

# Presentation On Bhuvan FASAL Ground Truth Application

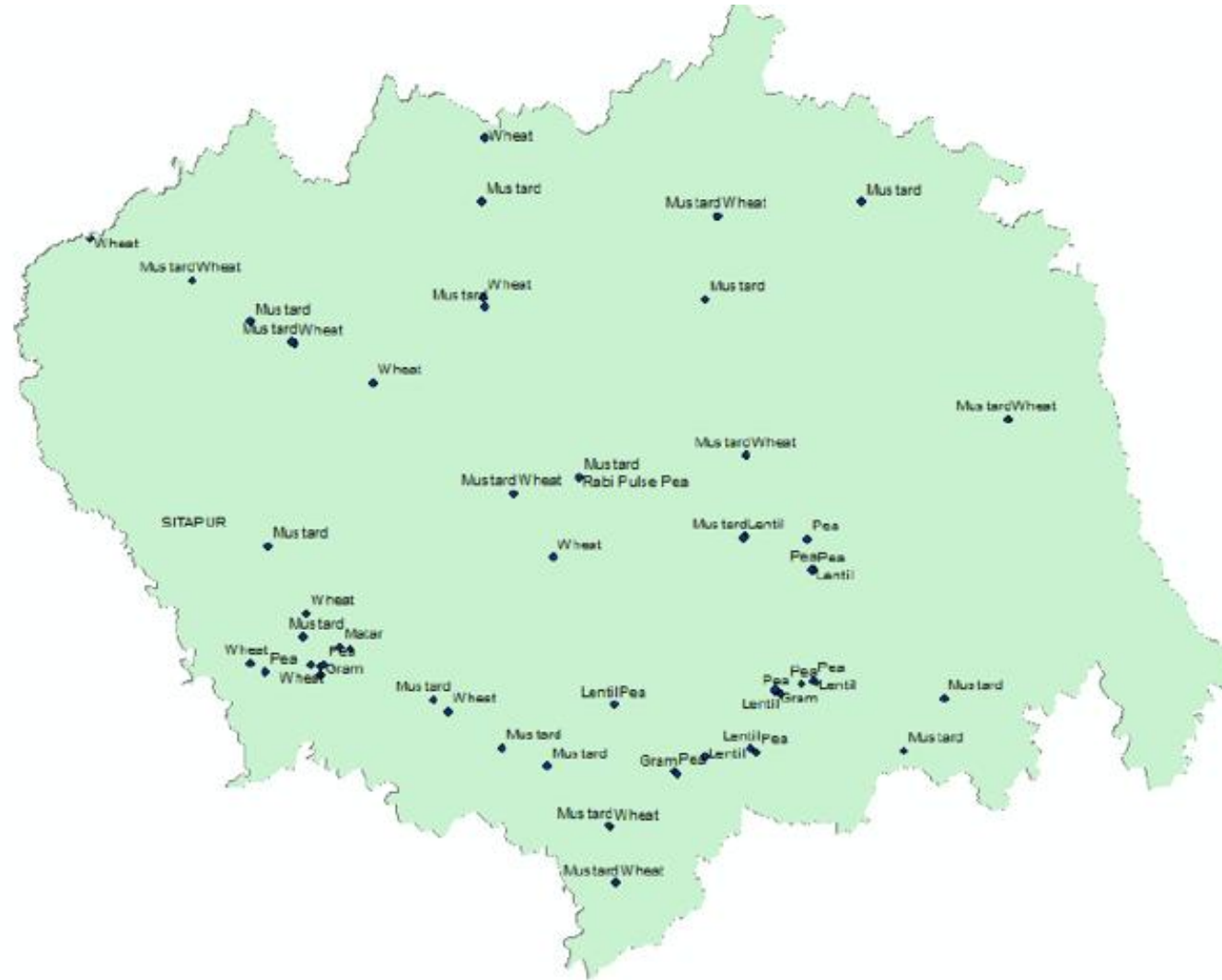


**Mahalanobis National Crop Forecast Centre (MNCFC)  
Dept. of Agriculture, Cooperation & Farmers' Welfare  
Ministry of Agriculture & Farmers' Welfare  
Govt. of India**

## Some important instruction for Ground Truth Collection

1. Don't collect Ground truth near building or electricity wire.
2. Minimum size of field 50x50m.
3. Ground truth (GT) should be well distributed.
4. Need to collect GT near or inside the field as possible as.
5. Need to collect other crop GT during collection of Ground truth for particular crop.
6. There is no upper limit of Ground truth collection for a particular crop.
7. Need to collect GT of all type of crop condition like Good , average and poor crop .
8. Upload GT collection daily on server.

