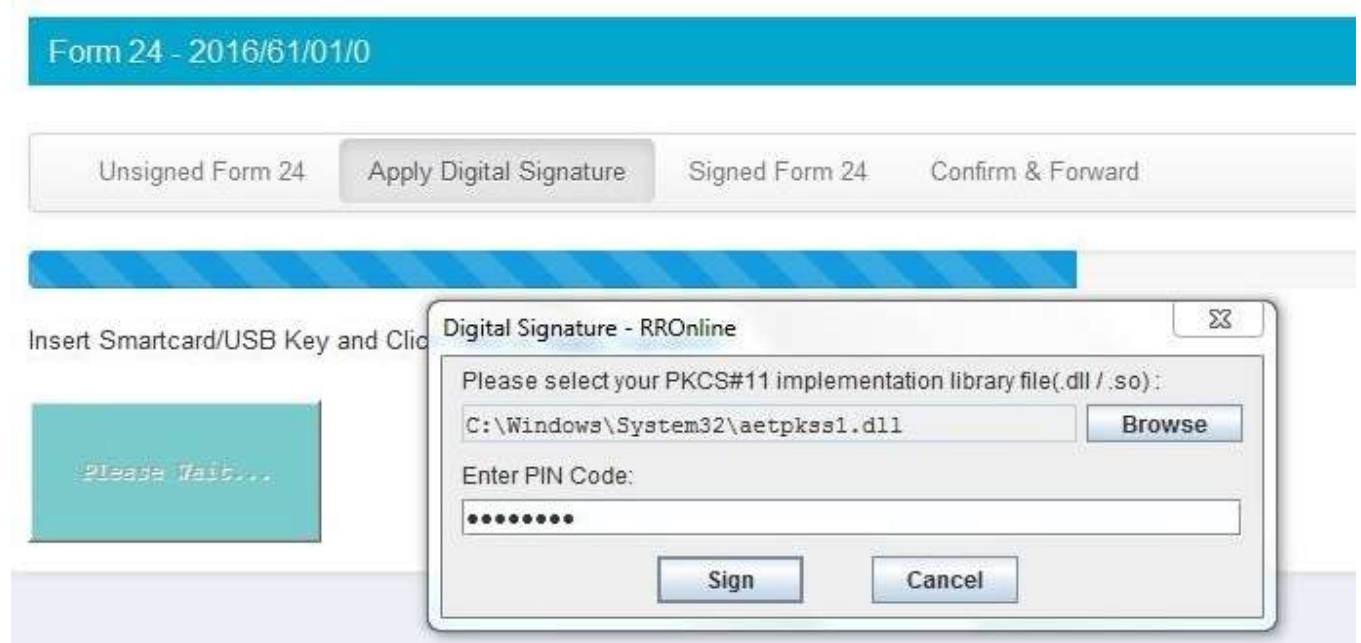
Selection of appropriate driver path (.dll / .so file) needs to be done once only.

Listed below are few DSC dll's

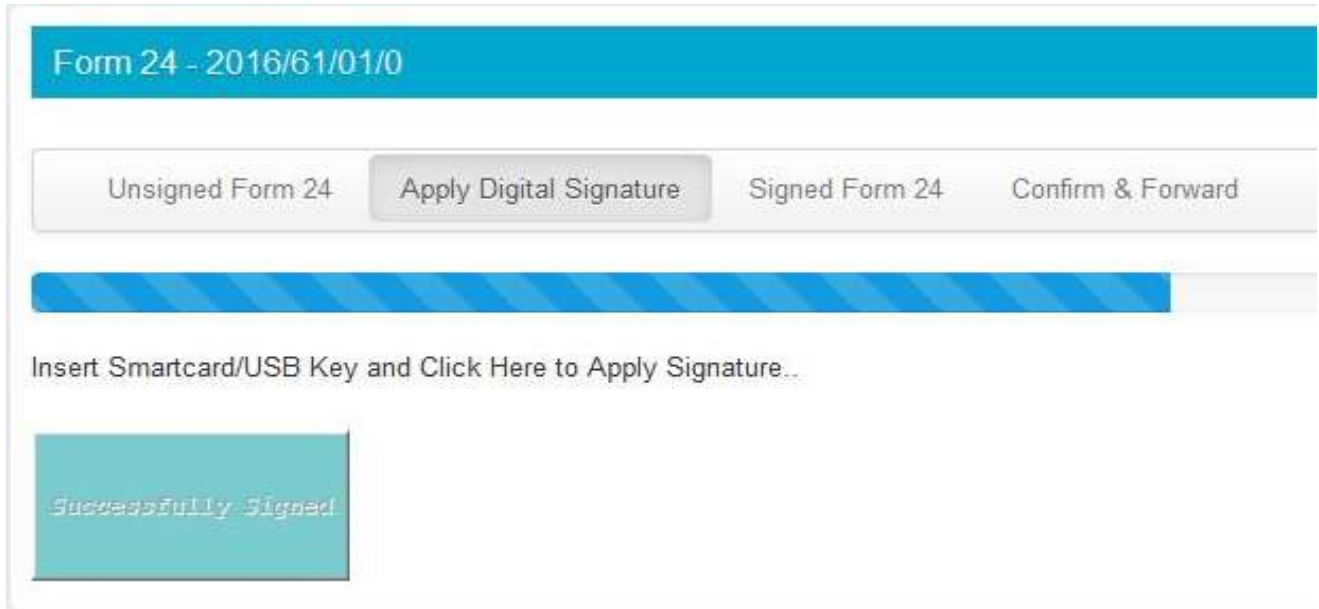
| DSC Type               | Library file (Windows)                  | Library file (Linux)  |
|------------------------|---|---|
| SafeSign               | aetpkcs1.dll                            | aetpkcs1.so   |
| eMudhra                | eMudhra\eMudhra CSP V1.0\wdpkcs.dll     | WatchData/eMudhra_3.4.3/lib/libpkcs11wrapper.so<br>WatchData/eMudhra_3.4.3/lib/libwdpkcs_eMudhra_343.so |
| TRUST KEY              | TRUST KEY\TRUST KEY CSP V1.0\wdpkcs.dll | WatchData/TRUSTKEY/lib/libpkcs11wrapper.so<br>WatchData/TRUSTKEY/lib/libwdpkcs_TRUSTKEY.so              |
| Belgium eID MiddleWare | beidpkcs11.dll                          | beidpkcs11.so   |

