

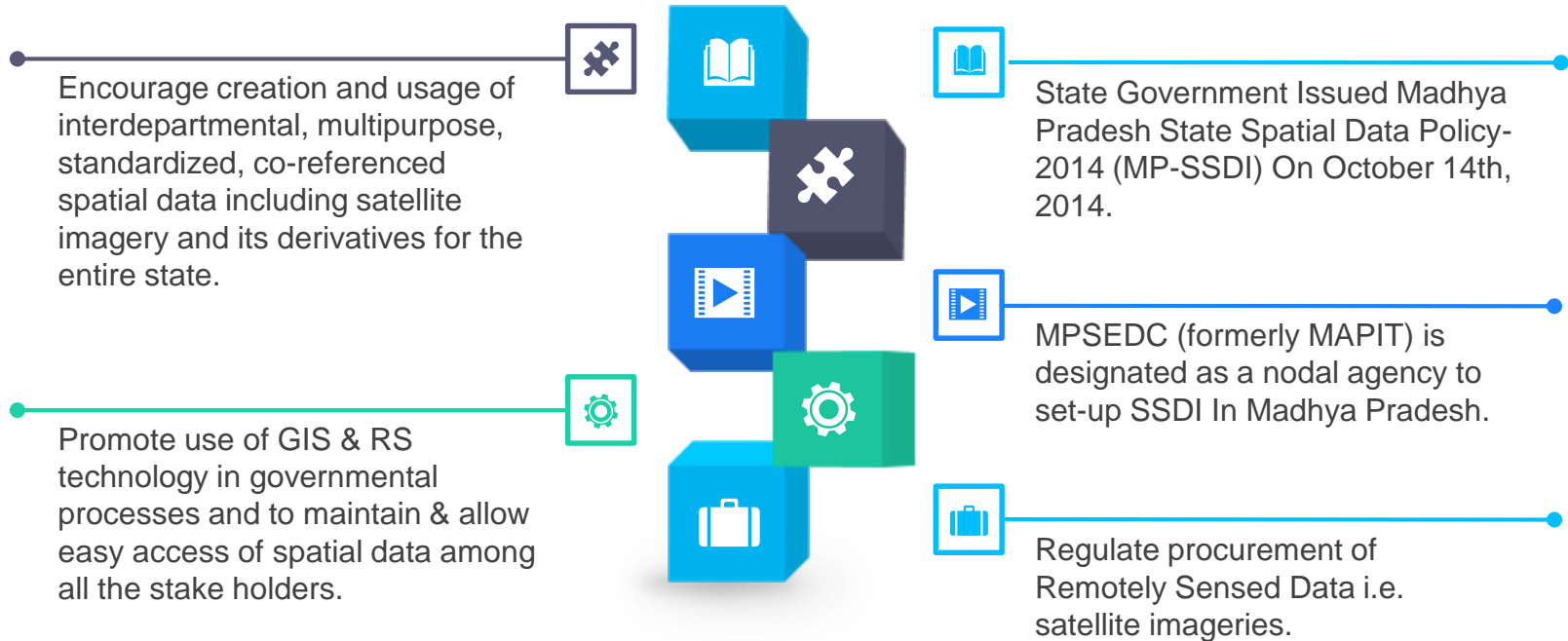


# ***Towards Smart & Spatially connected Governance***

***Dr Sandeep Goyal***  
***Additional Project Director***  
*Madhya Pradesh State Electronics  
Development Corporation (MPSEDC),  
Bhopal*  
*Website link-*  
[https://mpsedc.mp.gov.in/GIS\\_page.aspx](https://mpsedc.mp.gov.in/GIS_page.aspx)



# Madhya Pradesh State Spatial Data Infrastructure (MPSSDI)



# Objectives of MPSSDI

**Provide a single repository of Satellite images and GIS data (Spatial Data)**



**Developing customized Spatial Decision Support System (SDSS) for end users departments**



**Defining the GIS Data standards**



**Providing Web services**



**Creating time series of Satellite Images including complete coverage of Indian Satellites**



**Provide GIS data sharing protocols and GIS Data monetization.**



# MPSSDI Repository



## **35+ Satellite image coverages for entire state**

Since 2007 to till date having spatial resolution ranging from 0.5 meter (World view) to 56 meter (AWIFS).



## **150+ GIS layers**

Administrative Boundaries, Cadastral, Urban Properties, River & Waterbodies, Transport Network, Amenities, Land use & Land Cover, Geology, Geomorphology, Land registration guideline, Habitations, Electric Network etc.



## **30+ GIS enabled Web and Mobile applications**

Focusing Citizen Services, G2G services, Business Process Reengineering (BPR), Data Monetization etc. empowering citizens and state functionaries for better governance.





# Smart Governance

CITIZEN SERVICES

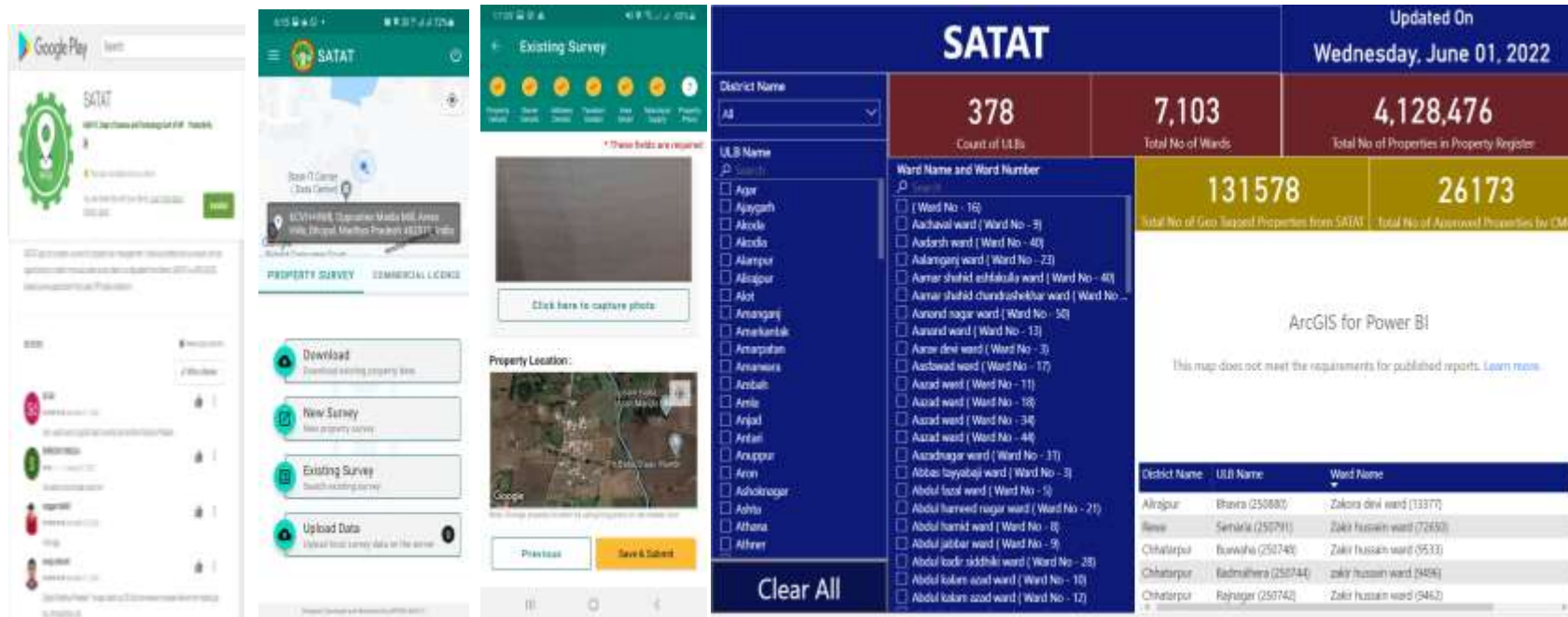
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# SATAT- Geotagged Property Survey Mobile App And Online Trade License

- Geotagged verification of property taxation purpose integrated with property tax register.
- Online processing of commercial license application.
- Digital file management leading to smooth disposal of application along with step wise messaging system for citizen for there trade license & property survey process.