## Example of Well distributed GT collection in a district




# Bhuvan FASAL Version 1.3 app download



← → ↻ 🔒 https://www.ncfc.gov.in

f t

 **MAHALANOBIS NATIONAL CROP FORECAST CENTRE**  
महलानोबिस राष्ट्रीय फसल पूर्वानुमान केंद्र  
Dept. of Agriculture, Cooperation & Farmers Welfare  
कृषि, सहकारिता एवं किसान कल्याण विभाग  
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**NCFC**

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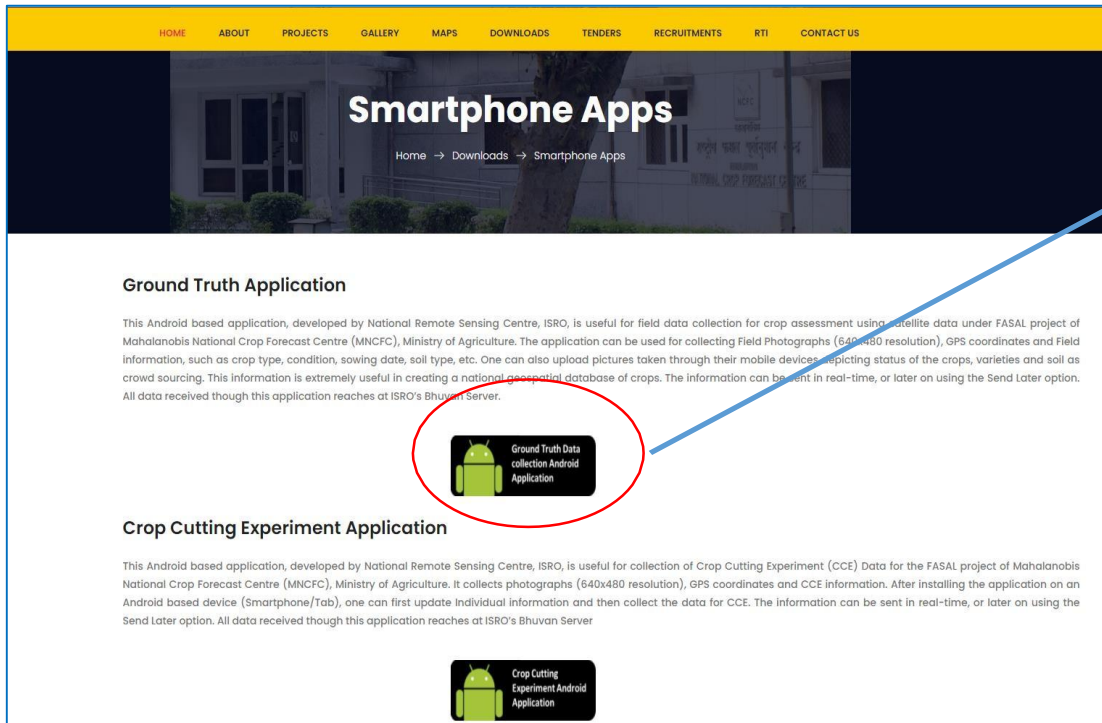
**News** **NEW! Weekly Crop Weather situation**

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- APPS**

https://www.ncfc.gov.in/apps.html

Windows taskbar: Type here to search | 21:12 09-09-2020

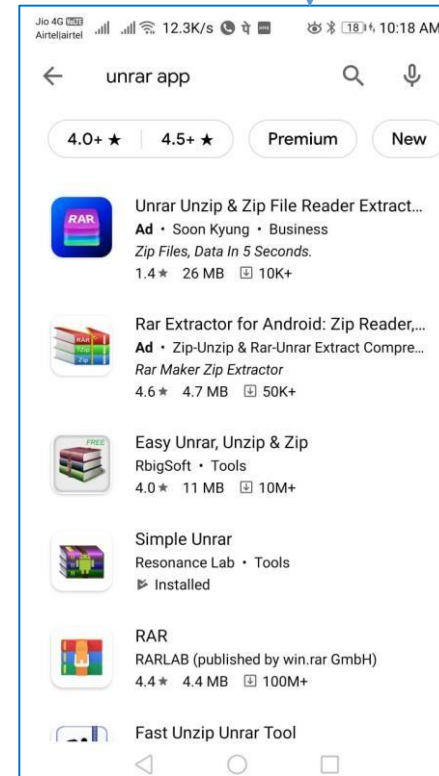
# Bhuvan FASAL application installation process



