



**Geotagging and Monitoring of MGNREGA Assets
using Bhuvan
(Bhuvan – GeoMGNREGA)**

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November 2016

DOCUMENT CONTROL SHEET

1	Security Classification	Unrestricted		
2	Distribution	Public		
3	Document (a) Issue:	Issue-02, November, 2016	(b) Revision:	0
4	Report Type	Technical Guide		
5	Report No	NRSC-DPPAWAA-GWGSG-BWSD-NOV-2016-TG-935		
6	Title	Geotagging and Monitoring of MGNREGA Assets using Bhuvan		
7	Collation	Pages 46	Figures	References
8	Project	BHUVAN		
9	Author(s)	Sonal Aggarwal, Mobina Shaik, Pramod Kumar Reddy		
10	Affiliation of authors	NRSC/ISRO		
11	Security Mechanism	Reviewed by Manager, BWSD	Approved by Group Director, G&WGS	
12	Originating unit	NRSC / ISRO		
12	Sponsor(s) Name: , Type:	Nil		
13	Date of Initiation	Aug, 2016		
14	Date of Publication	Nov, 2016		
	<p>Abstract (with Keywords):</p> <p>This document is a user manual elaborates the procedures of accessing the Bhuvan Geo-Platform, user registration, authorization, moderation of geotagged MGNREGA assets through web & tabular view and report generation.</p> <p>Keywords: Bhuvan, Geo-Platform, Geotagging, Monitoring</p>			

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Geotagging and Monitoring of MGNREGA Assets using Bhuvan

(Bhuvan – GeoMGNREGA)

1. Introduction

Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) aims at livelihood security of people in rural areas by guaranteeing hundred days of wage-employment in a financial year to a rural household whose adult members volunteer to do unskilled labour work. The Mahatma Gandhi NREGA sponsors various schemes for helping rural people below the poverty-line for creation of wage employment and productive assets. As per the information available with NREGASoft, around 30 lakh assets are created annually during a financial year under Mahatma Gandhi NREGA. Ministry of Rural Development proposes to use GIS solutions to visualize, analyze and explore such asset related data and also manage them more effectively along with better understanding of their impact/outcome.

As a follow up of ISRO National meet held on 07 Sep 2015, decision has been taken at Secretary Level to use Bhuvan as the platform for the proposed GIS solution by MoRD. The Mahatma Gandhi NREGA GIS Solution intends to provide a single and integrated view of asset information system pan rural India. GIS enabled portal (e-Governance) will act as a gateway to facilitate and coordinate the exchange and sharing of geospatial data between stakeholders from various jurisdictional levels in the spatial data community. Towards this MoU between NRSC/ISRO and MoRD has been signed on 24 June 2016 with Roles and Responsibilities of NRSC as follows

1. An exclusive Bhuvan–MGNREGA Geo-portal for DoRD will be developed and deployed, with geotagged assets data and report generating tools.
2. A customized Android Mobile App for geo-tagging of completed assets will be developed and provided for field level usage.
3. Standard Operating Procedure (SOP) will be provided by Bhuvan, in consultation with NIC-DoRD and DoRD for Moderation/ Validation of Geotagged content on the Bhuvan platform
4. Work towards realization of an operational interface for exchange of data / services with NIC-DoRD with regard to the MGNREGA and 14 th Finance Commission requirements.

5. Preparation of User Manuals and imparting training for TOT participants.

To address the roles and responsibilities, an exclusive Bhuvan-GeoMGNREGA application has been developed. This document is a user manual describing the detailed procedural steps for Geotagging and Monitoring of MGNREGA Assets using Bhuvan. This user manual elaborates the procedures of accessing the Bhuvan Geo-Platform, user registration, authorization, moderation of geotagged assets through web & tabular view and report generation

2. Authorising MGNREGA Users

URL - <http://bhuvan.nrsc.gov.in/governance/nrega/register>

Following are the user levels and their corresponding roles-

User level	Role	Role Name	Jurisdiction	Access Details
Level 1	Data Collection	Spatial Enumerator (MSE) i.e Gram Rozgar Sahayak (GRS)/ Technical Assistant (TA)	Panchayat	Provision to download the respective area asset details
Level 2	Moderation	GIS Asset Supervisor (GAS) i.e Programme Officer (PO)	Block	Moderate mandal level details and statistics of data collection details
Coordination level 1	Coordination	District GIS Nodal Officer (DGNO)	District	Summary of mandal level assets and moderation status
Coordination level 2	Coordination	State GIS Nodal Officer (SGNO)	State	Summary of district level collection and moderation

				status
Central Level	Monitoring	Central Team	Country	Summary of state wise collection and moderation

Various user privileges are summarized as below -

Central Level Users:

Central Level Users can

1. Approve SGNO
2. Delete SGNO
3. View List of all DGNO users
4. View List of all GAS users
5. View List of all MSE users
6. Statewise Statistics
7. Statistics of Asset Flow

State Level (SGNO) users:

SGNO users can

1. Approve DGNO/GAS user belongs to their state
2. Reject DGNO/GAS user belongs to their state
3. Districtwise Statistics belongs to their state

District Level (DGNO) users:

DGNO users can

1. View list of GAS users belongs to their district
2. View list of MSE users belongs to their district

3. Request for assigning to multiple districts as DGNO & View status of requests

4. Blockwise Statistics

Block Level (GAS) Users:

GAS users can

1. Approve MSE users belongs to their block

2. Reject MSE users belongs to their block

3. Request for assigning to multiple blocks as GAS

4. View status of requests

5. Panchayatwise Statistics

6. Assigning the multiple panchayats to same MSE

Prerequisites for approval is Central, SGNO, DGNO, GAS users should have BHUVAN user account.

2.1 MGNREGA user account activation process

2.1.1 Central Level users approval

Central Level users are approved by NRSC.

2.1.2 SGNO approval by Central Level

a) Login to <http://bhuvan.nrsc.gov.in/governance/nrega/register>

The screenshot shows the Bhuvan Central Authentication Service login page. The header includes the Bhuvan logo (Beta Gateway to Indian Earth Observation), the text 'Central Authentication Service', and logos for the Government of India and ISRO. The main content area is divided into two columns. The left column is titled 'Bhuvan-Single Sign On' and contains a 'Username:' field, a 'Password:' field, a 'Login' button, and links for 'Change Password?', 'Forgot Password?', 'New User?', and 'Didn't receive the account activation link?'. The right column contains a 'Note:' section with two paragraphs of text explaining the use of CAS and the benefits of registration.

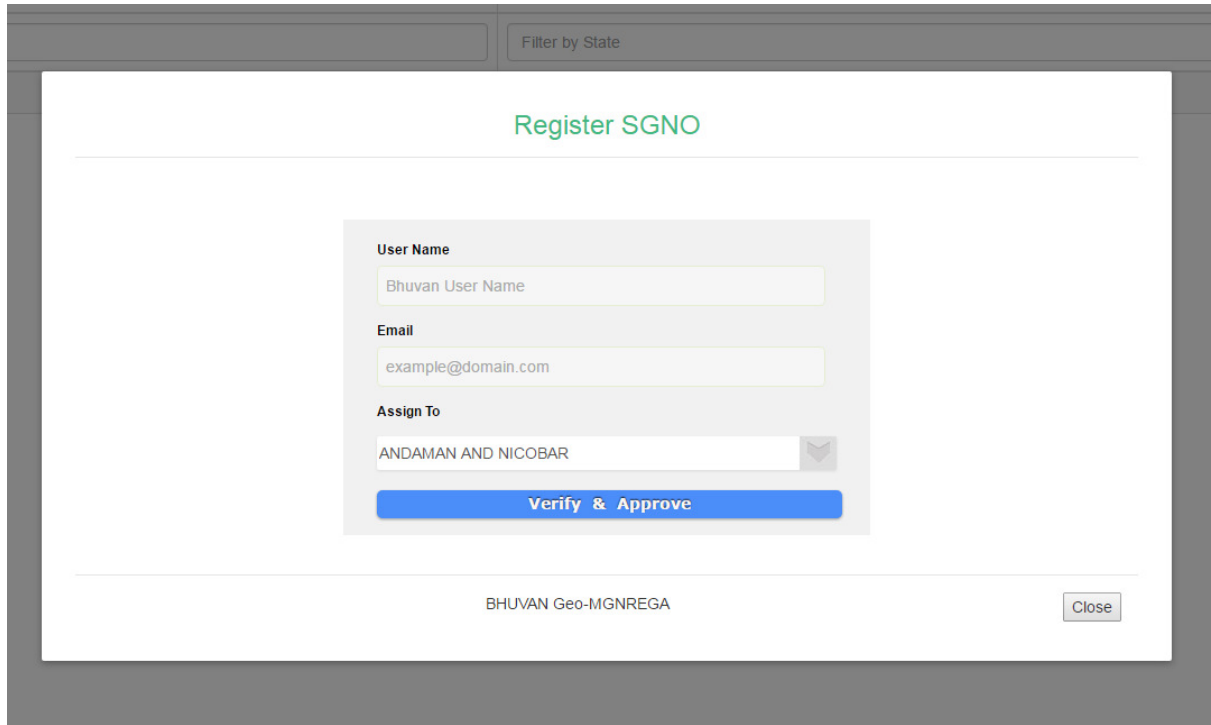
b). Login with BHUVAN username and password.

