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.

1. Surveyor
2. Mobile Application
3. Supervisor
Step 1: Going to the Bhuvan HFA Web Portal
URL is: www.bhuvan.nrsc.gov.in/governance/housing_for_all
Step 2: Log-in by the ULB Level Supervisor

Enter Log-in Credentials of ULB supervisor

Username: skakchingmc
Password: ********
Step 3: Viewing Geo-tagged Points

Select Period
Step 3: Viewing Geo-tagged Points

Click at the Point which is to be moderated.

* Alternately, we can search by beneficiary ID.
Step 3: Viewing Geo-tagged Points

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
### Step 4: Moderating Geo-tagged Points

#### Major Conditions for Accepting:
1. GPS accuracy $\leq 10$ m
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.

If the Moderator is Rejecting a Point, a reason should be compulsorily written.

<table>
<thead>
<tr>
<th>Field Data Viewer</th>
<th>Statistics</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>City</td>
<td>Lamsang</td>
<td></td>
</tr>
<tr>
<td>Date Mode</td>
<td>Day</td>
<td></td>
</tr>
<tr>
<td>Start Date</td>
<td>December 5, 2018</td>
<td></td>
</tr>
<tr>
<td>End Date</td>
<td>January 1, 2018</td>
<td></td>
</tr>
<tr>
<td>Accepted Points</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rejected Points</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total No of Points Found: 32</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- **Blue:** Yet to be moderated
- **Green:** Moderated as Accepted
- **Red:** Moderated as Rejected (can be Auto also)
2\textsuperscript{nd} Level Moderation by State Level Moderator

2\textsuperscript{nd} 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\textsuperscript{nd} Level Moderation to Reject, with the Reason as given in EO’s communication.
2\textsuperscript{nd} Level Moderation by State Level Moderator

State Log-in Credentials

Ministry of Housing and Urban Affairs
Housing for All
Welcome Manipur_hfa
Logout
<table>
<thead>
<tr>
<th>SNO</th>
<th>Beneficiary ID</th>
<th>House Type</th>
<th>Construction Stage</th>
<th>Time</th>
<th>Accuracy</th>
<th>Validated By</th>
<th>Validated on</th>
<th>Link</th>
<th>Image1</th>
<th>Image2</th>
<th>Reject</th>
</tr>
</thead>
<tbody>
<tr>
<td>1018103</td>
<td>145014703203100110</td>
<td>Semi-Puca (Asbestos or Steel Sheet or Tiled)</td>
<td>Foundation</td>
<td>2017-11-14 11:54:34</td>
<td>4</td>
<td>sithoubalme</td>
<td>2017-11-20 12:52:10:034</td>
<td>view in map</td>
<td><img src="image1.png" alt="Image1" /></td>
<td><img src="image2.png" alt="Image2" /></td>
<td>Reject</td>
</tr>
<tr>
<td>1017963</td>
<td>145014703203130045</td>
<td>Semi-Puca (Asbestos or Steel Sheet or Tiled)</td>
<td>Limet</td>
<td>2017-11-14 15:22:24</td>
<td>5</td>
<td>sithoubalme</td>
<td>2017-11-20 19:52:09:006</td>
<td>view in map</td>
<td><img src="image1.png" alt="Image1" /></td>
<td><img src="image2.png" alt="Image2" /></td>
<td>Reject</td>
</tr>
<tr>
<td>1017002</td>
<td>145014703203130021</td>
<td>Semi-Puca (Asbestos or Steel Sheet or Tiled)</td>
<td>Roof</td>
<td>2017-11-14 15:24:24</td>
<td>4</td>
<td>sithoubalme</td>
<td>2017-11-20 13:51:14:171</td>
<td>view in map</td>
<td><img src="image1.png" alt="Image1" /></td>
<td><img src="image2.png" alt="Image2" /></td>
<td>Reject</td>
</tr>
<tr>
<td>1017005</td>
<td>145014703203130001</td>
<td>Semi-Puca (Asbestos or Steel Sheet or Tiled)</td>
<td>Roof</td>
<td>2017-11-14 15:31:56</td>
<td>4</td>
<td>sithoubalme</td>
<td>2017-11-20 13:50:22:206</td>
<td>view in map</td>
<td><img src="image1.png" alt="Image1" /></td>
<td><img src="image2.png" alt="Image2" /></td>
<td>Reject</td>
</tr>
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2\textsuperscript{nd} Level Moderation by State Level Moderator

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<th>Time</th>
<th>Accuracy</th>
<th>Validated By</th>
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<th>Link</th>
<th>Image1</th>
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</tr>
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Enter Reason For Rejection

This is not properly geotagged.
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.

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:

- 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:

- To reduce any errors from the devices, we advise the ULBs not to register their personal mobile devices for geotagging 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!