



Crop Cutting Experiment Data Collection Using Smart Phone device

Geospatial Technology for Crop Cutting Experiment



STEP- 1: Install the Software into Smartphone

- Connect the Smartphone with Computer System /Laptop using USB cable.
- Copy and Paste CropCutting3_19Feb2015.apk from system to Smartphone into the phone memory.
- Please keep the Screen Auto Rotation option off.
- Please ensure that the camera resolution is minimum.
- Please go the Settings, Security and allow Unknown sources.
- Please go to the icon and tap the CropCutting3_19Feb2015.apk and it will install the application.

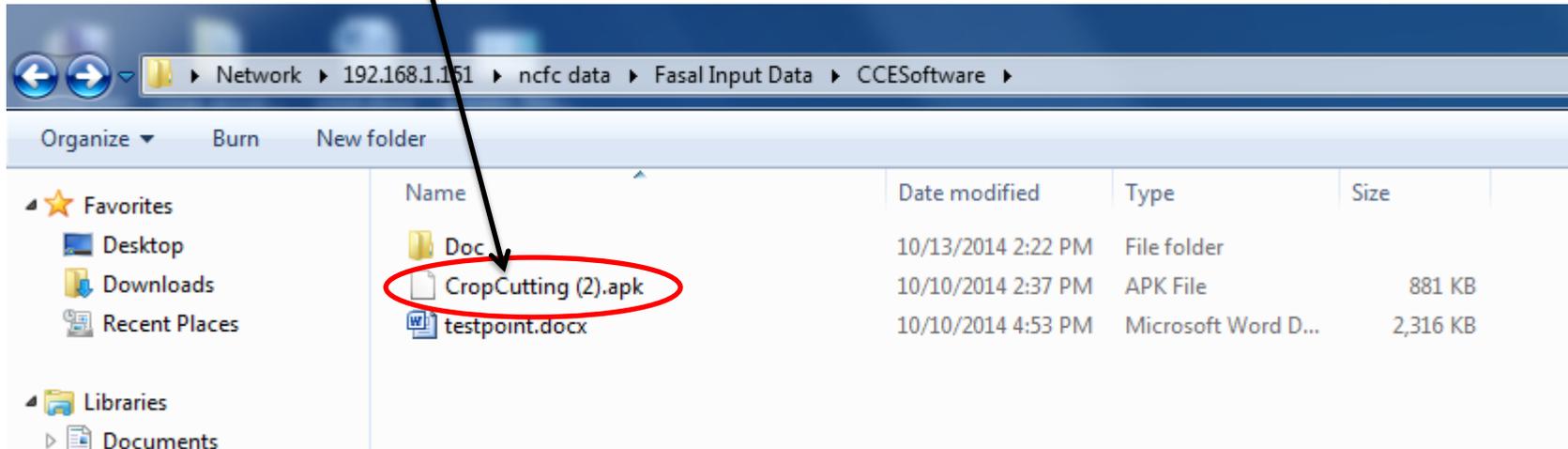


Installation of Crop Cutting.apk



Preparation for CCE software installation

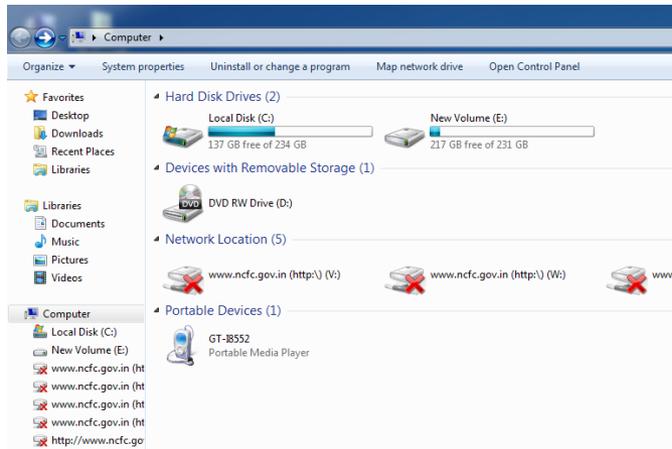
Crop Cutting.apk (download form given in E-mail ID)