SERVICES

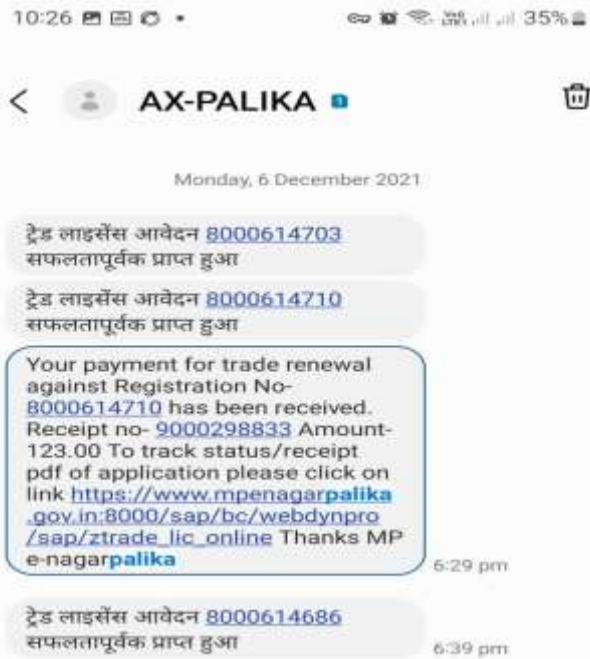
CITIZEN



App Link- <https://play.google.com/store/apps/details?id=com.mpssdi.uadd>  
 Web Link- <https://geoportal.mp.gov.in/satat>

# Online Trade License From SATAT

- Trade license generation /renewal using the SATAT mobile app.
- This app fetches the commercial property data from e-nagarpalika.
- Request for trade license generation is being processed by field officer of BMC and submit the request.
- Digitally signed license link has been shared to citizen for downloading the same.



# PIMS- Property Information & Management System (Urban)

- Spatial decision support system integrated with departmental SAP application to enable department/ULB to have a complete record of properties in the city and monitor the tax collection.
- Property search is based on owner name, property id, linked mobile number etc. available in public domain.
- 107 ULBs out of 378 have been updated in this system.

The screenshot displays the PIMS web application interface. At the top, it features the logo of the Directorate of Urban Administration & Development, Government of Madhya Pradesh, along with the text "संचालनालय नगरीय प्रशासन एवं विकास, मध्य प्रदेश शासन" and "Directorate of Urban Administration & Development, Government of Madhya Pradesh". Below this, there is a search bar and a "Tools" menu. The main area shows a map of a residential area with a search results panel on the left and a detailed property information table on the right.

**Search Results Panel:**

S.No.	GIS Id	House No.	Di
3.	026959045059	M/325	Di

**Property Information Table:**

Property	Info
Property Use	underfloor
Slum ID	null
Owner	[REDACTED]
Owner Father's Name	[REDACTED]
House No.	M/325
Street No.(Home)	null/null
Colony	null
Tehsil	शहडोल
Pin Code	462043



# Online Land use certificate for Town & Country Planning

- It provides online cadaster based land use certificate for Urban planning & extended planning area based on Master Plan.
- Previously average time for this certificate was 01 month which is now in real time.
- Land Use certificate module is live from 2019 (for 4 towns)
- LUC is being generated for 25 towns presently
- GIS based Masterplan
- Land use validation for application
- Khasra overlay and Land Use detection
- Khasra based Land Use Certificate display
- Online payment and real time generation of LUC
- Application ID with QR code have been provided for verification

## OBJECTIVES

- GIS based Online System for file processing and approval.
- Inclusion of all GIS based master plan of M.P, in phase 1. To be extended to all towns having masterplans.
- Integration with Land Records and readiness with ABPAS (Automated Building Plan Approval System)
- Report generation as per department requirements.
- New enhanced user interface as per the user requirement.
- A single window system for submission of development permission and LUC.
- Payment of fees by the applicant through the payment gateway
- Integration of digital signatures and e-sign for approvers of the department





# AUTOMATED LAYOUT PROCESS APPROVAL AND SCRUTINY SYSTEM- ALPASS

SERVICES

CITIZEN

GIS based dynamic decision support system for Land use and Layout approval

Onboarding of all stakeholder on single GIS platform

Interface to check all compliance for user/applicant before submission

Enabled real-time updates to applicants, consultants and officers

System driven Scrutiny and verification of layout drawing in real-time for improved efficiency

Embedding the verified layout in GIS layer, to augment the available dataset



## ALPASS – Few numbers

Previously average time for one approval was 90 days but now it is from 3 days to 15 days.

Updated version of GIS based Layout Permission Module started from 15 February 2022

Layout permission provided by this module for 15 towns and many more in progress

Total 367 applications disposed till 9<sup>th</sup> September 2022 and total fee of Rs. 6.57 cr. Collected.

# Dashboard



# Online Error Detection

**Town and Country Planning, Madhya Pradesh**

COMPLETION REQUESTED FOR PRELIMINARY APPROVAL REPORT

Project Generated on	06/06/2022
Applicant ID	WDL27642202
Area Address	Plot No. Self Residence, Tehsil Bhachhal Nagar, Village Bhachhal, District Mandla
Prepared By (Company)	Self House

**Developer / Applicant Details**

Developer / Applicant Name	PUNYANIL SURANA
CONTACT ADDRESS	206, SOHAGI, SOHAGI WARD, BSE V, AN, KHIL KHIL, INDORE, MADHYA PRADESH, 474001
Contact Number	827015942
Contact E-mail	punyanil.surana@gmail.com

**Plot Details**

Plot No.	Self House
Owner	Individual House
Usage	Residential
Shaded/Plot Number	2022/1, 204/2/1, 48/1/1
Shaded / Land Use	Proposed Residential Proposed Residential Road PA M Road (R) M Proposed Residential General Zone (R) M
Planning Area	Urban Planning Area

