

# BHUNAKSHA

INDIAN CADASTRAL MAPPING SOLUTION

# INTRODUCTION

---

- Land plays a crucial role in our social and economic life, particularly in rural areas.
- The scheme of computerization of land records was started in 1988-89 with the aim of removing inherent flaws in the existing land records system. Basic work converting the Record of Rights (ROR) into digital form is complete in majority of States with computerized ROR being distributed to citizens from Tehsil computer centre.
- The scheme has been revamped and many new and related components have been included such as computerization of registration and its integration with Land Records, capacity building, survey, cadastral maps, modern record room. The new scheme is called National Land Records Modernization Programme (NLRMP) launched in 2008.
- The integrated programme would modernize management of land records, minimize scope of land/property disputes, enhance transparency in the land records maintenance system.

# BHUNAKSHA

---

- BHU-NAKSHA is a tool developed in-house by NIC using Open source JAVA library 'GeoTools' to facilitate management of Digitized Parcel maps.
- BHU-NAKSHA is suitable for the states where Cadastral maps are in use.
- With proper customization BHU-NAKSHA can be integrated with existing Land Records application of any such State.

# FEATURES

---

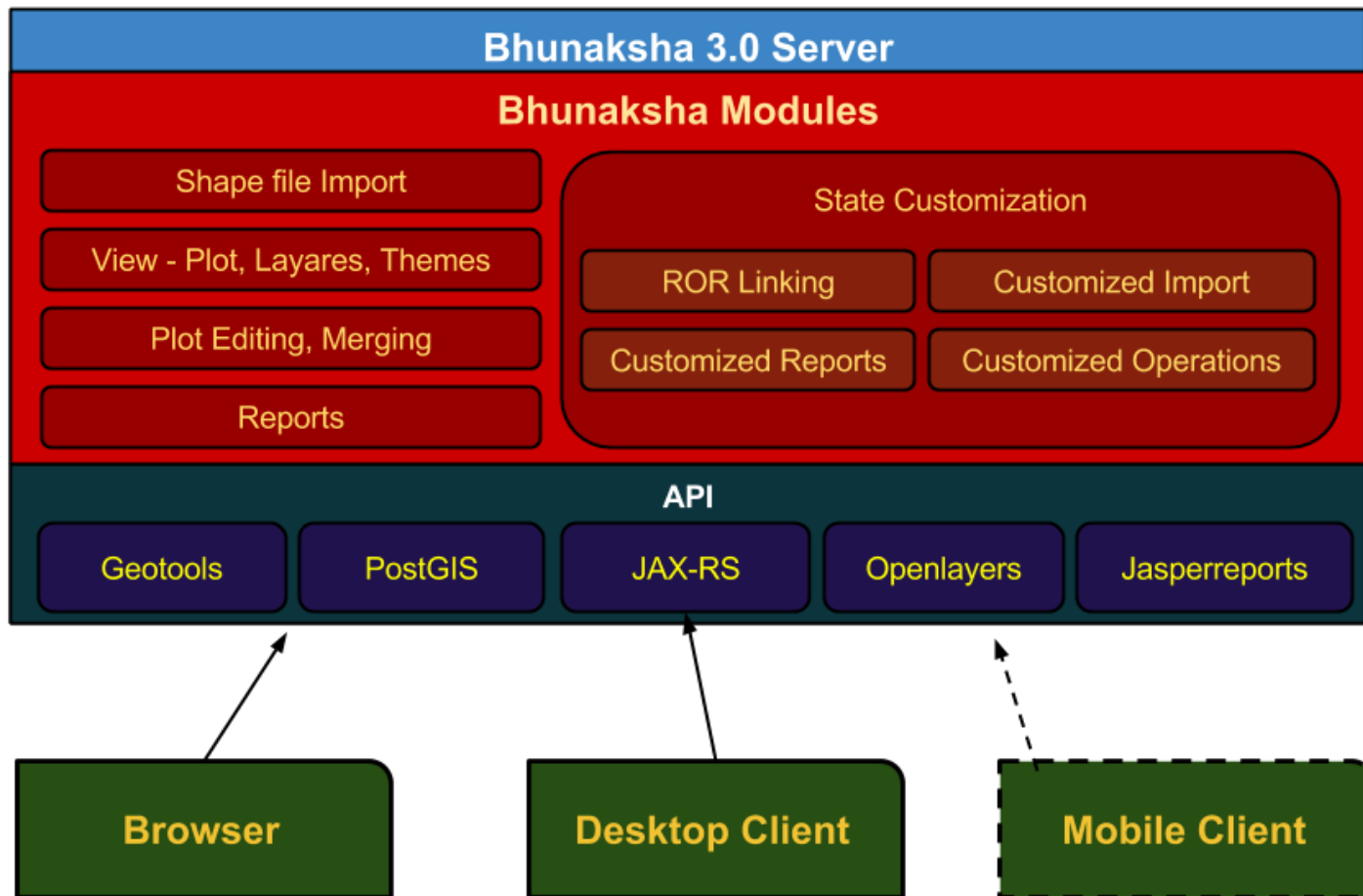
- Developed using Free and Open source software.
- Works in Windows and Linux
- Centralized architecture.
- Operable in browser and desktop client.
- Plugin architecture to facilitate integration with any state ROR database.
- A plot can be divided into multiple subdivisions in a single mutation
- Multiple methods for creating division lines.
- History and Audit trail of division is maintained in the software.
- Distance measurement and calculation takes into consideration initial scale and local units

# FEATURES

---

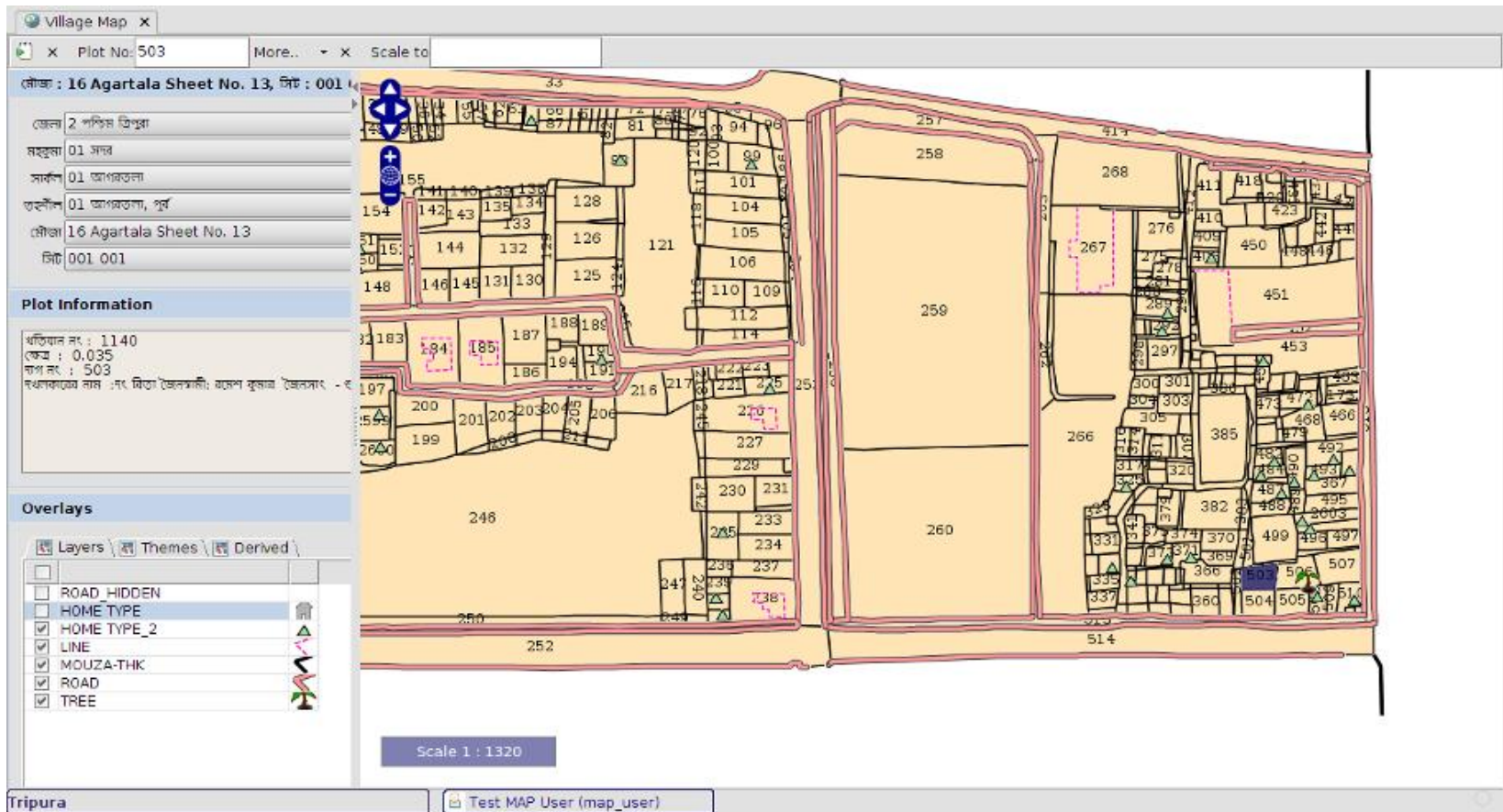
- Distance measurement and calculation takes into consideration initial scale and local unitsMap can be displayed and printed to any scale.
- Vector printing of map reports.
- SLD based styling of maps
- Layers on Plot map can be displayed and printed
- Query based thematic maps can be defined by user.
- Bulk import of Shape files.
- Maps can be generated from ETS data and FMB
- Validation reports for comparing data in ROR database and digitized map files
- Helps to correct geometry errors in Shape file.
- Adapts to the authentication and authorization features of ROR database users. Process flow can be maintained as in ROR software

# BHUNAKSHA ARCHITECTURE



# VILLAGE MAP VIEW

Village map view is the default view of Bhunaksha when invoked through web url by public, after logging in as user in web or desktop application.