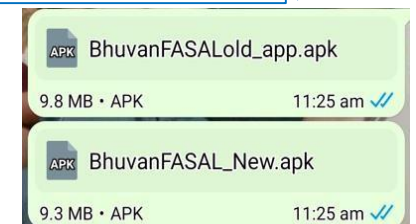
Click on this and download application



Download using any of these software to extract downloaded applications



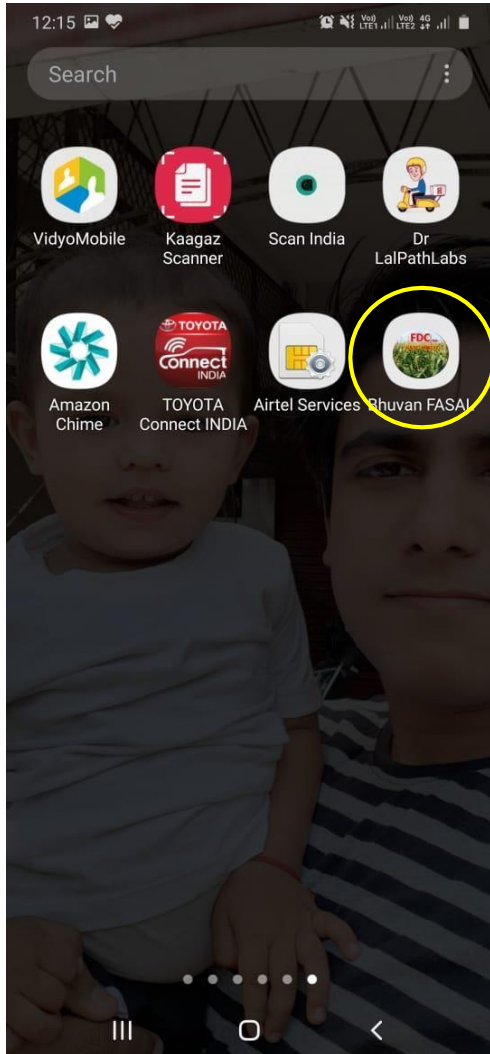
After extraction



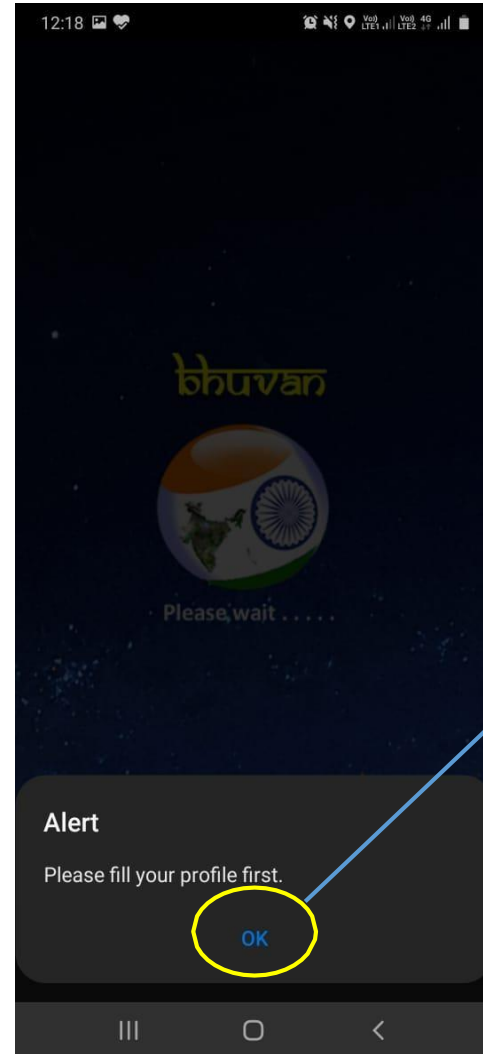
First- Install BhuvanFASAL\_old\_app.apk  
second- Install BhuvanFASAL\_new\_app.apk  
overwrite on old app