This screenshot is identical to the one above, but with the 'Username:' field containing the text 'pramodjella' and the 'Password:' field filled with dots. The 'Login' button is still visible and has not been clicked.

c). User will see Welcome screen.



d) Click on Register SGNO button. Pop up will open.



e) Enter SGNO bhuvan user name and email id and select the state to which the user belongs, and click on verify and approve button.

The screenshot shows a web form titled "Register SGNO". The form contains three input fields: "User Name" with the value "bhuvan", "Email" with the value "bhuvan@nrsc.gov.in", and "Assign To" with a dropdown menu set to "CHANDIGARH". Below these fields is a blue button labeled "Verify & Approve". At the bottom of the form, the text "BHUVAN Geo-MGNREGA" is displayed on the left, and a "Close" button is on the right.

f) If username and email id matches with bhuvan user account and user registration successful then success message will appear.

The screenshot shows the same "Register SGNO" form, but with a success message displayed above the input fields: "bhuvan is successfully assigned to CHANDIGARH". The input fields now contain placeholder text: "User Name" is "Bhuvan User Name", "Email" is "example@domain.com", and "Assign To" is "CHANDIGARH". The "Verify & Approve" button is still present. At the bottom, the text "BHUVAN Geo-MGNREGA" and the "Close" button are also visible.

g) If user name does not match with Bhuvan username.

Register SGNO

User Name
 ✘

Email
 ✘

Assign To

[Verify & Approve](#)

BHUVAN Geo-MGNREGA [Close](#)

h) If email id does not match with email id registered

Register SGNO

User Name
 ✔

Email
 ✘

Assign To

[Verify & Approve](#)

BHUVAN Geo-MGNREGA [Close](#)

i) If you try to register any user, who is already registered.

Register SGNO

bhuvan is already Exists

User Name

Email

Assign To

Verify & Approve

BHUVAN Geo-MGNREGA Close

2.1.3 Process for Registration of DGNO /GAS

- a) Login to <http://bhuvan.nrsc.gov.in/governance/nrega/register>
- b) Enter Bhuvan username and email and click on Login button
- c) Following screen will appear to select your role, financial year, state and district and block (if you are GAS user) to which you are nominated by your state



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Welcome jangasairamakrishna Log out

National Remote Sensing Centre 

Role	DGNO
Financial Year	2016-2017
State	ANDAMAN AND NICOBAR
District	SOUTH ANDAMAN

Request for approval & Download Registration Form

- d) Select the details and click on Request for Approval and Download Registration form.

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Welcome qwerty [Log out](#)
National Remote Sensing Centre

Role	DGNO
Financial Year	2016-2017
State	CHANDIGARH
District	DemoDistrictCHANDIGARH

[Request for approval & Download Registration Form](#)

bhuvan
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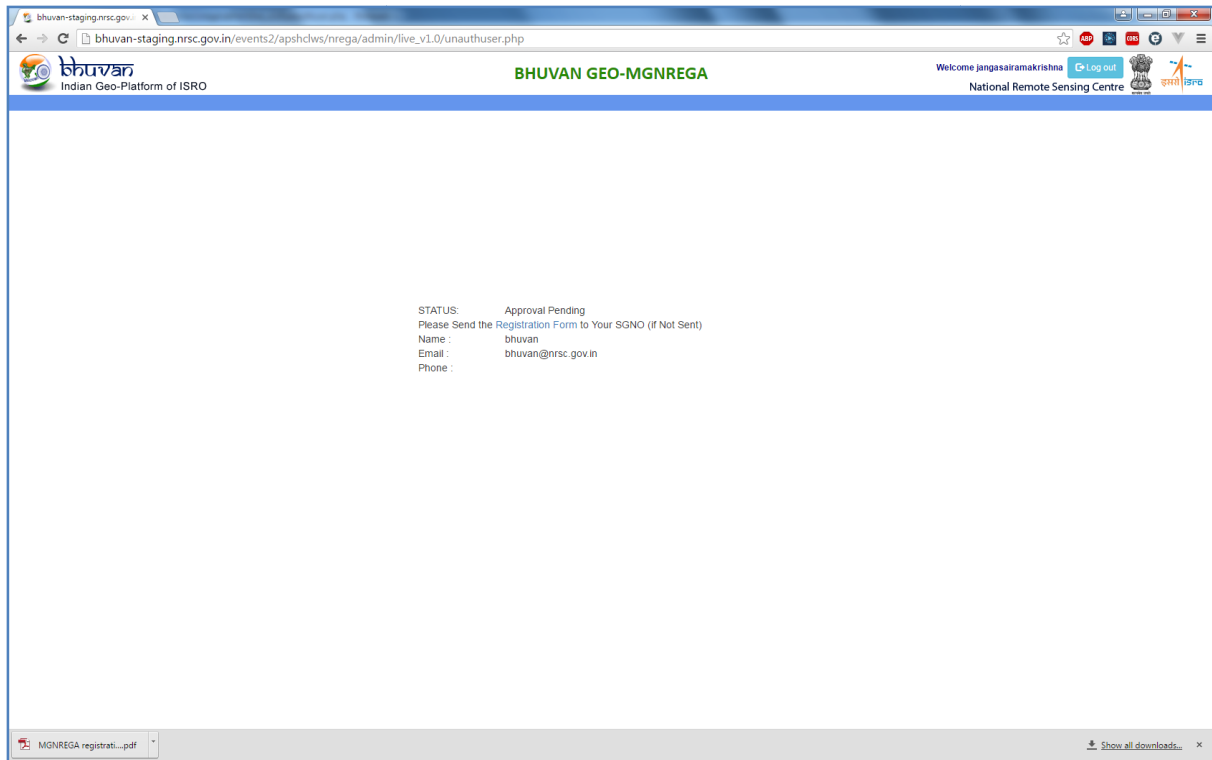
BHUVAN GEO-MGNREGA

Welcome jangasairamakrishna [Log out](#)
National Remote Sensing Centre

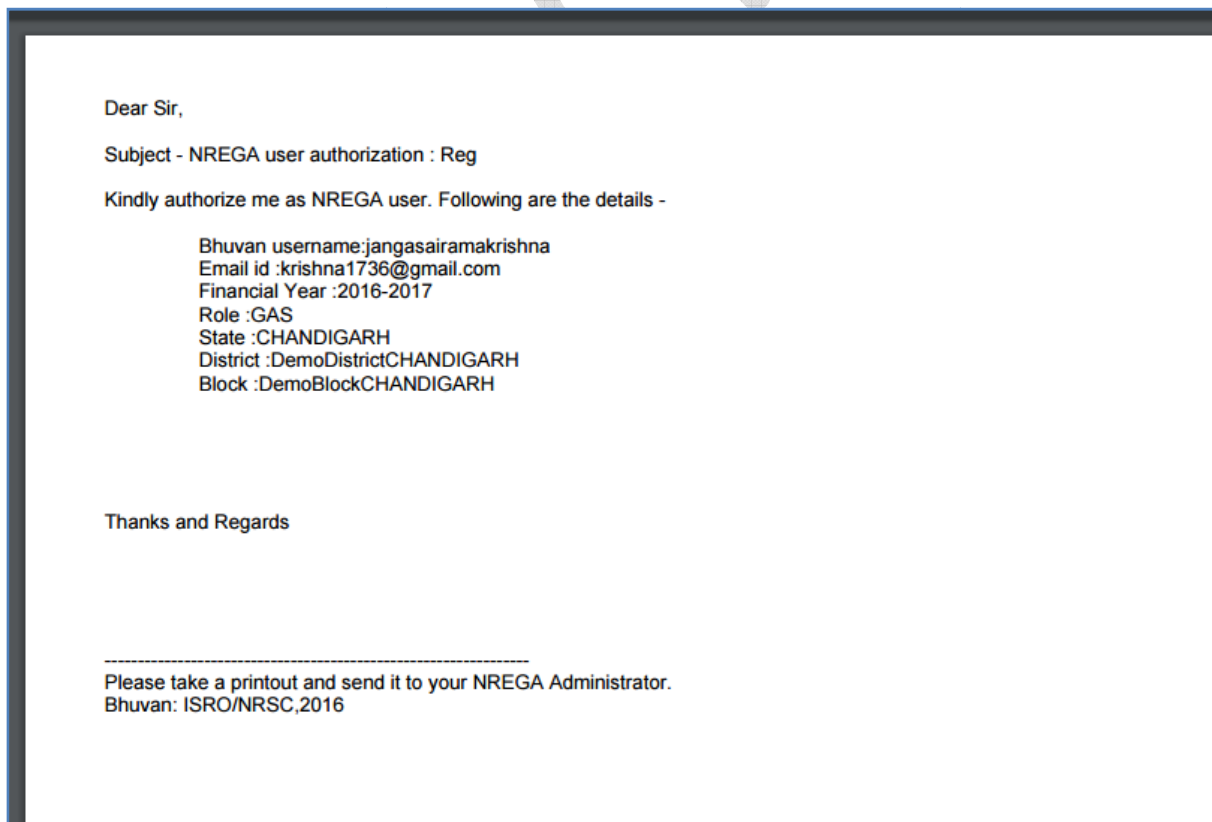
Role	GAS
Financial Year	2016-2017
State	CHANDIGARH
District	DemoDistrictCHANDIGARH
Blocks	DemoBlockCHANDIGARH

[Request for approval & Download Registration Form](#)

e) If request is submitted successfully , a pdf will be downloaded and your status and respective SGNO details will be shown (If available)



f) Downloaded Registration form will contain Information about the request. Send this pdf to concerned state SGNO for approval.