# PLOT REPORT

Plot Report is a printable report which will have map of an area containing the plot. It will have location and owner information along with the map. It is possible to generate the map to any scale and overlaying layers.

**Village:** गाँव : 000101 रोपा

Plot No: 146

Scale :  Best Fit  
1600

Show Single Plot  
 Show All Plots of Owner(Multiple Pages)

**Legend**

Layers \ Derived \

- POLY\_NALA
- POLY\_SUB\_PARCEL
- LINE\_REFERENCE
- POLY\_VILL\_BO
- RI
- SURVEY\_POINT
- BURJI
- ABADI
- SHEDA
- POLY\_PARCEL

माला : 06 MATADI, बंशाल : 12 अं, गाँव : 000101 रोपा ( 496 )

खसरा क्रमांक : 146

केमाल : 02-01-05 बीडा-सीलवाह-सीलवाही

1 Inch : 40 Karam

नाम : इन्दु सिंह भुज अमर चन्द भुज भाग चन्द

Neighbours :

- 142 :
- 143 :
- 144 : श्रीमती चन्दी भाग वरमन (170640) भाग
- 145 : भुज टंक सिंह भुज रोसा श्रीमती सुलज

Page 1 of 1

# VILLAGE MAP PRINTING

Bhunaksha has a module for generating map of a village or sheet in printable form. The report can be generated in best fit scale or to a specified scale. It is possible to overlay plot number and other layers on the village map. The report can be generated for A4, A1 or A0 size paper and can be printed using plotter.

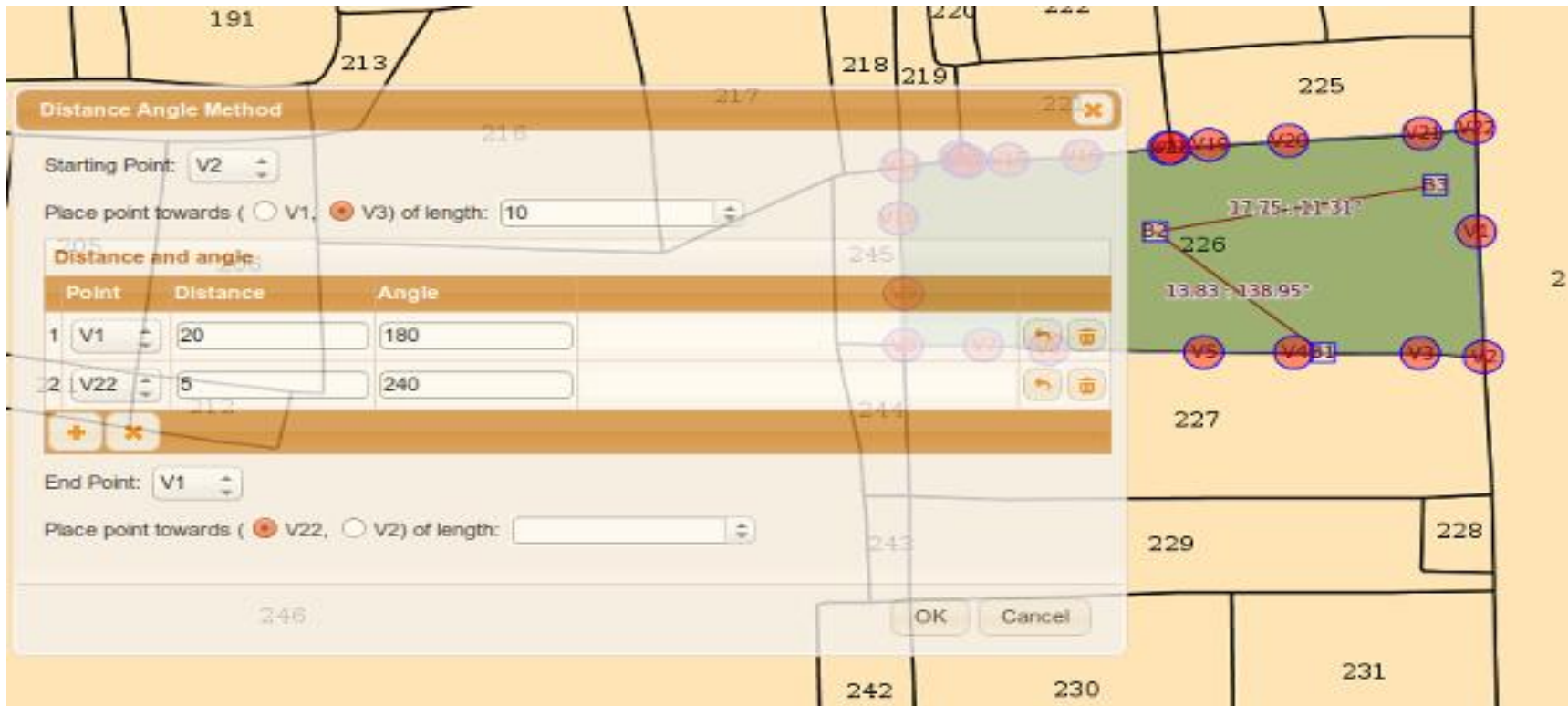
The screenshot displays the Bhunaksha software interface for generating a village map. The main window shows a map of a village with numerous plots, roads, and other features. The interface includes a toolbar at the top with various navigation and printing tools. On the left side, there is a control panel with options for paper size (A1, Landscape, Portrait), printing settings (Print Plot No, BestFit, 2800), and buttons for Show, Export PDF, Print, and Close. Below the control panel is a legend section with tabs for Layers, Themes, and Derived. The Layers tab is active, showing a list of layers with checkboxes. On the right side, there is a table with a list of layers and their corresponding symbols.

Layer Name	Symbol
11	
RO	
06	
04	
15	
05	
07	
0305	
9999	
0304	
0108	
0301	
0201	
1207	
0902	
0801	
0202	
0903	
26	
1209	
0206	
0220	
0108_Point	
Area > 10	
area < 1	



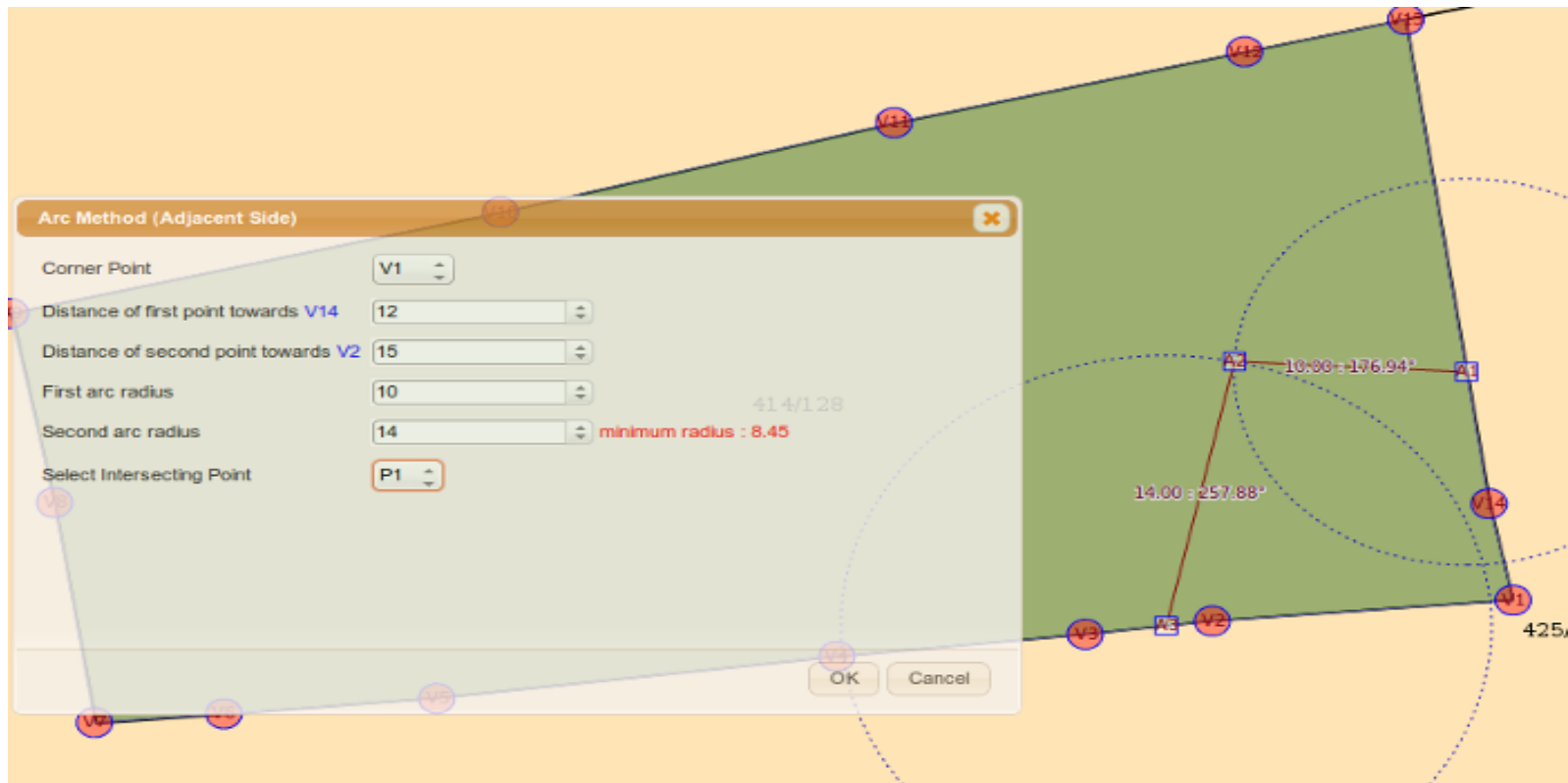
# DISTANCE ANGLE METHOD

This method can be used to create a division line by specifying distance and angle of each point on the line with respect to some known reference points. The line can either start and end on any border of the plot or it can be inside the plot. Distance has to be mentioned with respect to ground measurements.



