Background

Central TB division has now provided the function in Nikshay to directly upload CBNAAT results to Nikshay. The results need to be exported in bulk from the CBNAAT machine and uploaded to Nikshay on a daily basis.

Once uploaded, the test details and the performance of the site are visible through a calendar based report with the details on number of tests performed, MTB detected/not detected and Rif sensitive/resistant patients.

Who should upload CBNAAT Test?

PHIs with CBNAAT facilities will be provided with the ability to upload CBNAAT test details to Nikshay. The Lab technician responsible for reporting results of CBNAAT tests will be responsible for uploading CBNAAT results on to Nikshay.

What are the requirement prior to uploading the test results?

The CBNAAT facility needs to be mapped in the respective PHI in Nikshay. If not already done, the same may be done through User Management Module or raising a request for the same in Nikshay. Broadband Internet connection in the Desktop linked to the CBNAAT machine would be mandatory. The user may also use the option of uploading through Tablet or transferring the file to another Desktop with a working broadband connection in the above order of preference.

What should be uploaded?

The machine generated export of results from the CBNAAT machine, which is available in CSV (Comma Separated Values) file format is to be uploaded against the PHI in which the CBNAAT laboratory is situated. The export should include all tests done irrespective of final result (including error, invalid and indeterminate results).

What is the frequency at which tests should be uploaded?

CBNAAT test details should be uploaded at least once every day, either at the beginning or end of business, regularly. If upload was missed on any day, it should be ensured that all tests done after the previous upload should be included in the next upload.

What will be the details uploaded be used for?

The Test details uploaded will be used to assess the CBNAAT lab performance in terms of tests done, Cartridge consumption; CBNAAT Machine and module utilisation including monitoring of non-functional machines, invalid tests and ambiguous tests; and epidemiological analyses of Drug Resistance etc. Hence, to ensure accurate reporting, it important that all test performed on the machine irrespective of results are uploaded to Nikshay.

Please follow the SOP provided below to upload CBNAAT Tests to Nikshay.

Note:

- 1. All tests done after 01st of December 2018 are to be uploaded.
- 2. Tests are to be uploaded daily to Nikshay. Preferably after the last test has been done for the day.

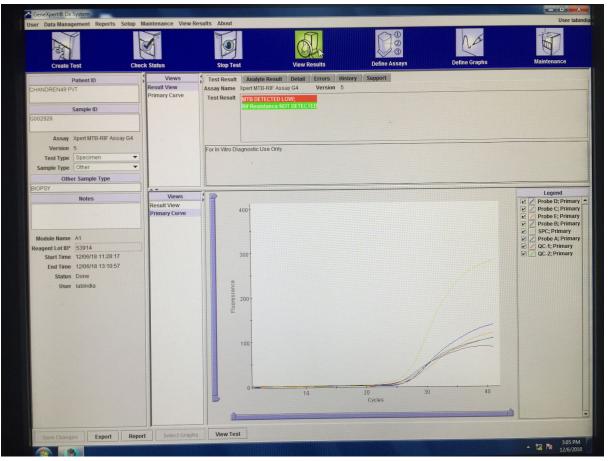
SOP for uploading the CSV File exported from GeneXpert to Nikshay

The SOP has two parts, one in which the data file need to be exported from the GeneXpert Machine and the second step in which this file is uploaded to Nikshay.

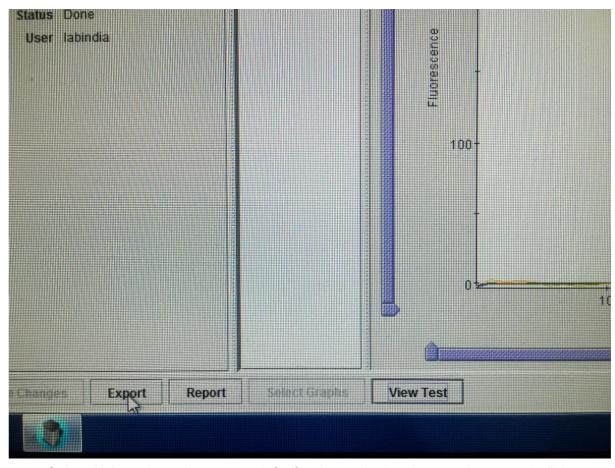
Part 1: Exporting the data from the GeneXpert Software (5 Steps)