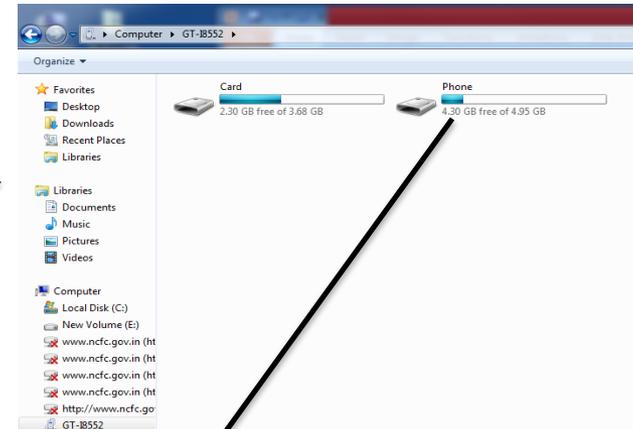
Installation of Crop Cutting.apk



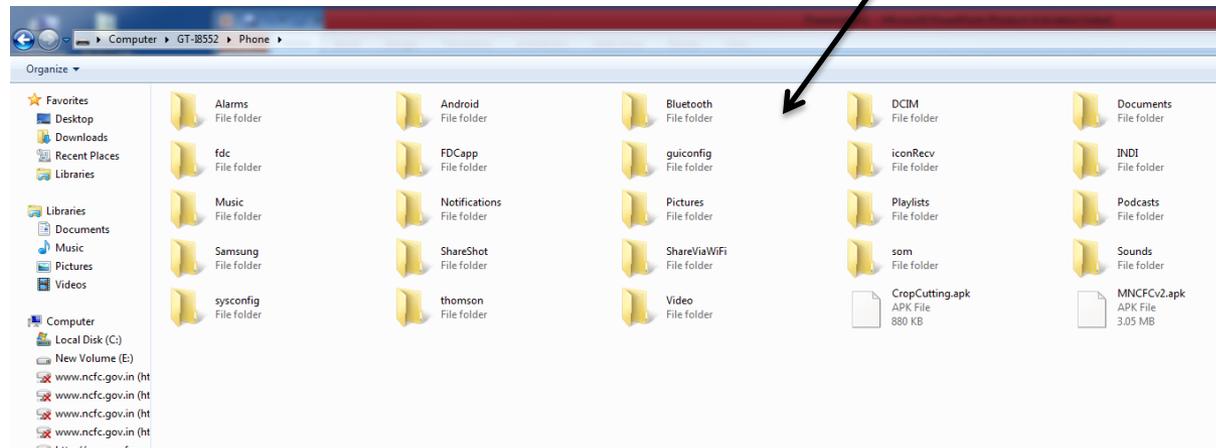
Connect the smart phone to the computer through USB cable.