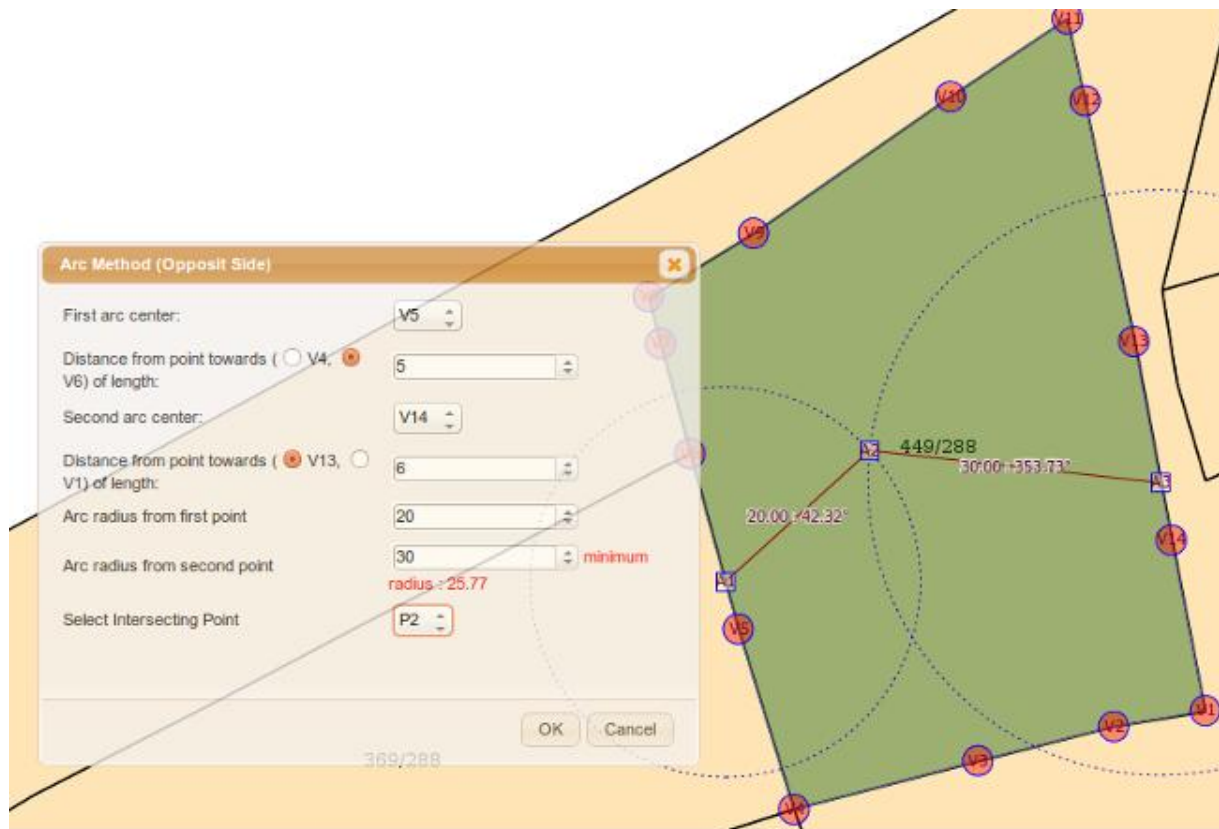
# ARC METHOD (ADJACENT SIDE)

This method can be used for creating division line at a corner of a plot. Two end points of the line can be identified by specifying distance from the corner point. This method will also allow us to specify a third point on the line as intersection of two arcs of specific radius from the end points.



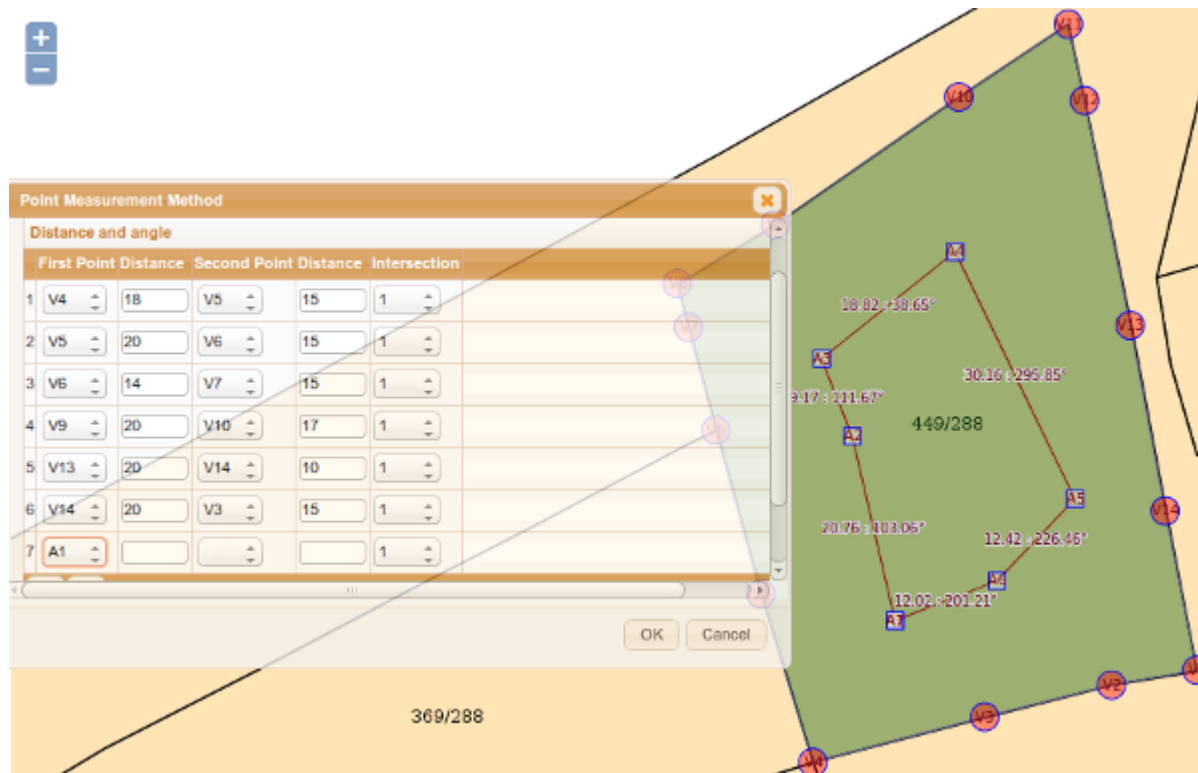
# ARC METHOD (OPPOSITE SIDE)

This method can be used for creating division line between two sides of a plot. Two end points of the line can be identified by specifying distance from two known points. This method will also allow us to specify a third point on the line as intersection of two arcs of specific radius from the end points.



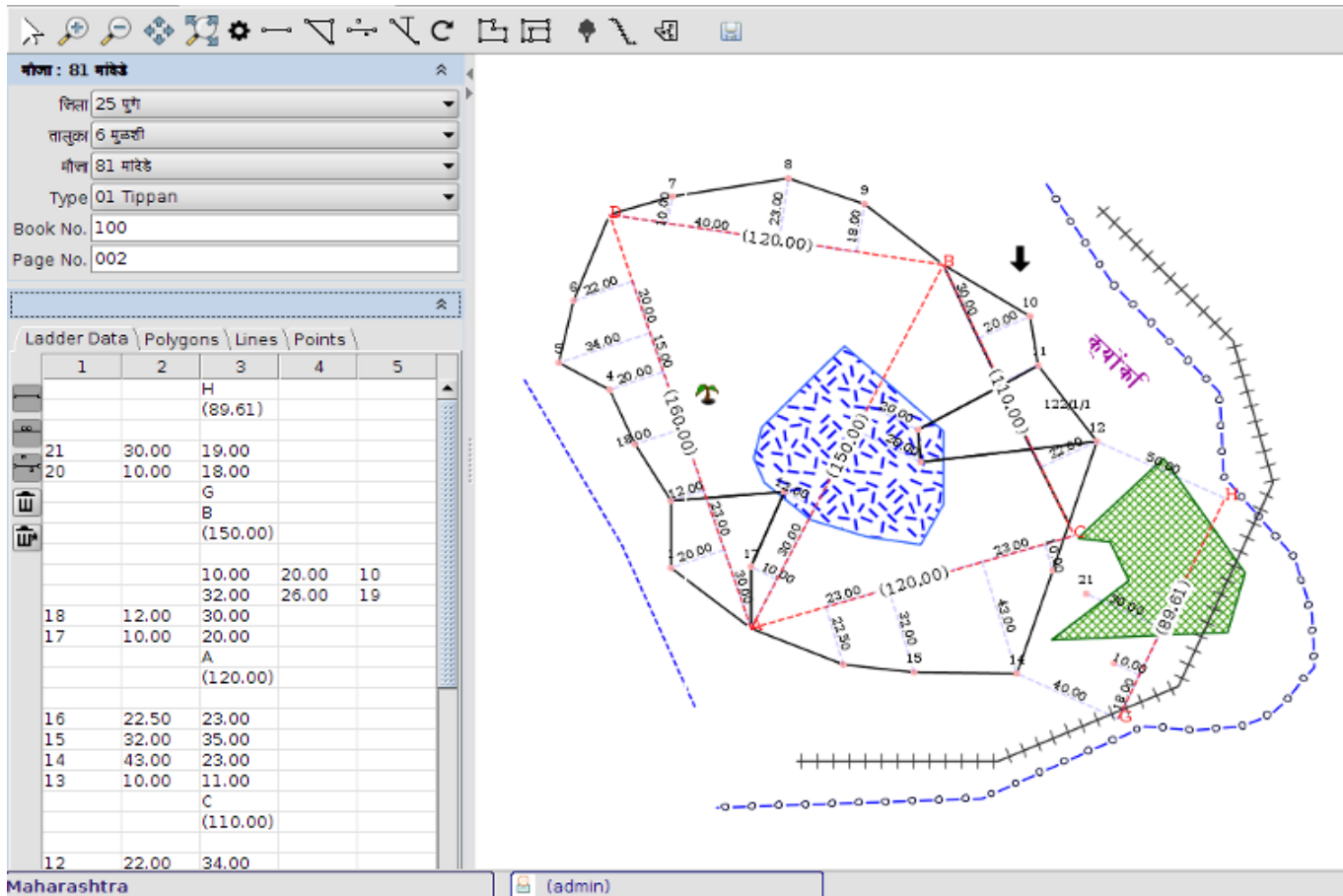
# POINT MEASUREMENT METHOD

This method can be used for creating complex division lines accurately. Each point of the division line can be identified by measuring it from two known points. This is a more complex version of the arc method where more than one points can be created by intersecting arcs.



