

भूमि संसाधन विभाग Department of Land Resources ग्रामीण विकास मंत्रालय Ministry of Rural Development भारत सरकार Government of India

31st August 2024

BUDGET ANNOUNCEMENTS 2024-25



PARA 98

Land-related reforms and actions, both in rural and urban areas, will cover (1) land administration, planning and management, and (2) urban planning, usage and building bylaws. These will be incentivized for completion within the next 3 years through appropriate fiscal support.

PARA 100

Urban Land related actions

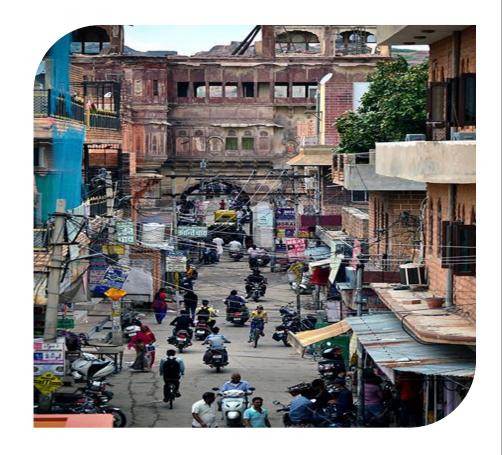
Land records in urban areas will be digitized with GIS mapping. An IT based system for property record administration, updating, and tax administration will be established. These will also facilitate improving the financial position of urban local bodies.



Incentives for Land related Reforms by State Govts. in <u>URBAN</u> Areas. (Budget speech Para 98 & 100)

Scheme for Special Assistance to States for Capital Investment 2024-25 (Dept of Exp MoF 9th Aug 2024, *PART-VIII*)

Allotment - Rs. 5,000 Cr.



Objectives & Milestones



Records creation/ Modernizatio

Basis for assessing Property Tax; Improve ULBs fiscals

Integration of GIS & Spatial databases •Better Urban planning: Now & future



Categorization of Urban Areas

Category	Population Criteria
A	2 Lakh and above
В	1 Lakh to 2 Lakh
С	50,000 to 1 Lakh
D	Less than 50,000

Milestones (Sequential)

1. Aerial Survey & Mapping incl Feature

Extraction

2. Field Survey & Ground Truthing by Rovers & DGPS

3. Claims & Dispute Resolution & Map
Finalization



1. AERIAL SURVEY & Mapping incl Feature Extraction

Fixing Ground Control Points & city boundaries by CORS Framework.

High Resolution Digital Aerial Photography w/ survey grade equipment.

Data Processing & 3D Feature extraction incl. DEM & DTM.

Quality control & Production of ORI with land parcel boundaries.

MAP 1 publication in 1:500 scale.

Creation	of Ortho-Rectified	Images
	(ORI)	

Category	Population Criteria	Admissible Incentive
Α	2 Lakh and above	30 Cr.
В	1 Lakh to 2 Lakh	25 Cr.
С	50,000 to 1 Lakh	20 Cr.
D	Less than 50,000	10 Cr.

2. FIELD SURVEY & Ground Truthing by Rovers & DGPS

Land Parcel boundary & area ascertaining by CORS based GNSS rovers.

Integration of property holding details of ULBs & ground validation.

Integration of ORI with property tax, LR, authority approvals etc.

Standardized data collection and GIS platform.

MAP 2 publication with GIS-ready land parcel maps & its dissemination.



Category	Population Criteria	Admissible Incentive
Α	2 Lakh and above	30 Cr.
В	1 Lakh to 2 Lakh	25 Cr.
С	50,000 to 1 Lakh	20 Cr.
D	Less than 50,000	10 Cr.



3. Claims & Dispute Resolution & MAP FINALIZATION

IEC, awareness, community engagement & sensitization.

Issuance of Notices & Notifications.

Claim finalization & dispute resolution of ownership, area, shape & boundary.

Preparation of updated land and property records.

Final MAP-3 publication with land property card & register.

Category	Population Criteria	Admissible Incentive
Α	2 Lakh and above	30 Cr.
В	1 Lakh to 2 Lakh	25 Cr.
С	50,000 to 1 Lakh	20 Cr.
D	Less than 50,000	10 Cr.

Guidelines 1



Subdivision
into 4
ULB
classes
based on
total
population.

Maximize benefits with prompt action & response within this FY 2024-25.