2.1.4 Process for approval of DGNO/GAS by SGNO

- Login to <http://bhuvan.nrsc.gov.in/governance/nrega/register>
- Login by entering Bhuvan user name password.
- Welcome screen will appear.

The screenshot shows the 'Approve DGNO/GAS' interface for the financial year 2016-2017. The table has the following structure:

User Name	Role	Jurisdiction	Approve	Reject
No matching records				

- Select Approve DGNO/GAS from options available.

The screenshot shows the 'Approve DGNO/GAS' dropdown menu open. The menu options are:

- Approve DGNO/GAS (highlighted)
- Rejected Users
- Delete DGNO/GAS

- Select Financial Year from options available.

The screenshot shows the 'Approve DGNO/GAS' dropdown menu open. The '2016-2017' option is highlighted in the dropdown list.

- List of DGNO/GAS users for that financial year will be displayed for approval or rejection.

The screenshot shows the 'Approve DGNO/GAS' interface for the financial year 2016-2017. The table has the following structure:

User Name	Role	Jurisdiction	Approve	Reject
jangasairamakrishna	GAS	DemoBlockCHANDIGARH	✓	✗

1 Records

- Click on Approve icon (right tick mark in green) to approve (If user is nominated by respective state and SGNO have received pdf from respective GAS/DGNO)

h) Reject, if user is not nominated by respective state using reject option (red circle with cross mark)

2.2 MGNREGA user Privileges

2.2.1 Central Level Users

Central Level Users can

1. Approve SGNO
2. Delete SGNO
3. View List of all DGNO users
4. View List of all GAS users
5. View List of all MSE users
6. Statewise Statistics
7. Statistics of Asset Flow



1. Approve SGNO

This process is explained in section 2.1.2.

2. Delete SGNO

Select Delete SGNO, list of SGNO users' data will be listed. To delete just click on red color cross mark icon in respective row.

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Delete SGNO Register SGNO Records: 10

User Name	State	Delete
Filter by User Name	Filter by State	
bhuvan	CHANDIGARH	✖

1 Records

3. View List of all DGNO users

Select List of DGNO users' option

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List of DGNO users 2016-2017 Register SGNO Records: 10

User Name	State	District
Filter by User Name	Filter by State	Filter by District
qwerty	ANDAMAN AND NICOBAR	SOUTH ANDAMAN

1 Records

By selecting financial year, list of DGNO users belongs to particular financial year will be listed.

4. View List of all GAS users

Select List of GAS users' option

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List of GAS users 2016-2017 Register SGNO Records: 10

User Name	State	District	Block
Filter by User Name	Filter by State	Filter by District	Filter by Block
jangasairamakrishna	ANDHRA PRADESH	EAST GODAVARI	Allavaram

1 Records

By selecting financial year, list of GAS users belongs to particular financial year will be listed and can be viewed.

5. View List of all MSE users

Select List of MSE users' option

List of MSE users

2016-2017

Register SGNO

Records: 10

User Name	State	District	Block	Panchayat
barounda	CHHATTISGARH	RAIPUR	TILDA	Barounda
RAM NARESH	UTTAR PRADESH	SANT KABEER NAGAR	SEMARIYAWAN	CHHATA
RAMANUJ	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
S. S. SHARMA	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
bhiloni	CHHATTISGARH	RAIPUR	TILDA	Bhiloni
09212306625	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
1988keshav	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayat-2
9466593196	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
9933450836	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
A ritual sahu	CHHATTISGARH	RAIPUR	ABHANPUR	Khilora

<< < 1 2 3 4 5 6 7 8 9 10 > >>

925 Records

By selecting financial year, list of MSE users belongs to particular financial year can be viewed.

Note: Filters available like state, district, and block can be used to see only respective users' data and count.

6. Statewise Statistics

Select the "Statistics" option from the dropdown and state wise statistics will be displayed as shown below.

Statistics

2016-2017

Register

Records: 10

State	Total Assets	Geotagged	Accepted	Rejected	Pending	Flagged	Unregistered
ANDHRA PRADESH	147393	1	0	0	1	0	0
ARUNACHAL PRADESH	3156	851	672	146	23	8	2
ASSAM	20219	4828	3953	498	165	0	212
BIHAR	31064	13631	12463	471	318	186	94
CHANDIGARH	424	15921	517	98	11629	3543	87
CHHATTISGARH	149647	14773	12774	933	846	18	202
GOA	44	0	0	0	0	0	0
GUJARAT	101151	8225	7672	288	35	28	202
HARYANA	6972	3459	3283	150	12	5	9
HIMACHAL PRADESH	47452	1370	1121	152	51	42	4

<< < 1 2 3 4 > >>

31 Records

7. Statistics of Asset Flow

Select the "Statistics of Asset Flow" option from the dropdown. It will show the state wise assets received by the NRSC. User can filter using the start date and end date.

State	Asset Master Count	Asset Details Count	Geo Taggable Assets
ANDAMAN AND NICOBAR	0	0	0
ANDHRA PRADESH	0	0	0
ARUNACHAL PRADESH	1	0	0
ASSAM	570	0	0
BIHAR	559	0	0
CHANDIGHARH	0	0	0
CHHATTISGARH	954	816	816
DADRA & NAGAR HAVELI	0	0	0
DAMAN & DIU	0	0	0
GOA	0	0	0

All the above tabular views can be exported as CSV using 'Export' option available in bottom of the page. This is available only in central level log in.

2.2.2 State Level (SGNO) users

SGNO users can

1. Approve DGNO/GAS user belongs to their state
2. Reject DGNO/GAS user belongs to their state
3. Districtwise Statistics of their state

These processes are explained in section 2.1.4.

2.2.3 District Level (DGNO) users

DGNO users can

1. View list of GAS users belongs to their district
2. View list of MSE users belongs to their district
3. Request for assigning to multiple districts as DGNO & View status of requests
4. Blockwise statistics of corresponding district

1. View list of GAS users belongs to their district

Select List of GAS users' option and financial year to see list of GAS users belongs to that financial year.

The screenshot shows the 'List of GAS users' dropdown menu with 'List of GAS users' selected. The financial year is set to 2016-2017. The table below shows columns for State, District, and Block, with a 'No matching records' message displayed.

2. View list of MSE users belongs to their district

Select List of MSE users' option and financial year to see list of MSE users belongs to that financial year.

The screenshot shows the 'List of MSE users' dropdown menu with 'List of MSE users' selected. The financial year is set to 2016-2017. The table below shows columns for User Name, State, District, Block, and Panchayat, with a list of users displayed.

User Name	State	District	Block	Panchayat
RAMANUJ	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
S. S. SHARMA	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
09212306625	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
1988keshav	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayat-2
9466593196	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
A. K. Rajput	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
ABC	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
ABPO BHUNA	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
ABPO RATIA	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH
APO DRDA	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	DemoPanchayatCHANDIGARH

3. Request for assigning to multiple districts as DGNO & View status of requests

Click on profile, following screen will appear with status of all requests.

The screenshot shows the 'Register for Another District' dropdown menu with 'Register for Another District' selected. The financial year is set to 2016-2017. The table below shows columns for Role, Financial Year, State, District, Status, and Download, with a single record displayed.

Role	Financial Year	State	District	Status	Download
DGNO	2016-2017	CHANDIGARH	DemoDistrictCHANDIGARH	Approved	

To request for another district as DGNO please click on Register for Another district button. Following pop up will appear to select financial year and district to which users are nominated as DGNO. Select the details and click on Request for Approval and Download Registration form. If request submitted successfully, pdf will be downloaded.

4. DGNO can monitor the performance of blocks using the statistics option. Block wise Geotagged Status, Total assets available for geotagging can be visualized as shown below

Block	Total Assets	Geotagged	Accepted	Rejected	Pending	Flagged	Unregistered
ALIPURDUAR-I	1226	801	703	3	95	0	0
ALIPURDUAR-II	2123	1824	1616	208	0	0	0
FALAKATA	2313	1345	1244	21	79	1	0
KALCHINI	1281	1129	839	106	184	0	0
KUMARGRAM	1379	942	749	48	145	0	0
MADARIHAT	2302	1201	1075	126	0	0	0

2.2.4 Block Level (GAS) Users

GAS users can

1. Approve MSE users belongs to their block
2. Reject MSE users belongs to their block
3. Delete MSE users belongs to their block
4. View list of rejected users and approve if required
5. Request for assigning to multiple blocks as GAS & View status of requests
6. Panchayatwise Statistics
7. Assigning the multiple panchayats to the same MSE.

Panchayat	UID	Approve	Reject
-----------	-----	---------	--------

1. Approve MSE users belongs to their block
2. Reject MSE users belongs to their block
3. Delete MSE users belongs to their block

The above 3 processes are similar like the processes explained in previous sections 2.1.4, 2.2.1.

4. View list of rejected users and approve if required

Select the rejected users option and financial year to see list of users rejected for that financial year. If at all account needs to be approved, it can be accomplished by clicking on right tick mark icon in green.