**Proposed Building Details**

Proposed Activity	Self House
Permissible Status	Permissible

	1	2	3	4	5
Min Planning Area (sq.m)	48	4000 (M)			
Min Community Open Space Area (sq.m)	424.0	424.0	1.8 ( % )	50.0 ( % )	Yes
Min Street Setback (meters)	1.000	1.000	50.0 ( % )	50.0 ( % )	Yes
Min Area Ratio			1.00	1.00	Yes
Min Coverage ( % )	10.0	10.0	-	-	Yes
Min Height (m)	12.0	10	-	-	Yes
Min Area Setback (m)	10.0	10.0	-	-	Yes

**Developmental Building Details**

Min (Sq. Feet)	Min (Sq. Feet)	Min (Sq. Feet)	Min (Sq. Feet)
Min (Sq. Feet)	Min (Sq. Feet)	Min (Sq. Feet)	Min (Sq. Feet)

**Planning Area**

Development (R) Street Residential (R), M-1	Min (Sq. Feet) Min (Sq. Feet)
i. Residential Plotting	Calculated @ 30 Sq. M. (RCS)
ii. Platform Plotting	Calculated @ 30 Sq. M. (RCS)
iii. Road Plotting	Calculated @ 30 Sq. M. (RCS)
iv. Open Plotting	Calculated @ 26 Sq. M. (RCS)

**Disclaimer:**

1) Building Report is an input based software tool used by Town and Country Planning Department but the final approval lies with Government / Officer / Authority.  
2) All the values which are mentioned off to the accuracy of final official value.

**Layout Plan**

**PROJECT NAME: Self Residence  
PROPOSED LAYOUT PLAN FOR THE DEVELOPMENT OF SELF HOUSE  
on Khass/Plot No. 202/1, 204/2, 48/1/1 at Village Bhachhal Madhya Tehsil Bhachhal Nagar District Indore**

**SCHEDULE OF PLOTS**

S.No.	Description	Area / Width / Length	Unit	%
1	Area Applied for Permission	4000.00	Sqm	
2	Min. Road Width	10.00	Mtr	
3	Min. Planning Area	424.00	Sqm	10.60
4	Max. Permissible Ground Coverage	1284.00	Sqm	32.10
5	Community Open Space	424.00	Sqm	10.60
6	Street Area	10.00	M	0.25
7	MCI Plot	0.00	M	
8	MCI Area	0.00	M	
9	MCI Area 1	0.00	M	
10	MCI Area 2	0.00	M	
11	Max Permissible FSI	1.00		
12	Proposed Height	10	M	
13	Road Setback width	10.00	M	
14	Plotting	Plotting shall be Permitted as per Developmental Plan and U.P.R. 1/1		
15	Pathway	10.00	0.00	Sqm
16	Future Planning	10.00	Sqm	

**Area Statement for Internal Sector**

S.No.	Description	Area
1	Area of Section Plot (Sq. M)	4000
2	Min. Road Width (sq.m)	100
3	Min. Road Coverage (sq.m)	1284
4	Min. Road Setback (sq.m)	100
5	Min. Road Area (sq.m)	100
6	Proposed FSI (sq.m)	4000
7	Proposed FSI (sq.m)	4000
8	Proposed FSI (sq.m)	4000
9	Proposed FSI (sq.m)	4000
10	Proposed FSI (sq.m)	4000
11	Min. Road Area (sq.m)	100
12	Min. Road Area (sq.m)	100
13	Min. Road Area (sq.m)	100

**Khass/Plot Plan**

**Location Plan**

**Legend**

- Area Applied
- Road Widening
- Plot Area
- Community Open Space
- Service Area

**Details of Ownership**

S.No.	Khass/Plot No.	Total Area (Sq. M)
1	202/1, 204/2, 48/1/1	4000

**Application No. WDL27642202**

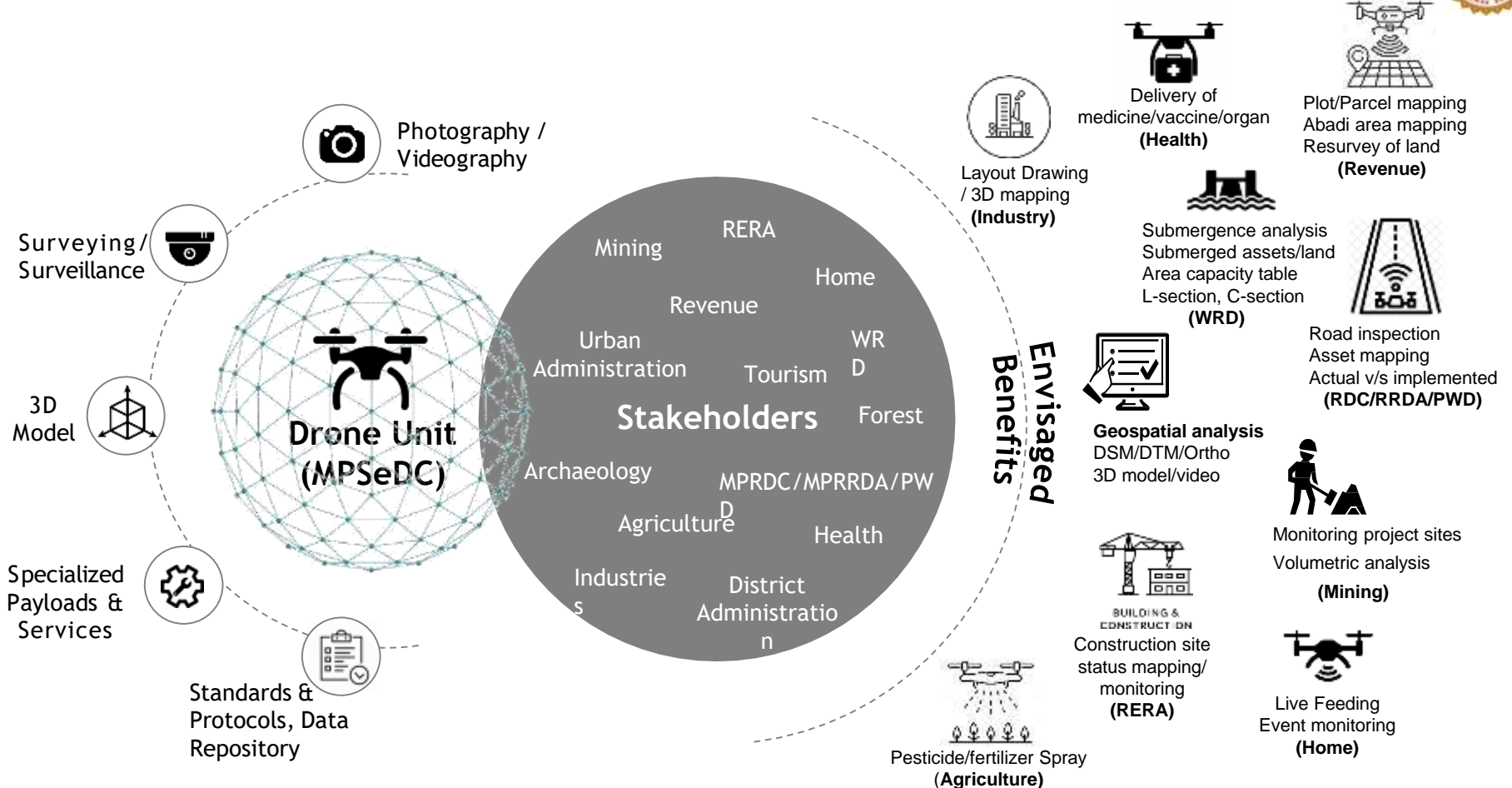
Project	Client/Owner	Consultant / Architect	Date	Authorized Signatory
Self Residence	PUNYANIL SURANA	GAURAV CHOUDHARY	27/4/2022	Signature of officer