# CREATING MAP FROM FMB/TIPPON DATA

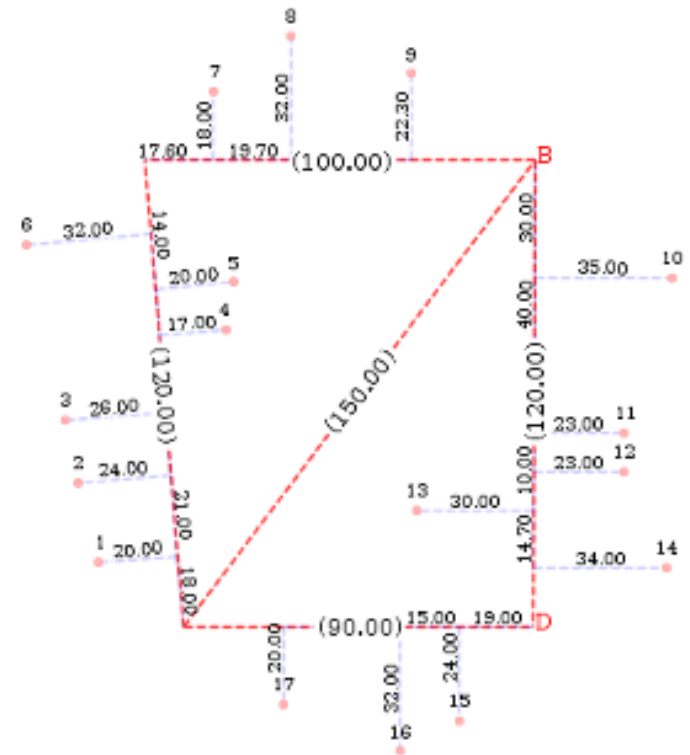
Maps can be created interactively from FMB (Field Measurement Book) data and tippon sketch. Once the map is created it will be similar to any other map in Bhunaksha.



# REAL TIME BASE LINE / OFFSET POINTS

Base line and offset points will be drawn in the map area on real time while entering data in ladder table. It is also possible to create hanging baseline by specifying distance from 2 offset points

Ladder Data \ Polygons \ Lines \ Points				
1	2	3	4	5
		A		
		(90.00)		
17	20.00	30.00		
16	32.00	15.00		
15	24.00	19.00		
		D		
		(120.00)		
14	34.00	14.70		
12	23.00	10.00	30.00	13
11	23.00	40.00		
10	35.00	30.00		
		B		
		(100.00)		
9	22.30	31.00		
8	32.00	19.70		
7	18.00	17.60		
		C		
		(120.00)		
6	32.00	14.00		
		12.00	20.00	5
		20.00	17.00	4





# MERGING PLOT

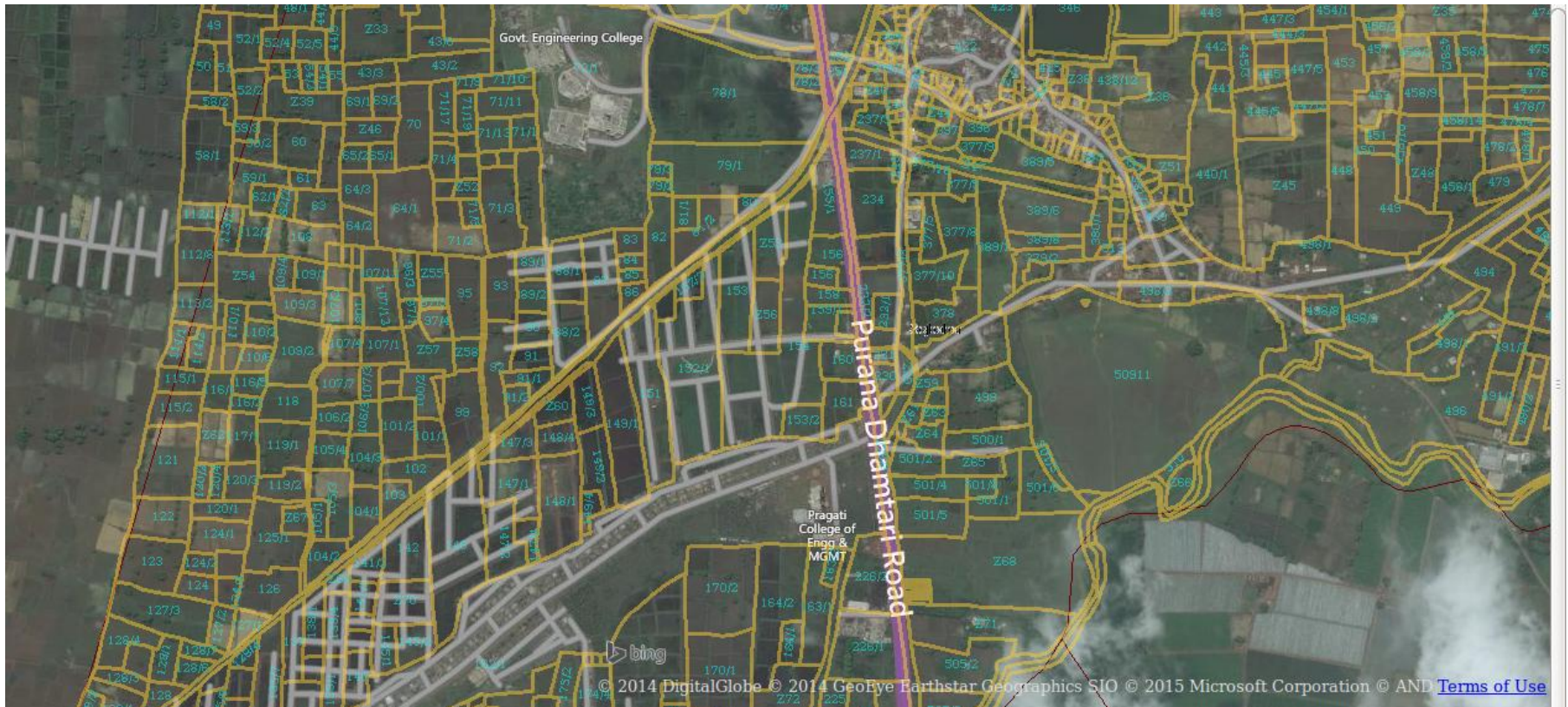
Bhunaksha has a module for merging one or more plots in a village. A user can merge upto 12 khasara's through this module and assign a new khasara number to the newly created plot.

The screenshot displays the 'Merge Plots' window in the Bhunaksha application. The window title bar includes 'File', 'Reports', 'Settings', and 'Help'. The menu bar contains 'Village Map', 'Village Map Print', 'Missing Khasara Report', 'Bulk Import Jharkhand', and 'Merge Plots'. The main interface is divided into several sections:

- Location Selection:** A sidebar on the left shows the selected location: Village: मीजा : 0178 रोते. Below this, dropdown menus are set for District (जिला) to '11 लोहरदगा', Block (अंचल) to '04 भण्डरा', and Village (मीजा) to '0178 रोते'.
- Khasara List:** A table on the right lists 12 Khasara Nos. with their corresponding Plot Nos. Khasara No. 1 has Plot No. 501, Khasara No. 2 has 502, and Khasara No. 3 has 503. Khasara No. 4 is highlighted in blue.
- New Khasara No.:** A text input field contains the value '501/502/503'.
- Buttons:** 'Merge' and 'Close' buttons are located below the input field.
- Message Dialog:** A 'Message' dialog box is open, displaying a lightbulb icon and the text 'Plot No. Merged Successfully'. An 'OK' button is at the bottom.