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Rejected Users 2016-2017 Profile Records: 10

User Name	Panchayat	UUID	Approve
9718290332	DemoPanchayatCHANDIGARH	c99f9ee8e1592eee	✓
A	DemoPanchayatCHANDIGARH	ec44a6f625180d31	✓
ATAUR RAHMAN	DemoPanchayatCHANDIGARH	5591658f6d40c2f3	✓
Abc	DemoPanchayatCHANDIGARH	729fdb71380a8c8d	✓
Abc	DemoPanchayatCHANDIGARH	e34b09dde711707d	✓
Chandigarh	DemoPanchayat-2	9b0e2a728897f302	✓
Chandu	DemoPanchayatCHANDIGARH	e54c36c5238af373	✓
DGNO	DemoPanchayatCHANDIGARH	b79ed76b2690de82	✓
Demo	DemoPanchayatCHANDIGARH	38ee9cd4ebdea06c	✓
Demo	DemoPanchayatCHANDIGARH	6e70afc9abf53a1e	✓

<< < 1 2 3 4 > >>
37 Records

5. Request for assigning to multiple blocks as GAS & View status of requests

Click on profile button and following page with list of requests and status will appear.

bhuvan Indian Geo-Platform of ISRO **BHUVAN GEO-MGNREGA** Welcome jangasairamakrishna Log out National Remote Sensing Centre

Register for Another Block Approve MSE users Records: 10

Role	Financial Year	State	District	Block	Status	Download
GAS	2016-2017	CHANDIGARH	DemoDistrictCHANDIGARH	DemoBlockCHANDIGARH	Approved	

1 Records

If users want to request for another block as GAS please click on register for Another Block button. Pop up will appear to select financial year and block to

which users want to request.

Request for Another Block as GAS

Financial Year
2015-2016

Block
Addateegala

Request for Approval & Download Registration form

BHUVAN Geo-MGNREGA Close

Click on Request for Approval & Download Registration form, if request submitted successfully, pdf will be downloaded and status will be shown as pending, if required can download pdf again by click on Registration form link available.

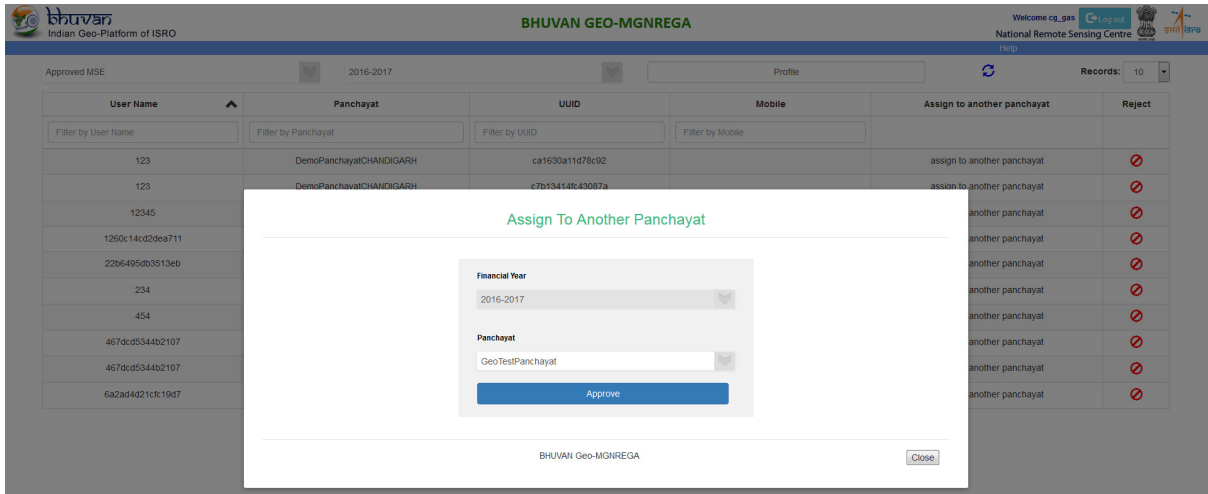
Register for Another Block as GAS Approve MSE users Records: 10

Role	Financial Year	State	District	Block	Status	Download
Filter by Role	Filter by Financial Year	Filter by State	Filter by District	Filter by Block	Filter by Status	
GAS	2016-2017	ANDHRA PRADESH	EAST GODAVARI	Allavaram	Approved	
GAS	2016-2017	ANDHRA PRADESH	EAST GODAVARI	Amalapuram	Pending	Registration Form
GAS	2015-2016	ANDHRA PRADESH	EAST GODAVARI	Addateegala	Pending	Registration Form

3 Records

6.GAS can monitor the performance the panchayats using the statistics option.

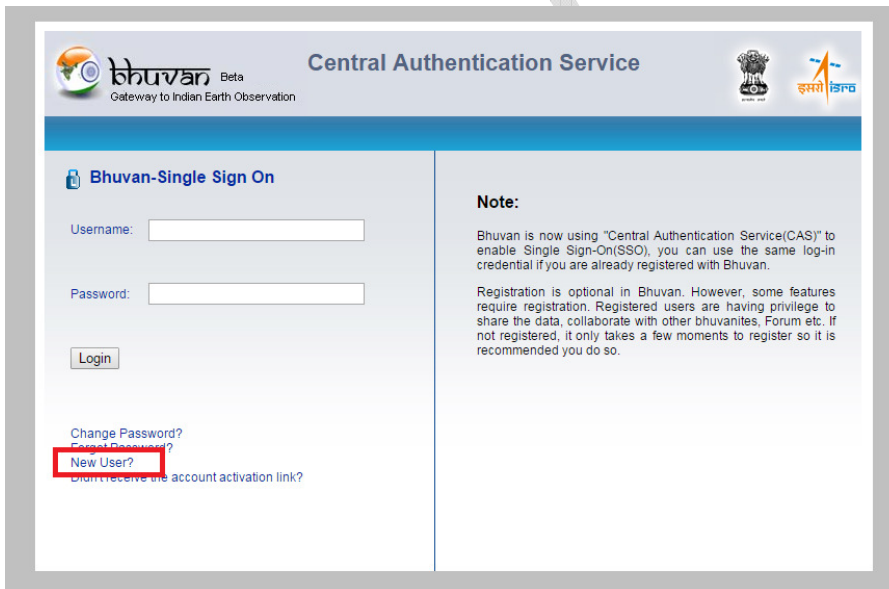
7.GAS can assign mutilple panchayats for the same MSE. Click on “Approved MSE” and the list of approved MSE’s of corresponding block will be populated in the screen. Click on “assign to another panchayat” and popup window will be populated. Select the panchayat and click on “Approve”.



2.3 Creating Bhuvan User Account

A prerequisite for approval is 'Central, SGNO, DGNO, GAS users should have BHUVAN user account'.

1. User can register by clicking on the New user link of the Login screen. This Login screen is common to all Bhuvan applications.



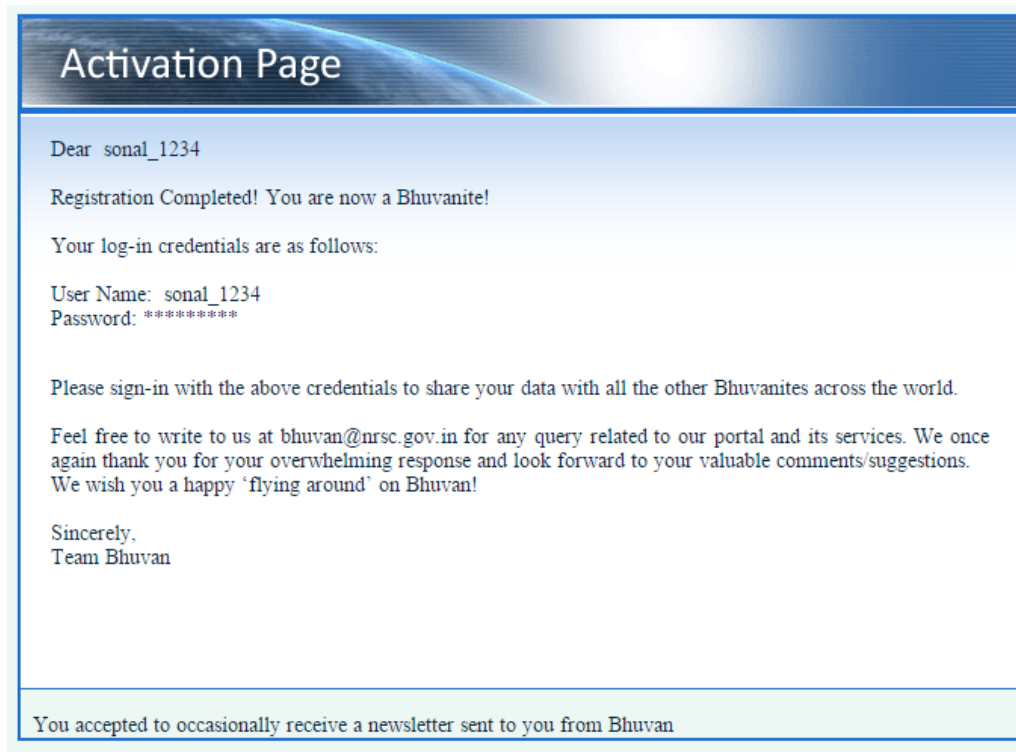
2. On click of New user following screen appears where user has to give his username, Email id, Country and organization details. Filling other details is optional.