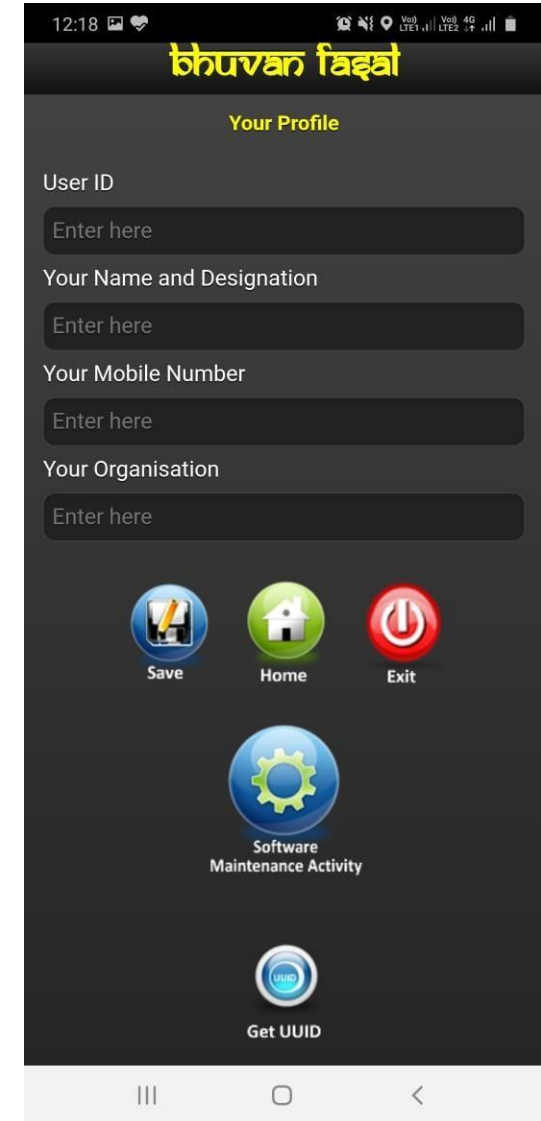
# Bhuvan FASAL Version 1.3 Profile



Open the  
Bhuvan  
FASAL app



If App is installed first time  
on the phone, app will ask  
you to fill your profile first



# Bhuvan FASAL Version 1.3 Profile



12:18

**bhuvan fasal**

**Your Profile**

User ID  
Enter here

Your Name and Designation  
Enter here

Your Mobile Number  
Enter here

Your Organisation  
Enter here

Save Home Exit

Software Maintenance Activity

Get UUID

Fill all the details

In *User ID* any text can be given

12:19

**bhuvan fasal**

**Your Profile**

User ID  
Karanmncfc

Your Name and Designation  
Karan Choudhary-Asst.Director

Your Mobile Number  
[Redacted]