States can claim for progressive milestones in the right logical sequence.

The Dolk will be the nodal for issuing guidelines & reporting.

DoLR will verifying accuracy completen ess of ground progress before final recommen

Periurban

First come

Guidelines 2



•Empower more than 100 Urban Local

Bodies with

milestones

1 & 2 in this FY. Milestone

3 too for

•If the no. of ULBs exceeds the

proposed numbers in the scheme: incentive to be proportion ately

States can use the incentive amount for urban infrastruct ure projects in any sector.

ULBS where ORIS under AMRUT, NMCG & ICZM are available will be eligible only for incentives

The final approved amount will be released by the Gol in a single installmen

List of capital

Incentive Summary



Milestone	Component		Unit Rate	per ULB (cr)	
		Population (Less than 50,000) D		(1 - 2lakh)	Population (2 lakh & above) A
Milestone 1	AERIAL SURVEY: Ortho Rectified Image generation, Quality check and preparation of MAP 1	10	20	25	30
Milestone 2	FIELD SURVEY: Ground truthing by Rovers & DGPS and integration with Property tax holding & other documents and publication of MAP 2	10	20	25	30
Milestone 3	Post-publication: Claim & Dispute resolution, notices, Community engagement & map-RoR corrections and	10	20	25	30



Modernization of Urban Land Records (ModULaR)

- A new sub-scheme within DILRMP
- Under Survey- Resurvey component
- Proposed pilot in more than 100 ULBs (PHASE-I)
- FY 2024-25 (31.1.2025)
- Prepared in consultation with SoI, MoPR, MoHUA, Geospatial industry, inputs from various States and Internal Deliberations
- CTAG meeting on 5.8.24 and PSMC meeting on 5.8.24 & 9.8.24
- Pilot proposed total cost of Rs.194 Crores.
- PHASE-II 1000 cities 2025-26 and 2026-27 each tentatively

ModULaR pilot



COMPONENTS

- 1. Aerial Survey
- 2. Field Survey
- 3. IEC, Training & Documentation
- 4. Survey equipment
- 5. GIS software
- 6. NPMU and SPMU



Aerial Survey: three methodologies

> (a) 2D Nadir Camera with 2D feature extraction (40 no.)

➤ **(b) Oblique angle camera** (5 cameras) without LiDAR and data acquisition for creation of 3D reality Model and creation of 3D GIS dataset. **(40 no.)**

➤ (c) Oblique angle camera (5 cameras) and LiDAR Sensor for creation of 3D reality Model and creation of 3D GIS dataset. (20 no.)

Estimated Costing for Pilot (1)



S. No	Component	Activity	Remarks	M1 Nadir Camera (2D GIS)	M2 Oblique Camera (3D GIS)	M3 Oblique Camera + LiDAR (3D GIS)
1	Aerial Survey	Fixation of boundary of the Urban Areas, Establishment of Ground Control Points (GCPs), Procuring of necessary clearances; Aircraft/Drone Flying, Post Processing generation of Mapping Ortho Rectified Imagery (ORI), Orthomosaic, DEM, DSM, DTM, 3D textured model/3D Reality Model Per Sq. Km	Survey of India (SoI) through procurement of private agencies	20,000	25,000	30,000
2	Feature Extraction	Generation of 2D/3D GIS dataset through feature extractions including all Buildings and Public utilities, etc. and generation of Property Layer per Sq. Km	Survey of India (SoI) through procurement of private agencies	20,000	30,000	30,000
3	Scanning, Digitization & Integration of existing records	Scanning, Digitization of existing Records & Maps and Integration of Record of Rights (RoRs) and Other details in Attributes Per Sq. Km	State Government with assistance of SoI			
4	Field Survey	Field Survey including ground truthing of average 1000 households/properties/land parcels per Sq. Km	State Governments	1,50,000	1,50,000	1,50,000
5	Quality Check	Quality checks and Generation of Land Parcel/ Property Layer at the three stages of ORI post flying Ground- Validated data and after inquiry & dispute resolution	State Governments with assistance of Survey of India			
6	Cloud Space and Storage	Storage and misc expenditure per Sq. Km	State Govts and/or SoI	3,000	3,000	3,000
A	Total (1 to 6) Rate Pe	er Sq. Km		1,93,000	2,08,000	2,13,000

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Estimated Costing for Pilot (2)