Note: For username only alphabets, numbers, period (.), hyphen (-) and underscore (_) are allowed.

3. Once the form is submitted. Following message appears. After that check your email id for activation link.

4. Following is the snapshot of mail which will be received at your email-id. Click on the link highlighted below.

6. After successfully submitting the form the following screen appears. Now you can use your username and password for Sign- in to any bhuvan application.



Other Steps - Account Reactivation

7. In case you do not receive activation link - It is likely that you have entered wrong/different email id during registration. Please verify the same by clicking on - '[Didn't receive the account activation link?](#)' of the login screen.

Bhuvan Beta
Gateway to Indian Earth Observation

Central Authentication Service

Bhuvan-Single Sign On

Username:

Password:

[Change Password?](#)
[Forgot Password?](#)
[New User?](#)
[Didn't receive the account activation link?](#)

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.

8. On clicking of the link mentioned in step 7. Following screen appears, enter your email id and submit. It will give the status of your registered email id. In case account not-activated, it will re-send the activation link.

Bhuvan Beta
Gateway to Indian Earth Observation

Account Reactivation

Enter your Email and click "reactivate" button for re-activation
your account is already activated.

Email

Enter the code
(characters are case-sensitive)

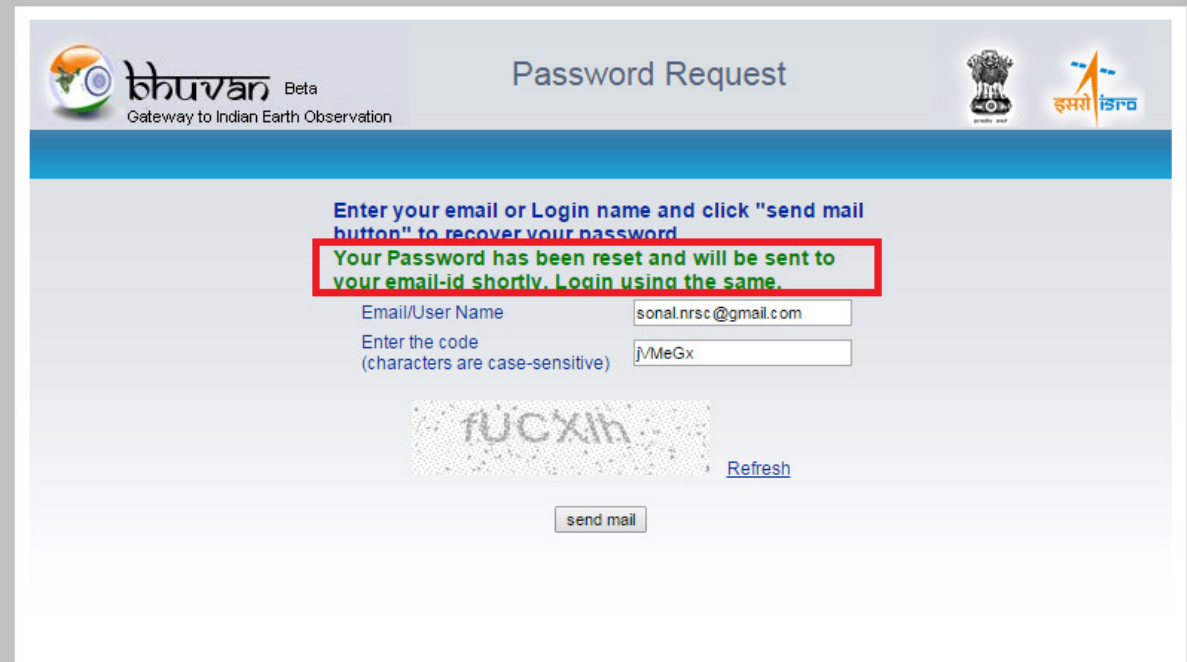
[Refresh](#)

[Click here to Login](#)

Other Steps - Forgot Password

9. In case you forgot your password click on the "Forgot Password" link to get a new password.

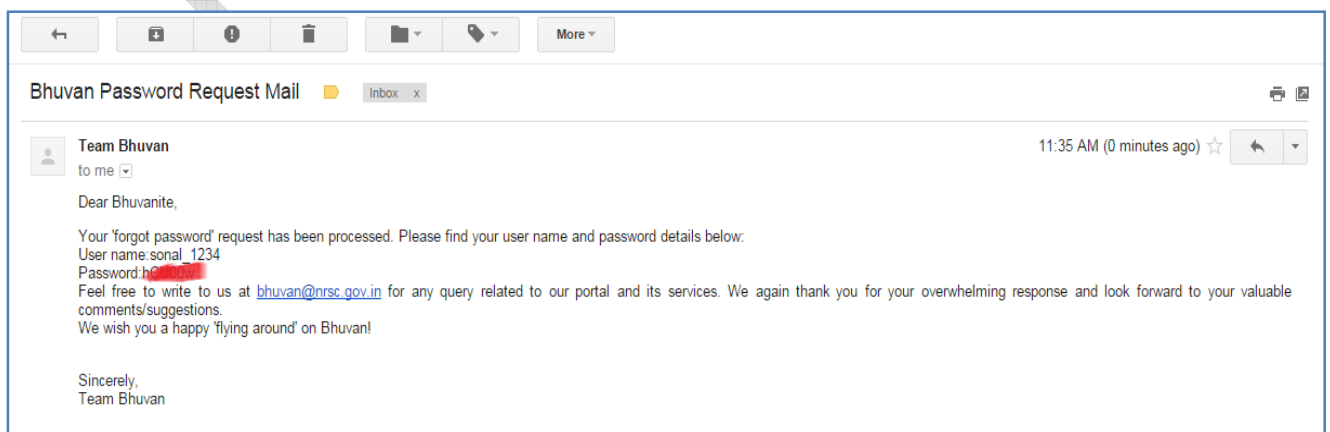
10. By clicking the above link, following screen appears where users can give user name or email id for placing the password reset request. On entering valid username/email-id, an email will be sent to registered mail id. It may take few minutes to receive the mail. So need not submit the request multiple times.



The screenshot shows the 'Password Request' page on the Bhuvan website. The page header includes the Bhuvan logo (Beta Gateway to Indian Earth Observation) and the Government of India emblem. The main heading is 'Password Request'. Below the heading, there is a blue bar with the text: 'Enter your email or Login name and click "send mail button" to recover your password'. A red box highlights a green message: 'Your Password has been reset and will be sent to your email-id shortly. Login using the same.' Below this, there are two input fields: 'Email/User Name' with the value 'sonal.nrsc@gmail.com' and 'Enter the code (characters are case-sensitive)' with the value 'jVMeGx'. A CAPTCHA image showing the characters 'rUCXih' is displayed below the code field, with a 'Refresh' link to its right. At the bottom, there is a 'send mail' button.

11. Following is the snapshot of email received for "forgot password" request. The same can be used for sign-in to Bhuvan. It is recommended that the user changes password from the default system-generated one.

Note - Do not add extra space while entering the password in log-in form. It is suggested to explicitly type the password in the form provided (login screen) instead of using copy-paste of the password from mail.



Other Steps - Change Password

12. In order to change password, click on "change password" link of the login screen as below and by entering the existing username and password, the password can be changed successfully.

Bhuvan Beta
Gateway to Indian Earth Observation

Central Authentication Service

Bhuvan-Single Sign On

Username:

Password:

Login

Change Password?
Forgot Password?
New User?
Didn't receive the account activation link?

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 Beta
Gateway to Indian Earth Observation

Change Password

If your account is not activated you cannot change your password.

Your password is updated succesfully.

User Name:

Old Password:

New Password:

New Password Confirm:

submit

[Click here to Login](#)

3. MGNREGA Assets Visualisation, Moderation and Report Generation

This web-based application allows users to visualize the geo-tagged locations. And it also allows authorized users to moderate (Map and Tabular view) the collected geo-tagged points before it is made visible to the public and get the summary and detailed of the points geo-tagged in their respective jurisdiction.