# GEOREFERENCING VILLAGE MAPS

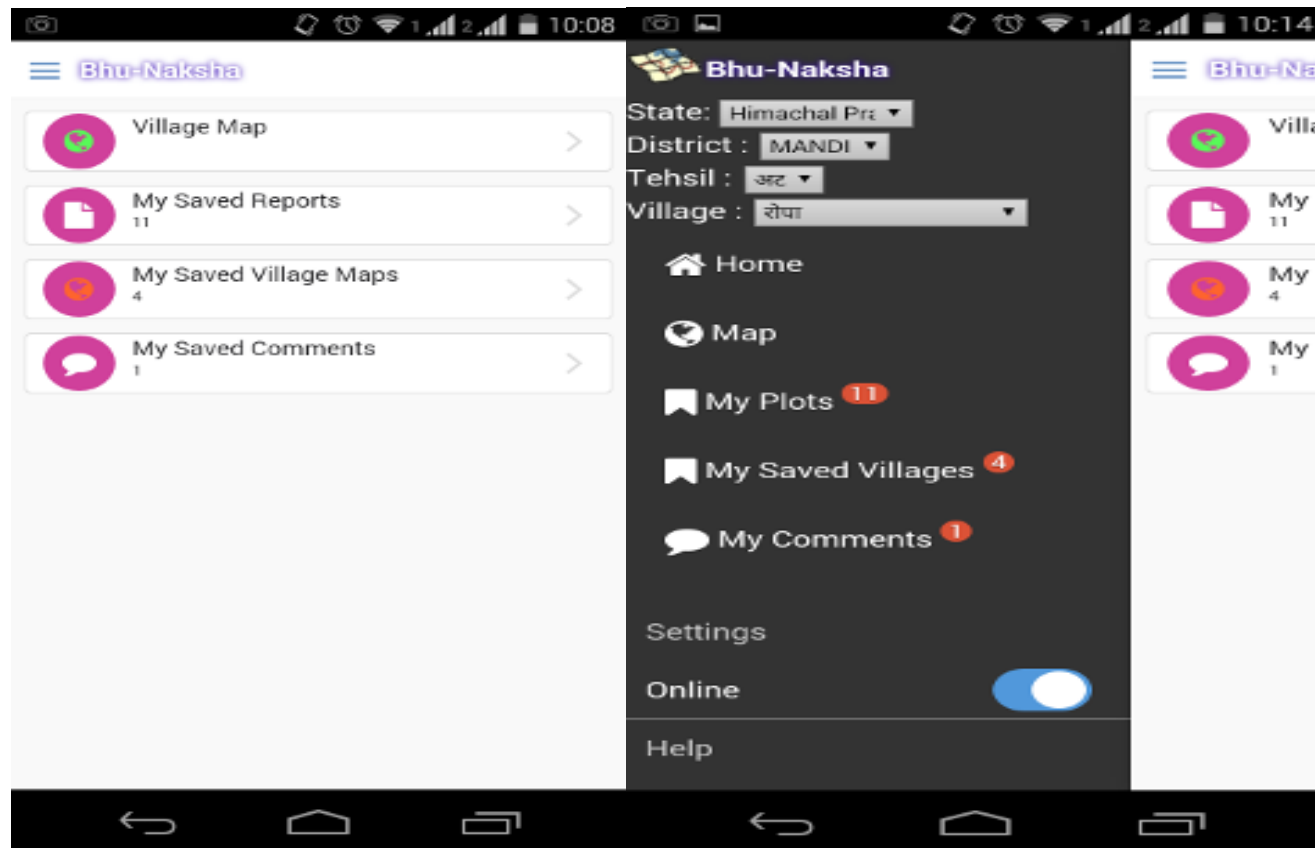
It is possible to georeference a village map with the help of village boundary layers from NIC Maps (<http://nicmaps.rsgis.nic.in/>) and other online services offered by Bing, Google, Bhuvan etc. Onscreen georeferencing is possible by correlating some known coordinates of digitized map with the coordinates of georeferenced maps. Identifying a minimum of four such points will facilitate transforming the coordinate system to world coordinate system. Accuracy will depend on the accuracy and number of the known coordinates.



# BHUNAKSHA MOBILE APP

Bhunaksha mobile app is available for android mobiles. It supports viewing village map and plot details online, viewing plot report online, saving village map and plot report for offline operation, updating comments of any selected plot.

## Home Screen



From home screen we can navigate to the available modules in the application. A swipeable context menu is also available for navigating to the modules from any screen. Menu can be opened by touching the context icon (☰).

## Settings

Settings option can be opened from the context menu. It is possible to save server URL of bhunaksha in settings menu. When the server URL is setup correctly, you will be able to view maps from that server in the mobile application.

Server URL:

Save

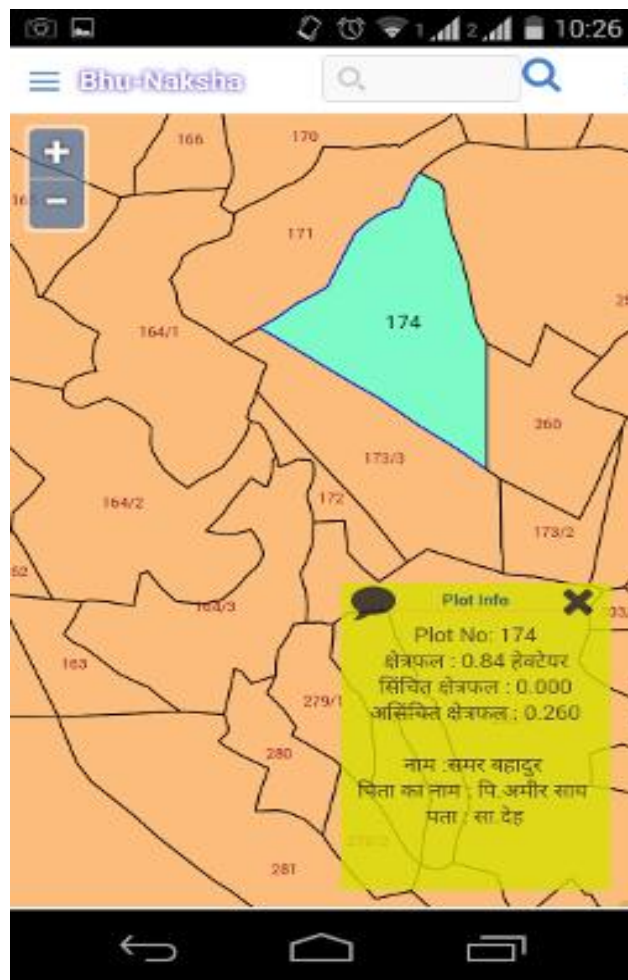
If server is available then the Online Switch in the menu will be on. You can go offline any time by switching off it from the menu.

Online

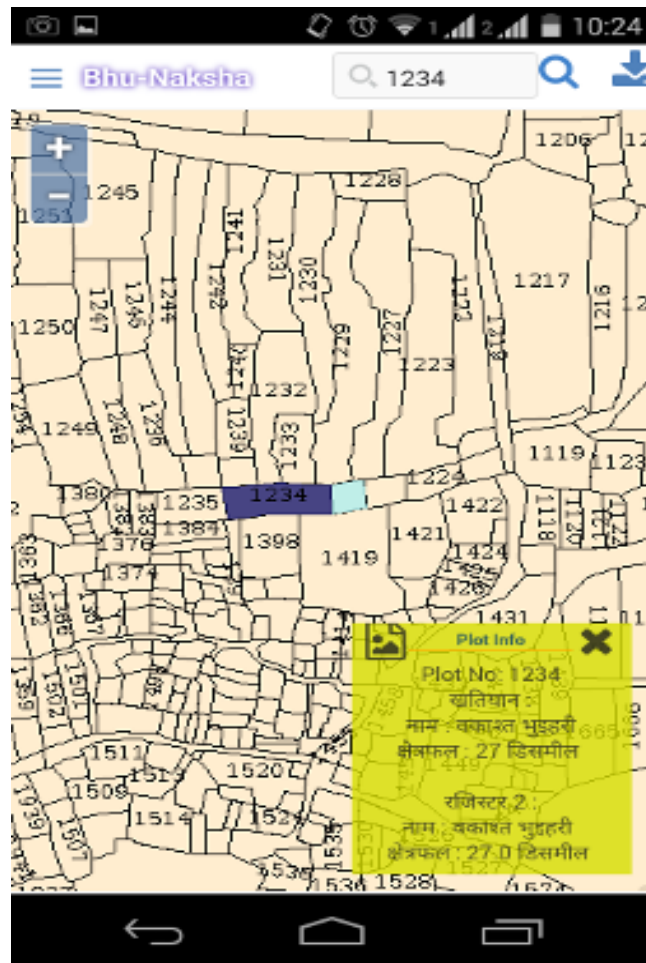


## Viewing Village Map

Bhunaksha mobile application can display online village map when connection to server is available. Village can be selected from the select box on left context menu. In online mode it is possible to select a plot either by touching it on the map or by searching (🔍) the plot on the top bar of the app screen. When the plot is selected it will popup the owner and area details of the plot. It is possible to view a detailed map report of the selected plot by touching report icon (📄) from the popup. It is also possible to update a comment (💬) about the plot and save it to the server. Village map data can be downloaded (⬇️) for offline purpose from this screen. Village map data stored offline will use storage space of the mobile.

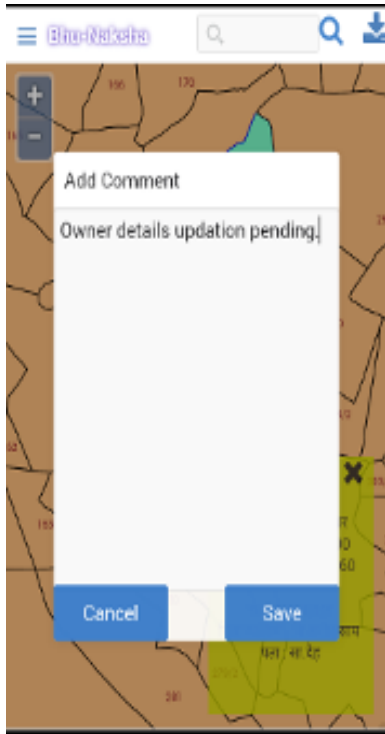


Online Village Map



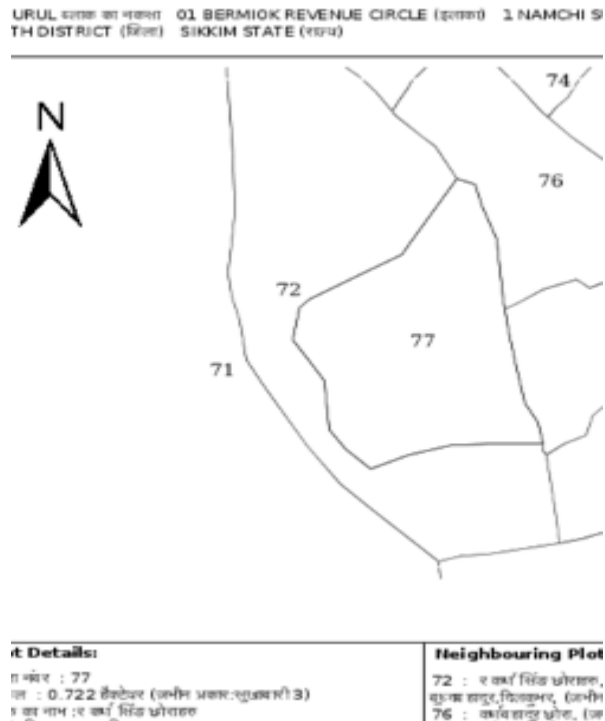
Offline Village Map

Offline village maps can be viewed from the saved village map list or when the Online Switch is off. In offline mode it is possible to select a plot, search a plot, view owner and area details, and save a comment about the selected plot. The comment can be updated to server on going online.