# Drone Centre (for Good-governance)



# SMART CITY PLANNING – BHOPAL ABD AREA

Table Of Contents

- Layers
  - Extracted\_Trees
    - <all other values> type
    - Bush
    - Plant
    - major
    - small
  - MasterPlan\_Plot
  - Extracted\_Property\_ABD
    - <all other values> type
    - commercial
    - institutional and public
    - open space and recreation
    - public
    - residential
  - ActualBoundary
  - ABD\_Boundary
  - AOI
  - newmarket\_orthomosaic\_all

**Legend**

- ActualBoundary
- ABD\_Boundary



# Extracted Features Including Plot's

The screenshot displays a GIS application interface with an aerial map. The map shows various extracted features: yellow polygons for residential plots, green polygons for commercial areas, and purple polygons for institutional/public buildings. A red arrow points to a specific green polygon feature.

**Table Of Contents**

- Visible
  - Extracted\_Property\_ABD
    - <all other values>
    - type
      - commercial
      - institutional and public
      - open space and recreational
      - public
      - residential
  - ActualBoundary
  - ABD\_Boundary
  - AOI
  - newmarket\_orthomosaic\_al...
- Not Visible
  - Extracted\_Trees
  - MasterPlan\_Plot

**Identify**

Identify from: <Top-most I

Extracted\_Property\_ABD  
- 026932007001

Location: 77.395759 23.2333

Field	Value
FID	4990
Shape	Polygon
FID_1	1355
gis_id	026932007001
parcel_no	007001
ward_no	32
ulb_cd	0269
t_cd	802312
dist_cd	444
state_cd	23
photo_link	
slum_id	
No_of_floo	
Description	Constructed
sub_type	apartment
type	residential
Plot	P1355
ABD_Plot	2

Identified 1 feature

# Drone based urban survey : Chhanera (New Harsud Rehabilitation Area)

1



2



Total Plots: 10663

3

Delivered outputs  
For mobile app:



802434

.TPK  
.GDB



802434

RoR tagging

4



Download



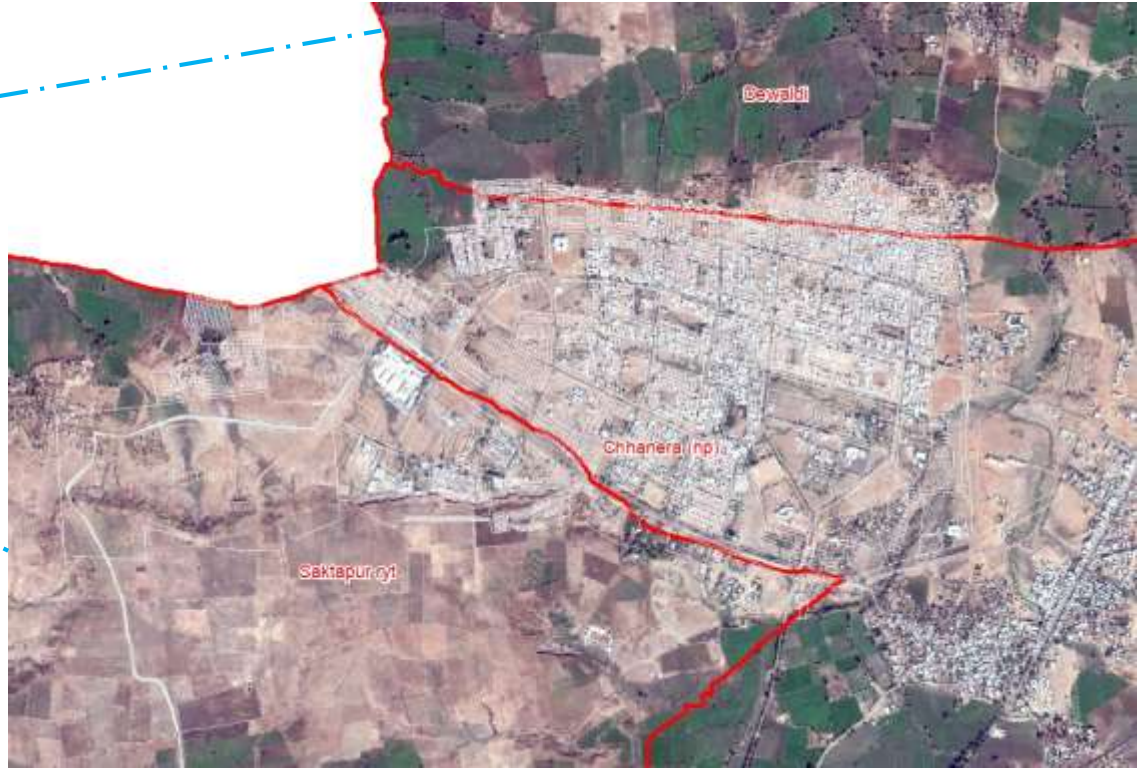
Hard-copy  
maps for  
field  
validation