Your Organisation  
MNCFC

Save Home Exit

Software Maintenance Activity

Get UUID

Click on save after filling the details

12:19

**bhuvan fasal**

**Your Profile**

User ID  
Karanmncfc

Your Name and Designation  
Karan Choudhary-Asst.Director

Your Mobile Number  
8447944192

Your Organisation  
MNCFC

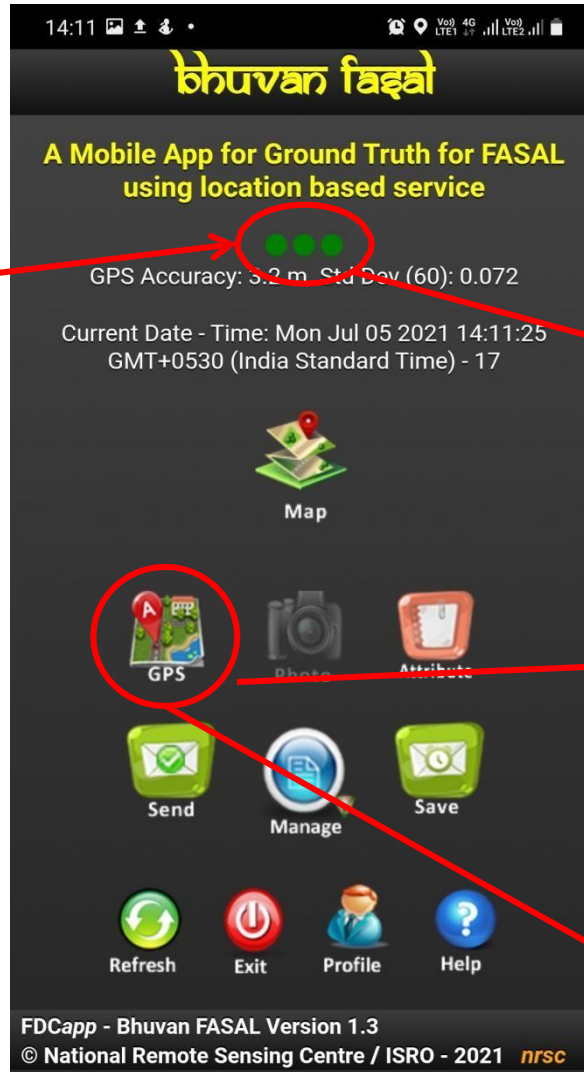
Save Home Exit

Software Maintenance Activity

Get UUID

**Alert**  
Profile details saved  
OK

# Bhuvan FASAL Version 1.3

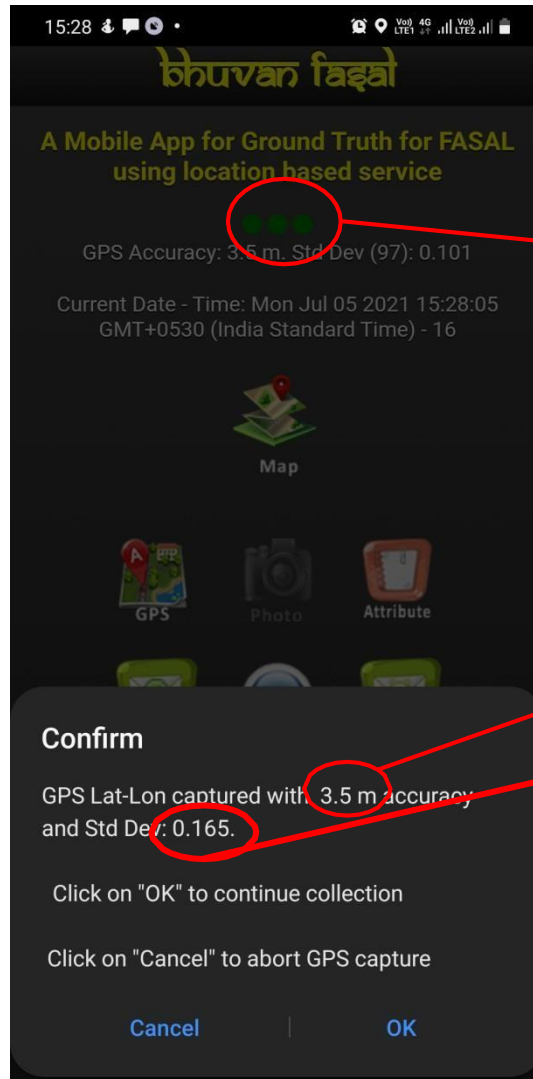


Please follow below given instruction while collecting Ground truth

- **GPS accuracy** should be less than 20 m
- Wait for some time whenever this values goes beyond 20 then values of std. deviation will start to appear like this **Std Dev (31): 0.170**
- Also this colour will change from **red** to **green** then press **GPS** Icon
- Standard deviation a new parameter added – it takes last 20 observations and then compute std dev values and the range of std. dev value should be between  $>0$  and  $<0.5$
- When **GPS Accuracy** value comes below **20m** & **Std. Dev** value comes between  $>0$  and  $<0.5$ , icon above GPS accuracy will become **green** then click on **GPS** button to capture the location.



Click on GPS while



When GPS accuracy is less than 20 m and Std. dev. value is between 0 and 0.5

This color Colour will become green

GPS accuracy is less than 20 m

Std dev is ranging between  $>0$  and  $<0.5$

After capturing GPS location, capture 2 photographs.  
Screen Auto rotation should be off while taking photograph

1. Don't stand near /under the tree and high tension electric wire.
2. Don't keep application **ON** while travelling from one location to other location.

## Fill all attributes in proper format



Jio 4G VoLTE Airtel|airtel 3.15K/s 10:46 AM

State, District, Village :

Haryana Hisar Bandaheri

Field / SiteID (YYYYMMDD-NNN) :

20200909-001

Type of Crop :

Moong

Size of Crop Field / site-(m x m) :

200x200

Crop Growth Stage :

Vegetative

Crop Health Condition :

Good

Crop Cover on Ground :

>80%

Jio 4G VoLTE Airtel|airtel 2.57K/s 2:56 PM

Crop Cover on Ground :

>80%

Crop Variety :

M421

Date Of Sowing / Exp.date-of-Harvesting (DDMMYYYY) :

15072020

Other Crops in Field :

Enter here

Soil Condition :

Moist

Any Other Remarks :