Click on GT- 18552

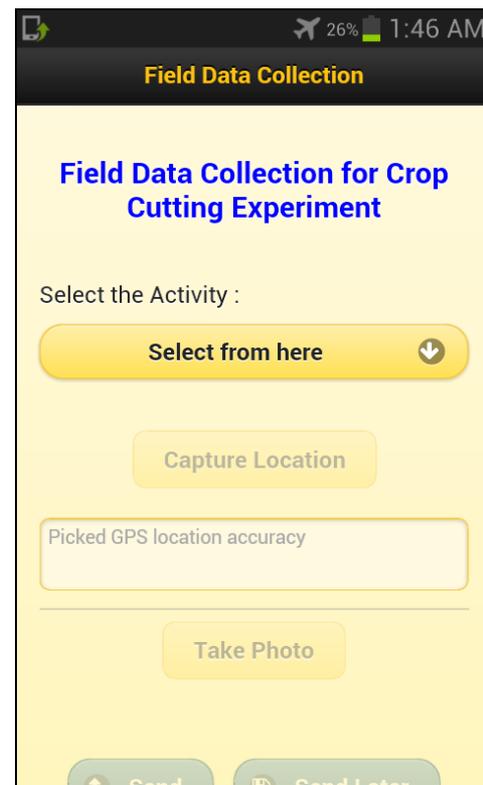


Click on Phone

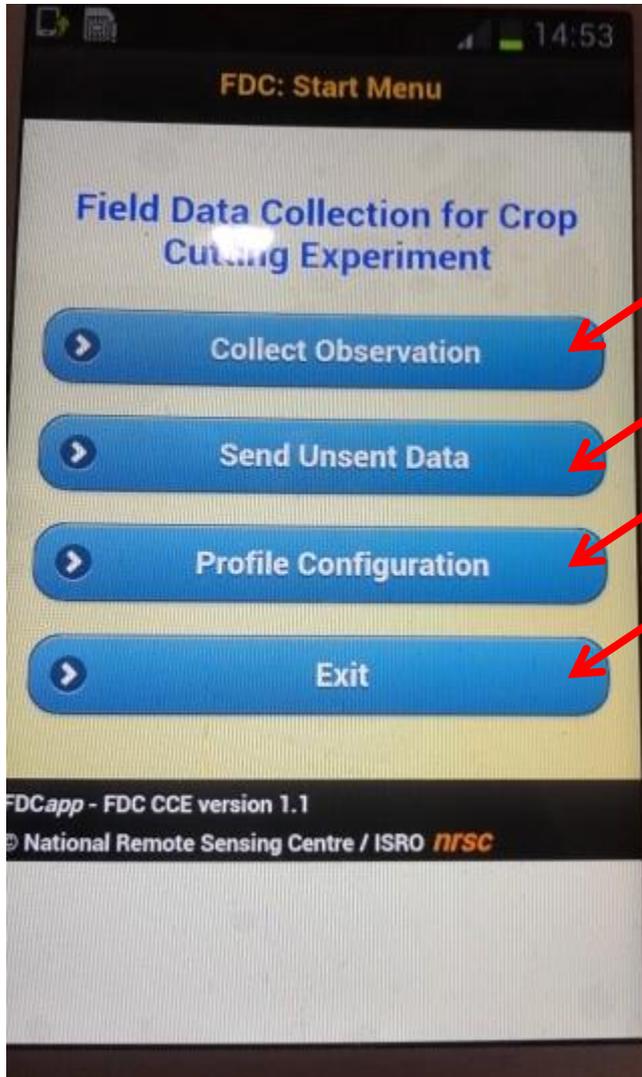


Paste Crop Cutting.apk in the above directory

STEP- 2: Click the icon Crop cutting FDC



Startup page of Crop Cutting apk



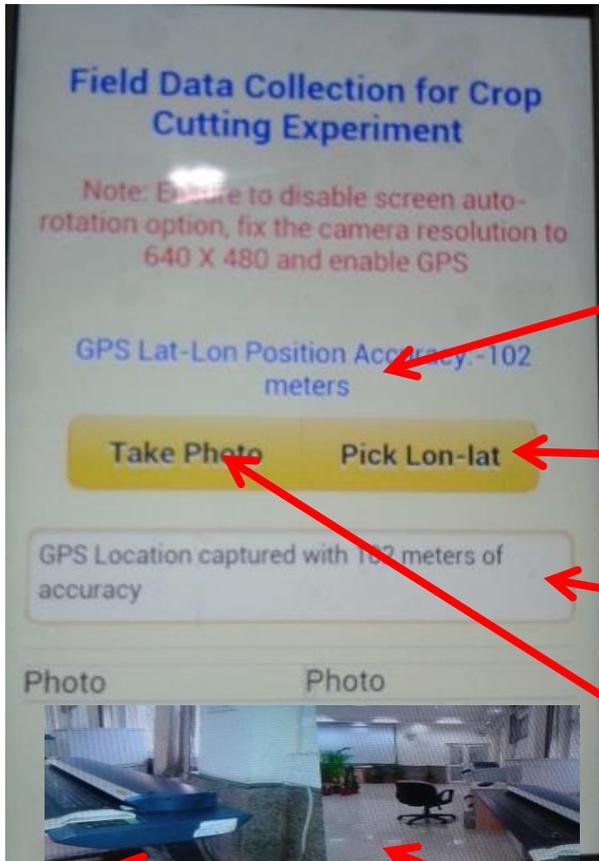
Provision to collect field data (Location, photo & observations)

