



# National Workshop on MIS, Geo-tagging & IEC Activities Under PMAY(U)

**11-12 December, 2018**

**Mechanism for Moderation of geo-tagged images  
by Supervisors using “BhuvanHFA” web portal**

*A Presentation by  
Town Planning Department, Manipur*

# Process of Geo-tagging in PMAY-U

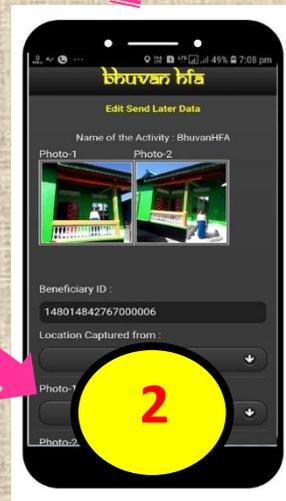
**Geotagging** is an important tool to monitor the progress of housing projects. A **geographical information data** will be added to each of the picture of the BLC house taken in this exercise



**Moderation** is the process of **Accepting** or **Rejecting** a geo-tagged point by a Supervisor (responsible officer of ULB) in accordance with norms prescribed by PMAY Geo-tagging guidelines



Surveyor



Supervisor

# Step 1: Going to the Bhuvan HFA Web Portal

URL is: [www.bhuvan.nrsc.gov.in/governance/housing\\_for\\_all](http://www.bhuvan.nrsc.gov.in/governance/housing_for_all)

The screenshot shows the web portal interface for the Ministry of Housing and Urban Affairs. The browser address bar displays the URL: [bhuvan-noeda.nrsc.gov.in/governance/housing\\_for\\_all](http://bhuvan-noeda.nrsc.gov.in/governance/housing_for_all). The page header includes the Ministry of Housing and Urban Affairs logo and the text "Housing for All". A red dashed box highlights the "Welcome User" and "Login" links in the top right corner. The main content area features a map of India with various states labeled, including Jammu & Kashmir, Himachal Pradesh, Punjab, Uttarakhand, Haryana, Rajasthan, Uttar Pradesh, Bihar, West Bengal, Tripura, Mizoram, Manipur, Nagaland, Assam, Arunachal Pradesh, Jharkhand, Odisha, Chhattisgarh, Madhya Pradesh, Gujarat, Maharashtra, Karnataka, Andhra Pradesh, Telangana, and Tamil Nadu. A search bar is located at the top left, and a "Field Data Viewer" panel is on the left side. The "Field Data Viewer" panel includes dropdown menus for "State", "District", and "City", all set to "All", and a "View" button. Below the "Field Data Viewer" is a "Search By Beneficiary ID" section. At the bottom left, there is a "Download Field Data Collection App for Android" button with an Android logo and a link to the "Mobile App Help Document". The map includes a scale bar for 500 km and a "Bhuvan" logo at the bottom left. The bottom right corner shows the coordinates "85.31, 26.00".

# Step 2: Log-in by the ULB Level Supervisor

← → ↻ Not secure | bhuvan-noeda.nrsoc.gov.in/governance/housing\_for\_all#

 **Indian Geo-Platform of ISRO**

Enter City or Lat, Lon(ex:chennai or 13) 🔍

**Field Data Viewer**

State: All  
District: All  
City: All

[View](#)

**Search By Beneficiary ID**

 **Download**  
Field Data Collection App for Android

[Mobile App Help Document](#)

[Discussion Forum](#) | [Send Mail](#)

**Login**

Note:

Bhuvan is now using "Central Authentication Service(CAS)" to enable Single Sign-On(SSO), you can use the same log-in credential if you are already registered with Bhuvan.

Registration is optional in Bhuvan. However, some features require registration. Registered users are having privilege to share the data, collaborate with other bhuvanites, Forum etc. If not registered, it only takes a few moments to register so it is recommended you do so.