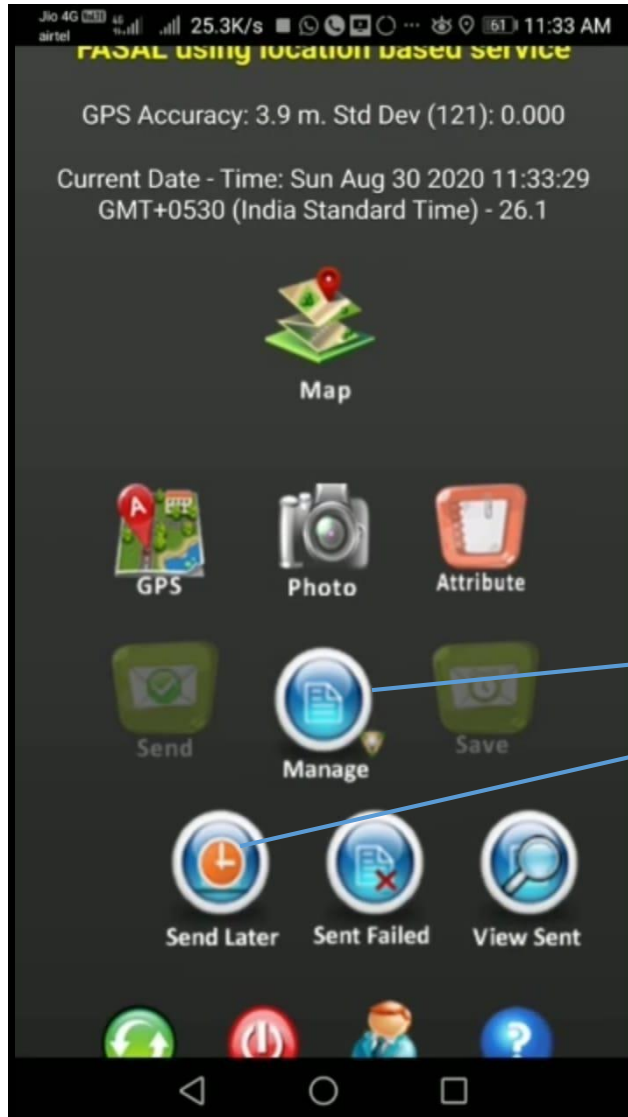
Enter here

Send Manage Save

Fill only Date of sowing and  
In proper format like  
(DDMMYYYY)

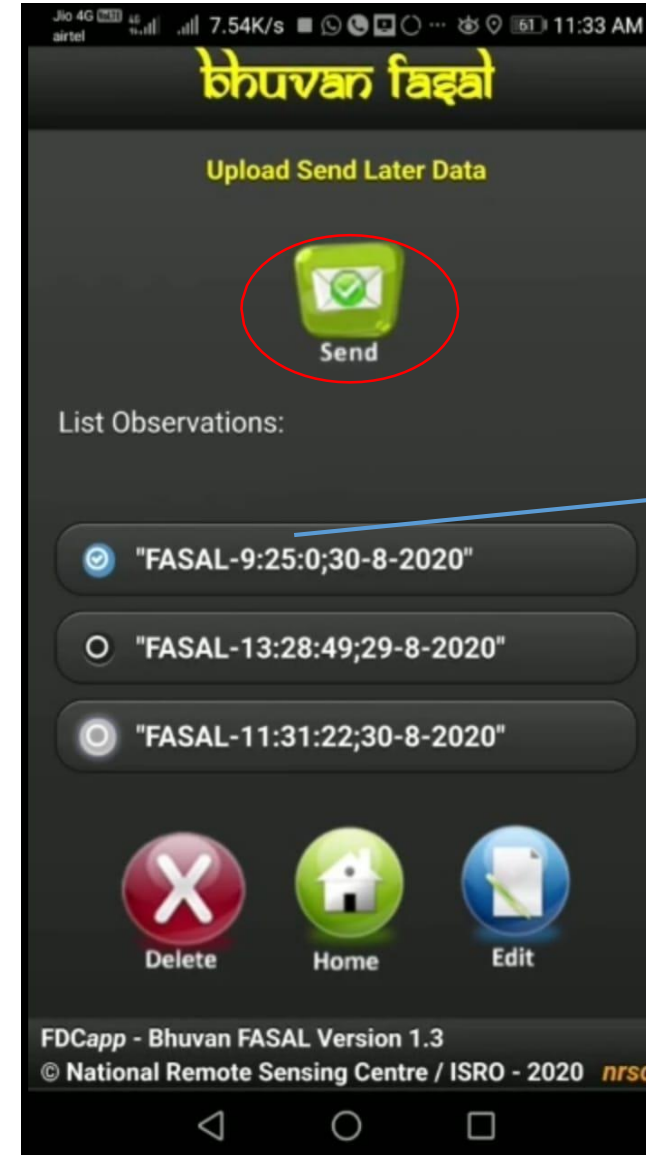
Click on save button  
after filling all the  
information