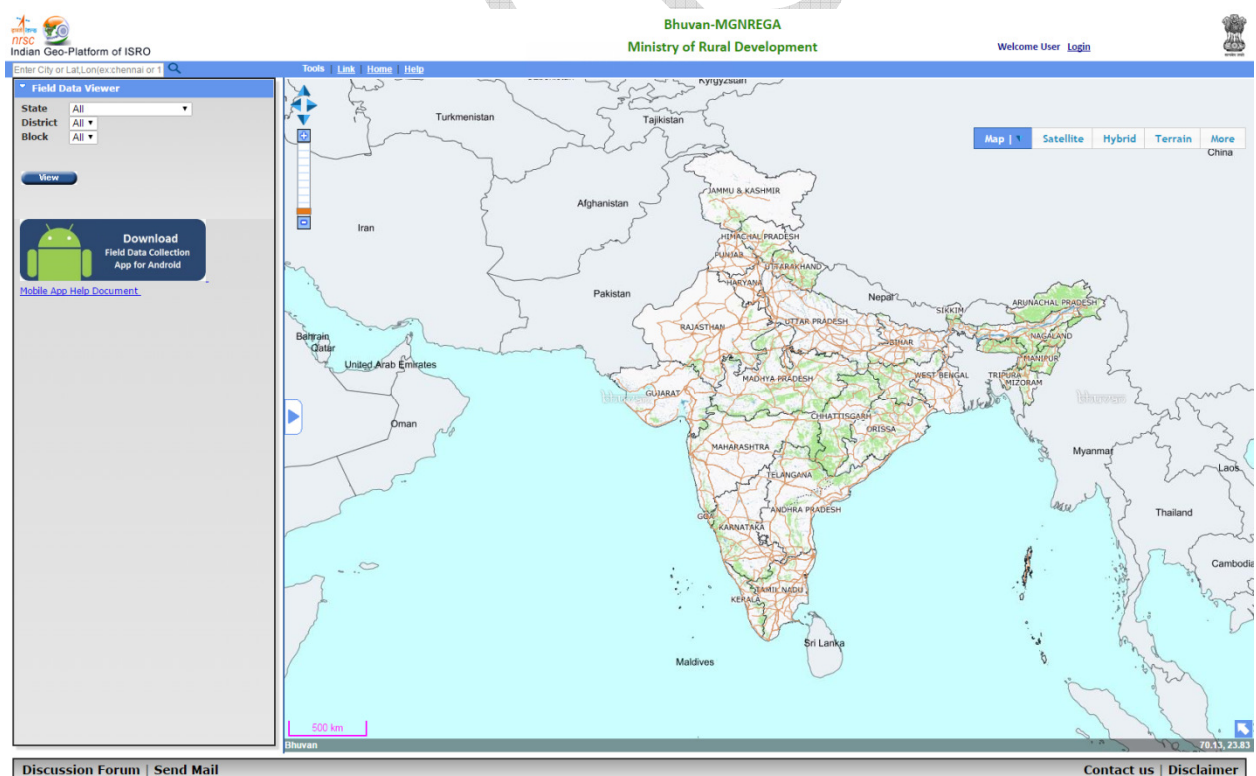
3.1 Visualisation

Following are the steps to access this web application -

STEP: 1

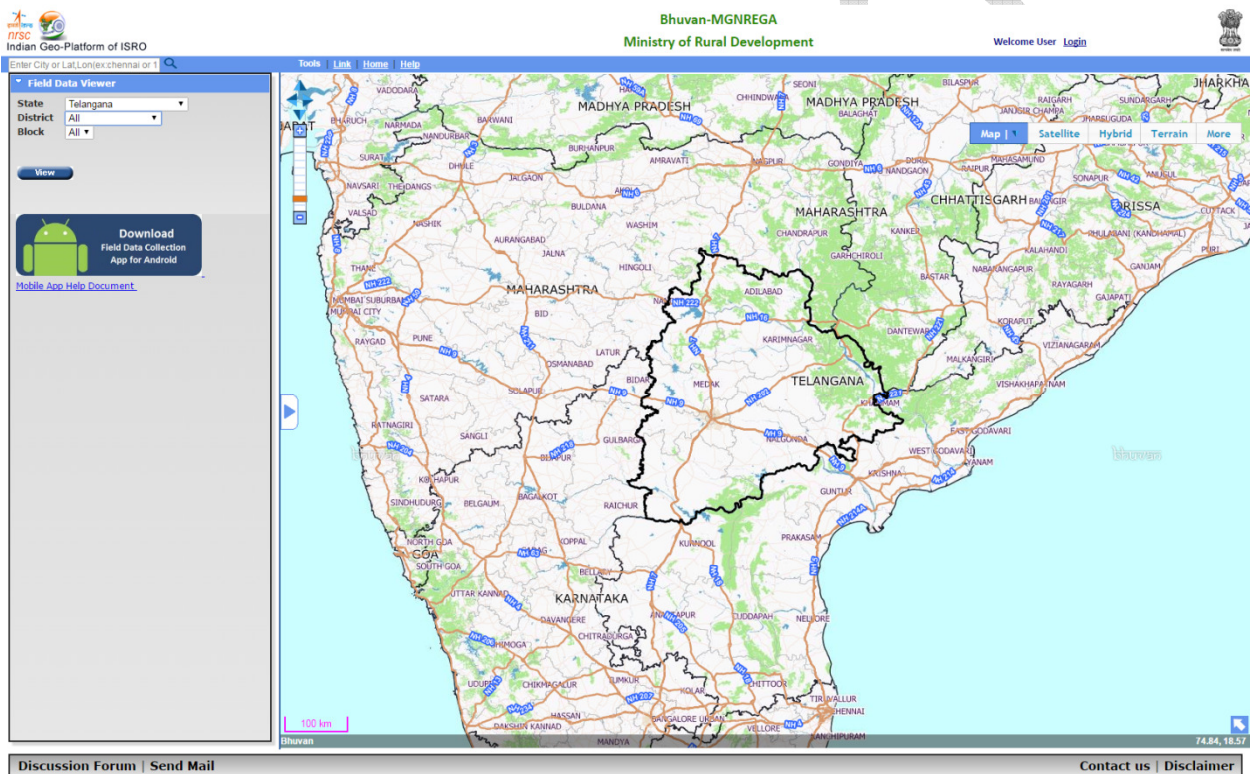
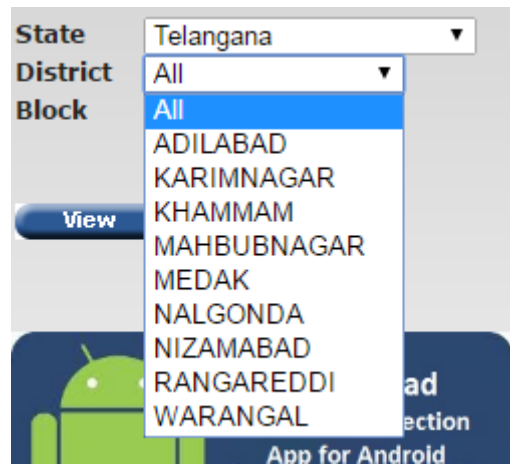
Visit the URL for Bhuvan - MGNREGA application -

<http://bhuvan.nrsc.gov.in/governance/mgnrega>

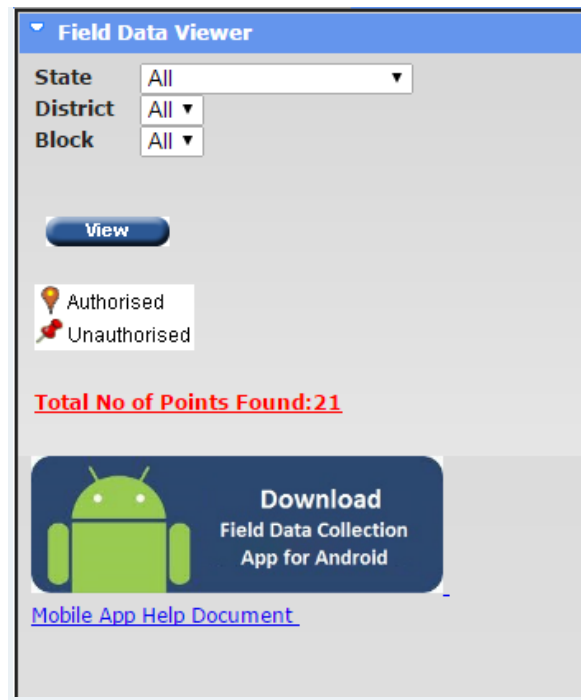


Select the state from drop down. eg: State

The map will be zoomed to Telangana state. Users can also select District and block-wise view.



After selecting the state click on view button, it will display the total number of geo-tagged points in that state. Only points accepted by the moderators will be shown to the public. Thus in below snapshot it shows 21 points.



STEP:2

To see all the data, authorized user should login. There are different types of logins - Central, State, District and Block.

Moderation privileges are given only to the Block level.

Below procedure is explained for user with central login id.

STEP: 3 (Central User)

The central user will be able to see the state-wise statistics.

Statistics ✕

GeoTagging Status for the country
 Geotagged information last updated on :2016-10-21 15:27:39

Total NREGA Assets Geotagged:148636
Yet to be Moderated :21197
Moderated :122732
Accepted :111390
Rejected :11342
Flagged :4707

Performance of Country:

State Name	Total	Yet to be Moderated	Moderated	Accepted	Rejected	Flagged
ARUNACHAL PRADESH	801	41	752	637	115	8
ASSAM	352	13	339	252	87	0
BIHAR	3464	227	3126	2980	146	111
CHANDIGGARH	9566	5596	435	375	60	3535

Statistics ✕

PUNJAB	59	0	59	50	9	0
RAJASTHAN	4863	1097	3733	3422	311	33
SIKKIM	189	70	119	92	27	0
TAMIL NADU	9811	1003	8805	8452	353	3
TELANGANA	20981	1378	19532	17998	1534	71
TRIPURA	70	7	63	55	8	0
UTTAR PRADESH	1080	177	885	750	135	18
UTTARAKHAND	737	154	580	466	114	3
WEST BENGAL	12405	1551	10848	9449	1399	6

User Registration Status

Total SGNO users - 34
 Total DGNO users - 199
 Total GAS users - 1395

MSE

Total	Approved	Pending	Deleted
34823	16642	12166	6015

STEP:4 (State User)

The state user will be able to see the district-wise statistics for the state. Also user will be able to have option for authorizing District and Block level users for the concerned state.