**Bhuvan-Single Sign On**

**Enter Log-in Credentials of ULB supervisor**

Username:

Password:

[Change Password?](#)  
[Forgot Password?](#)

[Cancel](#)

[mer](#)

# Step 3: Viewing Geo-tagged Points

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nrsc Indian Geo-Platform of ISRO

Ministry of Housing and Urban Affairs  
Housing for All

Welcome sthoubalmc [Logout](#)

Tools | [Link](#) | [Home](#) | [Help](#)

Enter City or Lat, Lon(ex:chennai or 13

**Field Data Viewer**

State: All  
District: All  
City: All

Date Mode:  Day  Period

Start Date:

End Date:

**Select Period**

Enable Moderation

**Statistics Reports**

**Search By Beneficiary ID**

Map |  Satellite  Hybrid  Terrain  More

Base Admin Base Hydrology

500 km

Bhuvan 69.27, 26.57

# Step 3: Viewing Geo-tagged Points

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Ministry of Housing and Urban Affairs  
Housing for All

Welcome sthoubalmc [Logout](#)

Tools | [Link](#) | [Home](#) | [Help](#)

Enter City or Lat,Lon(ex:chennai or 13

Date Mode  Day  Period  
Start Date:   
End Date:   
 Accepted Points  Rejected Points  
 Validated Date  Created Date  
[Disable Moderation](#)

[Statistics](#) [Reports](#)

[Remove](#)