# Where to find Saved point and how to upload data to server ?



1. Click on manage
2. Click on send later

This window will be open



Select point

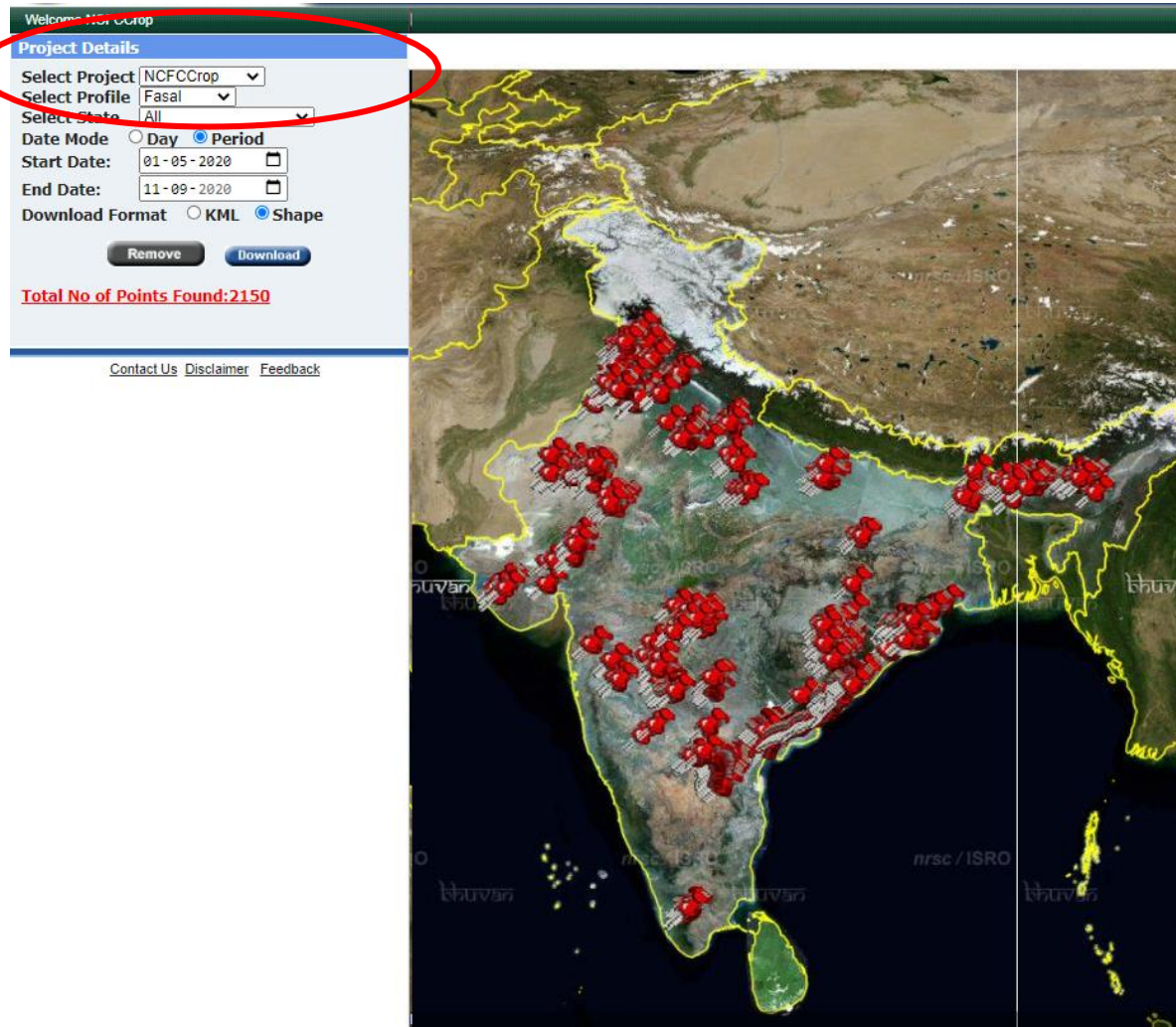
Then  
Click on send



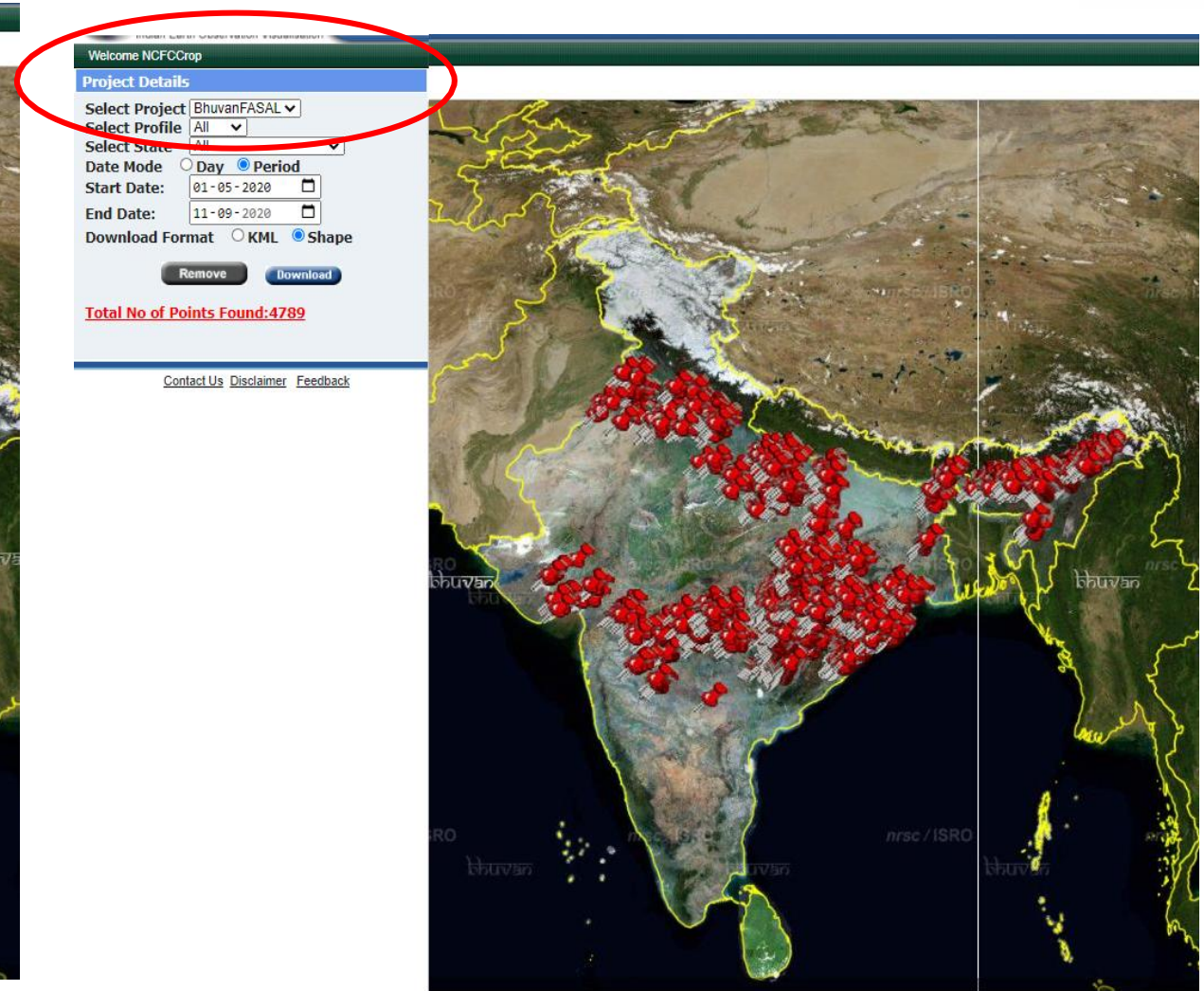
# How to see uploaded Data on Bhuvan Portal



## GT data collected using Older version GT



## GT data collected using Newer version GT



Login ID and Password for FASAL FDC Viewer (Bhuvan Portal) has already been given to every State.

Link for accessing the GT data on Bhuvan portal: <https://bhuvan-app1.nrsc.gov.in/fdcviewer/fdcviewer.php>



# After uploading on Server, locations are on Bhuvan Portal



Integrated Field Data Viewer

Welcome NCFCCrop [Logout](#)

**Project Details**  
Select Project: BhuvanFASAL  
Select Profile: All  
Select State: Odisha  
Date Mode: ☐ Day ☒ Period  
Start Date: 01-08-2020  
End Date: 10-09-2020  
Download Format: ☐ KML ☒ Shape  
[Remove](#) [Download](#)  
**Total No of Points Found:1855**

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Sl.No	12
apptype:	fdc
appsubtype:	fdc
FDCprojectname:	BhuvanFASAL
themenamename:	FDCBhuvanFASAL1dot
profilenamename:	FASAL
observername:	ANUP SAHOO BLOCK TECHNOLOGY MANAGER