The screenshot shows the 'Field Data Viewer' interface. On the left, there are filters for State (All), District (All), and Block (All). A red box highlights the link 'Authorize District and Block-level Supervisors'. Below this is a 'View' button and a 'Download Field Data Collection App for Android' button. On the right, a 'Statistics' window is open, displaying 'Rejected :1399' and 'Flagged :6'. It also shows a table for 'Performance of States' with columns for District Name, Total, Yet to be Moderated, Moderated, Accepted, Rejected, and Flagged. Below this is a 'User Registration Status' section showing 'Total DGNO users - 3' and 'Total GAS users - 48', followed by an 'MSE' table.

District Name	Total	Yet to be Moderated	Moderated	Accepted	Rejected	Flagged
24 PARGANAS (NORTH)	4510	966	3540	2938	602	4
ALIPURDUAR	4574	407	4167	3727	440	0
HOOGHLY	3321	176	3143	2786	357	2

Total	Approved	Pending	Deleted
628	440	99	89

STEP:5 (District User)

The district users will be able to see the district -wise statistics for their district.

Statistics

GeoTagging Status for District :
 Geotagged information last updated on :2016-07-21 18:41:54

Total NREGA Assets Geotagged:2
 Moderated :1
 Accepted :0
 Rejected :1

Performance of Districts:

Block Name	Total	Moderated	Accepted	Rejected
MAYONG	2	1	0	1

STEP:6 (Block User)

The block users will be able to see the statistics of their block/s. Also will be able to have option for authorizing Panchayat level users for the concerned block. Moderation privileges are also given to this user.

Field Data Viewer

State: All
 District: All
 Block: All

Enable Moderation

[Authorize Panchayat-level Surveyors](#)

Statistics

View

Statistics will be seen as below -

Field Data Viewer

State All

District All


Block All

Enable Moderation

[Authorize Panchayat-level Surveyors](#)

Statistics

View



Download
Field Data Collection
App for Android

[Mobile App Help Document](#)

[Registration and Approval Manual](#)

Statistics

Total NREGA Assets Geotagged:9566

Yet to be Moderated :5595

Moderated :436

Accepted :376

Rejected :60

Flagged :3535

Performance of Blocks:

Panchayat Name	Total	Yet to be Moderated	Moderated	Accepted	Re
DemoPanchayatCHANDIGARH	9566	5595	436	376	60

User Registration Status

MSE

Total	Approved	Pending	Deleted
10767	1897	7145	1725

3.2 Moderation

Moderation privilege is given to Block (GAS) level users only. This can be done in 2 levels i.e. i) Map view and ii) Tabular view

3.2.1 Map view

After login, user will get a new button named 'Enable Moderation'.

STEP: 1

To perform moderation operation click on 'Enable Moderation' icon to moderate the points.

Field Data Viewer

Date Mode Day Period

Start Date: [Select Date](#)

End Date: [Select Date](#)

Block

Accepted Points Rejected Points

Validated Date Created Date

[Disable Moderation](#)

[Authorize Panchayat-level Surveyors](#)

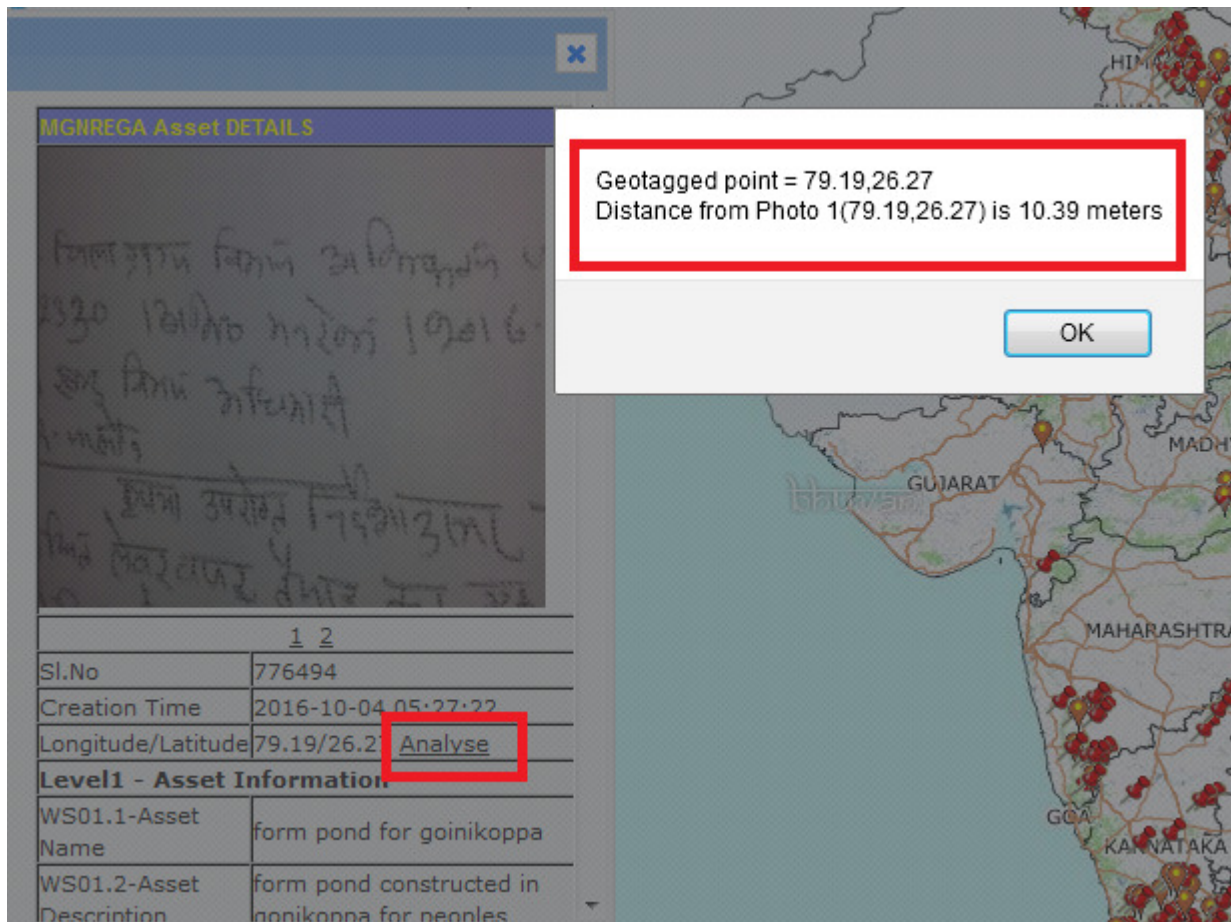
Statistics

[View](#)

Select any point by clicking on it. After selecting the point a pop up will display the information of geotagged points along with the photos.

User has an option to accept, edit or reject any point.

1. To check the Distance between Photo locations and Geo-tagged location, user can click on 'Analyse' link. If no information is displayed, this implies the Photo location is not captured properly. Please note - Latitude Longitude values are rounded-off to 2 decimal places only for display.



2. To reject the geo-tagged MGNREGA Assets click on reject button on bottom of pop up. After clicking on reject button a new box will open i.e 'Reason for reject'. Enter the reason for rejection and select the reject button. Point will be rejected successfully.
3. To accept the geo-tagged point, click on accept button on bottom of pop up. Another pop up will open. Click ok button to accept the point. Click cancel button if not. If user clicks on ok button, the point is accepted. Another pop up will open and gives the message like accepted successfully. And the point will disappear from the map for further moderation.
4. To Flag a work code for anomalies, user can select "Flag work" option and then give reason for flagging.

CHANDIGHARH	
WS01.11-Year of Completion	2016-2017
WS01.12-Work Code	0601001001/WC/GEO/238
WS01.13-Work Name	TEst Work for GEMGNREGA238
WS01.14-Work Location	
WS01.15-Work Financial Year	2016-2017
WS01.16-Work Start Date	2016-07-27 00:00:00+05:30
WS01.17-Work Person Days	0
WS01.18-Expenditure Unskilled	0
WS01.19-Expenditure Material/Skilled	0
WS01.20-Other Funds	

Accept Reject Flag work

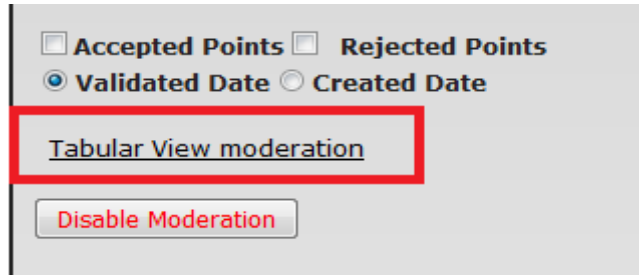
Flag workcode

Asset id	06000000073
Work Code	0601001001/AV/4
Panchayat Code	0601001001

Reason

3.2.2 Tabular view

Table View for moderation is available to the user by clicking on the "Tabular View Moderation" link on the Web Portal.




On click of 'Tabular view Moderation' option, user will get following screen having details of

1. Asset id
2. Work code
3. GPS Accuracy
4. MSE user name
5. Panchayat in which asset is present
6. Time at which geo-tagging happened
7. Link to view in the map
8. Two geo-tagged photos if available


Along with Accept, reject and flag options.