1. Open the GeneXpert application and login





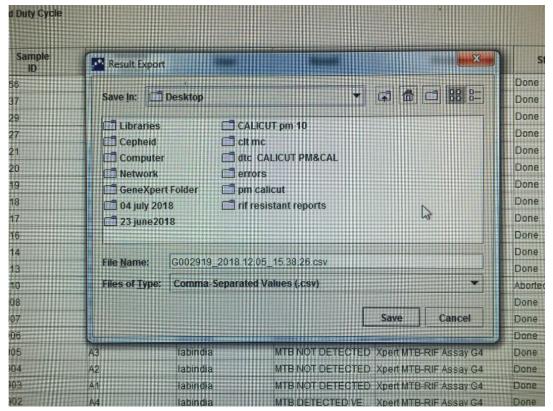
2. Go to **Export** (Bottom left of the screen)



Select (tick mark on the extreme left of each test in the view results screen) all the
tests that need to be exported and click on the export button (top right on the view results
screen).



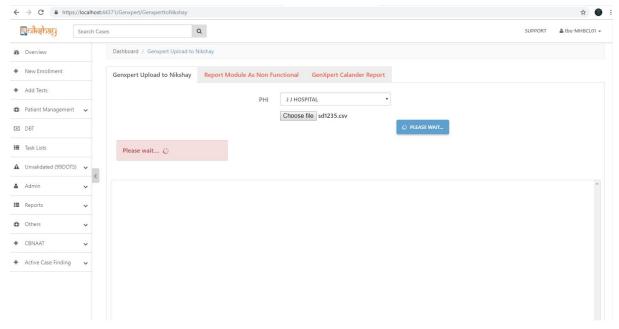
4. In the save in box, select Desktop



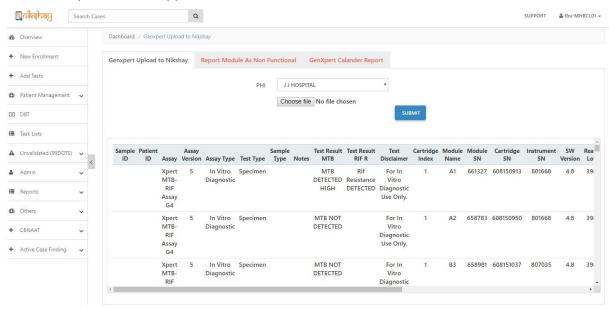
5. In the file name box name the file using the naming format <CBNAATLabName>DDMMYYYY.csv (For example DTCkollam18072018.csv for a file exported from the PHI DTCKollam on the 18th July 2018). No space to be entered when naming the file.

Part 2: Uploading the data into Nikshay (8 Steps)

- 1. Go to the Nikshay website (www.nikshay.gov.in)
- 2. Log in to Nikshay using the login ID and password provided (TU/ PHI level).
- 3. Click on **CBNAAT** on the left-hand menu.
- 4. Select your PHI (The PHI in which the CBNAAT lab is present).
- 5. Click **Choose File** and browse and find the CSV file saved earlier.



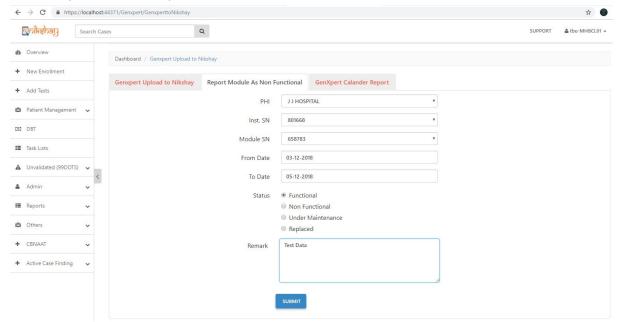
- 6. Click > Upload the GeneXpert CSV file.
- 7. Wait for the file to upload and the **upload successful** message to appear. The tests uploaded will appear in the table below.



8. Facilities having more than one machine need to upload files exported from the all machines separately. They can upload the second file by repeating the above instructions.

Reporting modules as not functional

If no tests are done, because modules are not functional, then this detail need to be updated in Nikshay. A functionality for the same is provided as in the screenshot below.



In case a module is not functional it may be reported using the **Report Module as Non-Functional Button**

On clicking a new box will open up asking further details.