org:	Department Of Agriculture Odisha
mobilenom:	7894755973
creationtime:	2020-9-8 16:17:39
uuid:	268e5ab53e6a2e72
deviceid:	28_OD
GPS Accuracy	3.9 Meters
StateDistrictVillage:	ODISHA SAMBALPUR NAKTIDEUL
FieldSiteID:	20200908-023
TypeofCrop:	Paddy
SizeofCropField:	8000
CropGrowthStage:	TILLAGE

Login ID and Password for Bhuvan portal login has been given to each state for checking the status of GT



# CCE App Interface and Attribute

Jio 4G LTE 299B/s 9:31 PM

Attributes of selected Activity

Survey No :

Name of the Farmer :

Aadhar Number :

Mobile No of the Farmer :

Crop Name :

Crop Variety :

Water Source :

Jio 4G LTE 235B/s 9:31 PM

Any Stress :

Date of Sowing (DDMMYYYY) :

Shape of CCE :

Size of CCE (Side of Triangle or Square and Radius of Circle or rectangle (Length x Width)) :

Weight of Biomass (including grain in Kg) :

Biomass Moisture Content (percentage-aprox) :

Weight of Grain (Kg) :



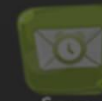
Jio 4G LTE 88.7B/s 9:31 PM





Weight of Grain (Kg) :

Grain Moisture Content (percentage-aprox) :

Milling (percentage-aprox) :

Any Other Information :

 Send  Manage  Save

 Refresh  Exit  Profile  Help

FDCapp - Bhuvan CCE Version 1.4

**Thank You**