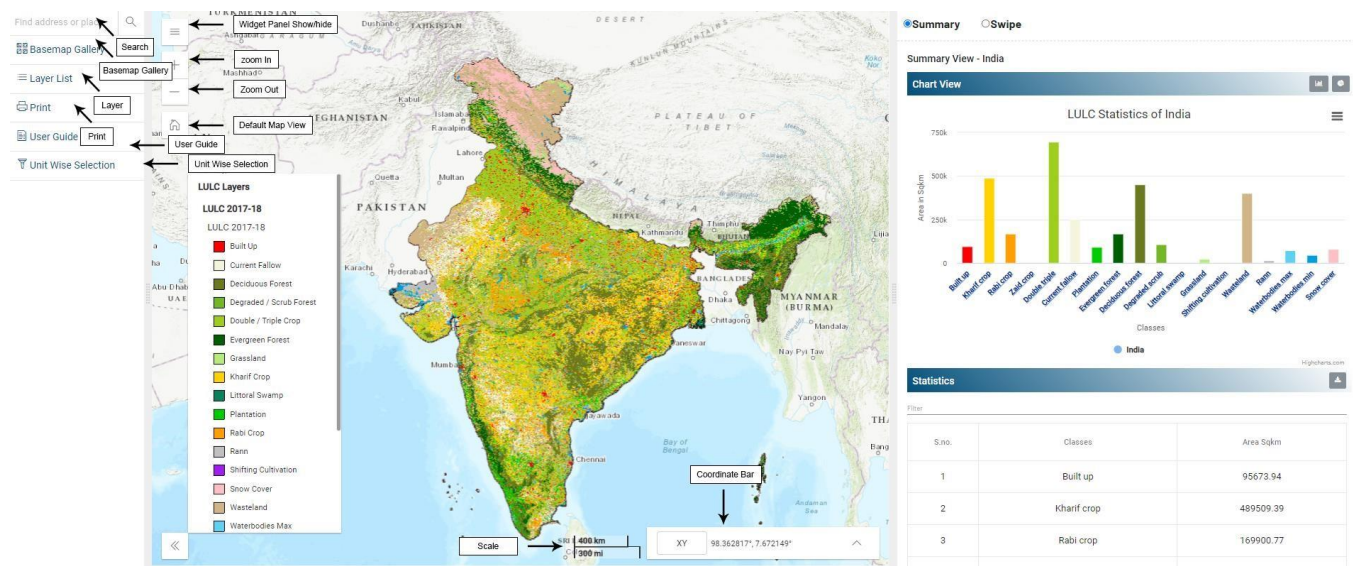


## User Guide – Land Use – Land Cover

This document is intended to provide all the necessary information about the module, describing all the functions and tools available as well as to provide users with easy navigation guidance through which user may easily explore module and download information. The following steps may be followed to get access to the tools and their functionalities:

1. The main or home page of the module consists of different items as depicted in the below screenshots:



- **Zoom in** – On click the map view will be zoomed and features will appear on the map based on the scale visibility assigned.
- **Zoom out** - On click the map view will be zoomed out and features will appear on the map based on the scale visibility assigned.
- **Default map view** – On click the default view of the map will be loaded in the map section.
- **Layers** – On click the slide window will appear with the list of features overlaid on the map under various groups. The groups can be expanded and the list of features under it is shown. User is provided with choice to turn on/off the visibility of a Group or individual layer of the group using icon.