5

# Village and Rehabilitated town mapping - New Harsud

New Harsud (Chhanera, Saktapur and Dewaldi)  
Rehabilitation area



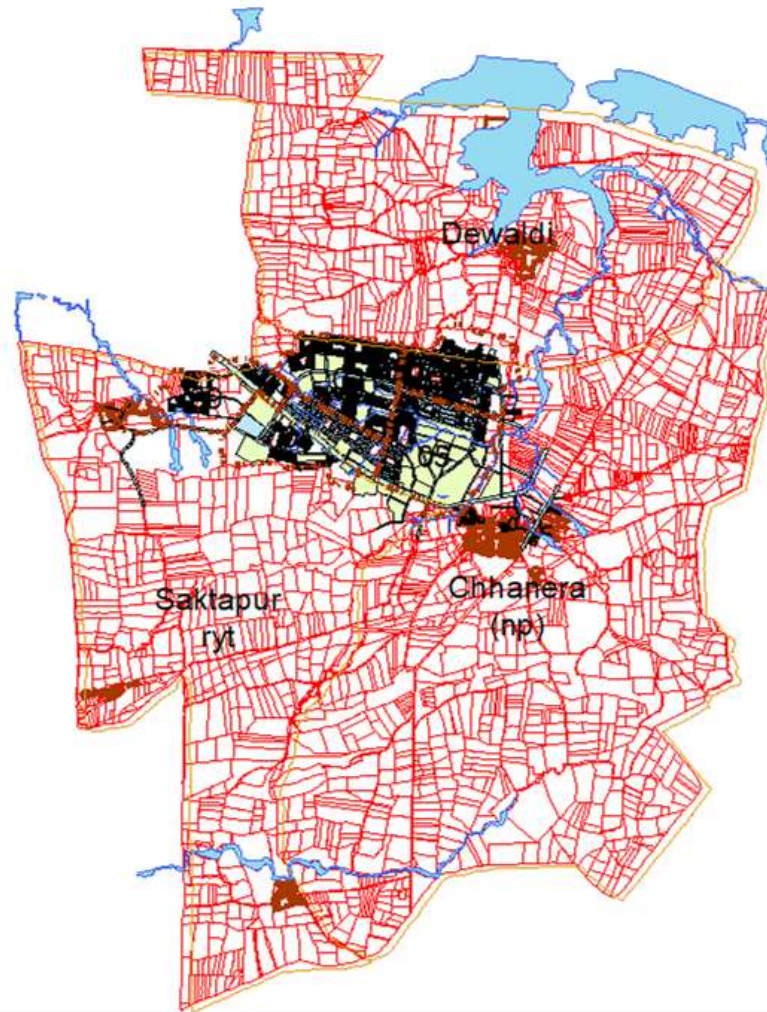
# Feature Extraction: New Harsud



## Legend

- Sector
- Village\_Boundary
- Plot
- WaterBodyANDDrainage
- Abadi\_Plot
- Govt\_Plot
- Road
- Abadi\_Patches
- Harsud\_agriculture\_khasra

# Draft Map New Harsud



## Legend

- Sector
- Village\_Boundary
- Plot
- WaterBodyANDDrainage
- Abadi\_Plot
- Govt\_Plot
- Road
- Abadi\_Patches
- Agriculture

# IGRS – SAMPADA 2 – GIS Solutions for G2G & G2C SERVICES

## IGRS - Online Guideline (Colony Boundary) Mapping Application

- GIS Enabled and Department user login based Web application
- Pre loaded with MP administrative boundaries and Road (NH/SH/MDR/ODR/PMGSY) & Railway Network GIS Layers
- Pre loaded with MPCLR Khasra parcel and Forest map for additional reference
- Toggle Base Map and Satellite Imagery
- User friendly process for creation of colony boundary (multiple GL rate record)
- Facilitated to capture/create multi part colony boundary with in village / ward boundary
- Provided edit / delete options for change of colony boundary or wrongly captured boundary
- User friendly basic tools (Navigation, Measure, and Information tools)

## IGRS – SAMAPADA 2 Property Valuation & Area Management

- GIS Enabled Web application for Department and citizens of MP
- Locate property based on Property address using Google Map / MapMyIndia platforms
- Profiling / Valuation of identified property as per IGRS guideline sub-clauses
- Preloaded with MP administrative boundaries and Road (NH/SH/MDR/ODR/PMGSY) & Railway Network GIS Layers and can Toggle Base Map and Satellite Imagery
- Online provision for split / Merge / Edit Location boundary by Area Management module
- Location guideline rates can be evaluated and changed based on Data analytics module
- Implemented online user based Hierarchy / workflow management for approval of guideline rates

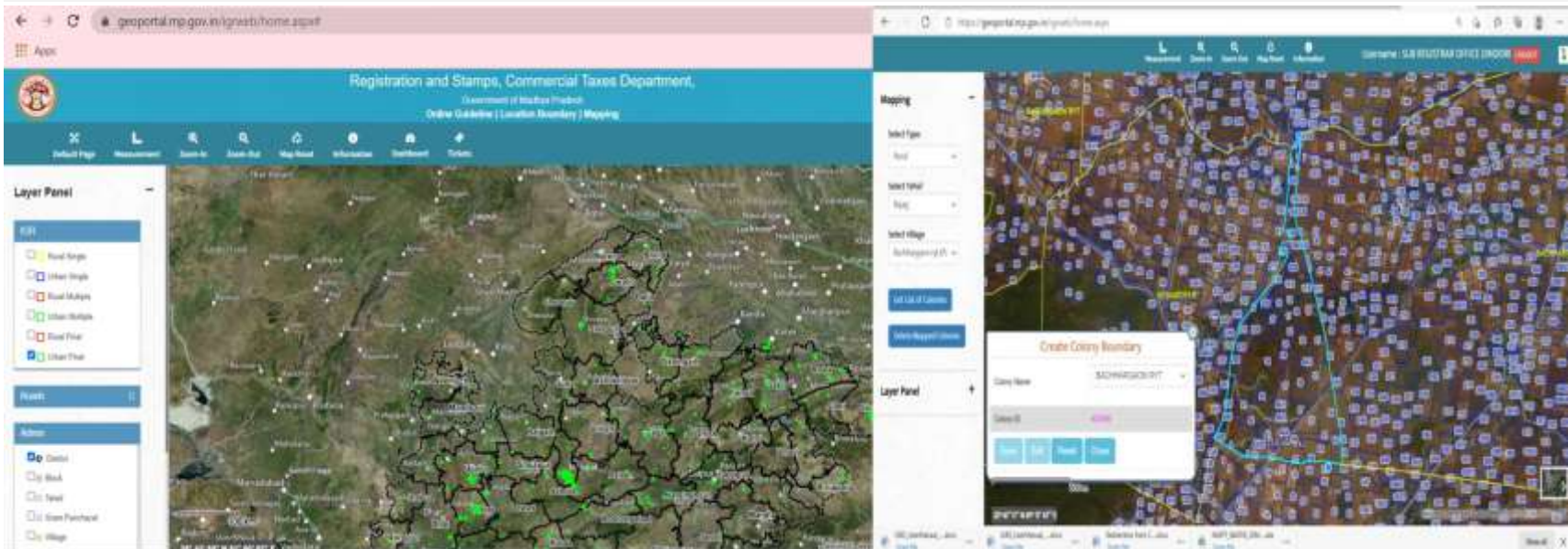


# IGRS - Online Guideline (Colony Boundary) Mapping Application

SERVICES

CITIZEN

- GIS Enabled and Department user login based Web application
- Pre loaded with MP administrative boundaries and Road (NH/SH/MDR/ODR/PMGSY) & Railway Network GIS Layers
- Pre loaded with MPCLR Khasra parcel and Forest map for additional reference
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# Property Valuation Area Management IGRS – SAMAPADA 2

- GIS Enabled Web application for Department and citizens of MP
- Locate property based on Property address using Google Map / MapMyIndia platforms
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- Online provision for split / Merge / Edit Location boundary by Area Management module
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SERVICES

The image displays four screenshots of the SAMAPADA 2 web application interface. The first screenshot shows the 'Property Valuation' page with a search bar and a 'Data Analytics' label. The second screenshot shows the 'Location Merge' page with a map and a 'Merge' button. The third screenshot shows the 'Location Split' page with a map and a 'Split' button. The fourth screenshot shows the 'Guideline Rate Update' page with a form and a 'Guideline Rate Update' label.

CITIZEN

# Property Identification & Valuation Module – Salient Features

- It is a single window solution for property Stamp duty calculation
- Can search any property location across MP based on address search / Enagar Palika ID / Khasra ID / ULPIN / Panchayat Property ID (Swamitva)
- Can identify IGRS Guideline Rates for that location
- Can value Property stamp duty based on the property category and sub clauses

The screenshot displays the S@MPADA 2.0 e-registry Portal interface for Property Valuation. The browser address bar shows the URL: `20.198.1.180/igrs/#/property-valuation`. The page header includes the portal logo and the text "S@MPADA 2.0 e-registry Portal - Govt. of M.P.". A navigation menu is visible on the right side of the header.