|                          |                     |   |
|--------------------------|---------------------|---|
| Gemalto Cryptocard token | libgtop11dotnet.dll | libgtop11dotnet.so                              |
| EPass                    | eps2003csp11.dll    |   |
| Aladdin e token          | eTPKCS11.dll        |   |
| Safe net I key           | dkck201.dll         |   |
| Starkey                  | aetpkss1.dll        |   |
| Watchdata PROXkey        | SignatureP11.dll    | Watchdata/Proxkey/lib/libwdpkcs_SignatureP11.so |

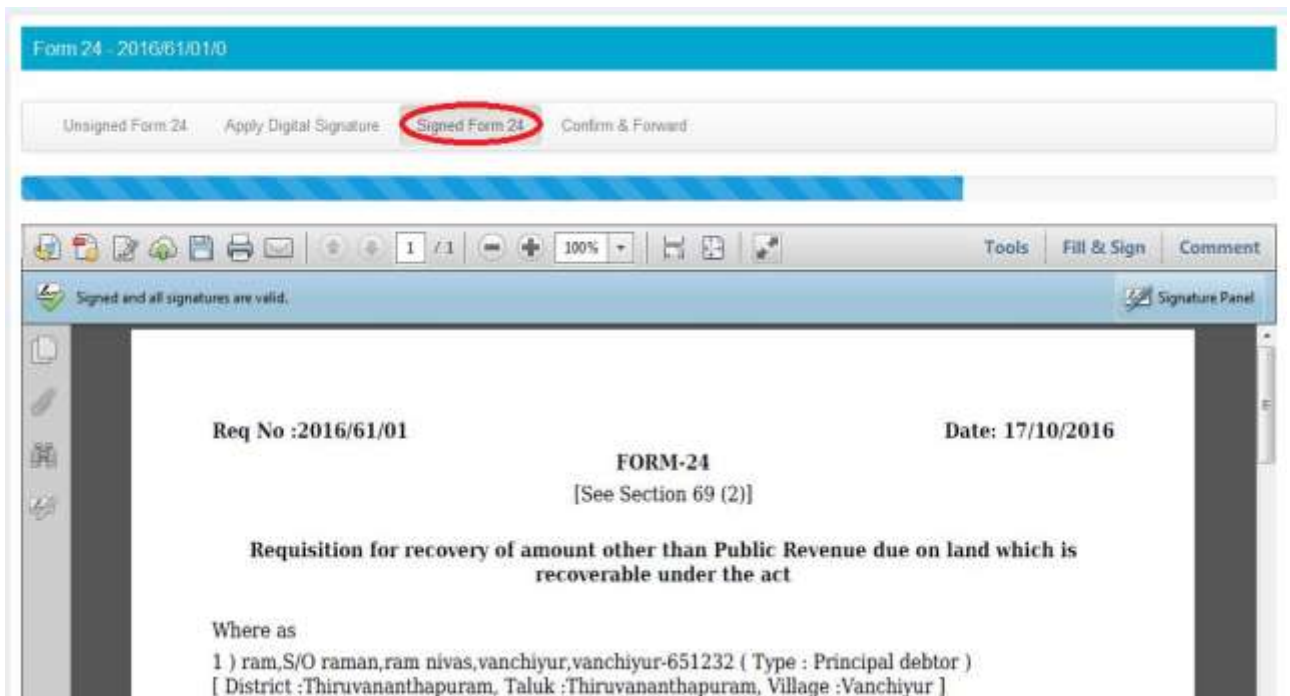
( Note : DSC supplier can be contacted for identifying the appropriate dll for your dsc )



10. After verification of pin code, the certificate will be signed successfully.



11. Signed certificate can be viewed / downloaded on selecting “Signed form” tab.



**To view Digitally Signed Certificate in browser, configure Firefox as shown below**

Select options → Applications → type “pdf” in search bar and select “Use Adobe Acrobat (in Firefox)”