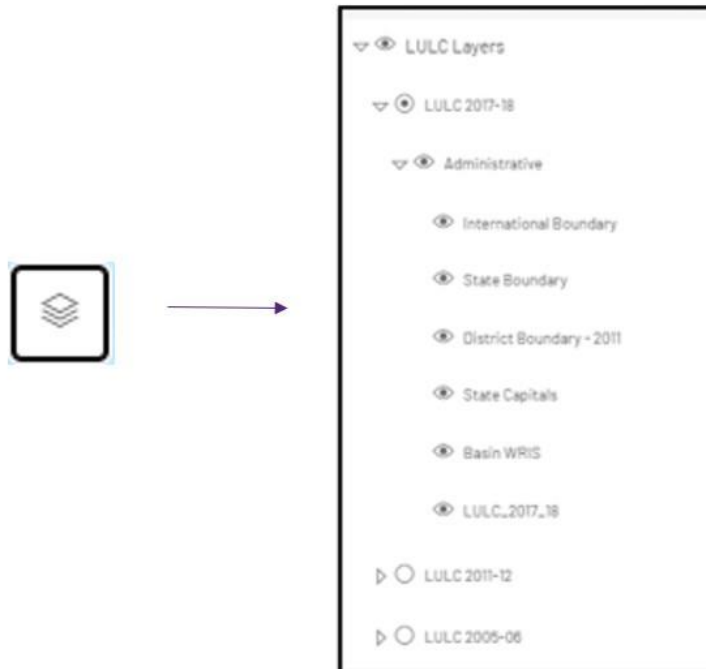


- **Basemap** - On click the slide window expands offering various ESRI basemaps. By default, the basemap shown in the map view is topographic map from the list. User can click and switch the basemap view to any of the mentioned basemaps.
- **Legend** - The legend which is depicting the features on the map can be seen for the features under the group. The legend is dynamically plotted on the map and legend section based on the feature's scale and visibility setting.
- **Global Search** - This offers user to use current location or to find any particular place or address.
- **Scale** - Shows scale of the map, which gets updated every time map is zoomed in or zoomed out.
- **Coordinate Bar** - The panel shows the coordinate of the cursor position on the map based on the coordinate system selected. The mentioned options are - DD, DMS, DDM, XY, UTM, Basemap, MGRS, USNG. The user can Add Conversion - to covert coordinates between different coordinate system. This can be done by using capture mode as live or on click, user can get the converted value based on the cursor click/hover on map. The format settings can be done for changing the format of display of various coordinate system.
- **Print** - The print tool provides export facility of the map in layout view/map only. The Layout view allows user for getting a map layout of the map component with legends, Map title, scalebar, etc. The map size, format, advanced settings like scale, dpi, etc. can be set for export.
- **Unit-wise Selection** - The tool provides choice to user to select State for getting details.
- **Data Panel** - The panel offers the statistics of LULC based on the unit wise selection done.