# Plot Report

Detailed plot report can be viewed online by touching report icon (📄) from village map screen.



It is possible save a report for offline purpose by touching download (📄) icon.

## Saved Village List

List of villages for which offline maps are available can be viewed from the respective options in menu and home screen. Map of a village can be viewed by selecting the respective row from the list. Data of a saved village can be deleted by touching delete (  ) button .



## Saved Plot Report List

List of offline plot reports can be viewed by invoking the respective options in menu or home screen. Report can be viewed by selecting the respective row from the list. A saved report can be deleted by touching the delete (🗑️) icon. It is also possible to view a report of a plot online from this screen if connection is available to bhunaksha server.



The screenshot shows the Bhunaksha mobile application interface. At the top, there is a header with a menu icon, the text "Bhu-Naksha", and a home icon. Below the header is a search bar labeled "Search Online:". Underneath the search bar is a text input field labeled "Plot No" and a blue button labeled "View Online". The main section is titled "My Plots:" and contains a list of ten plot entries. Each entry consists of a blue square containing a plot number, a text field with plot details, and a blue square containing a trash can icon.

Plot No	Plot Details	Action
22	सुरजपुर, सुरजपुर, सुरजपुर, मानी, 8/11/2014 15:19	Delete
50	सुरजपुर, सुरजपुर, सुरजपुर, मानी, 8/11/2014 15:19	Delete
1216	लोहरदगा, भण्डरा, टोटो, 8/11/2014 15:44	Delete
709	लोहरदगा, भण्डरा, टोटो, 8/11/2014 15:48	Delete
433	लोहरदगा, भण्डरा, टोटो, 8/11/2014 15:49	Delete
110	पश्चिम त्रिपुरा, समर, आगरतला, आगरतला, पूर्व, आगरतला सिटी-१०, 001, 8/11/2014 15:49	Delete
77	SOUTH DISTRICT, NAMCHI SUB-DIVISION, BERMIOK REVENUE CIRCLE, BURUL, 8/11/2014 15:51	Delete
72	SOUTH DISTRICT, NAMCHI SUB-DIVISION, BERMIOK REVENUE CIRCLE, BURUL, 8/11/2014 15:51	Delete
316	टोक, उनियारा, अलीगढ़, अलीगढ़, अलीगढ़, 002, 8/11/2014 15:52	Delete
398	टोक, उनियारा, अलीगढ़, अलीगढ़, अलीगढ़, 002, 8/11/2014 15:52	Delete

## Saved Comments List

List of comments stored offline can be viewed by invoking the respective options in menu or home screen. It is possible to delete a comment and update the comments to server from this screen.



# PLOTS COMPARISON REPORTS

Bhunaksha has reports for comparing plot numbers present in map and ROR (Textual) data.

It is possible to generate report of plots present in map and missing in ROR, present in ROR and missing in map and duplicate plots in map.

## Plots Present in map missing in ROR

The screenshot shows the Bhunaksha software interface. The main window is titled 'Missing Khasra Report' and displays a 'Khasra Information Report' for the village 'गौजा : 0178 टोटी'. The report lists the following plot numbers: 5, 10, 12, 14, 18, 20, 21, 23, 25, 27, 29, 30, 32, 34, 35, 37, 39, 40, 42, 44, 46, 48, 51, 53, 55, 57, 59, 60, 62, 64, 66, 67, 69, 70, 73, 75, 77, 79, 80, 82, 85, 87, 89, 90, 92, 94, 96, 98, 99, 101, 103, 105, 107, 109, 110, 112, 114, 116, 118, 121, 123, 125, 127, 129, 130, 132, 134, 136, 138, 141, 143, 145, 147, 149, 150, 152, 153, 155, 157, 159, 160, 162, 165, 167, 169, 170, 172, 174, 177, 178, 181, 183, 184, 187, 189, 190, 193, 195, 196, 198, 201, 204, 206, 208, 211, 213, 215, 217, 219, 220, 222, 224, 226, 228, 231, 233, 235, 237, 239, 240, 242, 244, 246, 248, 251, 253, 255, 257, 259, 260, 262, 264, 266, 268, 271, 273, 275, 277, 279, 280, 282, 284, 286, 288, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 310, 312, 314, 316, 318, 321, 323, 325, 327, 329, 330, 332, 334, 336, 338, 341, 344, 346, 348, 351, 353, 355, 357, 359, 360, 362, 364, 366, 368, 371, 373, 375, 377, 379, 380, 382, 384, 386, 388, 391, 393, 395, 397, 399, 401, 403, 405, 407, 409, 410, 412, 414, 416, 418, 421, 423, 425, 427, 429, 430, 432, 434, 436, 438, 441, 443, 445, 447, 449, 450, 452, 454, 456, 458, 461, 463, 465, 467, 469, 470, 472, 474, 476, 478, 481, 483, 485, 487, 489, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 511, 513, 515, 517, 519, 520, 522, 524, 526, 528, 531, 533, 535, 537, 539, 540, 542, 544, 546, 548, 551, 553, 555, 557, 559, 560, 562, 564, 566, 568, 571, 573, 575, 577, 579, 580, 582, 584, 586, 588, 591, 593, 595, 597, 599, 601, 603, 605, 607, 609, 610, 612, 614, 616, 618, 621, 623, 625, 627, 629, 630, 632, 634, 636, 638, 641, 643, 645, 647, 649, 650, 652, 654, 656, 658, 661, 663, 665, 667, 668, 671, 673, 675, 677, 679, 680, 682, 684, 686, 688, 691, 693, 695, 697, 699, 701, 703, 705, 707, 709, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 731, 733, 735, 737, 739, 740, 742, 744, 746, 748, 751, 753, 755, 757.

# PLOTS PRESENT IN ROR MISSING IN MAP

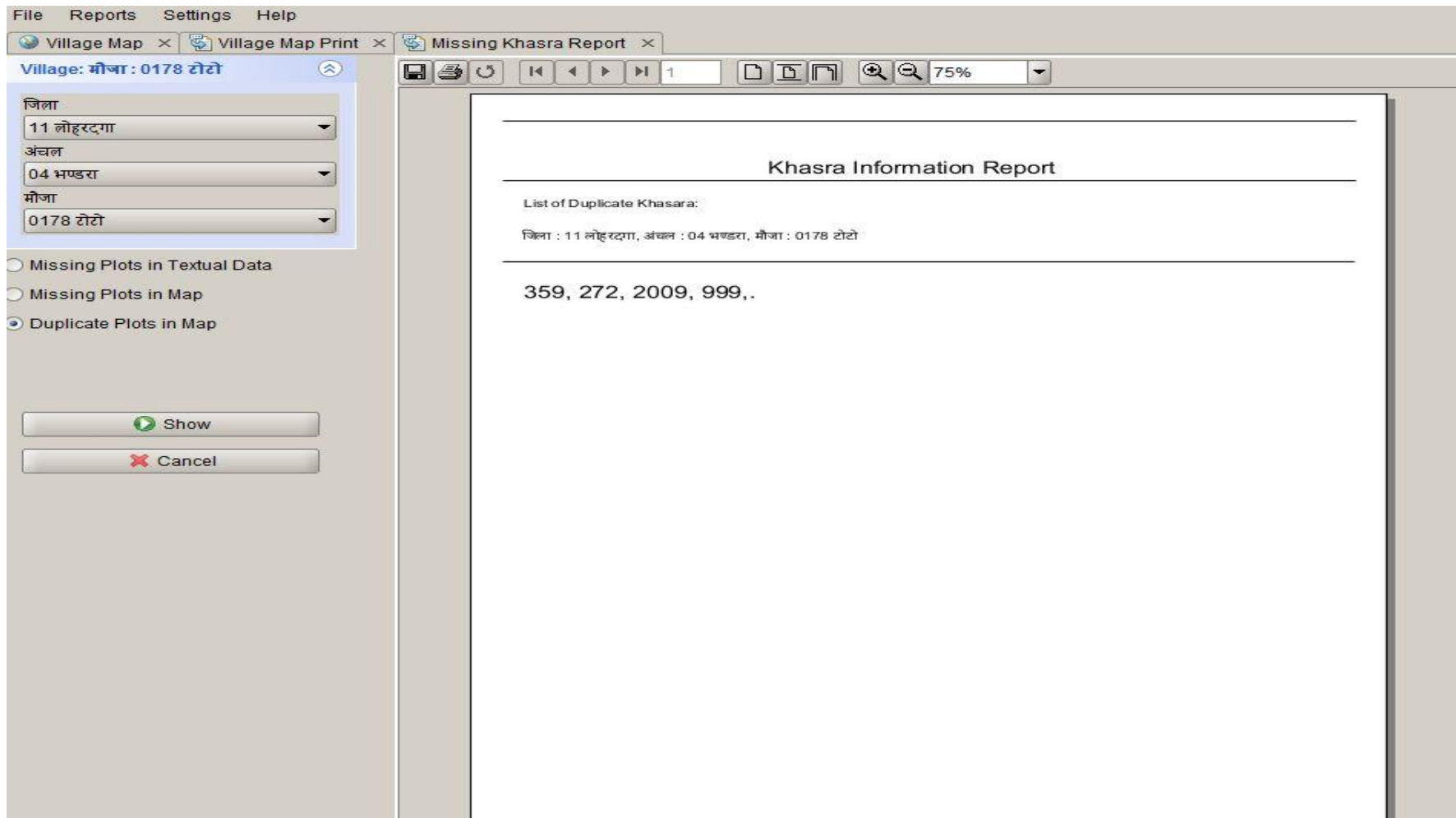
The screenshot shows a software application window titled 'Missing Khasra Report'. The window has a menu bar with 'File', 'Reports', 'Settings', and 'Help'. Below the menu bar, there are three tabs: 'Village Map', 'Village Map Print', and 'Missing Khasra Report'. The 'Missing Khasra Report' tab is active, showing a report titled 'Khasra Information Report'. The report content includes the following text:

Missing Khasaras In Map  
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मौजा : 0178 रोटी

1520/2058,1634/2054,1757/2060,1778/2044,1832/2046,1850/2050,  
1911/2056,1953/2048,1991/2045,2023/2057,342/2051,667/2047,  
719/2059,832/2049,951/2052,951/2053,985/2055.