- Not Started
- Foundation
- Lintel
- Roof
- Completed
- Unauthorised

Total No of Points Found:58

Search By Beneficiary ID

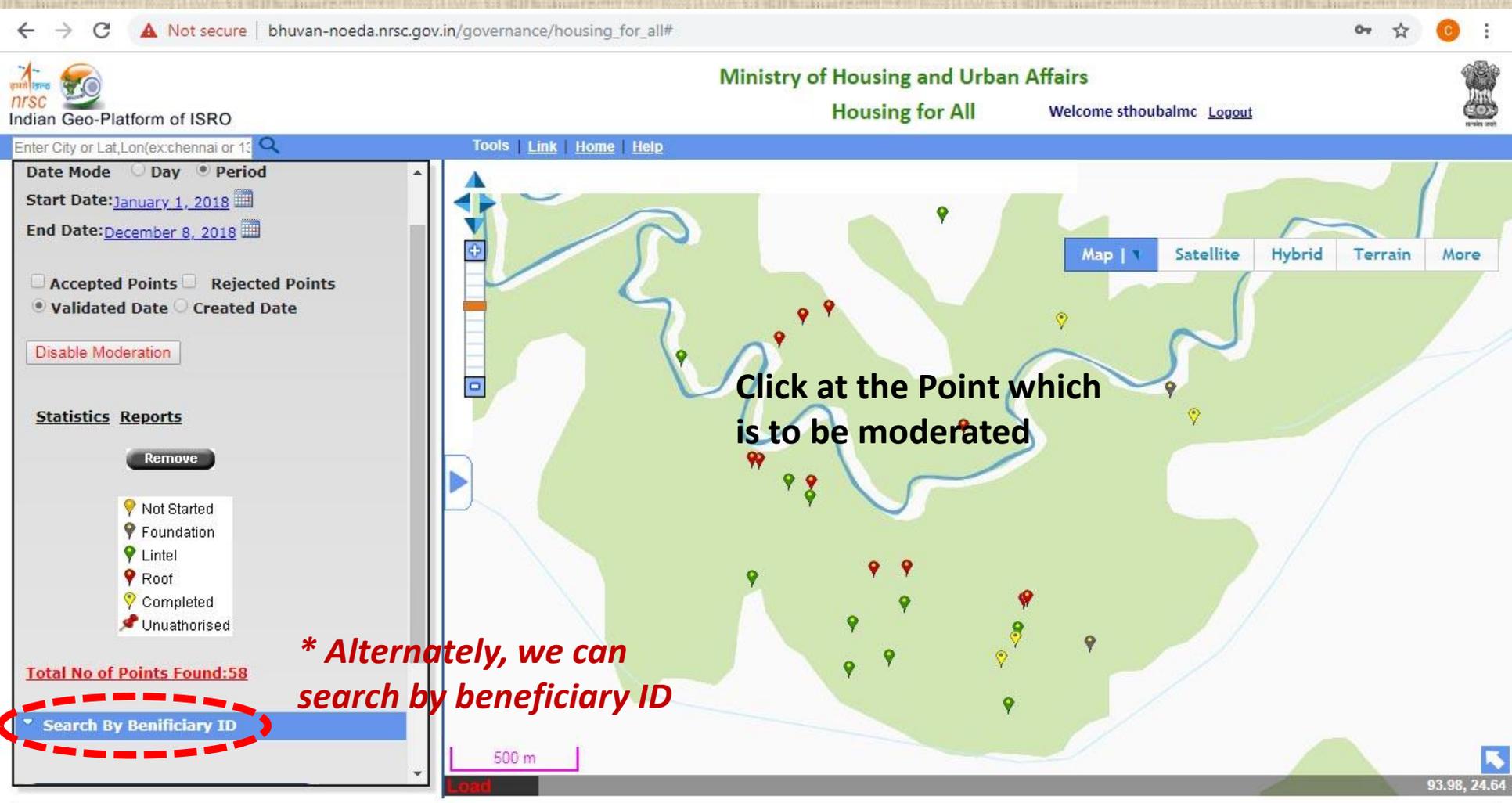
Map |  Satellite  Hybrid  Terrain  More

Click at the Point which is to be moderated

500 m

Load

93.98, 24.64



# Step 3: Viewing Geo-tagged Points

← → ↻ ⚠ Not secure | bhuvan-noeda.nrsc.gov.in/governance/housing\_for\_all#

Ministry of Housing and Urban Affairs

Welcome slamsangnp [Logout](#)

Indian Geo-Platform of ISRO

Enter City or Lat, Lon(ex:chennai or 13

### Field Data Viewer

City:

Date Mode:  Day  Period

Start Date:

End Date:

Accepted Points  Rejected Points  
 Validated Date  Created Date

[Disable Moderation](#)

[Statistics](#) [Reports](#)

[Remove](#)

- Not Started
- Foundation
- Lintel
- Roof
- Completed
- Unauthorised

**Total No of Points Found:32**

### Housing For All Asset DETAILS



Sl.No	Thumbnail/View
3589594	
Creation Time	2018-08-30 16:20:09
Longitude/Latitude	93.88/24.84 <a href="#">Analyse</a>
Beneficiary Name	Yumnam Saratchandra Singh
	Project of Lamsang for

93.88, 24.84

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[Contact us](#) | [Disclaimer](#)

**In this window we can see:**

- 1) 2 photos of the geo-tagged point
- 2) Beneficiary Name.
- 3) DPR Name
- 4) GPS Accuracy
- 5) UUID & User ID of Surveyor.
- 6) Detail of photograph location.
- 7) Date of Photographing
- 8) Stage of Construction
- 9) Status of Infrastructure
- 10) Occupancy Status
- 11) Any Anomaly reported by Surveyor
- 12) Moderation History

# Step 3: Viewing Geo-tagged Points

← → ↻ Not secure | bhuvan-noeda.nrsc.gov.in/governance/housing\_for\_all#

Ministry of

Logout

Housing For All Asset DETAILS

Indian Geo-Platform of ISRO

Enter City or Lat,Lon(ex:chennai or 13)

### Stage-wise Thumbnail Preview

Field Data Viewer

City: Lamsang

Date Mode:  Day  Period

Start Date: January 1, 2018

End Date: December 6, 2018

Accepted Points  Rejected Points

Validated Date  Created Date

Disable Moderation

Statistics Reports

Remove

- Not Started
- Foundation
- Lintel
- Roof

Thumbnail 1: 2018-08-30:Completed Distance : 6 m

Thumbnail 2: 2018-08-30:Completed Distance : 6 m

Thumbnail 3: 2017-06-28:Roof Distance : 8 m

Thumbnail 4: 2017-06-28:Roof Distance : 8 m

Sl.No	3589594
Creation Time	2018-08-30 16:20:09
Longitude/Latitude	93.88/24.84 <a href="#">Analyse</a>
Beneficiary Name	Yumnam Saratchandra Singh
	Project of Lamsang for

# Step 4: Moderating Geo-tagged Points

Ministry of Housing and Urban Affairs

Major Conditions for Accepting:

- 1) GPS accuracy  $\leq 10m$
- 2) Photo should not be taken from a far distance from the house
- 3) Photo of house should be clearly visible.
- 4) No mismatch between photo and the construction stage.
- 5) No mismatch of photo captured locations for various construction stages.