2. Suitable basemap may be selected by clicking Basemap Gallery widget.

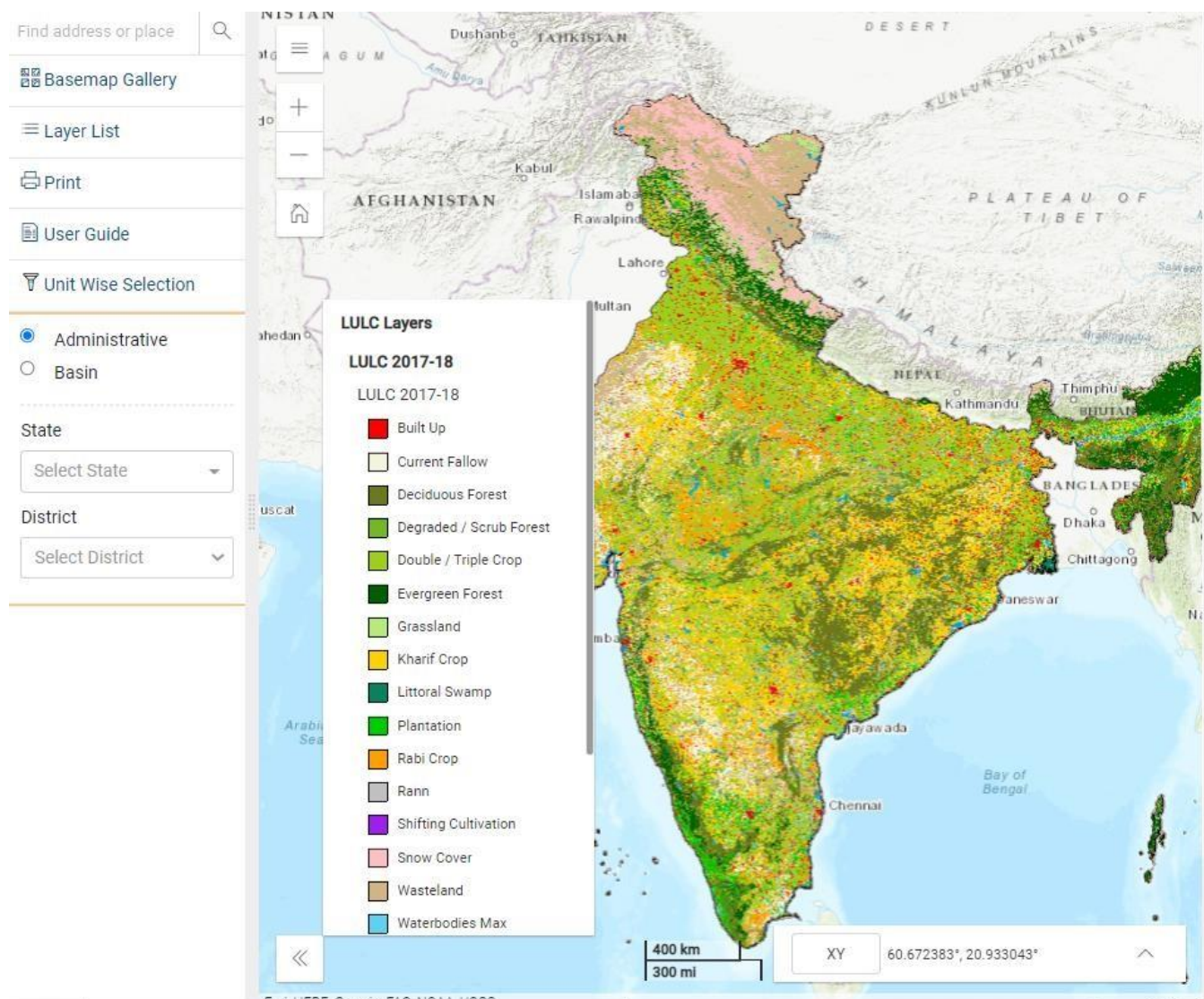


3. In the same way, required layers may be selected by clicking the layers widget located just above unit-wise selection, where the option to turn on or off any layer is available.



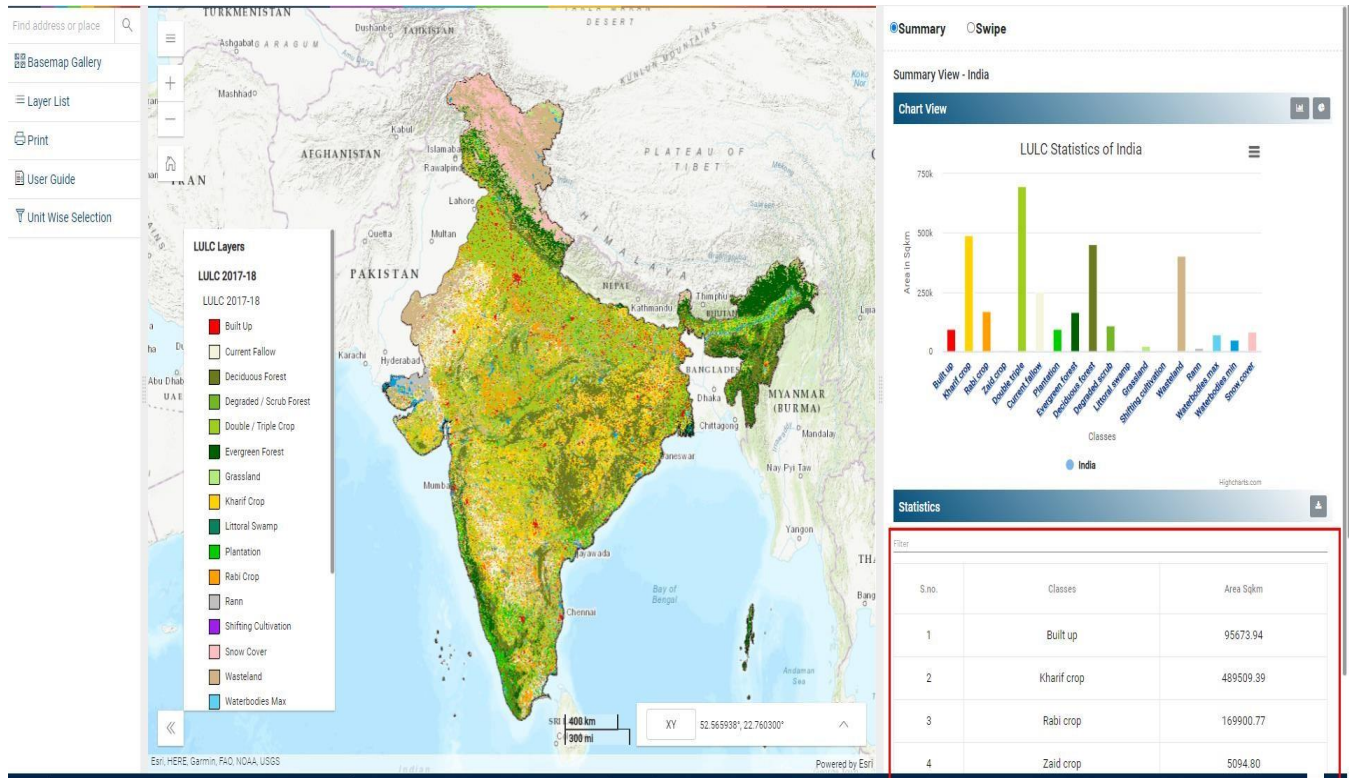
All these widgets expand on clicking and once required parameters selected, they may be collapsed by clicking it again. Other tools that work in same way are Legend, Print and data panel.