The left sidebar contains filters for 'जिला' (District), 'अंचल' (Block), and 'मौजा' (Mauja), all set to '11 लोहरदगा', '04 भण्डरा', and '0178 रोटी' respectively. Below the filters are three radio buttons: 'Missing Plots in Textual Data', 'Missing Plots in Map' (which is selected), and 'Duplicate Plots in Map'. At the bottom of the sidebar are two buttons: 'Show' and 'Cancel'.

# DUPLICATE PLOT NUMBERS IN MAP



The screenshot displays a software application window titled 'Missing Khasra Report'. The interface includes a menu bar (File, Reports, Settings, Help) and a toolbar with various icons. On the left, there is a sidebar with a title 'Village: मौजा : 0178 टोटो' and three dropdown menus for 'जिला' (District), 'अंचल' (Block), and 'मौजा' (Mouza). Below these are three radio buttons: 'Missing Plots in Textual Data', 'Missing Plots in Map', and 'Duplicate Plots in Map' (which is selected). At the bottom of the sidebar are 'Show' and 'Cancel' buttons. The main content area is titled 'Khasra Information Report' and contains the following text:

List of Duplicate Khasara:

जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मौजा : 0178 टोटो

359, 272, 2009, 999, ..

# MUTATION REPORT

Bhunaksha has report for displaying all the divisions/Mutations done in a village. It is possible to generate report for all the mutations done in a village. Options for filtering report data is also there. User can filter the data according to UserName and date. User can also view the image of the actual plot and divided plot in the report.

The screenshot shows the Bhunaksha software interface. The top menu bar includes 'File', 'Reports', 'Settings', and 'Help'. The toolbar contains various icons for file operations and navigation. The main window displays the 'Division Details' report for the village 'मौजा : 0178 टोटो'. The report includes a table with columns for Mutation No., Mutation Date, User, Plot No., and Divisions. The data shows two mutations: 12356 and 97/456, both dated 03-06-2014 and performed by user 'opr'. The plot numbers are 70 and 782, with divisions listed as 70/1, 70/2 and 782/1, 782/2 respectively. The interface also features a sidebar with filters for District (11 लोहरदगा), District (04 भण्डरा), and Village (0178 टोटो), along with fields for User, Date From, Date To, and a 'Show Map' checkbox. Buttons for 'Show Report' and 'Close' are visible at the bottom of the sidebar.

Village: मौजा : 0178 टोटो

जिला 11 लोहरदगा  
अंचल 04 भण्डरा  
मौजा 0178 टोटो

User:   
Date From:   
Date To:   
 Show Map  
Show Report Close

**Division Details** Date : 03/06/2014 04:52:17

जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मौजा : 0178 टोटो

Mutation No.	Mutation Date	User	Plot No.	Divisions
12356	03-06-2014	opr	70	70/1, 70/2
97/456	03-06-2014	opr	782	782/1, 782/2

# BULK IMPORT

Bulk import option can be used for importing a set of files in a single go. For using this module login into Desktop application as user and invoke the option from File -> Bulk Import.

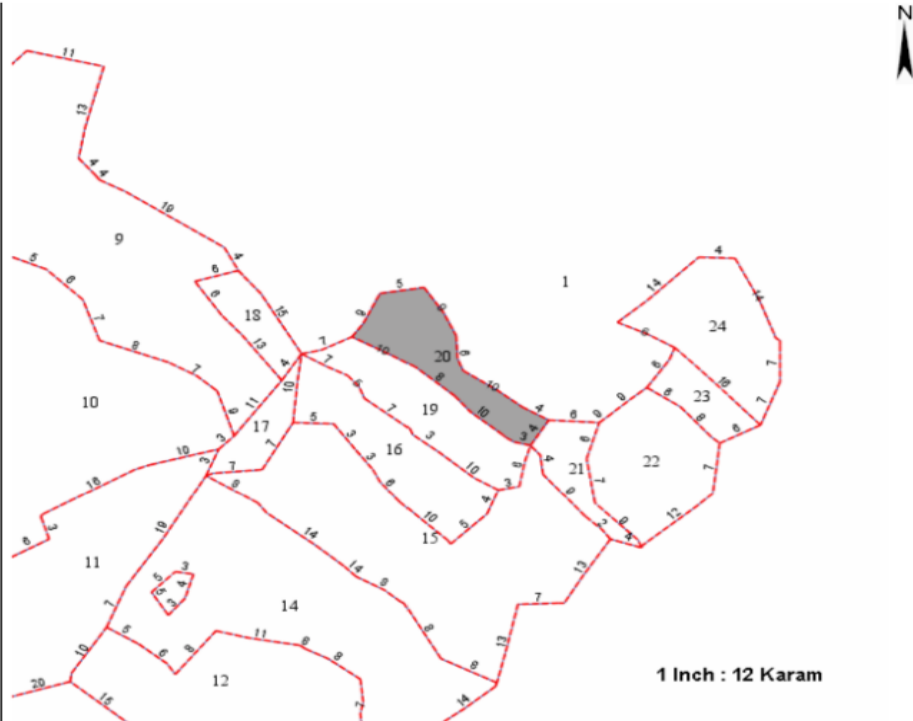
Process completed

Village	File	Status
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0178 टोटो	a015050178.shp	Plot Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0178 टोटो	a015050178.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0178 टोटो	l015050178.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0178 टोटो	p015050178.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0179 मसमानो (ठाकुर गाँव)	015050179_MAPOUT.shp	Invalid file name
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0179 मसमानो (ठाकुर गाँव)	a015050179.shp	229 : Ring Self-intersection at or near point (259.8052, 305.3205, NaN)
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0179 मसमानो (ठाकुर गाँव)	a015050179.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0179 मसमानो (ठाकुर गाँव)	l015050179.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0179 मसमानो (ठाकुर गाँव)	p015050179.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0180 बूढ़का	015050180_MAPOUT.shp	Invalid file name
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0180 बूढ़का	a015050180.shp	409 : Ring Self-intersection at or near point (191.0464, 53.3878, NaN)
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0180 बूढ़का	a015050180.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0180 बूढ़का	l015050180.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0180 बूढ़का	p015050180.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0181 बेदाल	015050181_MAPOUT.shp	Invalid file name
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0181 बेदाल	a015050181.shp	Plot Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0181 बेदाल	a015050181.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0181 बेदाल	l015050181.shp	Layer Import: Success
जिला : 11 लोहरदगा, अंचल : 04 भण्डरा, मीजा : 0181 बेदाल	p015050181.shp	Layer Import: Success

# EMBEDDING PLOT MAP IN ROR REPORT.

It is possible to request map of a plot to any specified scale by providing parameters. The resulting map image output can be used to embed in ROR reports

**राजस्व विभाग, हिमाचल प्रदेश - नकल खसरा (मुसावी)**


<p>जिला : चम्बा          तहसील : होली (उप. तहसील )          कानूनगोवत : त्रेहटा          पटवार वत : कुठेहड          मोहाल (हदबस्त न.) : कुठेड (175)          क्षेत्रफल : 00-07-00 बीघा-बि.-बि.</p>	
--	---

खेवट नं	खतौनी नं	खसरा नं
32	39	20
33	40	19
38	47	15
73	89	1
73	89	21

**1 Inch : 12 Karam**

Certified that this copy has been generated from the database of Revenue Department Tehsil होली (उप. तहसील ) as accessed by the Lok Mitra Kendra on 29-May-2014

To Verify; enter the Copy No above Bar Code at <http://admis.hp.nic.in/himbhoomilk>  
 For Validity Refer : Notific. No:Rev-C(F)/10-1/2009 Dated 14-Feb-2011

JamSampleCopy  


# PLOT INFO

Bhunaksha Plot info module can be used for viewing all the details of the plots in addition to the owner and area details vertices distance details is also available in this module.

The screenshot displays the 'Plot Information' window in the Bhunaksha software. The window has a menu bar with 'File', 'Reports', 'Settings', and 'Help'. Below the menu bar, there are two tabs: 'Village Map' and 'Plot Information'. The 'Plot Information' tab is active, showing the following details:

- Village: गाँव : 000101 रोपा
- Plot No: 129
- Plot Area: क्षेत्रफल : 00-03-12 बीघा-विस्वास-विस्वा map\_area : 0.000 hecter (0.83 sq)
- Plot Owner:

The main area of the window shows a map of the plot, which is a shaded polygon with vertices labeled P1 through P8. A green north arrow is visible in the top right corner of the map area. The plot number '129' is displayed in the center of the map.

Below the map, there is an 'Information' table with the following data:

SNo	Vertices	Distance
1	P1 --> P2	0.535
2	P2 --> P3	0.615
3	P3 --> P4	1.503
4	P4 --> P5	0.771
5	P5 --> P6	1.129

# IMPORTED VILLAGES REPORT

Bhunaksha has a report for displaying all the imported villages in the bhunaksha database. In the report all the details of imported sheet numbers and total no of plots in the village is displayed.