The main content area is titled "Property Valuation" and features a search section with the following options: "By Address", "Property ID (E-Nagarpalika/PTR ID)", "Rural (Khasara Unique ID/ ULPIN)", and "Panch". The "By Address" option is selected, and the search input field contains the address: "Urban E7/42 (E7, Arera Colony, Bhopal, Madhya Pradesh, 462016)".

On the left side, there is a "Guideline Location" section with three categories: "District Bhopal", "Area Type Urban", and "Local Body Huzur 1".

The central part of the interface shows a map of the Bhopal area with several location markers. The markers include: "Anurag Agency", "Sushma Apartment", "Number 12 Market", "Aryavart Kindergarten School", "Shahpura Bharat Gas Service", "Sunshine Apartment", "Ashoka Apartment", "Blue Dart International Courier And Cargo", "Bank of Baroda (E Dena)", "Pushpanjali Hospital", "Overhead", and "Chickenkuduku".

On the right side, there is a form titled "Choose option to calculate Property Rates". The form has three main sections:

- Property Category:** "AGRICULTURAL LAND", "BUILDING" (selected), and "PLOT".
- Building Type:** "Independent Building" (selected), "Independent Floor", "Multistorey", and "Open Terrace".
- Additional Information:** A checkbox for "Whether the Property is a Lease Hold Property of the Housing Board" is unchecked. A note states: "Note \* The Sum of All Area Field Must Be Equal to Total Area". Below this, there are fields for "Enter Total Area \*" and "Unit" (set to "Square meter(SQM)").

Below the "Additional Information" section, there is a "Usage Type \*" section with radio buttons for "Residential Cum Commercial" (Yes/No) and checkboxes for "Residential", "Commercial", "Industrial", "Health", "Education", and "Other". The "Residential Cum Commercial" radio button is set to "No".

At the bottom of the form, there is a "Floor Type \*" dropdown menu and a "Subclause" section with a checkbox for "Whether Plot Is Situated On National Highway Or Its Bypass".

# Data Analytics Criteria (Business Rules) for Increase Guideline Rates

1. Transactions registered in financial years at a price higher than the market rate of the line
2. New investment area or expansion of existing investment area or investment on the basis of probabilities,
3. On the basis of extension of non-agricultural purposes in agriculture based areas which can be as follows-
  - New Residential Projects
  - New Commercial Projects / Hospitals
  - New educational institutions like university schools etc.
  - New industrial area or expansion of existing industrial area
  - Construction or expansion of road/rail/airport
  - Mandi
  - Smart City etc.
  - Irrigation of vulnerable areas/villages based on permanent/new irrigation

Sr. No	List in Region / Location weighted according average	Maximum Increase (in %)	Remark
1	>200 %	100%	
2	200-100 %	50%	
3	100-50 %	30%	
4	<50%	20%	

development.

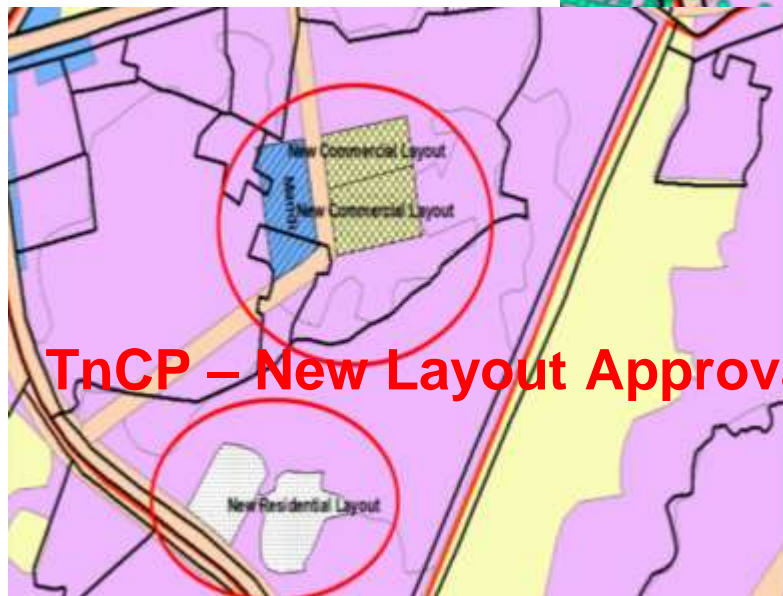
Sr. No	List in Region / Location weighted according average	Maximum Increase (in %)
1	>200 %	100%
2	200-100 %	50%
3	100-50 %	30%
4	<50%	20%