4. Data may be viewed state wise by selecting appropriate parameter in unit-wise selection widget available below layers.





- Once all these parameters are selected data panel (LULC Data) widget may be clicked for viewing respective data.

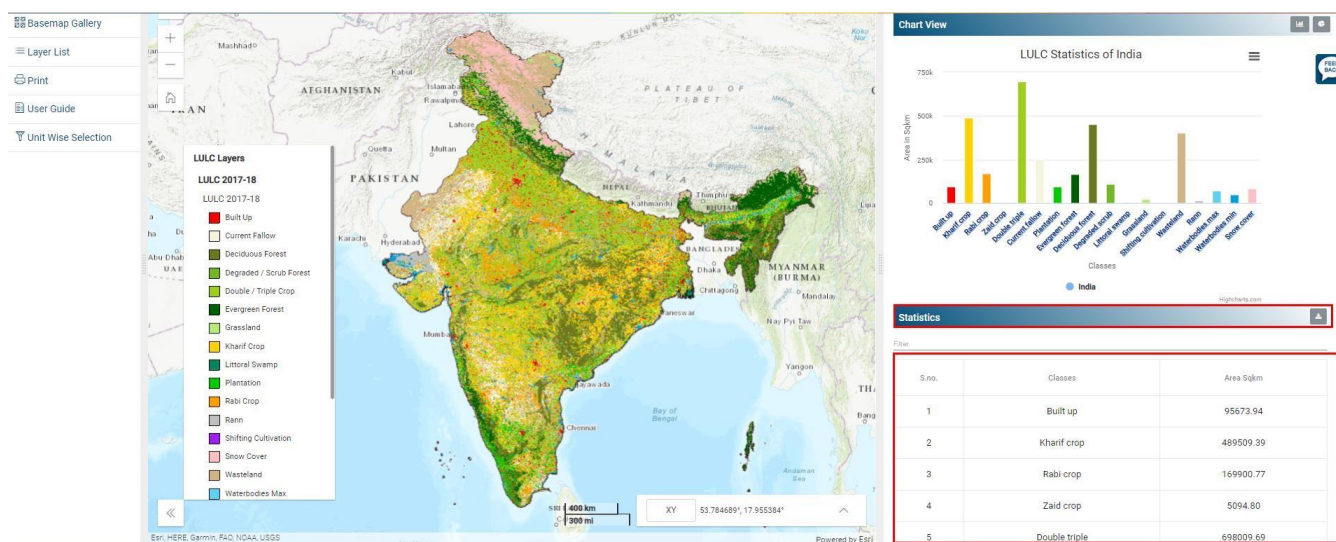


6. The data panel is divided into two sections namely:

- Statistics
- Chart