- a. Select the PHI and the instrument and the module serial number.
- b. Select the from and to date for the status
- c. the status of the module.
- d. Click on Save

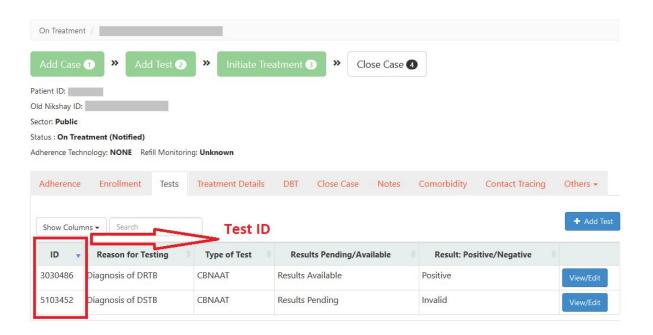
Linking up Patient records in Nikshay and the test records of CBNAAT

In order for Nikshay to identify each CBNAAT test against a person and the test request made, it is necessary that the export from the CBNAAT machine contains the patient and test request information in the exported CSV File. Two fields in the CBNAAT Dx Application; Patient ID and Sample ID will allow us to record this information while performing the test. The following instructions provide details on what should be entered into these two fields while performing the test.

Task by PHIs requesting a test

To ensure the smooth operation of this process it is imperative that all PHIs requiring a CBNAAT test to be done has to perform the following at the time a sample/ Patient is being sent to the CBNAAT lab for testing

- Enrols the patient, requests a test to obtain the Patient ID and the Test ID (from Nikshay)
- 2. Ensure that any documentation (Laboratory form, Falcon Tube label) contains the two IDs along with Patient Name, Age and Sex



Task by Labs performing/ Reporting test results

Obtain the Patient ID and Test ID of the test to be performed from Nikshay or from the PHI requesting the test.

When creating a test on the GeneXpert Dx application, there are two fields provided.

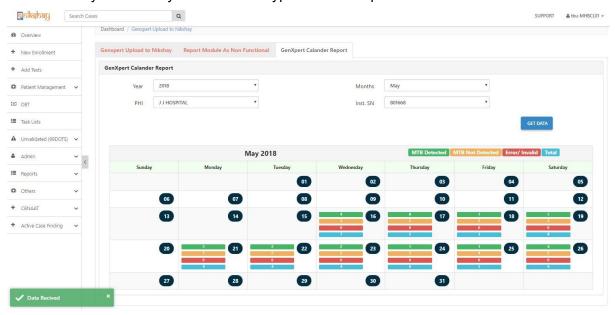
- 1. Patient ID In this field enter the Name; Age; and Sex and any other variable you would like to maintain each separated by a semicolon (;).
- 2. TestID This field is to be reserved for the Nikshay GeneXpert interaction. You need fill in the Nikshay patient ID and test ID which has been provided by the test requesting facility in the format **Patient ID>,<Space><TestID>**. For

example if the patient id is 12343567 and the test ID is 98907, the you need to fill in 1234567, 98907.

Viewing reports based on the data uploaded

Once the tests are uploaded, the following report is available for viewing.

1. Calendar View: All the tests uploaded can be viewed on a calendar based on the date of test. Each day a summary based on the type of result is provided.



FAQs

1. When should I upload the tests done on CBNAAT to Nikshay?

The results should be exported and uploaded to Nikshay regularly every day.

2. What tests should I export?

The export should contain all the tests that were done on that day.

3. Can I upload all pending tests at one time?

It is to be ensured that all tests (irrespective of reason for testing, and test result) done after 01/12/2018 should be uploaded to Nikshay. All pending tests may be uploaded at one go. However, depending on internet connectivity, larger files will take longer to get uploaded; and smaller files containing less than 30 tests are preferred.

4. Can I upload the results from a Tablet?

Yes. If the results are being uploaded from a Tablet, the CSV file needs to transferred to tablet by connecting it through USB and copying the CSV file into the Tablets storage disk.

5. When are the results visible in the patient management module?

Once uploaded, the test details and the performance of the site are visible in GeneXpert Calendar Report. By 1st January 2019 we expect the entire country to be trained in this functionality and the patient and test fields contain the correct information in the correct format. Once this upload process has been completed, direct linkage between patients and GeneXpert Tests will begin; tentatively from 1st January 2019.