## Increase of GL Rates

> 200% Increase of GL rate

100 to 200% Increase of GL rate

50 to 100% Increase of GL rate

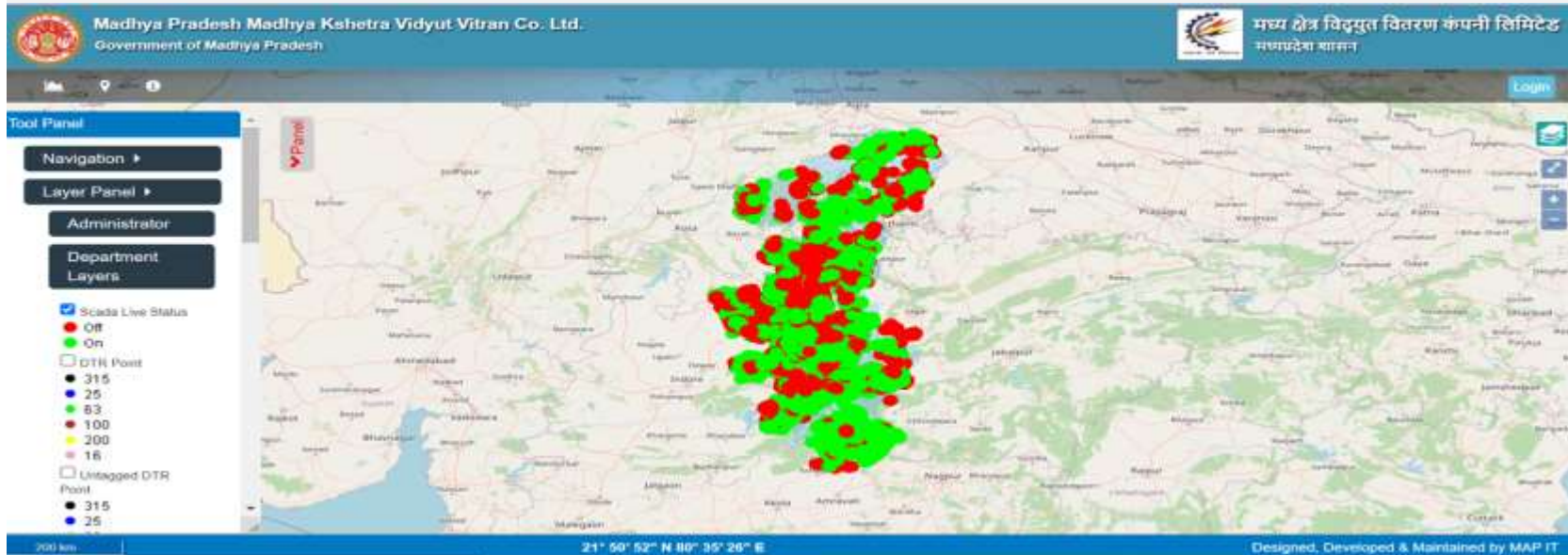


**TnCP - New Layout Approvals**



# MPMKVVCL- Electrical Network Mapping & Integration with SCADA

- Android mobile infra app for survey of electrical assets
- Creation of GIS Electrical asset mapping based on the filed survey input
- A Web GIS Portal for Electrical Assets view, query, monitor status and integration with SCADA data.
- Project Area - The project Aol covers the entire Madhya Kshetra area, which contains two regions (Bhopal & Gwalior), 16 circles, 53 divisions. 350 zones and it contains around 15 districts of central MP
- PMGSY-1 and PMGSY-2 roads had been mapped using the web application by block officer of MPRRDA
- New proposed Road alignment can be drawn through this web portal by the block officer which can be downloaded and finalized at HQ.
- PMGSY-3 approval got by state to provide all the data over satellite image as per the criteria of GoI



SERVICES

CITIZEN

Web Link- <http://gis.mpcz.in:8888/madhyakshetra/>

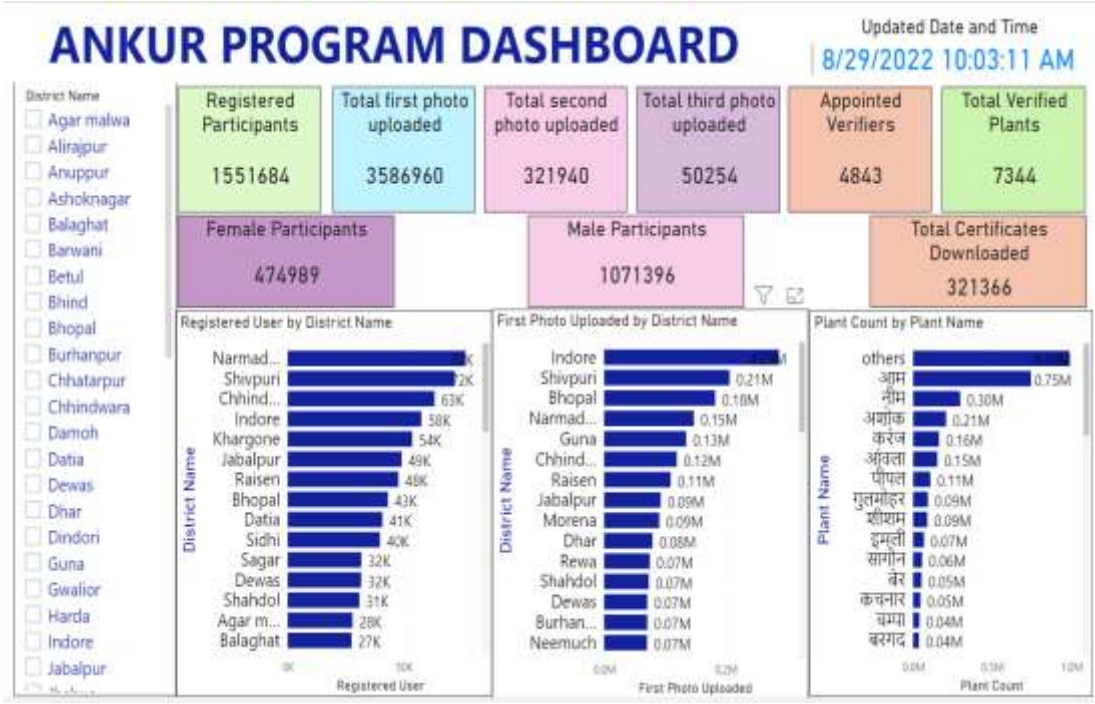


# Ankur- Vayudoot Public participation for plantation

SERVICES

CITIZEN

- Madhya Pradesh started a public participation program for plantation.
- Public or organizations can register and upload their geotagged photos of plantation in a periodical interval
- Participants gets online certificate selected best participation Praanvayu award



App Link-<https://play.google.com/store/apps/details?id=com.mpssdi.epcoplantation>

Web Link- <http://geoportal.mp.gov.in:8090/kalpvrksh/>

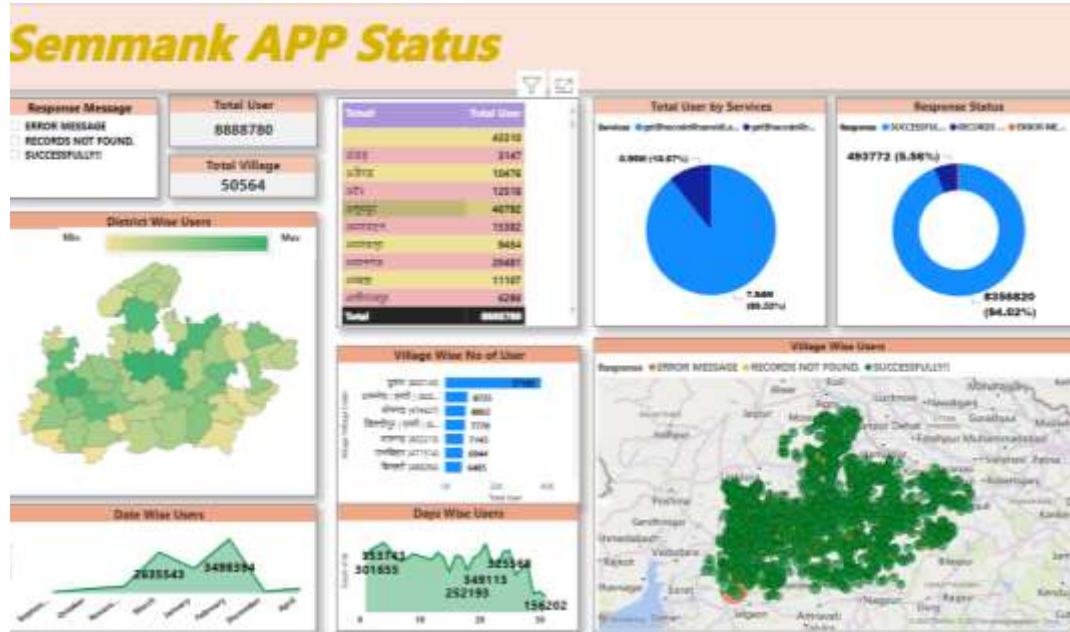


# SEEMANK (MP KISAN)

SERVICES

CITIZEN

- Citizen Mobile app for khasra (Cadastral) Information search with record of rights (ROR) on Map & satellite image.
- It provides info about any property based on search by users' current location or on selected village basis.
- It provides facility of walking in an area to measure the land parcel.