Field Data Viewer

City: Lamsang

Date Mode:  Day  Period

Start Date: January 1, 2018

End Date: December 6, 2018

Accepted Points  Rejected Points

Validated Date  Created Date

Disable Moderation

Statistics Reports

Remove

Capture Location	Door Step (DS)
Photo1 Captured From	Right
Photo2 Captured From	Left
Construction Type	New House
House Type	Semi-Pucca (Asbestos or Steel Sheet or Tiled)
Construction Stage	Completed
Electricity	Yes
Water	Yes
Sewerage	No
Occupation Status	Vacant
Any Other Details	
Deprived Field	

2018-08-30 2017-06-28 2017-05-16

2017-04-10 2017-04-10

Accept Reject

500 m

Bhuvan

93.87, 24.83

**Blue**:- Yet to be moderated

**Green**:- Moderated as Accepted

**Red**:- Moderated as Rejected (can be Auto also)

## **2<sup>nd</sup> Level Moderation by State Level Moderator**

### **2<sup>nd</sup> Level Moderation is required if:**

- ❖ City Moderator Reports that an improperly geo-tagged point has been Approved.
- ❖ State Level Moderator or Central PMU of PMAY(U) discovers that an improperly geo-tagged point has been Approved.
- **In Manipur, the State Mission Directorate (SMD) checks each and every geotagged point of a town, which is submitted as a list along with request for release of fund.**
- **If any improperly geo-tagged point is observed, the same is communicated to the EO of the town.**
- **Afterwards, the EO communicates in writing to the SMD, the list of such beneficiaries with ID and the anomaly.**
- **Then the SMD (State Moderator) undertakes 2<sup>nd</sup> Level Moderation to Reject, with the Reason as given in EO's communication.**

# 2<sup>nd</sup> Level Moderation by State Level Moderator

## State Log-in Credentials

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 Indian Geo-Platform of ISRO

**Ministry of Housing and Urban Affairs**  
**Housing for All** Welcome Manipur\_hfa [Logout](#)

Enter City or Lat,Lon(ex:chennai or 13 )

Tools | [Link](#) | [Home](#) | [Help](#)

**Field Data Viewer**

State:

District:

City:

Date Mode:  Day  Period

Start Date:

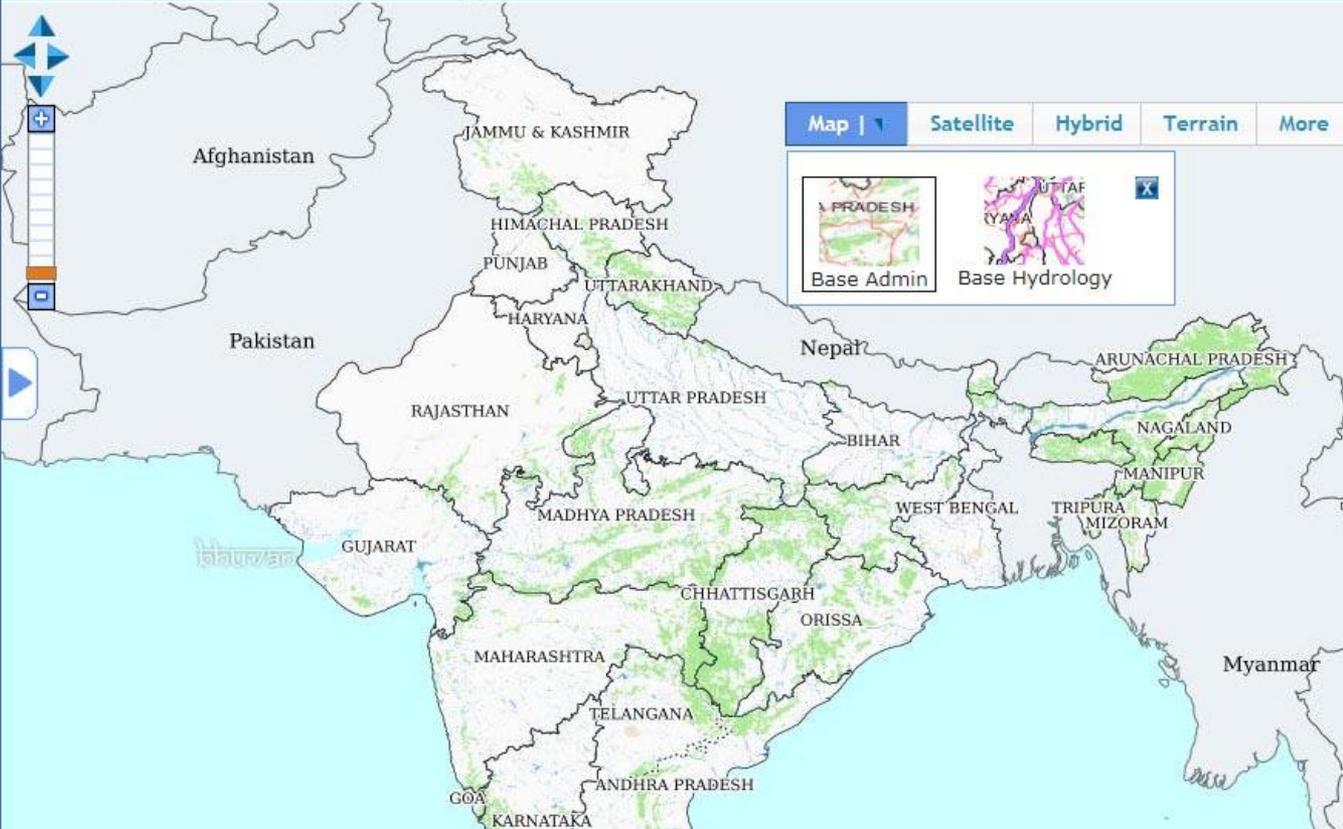
End Date:

[Authorize City Supervisors & Surveyors](#)

**Level-2 moderation**

[Statistics](#) [Reports](#)

**Search By Beneficiary ID**



Map |

Base Admin Base Hydrology

# 2<sup>nd</sup> Level Moderation by State Level Moderator

Records: 10 ▾

Level 2 Moderation ▾													
SNO ▲	Beneficiary ID	House Type	Construction Stage	Time	Accuracy	Validated By	Validated on	Link	Image1	Image2	Reject		
<input type="button" value="Filter by SNo"/>	<input type="button" value="Filter by Beneficiary"/>	<input type="button" value="Filter by House Type"/>	<input type="button" value="Filter by Const"/>	<input type="button" value="Filter by Tin"/>	<input type="button" value="Filter by Acc"/>	<input type="button" value="Filter by Valid"/>	<input type="button" value="Filter by Valid"/>						
1016193	148014793203100110	Semi-Pucca (Asbestos or Steel Sheet or Tiled)	Foundation	2017-11-14 11:54:34	4	sthoubalmc	2017-11-20 13:56:10.634	view in map			<input type="checkbox"/>		
1017963	148014793203100045	Semi-Pucca (Asbestos or Steel Sheet or Tiled)	Lintel	2017-11-14 15:22:24	5	sthoubalmc	2017-11-20 13:52:09.005	view in map			<input type="checkbox"/>		
1017982	148014793203100021	Semi-Pucca (Asbestos or Steel Sheet or Tiled)	Roof	2017-11-14 15:24:24	4	sthoubalmc	2017-11-20 13:51:14.171	view in map			<input type="checkbox"/>		
1017998	148014793203100001	Semi-Pucca (Asbestos or Steel Sheet or Tiled)	Roof	2017-11-14 15:31:56	4	sthoubalmc	2017-11-20 13:50:52.206	view in map			<input type="checkbox"/>		

# 2<sup>nd</sup> Level Moderation by State Level Moderator

← → ↻ ⚠ Not secure | bhuvan-noeda.nrsc.gov.in/governance/tools/housingforall/tableview/level2mod.php 🔍 ☆ 🌐

Level 2 Moderation Records: 10

SNO	Beneficiary ID	House Type	Construction Stage	Time	Accuracy	Validated By	Validated on	Link	Image1	Image2	Reject
Filter by SN	148014793202900	Filter by House Type	Filter by Cons	Filter by Tim	Filter by Acc	Filter by Valid	Filter by Valid				
299357	148014793202900083	Semi-Pucca (Asbestos or		2017-05-17			2017-05-22	view			
4336220	148014793202900083										

Enter Reason For Rejection

This is not properly geotagged

closeReject



# Issue of Photographs taken with Registered User ID of Surveyor turning Unauthorized.

Many a times, geo-tagged points taken by Surveyors using registered User IDs are turning to **“Unauthorized”** points. The following may be the reasons:

1. Due to some problem/s at Bhuvan portal;
2. Due to formatting of device (i.e., the mobile phone) by the Surveyor;
3. Due to usage of more than one device by the Surveyor, with the same registered User ID.