Provision to send unsent and send later data

Provision to add observer details

Exit from app.

Data collection page of Crop Cutting App.



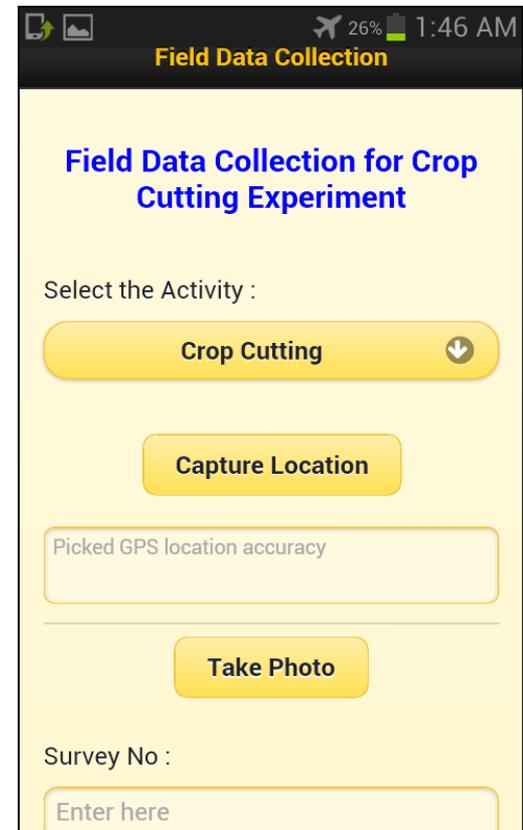
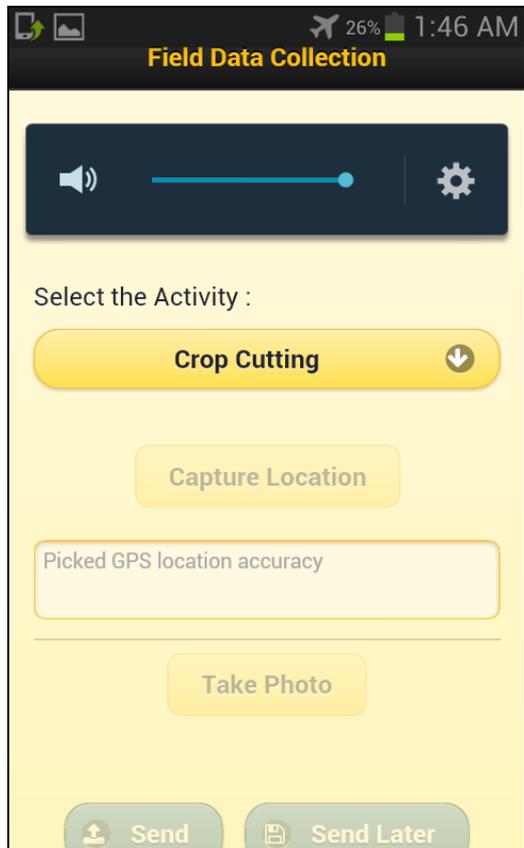
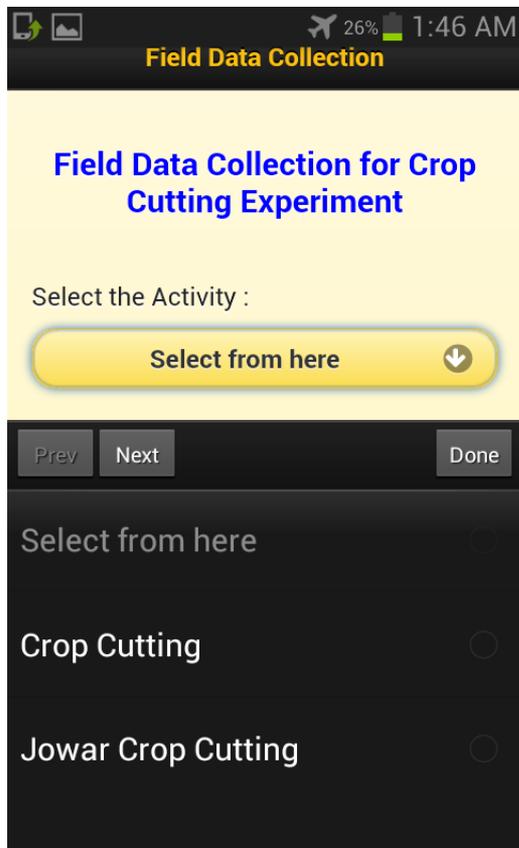
Lat/long information is displayed, initially this will not appear and wait till it appears.