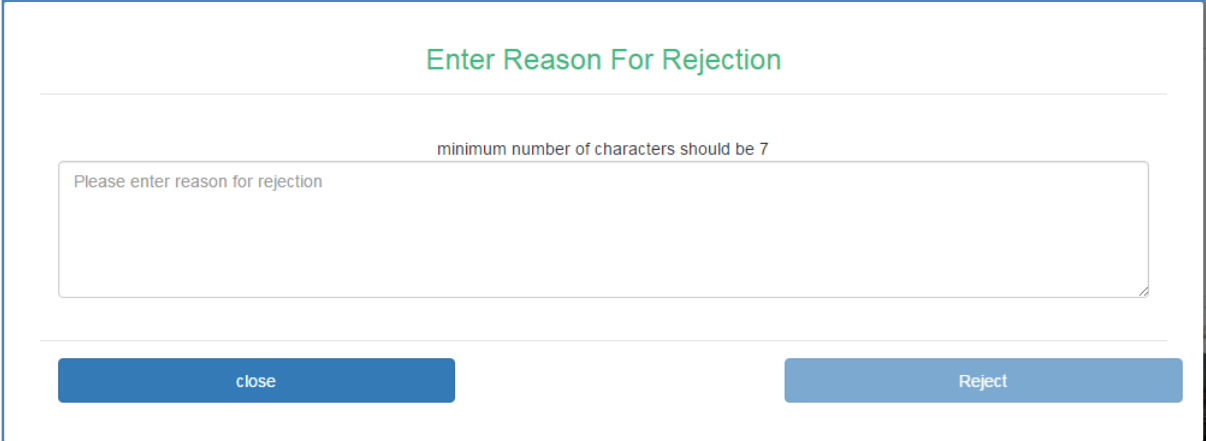
Asset ID	Work Code	Accuracy	MSE Name	Panchayat	Time	Link	Image1	Image2	Accept	Reject	Flag
0600000049	0601001001/WH/2	16	Gram rojgar sahayak	DemoPanchayatCHANDIGARH	2016-10-07 16:25:00	view in map			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0600000049	0601001001/WH/2	74	Gram rojgar sahayak	DemoPanchayatCHANDIGARH	2016-10-07 16:03:10	view in map			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0600000049	0601001001/WH/2	24	vinod prs	DemoPanchayatCHANDIGARH	2016-10-13 12:34:28	view in map			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0600000049	0601001001/WH/2	4	rajanna_pdo	DemoPanchayatCHANDIGARH	2016-10-13 12:28:49	view in map			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. Accept the geo tagged photos

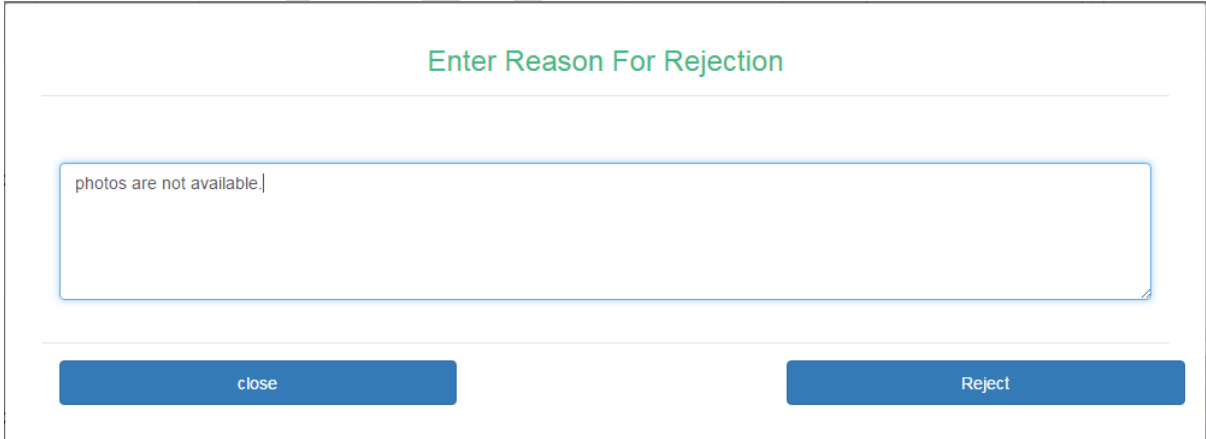
To accept geo tagged photos click on accept icon  . If the action is successful, List will be refreshed with list of assets pending for moderation.

2. Reject the geo tagged photos

To reject geo tagged photos click on reject icon  . Pop up will open to enter reason for rejection.



The screenshot shows a modal window titled "Enter Reason For Rejection" in green text. Below the title is a horizontal line. Underneath, there is a note: "minimum number of characters should be 7". A text input field contains the placeholder text "Please enter reason for rejection". At the bottom of the modal, there are two blue buttons: "close" on the left and "Reject" on the right.

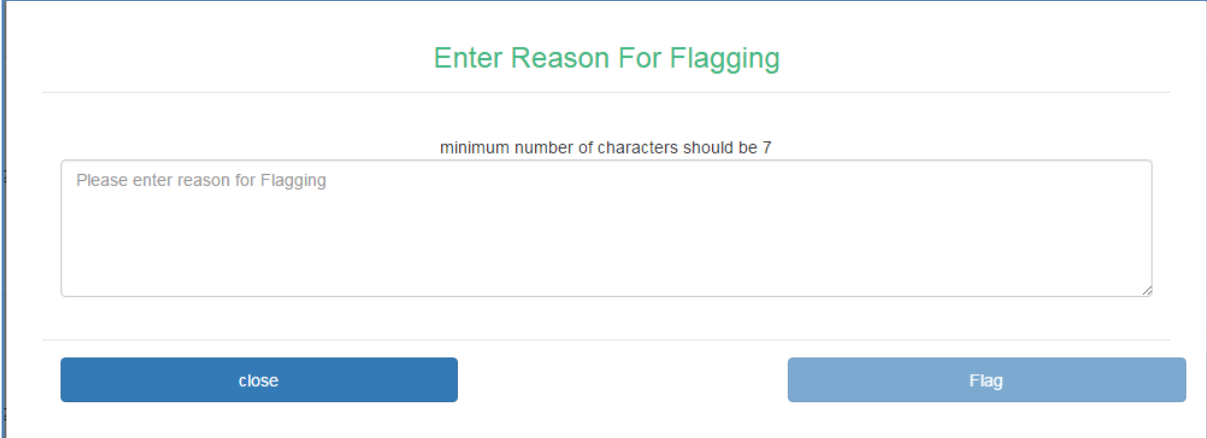


The screenshot shows the same "Enter Reason For Rejection" modal window. The text input field now contains the text "photos are not available.". The "close" and "Reject" buttons remain at the bottom.

If action is successful List is refreshed with list of assets pending for moderation.

3. Flag the asset (asset id and work code)

To flag an asset , click on flag icon  , pop up will open to enter reason for flagging.



Enter Reason For Flagging

minimum number of characters should be 7

Please enter reason for Flagging

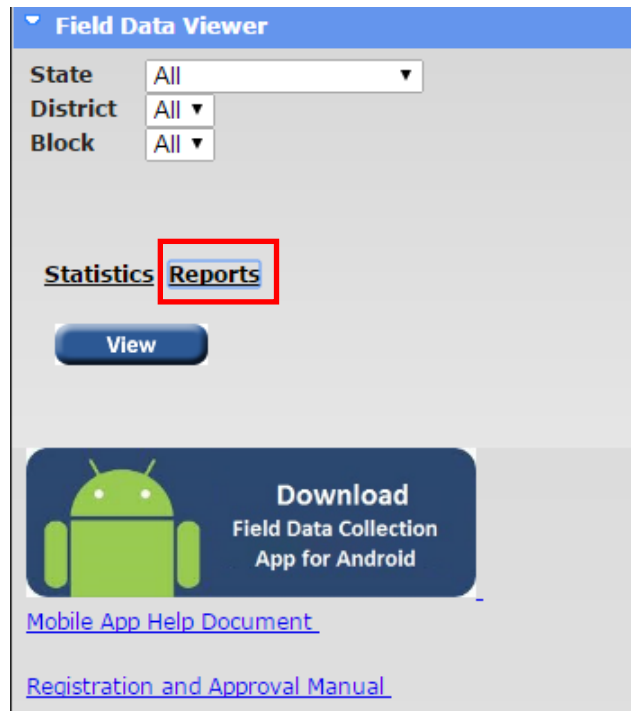
close Flag

Please enter the reason and click Flag.

If action is successfully performed, List will be refreshed with list of assets pending for moderation.

3.3 Report generation

As explained in section 3.1, summary/ statistics is provided in all user levels. In order to have the detailed report to download, report module is in place along with statistics option as shown below.



On click of the report, popup will open with various options like state, dist and block selection for central users, dist and block selection for state users and block selection for block users.

When the report is drilled down till block level, panchayat level summary will be downloaded as excel as shown below, otherwise the summary will be downloaded as dist and state.

Name	Total Assets	Pending	Unregistered	Flagged	Accepted	Rejected	Geotagged
DemoPanchayatCHANDIGARH	423	11581	100	3543	512	97	15833
GeoTestPanchayat	0	0	0	0	0	0	0