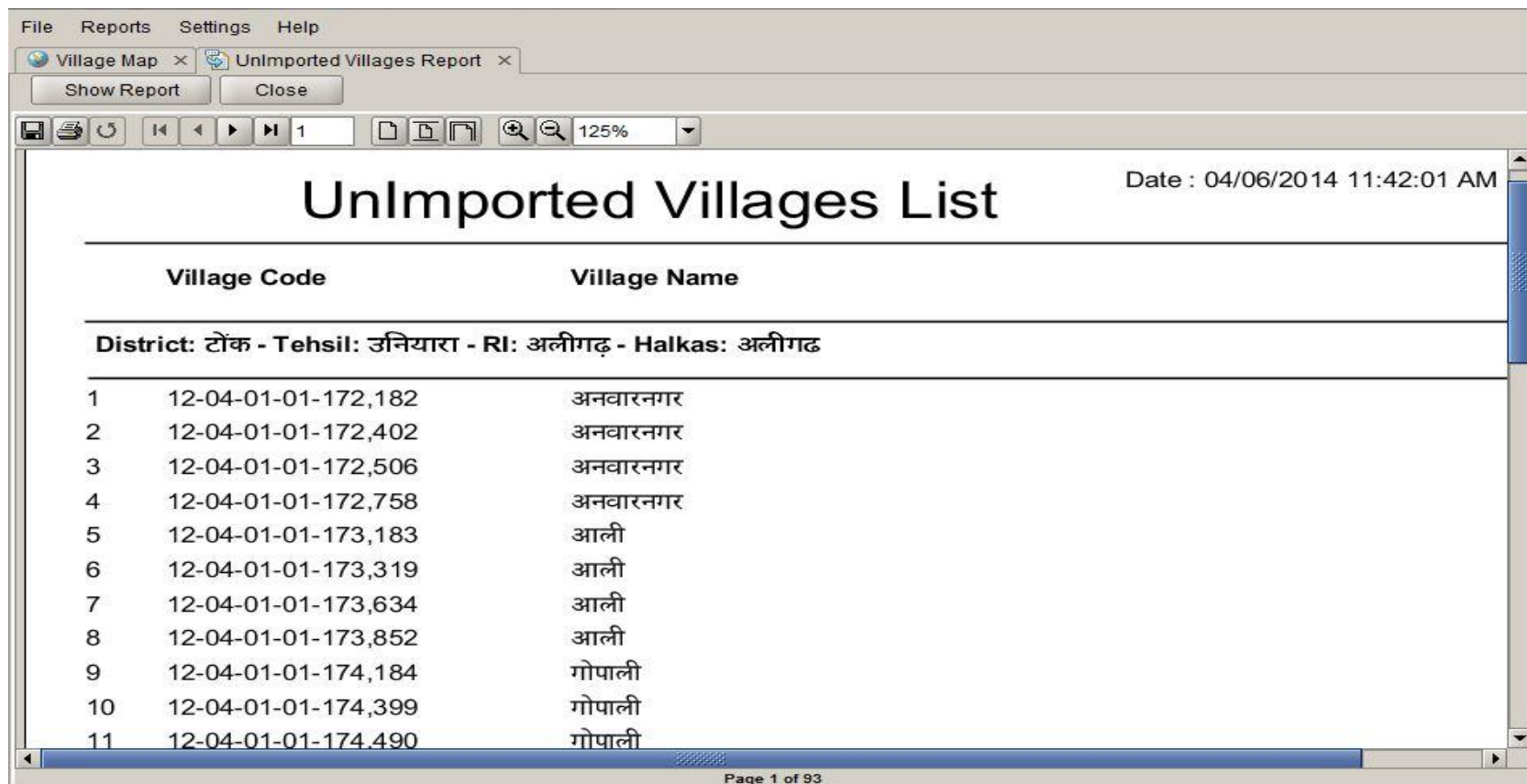
**List of Imported Villages** Date : 04/06/2014 11:40:30 AM

SNo.	Village Code	Village Name	No. of plots	Sheet No.	Total Sheets
1	12-04-01-01-206,117	District: टोक, Tehsil: उनियारा, RI: अलीगढ़, Halkas: अलीगढ़, Village: अलीगढ़,	1304	1,2	2
2	12-04-01-01-206,882	District: टोक, Tehsil: उनियारा, RI: अलीगढ़, Halkas: अलीगढ़, Village: अलीगढ़,	1304	1,2	2
3	12-04-01-02-119,779	District: टोक, Tehsil: उनियारा, RI: अलीगढ़, Halkas: उखलाना, Village: आंसलगांव,	486		0
4	12-04-01-02-202,720	District: टोक, Tehsil: उनियारा, RI: अलीगढ़, Halkas: उखलाना, Village: उखलाना,	486		0
5	12-04-01-09-137,144	District: टोक, Tehsil: उनियारा, RI: अलीगढ़, Halkas: हैदरीपुरा, Village: अलीमपुरा,	240		0
6	12-04-02-01-82,622	District: टोक, Tehsil: उनियारा, RI: उनियारा, Halkas: उनियारा, Village: उनियारा,	486		0
7	12-04-02-03-109,278	District: टोक, Tehsil: उनियारा, RI: उनियारा, Halkas: खोहन्या, Village: बडोदिया,	732	1,2	2
8	12-04-02-09-104,748	District: टोक, Tehsil: उनियारा, RI: उनियारा, Halkas: महाराजकवंस्पुरा, Village: सीतारामपुरा,	457	1,2	2
9	12-04-03-04-237,847	District: टोक, Tehsil: उनियारा, RI: पलाई, Halkas: फुलेता, Village: बालापुरा,	1111	1,2,3,4	4
10	12-04-04-04-14,14	District: टोक, Tehsil: उनियारा, RI: बनेठा, Halkas: गुमानपुरा, Village: बेसकी,	403	1,2	2
11	12-04-04-07-34,440	District: टोक, Tehsil: उनियारा, RI: बनेठा, Halkas: बून्दी, Village: परवन,	1006	1,2,3,4	4
12	12-04-05-01-172,758	District: टोक, Tehsil: उनियारा, RI: शोष, Halkas: अनवास्नगर, Village: अनवास्नगर,	83		0
13	12-04-05-01-176,401	District: टोक, Tehsil: उनियारा, RI: शोष, Halkas: अनवास्नगर, Village: बांसला,	377	1,2	2
14	12-04-05-07-149,704	District: टोक, Tehsil: उनियारा, RI: शोष, Halkas: पागडा, Village: पागडा,	739	1,2	2
15	12-04-05-11-162,533	District: टोक, Tehsil: उनियारा, RI: शोष, Halkas: रसूलपुरा, Village: रहमानपुरा,	629	1,2	2

Page 1 of 1

# UNIMPORTED VILLAGES REPORT

In addition to Imported villages report Bhunaksha has a report for displaying all the unimported villages. In this report all the villages whose data is present in ROR but not in bhunaksha database are displayed.



File Reports Settings Help

Village Map x UnImported Villages Report x

Show Report Close

125%

## UnImported Villages List

Date : 04/06/2014 11:42:01 AM

Village Code	Village Name
<b>District: टोक - Tehsil: उनियारा - RI: अलीगढ़ - Halkas: अलीगढ़</b>	
1	अनवारनगर
2	अनवारनगर
3	अनवारनगर
4	अनवारनगर
5	आली
6	आली
7	आली
8	आली
9	गोपाली
10	गोपाली
11	गोपाली

Page 1 of 93

# VALIDATE SHAPE FILE

Shape files which are initial output of digitisation can be validated for required fields and correctness of geometry in Bhunaksha. Shape file validation checking module can be opened from menu File -> Validate Shape file in Desktop client. This module will check whether the set of shape files pertain to certain pre defined conditions so as to import in Bhunaksha. Result of validation will be displayed in a grid format which can be printed or exported as excel file.

File Reports Settings Help

Validate Shape Files

Plots  Polygon Layer  Lines  Points

Khasra Column: KID Label Column: KID Label Column: DIMENSION Label Column: STRING

Village Code(optional): BHUCODE Layer Type: PAR\_TYPE Layer Type: LAYER Layer Type: FEAT\_TYPE

Browse SHP folder D:\BhunakshaDev\Himachal\SHP0612\_After\SHP0612\_After

Test Shape Files

Village	File	Status
District: मण्डी, Tehsil: अट, Revenue: रोपा,	a0612000101.shp	No Errors
District: मण्डी, Tehsil: अट, Revenue: रोपा,	a0612000101.shp(Polygon Layer)	No Errors
District: मण्डी, Tehsil: अट, Revenue: कनौज,	a0612000201.shp	No Errors
District: मण्डी, Tehsil: अट, Revenue: कनौज,	a0612000201.shp(Polygon Layer)	No Errors
District: मण्डी, Tehsil: अट, Revenue: डी.पी.एफ.नरेण पैड़,	a0612000301.shp	No Errors
District: मण्डी, Tehsil: अट, Revenue: डी.पी.एफ.नरेण पैड़,	a0612000301.shp(Polygon Layer)	No Errors
District: मण्डी, Tehsil: अट, Revenue: डी.पी.एफ.रोपा,	a0612000401.shp	No Errors
District: मण्डी, Tehsil: अट, Revenue: डी.पी.एफ.रोपा,	a0612000401.shp(Polygon Layer)	No Errors
District: मण्डी, Tehsil: अट, Revenue: शिल्हा दारल,	a0612000501.shp	No Errors
District: मण्डी, Tehsil: अट, Revenue: शिल्हा दारल,	a0612000501.shp(Polygon Layer)	No Errors
District: मण्डी, Tehsil: अट, Revenue: डी.पी.एफ.फलटनाल,	a0612000601.shp	No Errors
District: मण्डी, Tehsil: अट, Revenue: डी.पी.एफ.फलटनाल,	a0612000601.shp(Polygon Layer)	No Errors
District: मण्डी, Tehsil: अट, Revenue: अनसर,	a0612000701.shp	No Errors
District: मण्डी, Tehsil: अट, Revenue: अनसर,	a0612000701.shp(Polygon Layer)	No Errors
District: मण्डी, Tehsil: अट, Revenue: रिक्कर,	a0612000801.shp	No Errors
District: मण्डी, Tehsil: अट, Revenue: रिक्कर,	a0612000801.shp(Polygon Layer)	No Errors

Export Message to Excel Print Message Stop

# AUDIT TRAIL

Audit trail is available as activity log in Bhunaksha. The activity log gets an entry when a user logs in, starts a division and put up for approval, when a higher user approves the division etc. The log report has listing of time, user who performed the operation and description of operation.

## Activity Log Details

21/03/2014 5.36 PM

Activity Time	User ID	Remarks
21/03/2014 17.36.15	supervisor	Plot Division is Approved 0612000101 ( 31-->, 31/1, 31/2 )
21/03/2014 17.36.00	supervisor	LOGIN
21/03/2014 17.35.49	dio	LOGOUT
21/03/2014 17.35.36	dio	Plot Division Put Up for Approval 0612000101 ( 31 --> , 31/1 , 31/2 )
21/03/2014 17.34.49	dio	LOGIN