**The State moderator has to delete the Surveyor's User ID and then accept it again for the same UUID using SOP**

**In the case of 2 & 3 above, the Unique Mobile ID (UUID) will undergo change/s from the one used in approval at Bhuvan portal.**



# Issue of Authorized Points taken with Registered User ID of Surveyor turning Unauthorized.

## Solution for Sl. No. 2 & 3 Above:

<b>Bhuvan CAS User name</b>	svthongkhong
<b>User Emailid</b>	████████@gmail.com
<b>City</b>	Thongkhong Laxmi Bazar ▼
<b>Unique Mobile Id</b>	f5dddc02e262c150 ▼
	f5dddc02e262c150 <b>1</b>
	5dfbf956704ae01a <b>2</b>
<b>Accept Registration</b>	

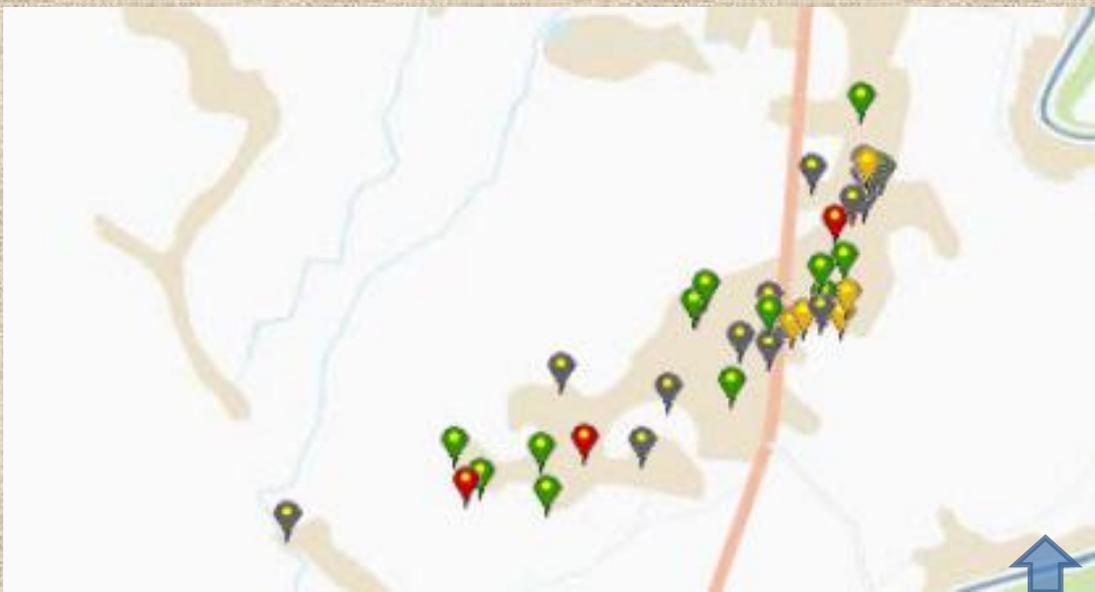
- ❑ Owing to formatting of the device or usage of more than one device (with same registered User ID), there will be at least one more UUID, which is different from the one used when the Surveyor User ID was first Registration at Bhuvan portal.
- ❑ the State moderator has to accept the same Surveyor ID with the other UUID (or even more) as per the SOP. Please see the 2 UUIDs for the same User ID “**svthongkhong**”.

# Issue of Authorized Points taken with Registered User ID of Surveyor turning Unauthorized.

When both (or more) UUIDs are approved by the State moderator, the User ID will appear more than once (one for each UUID) as shown below. The User ID “**svthongkhong**” is appearing twice for the 2 UUIDs:

Sugnu	sugnumc	supervisor
Sugnu	ssugnumc	supervisor
Thongkhong Laxmi Bazar	svthongkhong 1	surveyor
Thongkhong Laxmi Bazar	spthongkhong	supervisor
Thongkhong Laxmi Bazar	sv2thongkhong	surveyor
Thongkhong Laxmi Bazar	svthongkhong 2	surveyor
Thoubal	thoubalmc4	supervisor
Thoubal	sthoubalmc	surveyor
Thoubal	thoubalmc3	surveyor

- ❑ To reduce any errors from the devices, we advise the ULBs not to register their personal mobile devices for geo-tagging exercise.
- ❑ A dedicated mobile device for each Surveyor is used, which is not installed with any extra apps, games, programmes etc. which can potentially harm the mobile device.
- ❑ Also, the Surveyors are instructed to use only one mobile device for a particular Surveyor User ID.



**Thank You!**