Click on "Pick Point" button to get geo-location of the point and unpick point button to remove collected point.

The picked points are displayed in the list box.

Take Photo button to capture photograph (limited to 2 nos)

Photo1 & 2 are displayed



CCE Software Operation and Steps Involved



Survey No :

Name of the Farmer :

Mobile No of the Farmer :

Crop Name :

Crop Variety :

Water Source :
Select from here ↓

Any Stress :

Select from here ↓

Any Stress :
Select from here ↓

Date of Sowing (DDMMYYYY) :

Shape of CCE :
Select from here ↓

Size of CCE (Side of Triangle or Square and Radius of Circle) :

Weight of Biomass (including grain in Kg) :

Biomass Moisture Content (percentage-approx) :

Weight of Grain (Kg) :

Grain Moisture Content (percentage-approx) :

Milling (percentage-approx) :

Thousand Seed Weight (in grams) :

Any Other Information :

Thousand Seed Weight (in grams) :

Any Other Information :

Send **Send Later**

Datasets **Your Profile**



Grain Moisture Content (percentage-
approx) :

Milling (percentage-approx) :

Thousand Seed Weight (in grams) :

Any Other Information :
Do not use any special text characters

 **Datasets**  **Your Profile**

 **Exit**

Data uploaded (sent data): 2 nos.

FDCapp - FDC CCE version 1.3
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Only "Send Later" for Jowar Crop.
"Send" is enabled for Others Crops.

Page for Send Later and Sent Failed
Datasets

User's Profile page

Total number observation already uploaded
to Bhuvan server.

New version (v1.3) of Crop Cutting App



App's main page is collection page.

The Select the Activity has two option

1. Crop Cutting (for all crops except Jowar).
2. Jowar Crop Cutting.

The second option only have "Send Later" button.
Only accuracy is displayed.

Photo frame is dynamic to reduce the length of the page.

Crop Variety :

Water Source :

Select from here 

Any Stress :

Select from here 

Date of Sowing (DDMMYYYY) :

Shape of CCE :

Select from here 

Size of CCE (Side of Triangle or Square and Radius of Circle) :

Weight of Biomass (including grain in Kg) :

Biomass Moisture Content (percentage-approx) :

Weight of Grain (Kg) :

Grain Moisture Content (percentage-approx) :

There 4 mandatory attribute: Crop Name, Crop Variety, Water Source and Shape of CCE.



2 Provision to view sent datasets after successfully uploading to Bhuvan server.



Provision to edit or delete before sending to Bhuvan server.