Mobile App Link-<https://play.google.com/store/apps/details?id=in.gov.mapit.kisanapp>

# DISASTER WARNING AND RESPONSE SYSTEM

01

Multi stakeholder real-time data gathering of events, rainfall, dam water levels etc



02

Integrated Single platform for collation and dissemination of information for WRD, SDERF, Revenue and District Administration



03

Predictive analysis of submergence in river basin and area in districts based on rainfall & Dam water release data



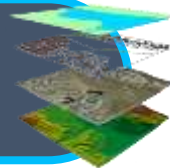
04

Integrated control and command center at State and District HQs



05

GIS based Web and Mobile application for incident reporting, gathering/updating of information, dashboard and alerts





# Disaster Warning & Response System (DWRS)



SERVICES

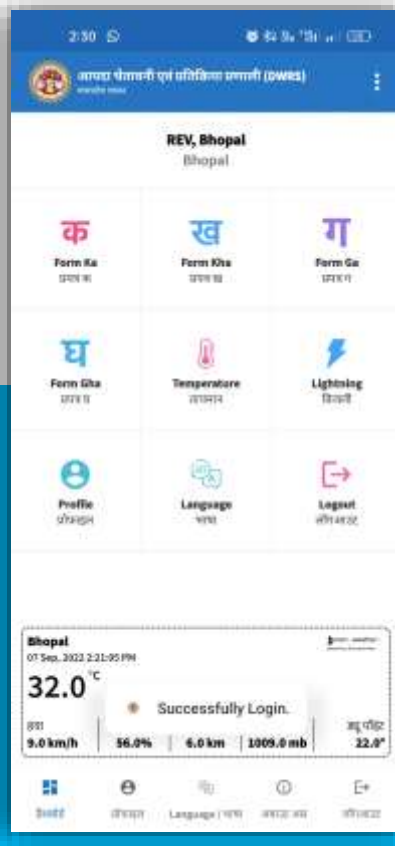
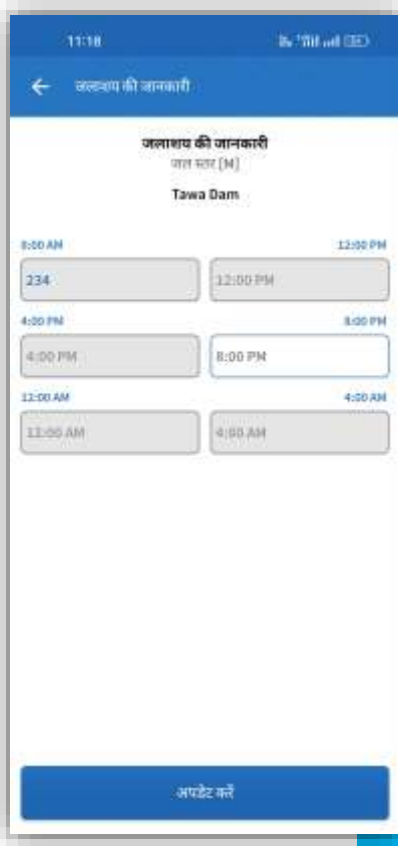
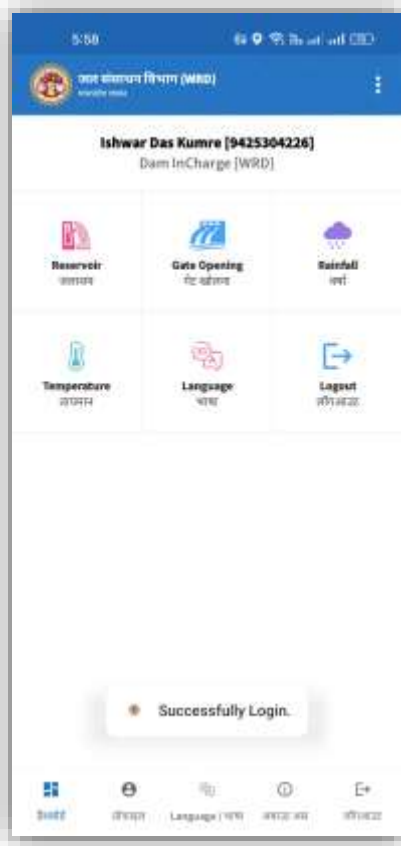
CITIZEN

Mobile App for SDERF/CUG User, Dam-Incharge and CE User

Web URL-<https://aapdasuraksha.mp.gov.in/>

Mobile App-<https://play.google.com/store/apps/details?id=com.mapit.sderf>

# Disaster Warning & Response System (DWRS)



SERVICES

CITIZEN

Mobile App for SDERF/CUG User, Dam-Incharge and CE User

Web URL-<https://aapdasuraksha.mp.gov.in/>

Mobile App-<https://play.google.com/store/apps/details?id=com.mapit.sderf>

# Disaster Warning & Response System (DWRS)

2:30

← प्रायः ख (बाढ़/अतिवृष्टि से सति)

सामान्य जानकारी  
कह कह भिन्न है ?\*  सति  हो

सूची\*

जनहानि पशुहानि/प्राण संख्या:  
बाढ़/अतिवृष्टि\*  प्राण संख्या   
अवशेषी विकारी\*  अवशेष संख्या

पशु हानि  
पशु हानि\*

मकान क्षति  
कुर्चे\*  क्षति

टिप्पणी  
टिप्पणी   
हानि की विवरण\*

2:30

← प्रायः ख (बाढ़/अतिवृष्टि से घायल)

सामान्य जानकारी  
कह कह भिन्न है ?\*  सति  हो

सूची\*

घायल व्यक्ति का विवरण:  
नाम\*  पति   
पिता का नाम\*  \*घायल व्यक्ति का विवरण  
पिता का नाम  दादा/पिता का विवरण   
पता

टिप्पणी  
टिप्पणी   
हानि की विवरण\*

07 Sep, 2022 2:30 PM

सबमिट

2:30

← प्रायः ख (बाढ़/अतिवृष्टि से मृत्यु भूयमान)

सामान्य जानकारी  
कह कह भिन्न है ?\*  सति  हो

सूची\*

मृत्यु का विवरण:  
नाम\*  पति   
पिता का नाम\*  \*मृत्यु व्यक्ति का विवरण  
पिता का नाम  दादा/पिता का विवरण   
पता

टिप्पणी  
टिप्पणी   
हानि की विवरण\*

07 Sep, 2022 2:30 PM

सबमिट

2:31

← प्रायः ख (बाढ़/अतिवृष्टि से घायल)

सामान्य जानकारी  
कह कह भिन्न है ?\*  सति  हो

सूची\*

प्रायः ख

प्रभावित गांवों में कसब की जानकारी  
बोया गया कुल रकबा (हे.से)\*  \*प्रभावित कसबों का नाम

प्रभावित खारोटा

अवस्था	कुल रकबा	प्रभावित रकबा (हे.से)
25 से 33 %	अवशेषी सति	अवशेषी सति
33 से 50 %	अवशेषी सति	अवशेषी सति
50% से अधिक	अवशेषी सति	अवशेषी सति
सौर	0	0.0

अन्य सुचना

अवस्था	कुल रकबा	प्रभावित रकबा (हे.से)
25 से 33 %	अवशेषी सति	अवशेषी सति
33 से 50 %	अवशेषी सति	अवशेषी सति
50% से अधिक	अवशेषी सति	अवशेषी सति
सौर	0	0.0

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# Thank You