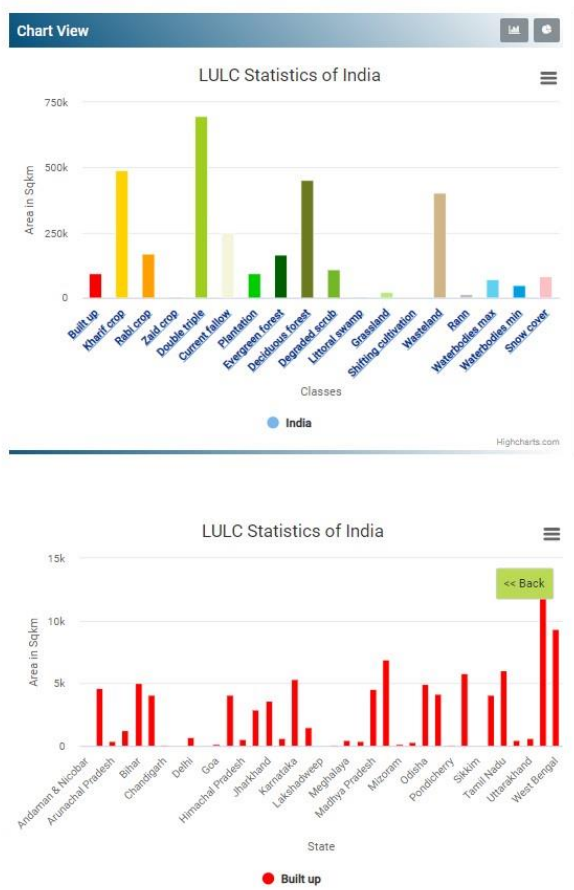
## Statistics

As soon as, these basic parameters are selected a list will appear in the front page of data panel, which includes Land use category, land use level with area in sqkm for selected state.



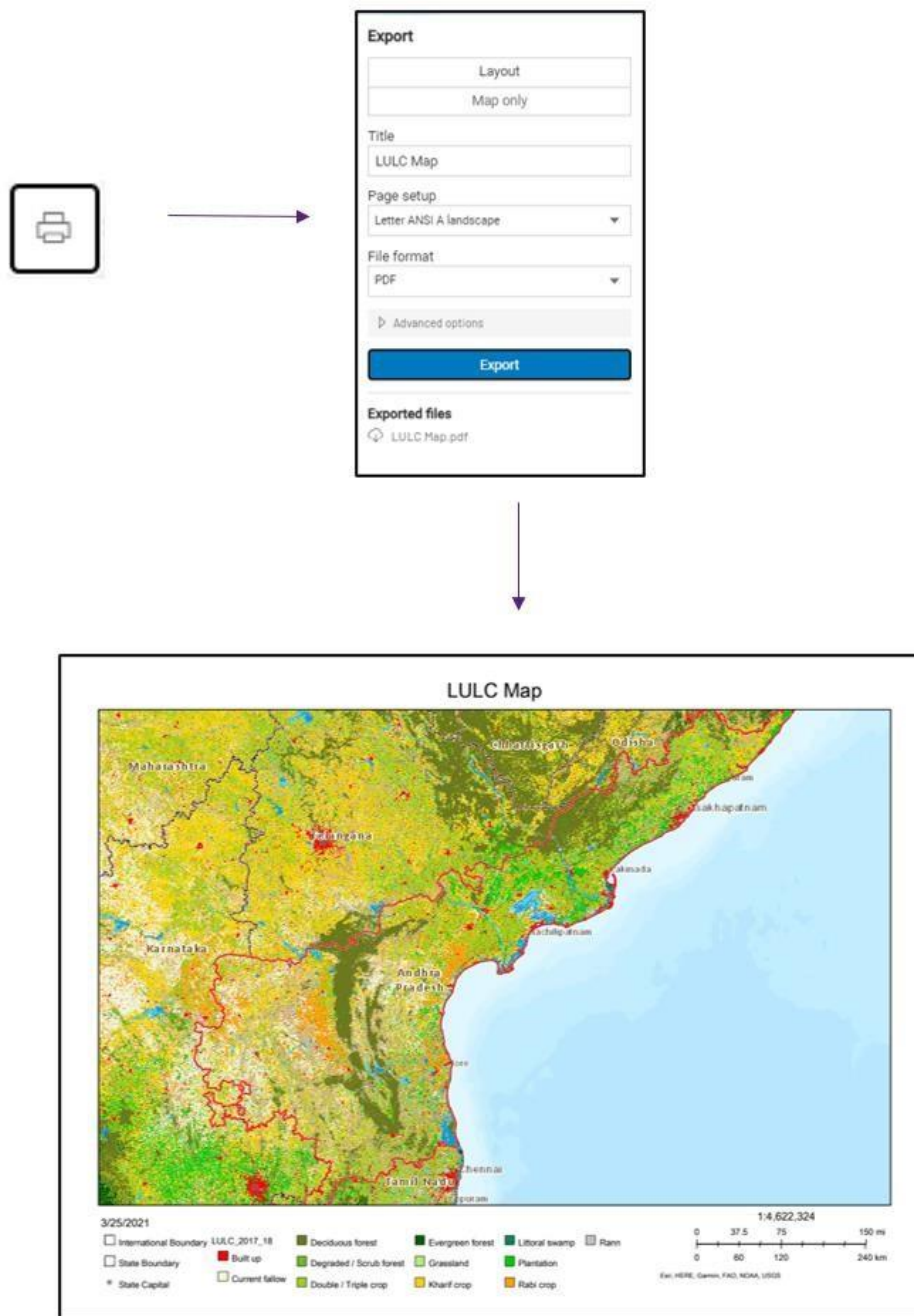
A particular record may also be filtered out by using filter option available above summary table in data panel.

## Chart



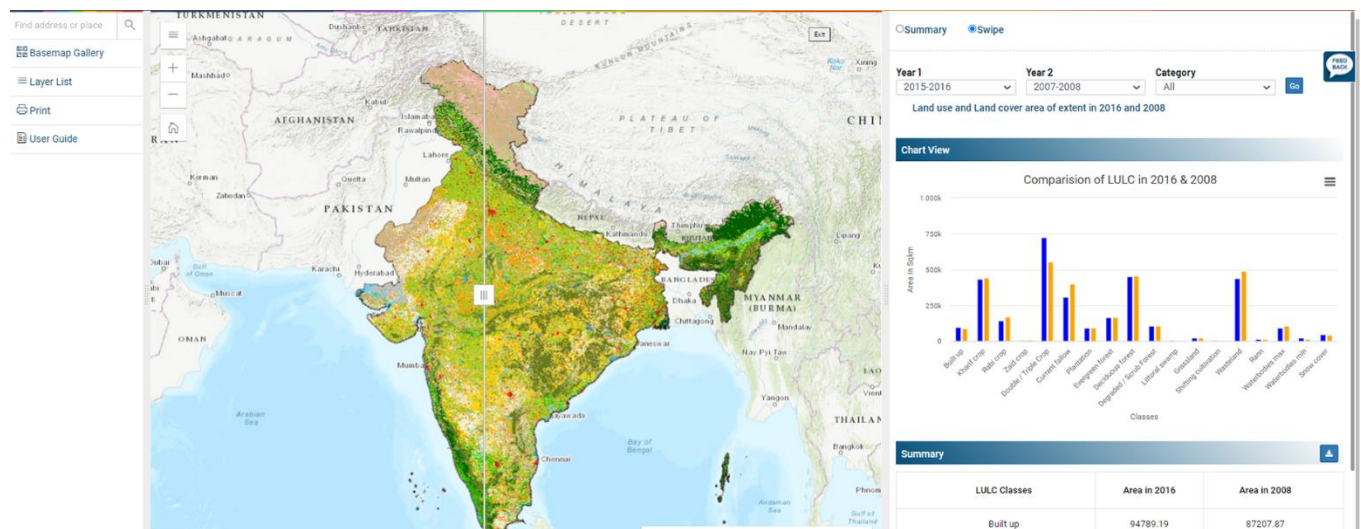
In the same way, chart is also there to represent statistics for selected state, which can be downloaded in different formats as shown in above image. Description of land use data gets reflected on hovering over any land use type.

7. For exporting Land Used -Land Cover map of selected state, print tool may be used as indicated in below images.





8. The Swipe tool is available in the application to compare the base maps of the same area for two different years. Using the swipe tool option, then dragging and moving the vertical bar between the two LULC basemaps, the selected LULC basemaps are revealed on the opposite sides of vertical bar. Swipe Tool may be used as indicated in below images.



In Swipe tool it shows the summary view of the selected LULC basemap. The summary of basemap is divided in two sections namely:

**Statistics:** In this section it appears the LULC Classes like Built up, Kharif crop, Rabi crop etc. and year wise data of LULC Classes.

**Chart:** In the same way, chart is also there to represent statistics for selected LULC Basemap, which can be downloaded in different formats.