S.No	Component	nt Activity Remarks		M1 Nadir Camera (2D GIS)	M2 Oblique Camera (3D GIS)	M3 Oblique Camera + LiDAR (3D GIS)
7	IEC	Standard Operating Procedure (SOP), Manual Publication & IEC etc.	State Govts and/or SoI	10,000	10,000	10,000
8	Training	T&CB, Travel, Exposure Visits, Conferences etc.	State Govts and/or SoI	4,000	4,000	4,000
9	Documentation	Documentation, Evaluation & Monitoring etc.	State Govts and/or SoI	1,500	1,500	1,500
В	Total (1 to 9) Ra	te Per Sq. Km		2,08,500	2,23,500	2,28,500
С	Cost for 1 City of	35 Sq. Km (40 x A)		72,97,500	78,22,500	79,97,500
D		es of 35 Sq. Km (40, 40 and 20 Citie	s by M1, M2 and M3)	29,19,00,000		



Estimated Costing for Pilot (3)

S. No	Component	Activity	Remarks	M1 Nadir Camera (2D GIS)	M2 Oblique Camera (3D GIS)	M3 Oblique Camera + LiDAR (3D GIS)
10		A) Rovers, Controllers, Hand Held Devices and Tablets etc.	1000 Rovers @ Rs. 6,00,000 each		60,00,00,000	
10 Survey Equipments		B) Continuously Operating Reference Stations (CORS)	10 CORS station setup @ Rs 25,00,000 each			
F	Total Cost of Survey Eq	uipments (One Time Cost)			62,50,00,000	
		State Level Development of WebGIS Portal & Dashboard, Integration of Record of Rights (RoRs); Cadastral Maps; ORIs; Property Taxes	For Small States - Rs 1,00,00,000 per State x 10 States		10,00,00,000	
11	Software Development	database; Development Authority Layout plans; Ground Truthing Database, Hosting, Maintenance, Updation and Integration of Data on Web, APIs and Software Development (One time cost)	For Large States - Rs 2,00,00,000 per State x 10 States		20,00,00,000	
G					30,00,00,000	

Estimated Costing for Pilot (4)



S. No	Component	Activity	R	emarks	M1 Nadir Camera (2D GIS)	M2 Oblique Camera (3D GIS)	M3 Oblique Camera + LiDAR (3D GIS)
12	National Level IEC, T	raining, Documentation	80 Lakh + 80 Lakh + 40 Lak	ch		2,00,00,00	00
13	Manpower & NPMU National Programme Establishment Management Unit		months	00 per month i.e. 13,40,000 x 12 Rs. 15,00,000 (One Time Cost)		1,60,80,00 15,00,000	
			Total			1,75,80,00	
	Manpower & SPMU Establishment	A) State Programme Management Unit (SPMU) (For 10 Large State)	8 Manpower @Rs. 9,65,000 ; 1,15,80,000 x 10 States	per month i.e. 9,65,000 x 12 = Rs. 8,00,000 x 10 States (One	í	11,58,00,0 80,00,00	00
					-	12,38,00,0	00
14		Management Unit	72,00,000 x 10 States	per month i.e. 6,00,000 x 12 =		7,20,00,00	00
		(SPMU) (For 10 Small State)	Office Establishment cost @ Time Cost)	Rs. 5,00,000 x 10 States (One		50,00,00	0
			Total		7,70,00,000		
		C) SPMU Total (20 States			,	20,08,00,0	00
Н	Total Manpower (13+	-14C)				21,83,80,0	00
15	Others	Miscellaneous / Incidental Charges				1,00,00,00	00
Total	Pilot Phase Cos	st (100 Cities in 20	States/UTs)	1,93,81	,30,000		

BUDGET ANNOUNCEMENTS 2024-25



PARA 98

Land-related reforms and actions, both in rural and urban areas, will cover (1) land administration, planning and management, and (2) urban planning, usage and building bylaws. These will be incentivized for completion within the next 3 years through appropriate fiscal support.

PARA 99

Rural Land related actions

Rural land related actions will include

- (1) assignment of Unique Land Parcel Identification Number (ULPIN) or Bhu-Aadhaar for all lands,
- (2) digitization of cadastral maps,
- (3) survey of map sub-divisions as per current ownership,
- (4) establishment of land registry, and
- (5) linking to the farmers registry.

These actions will also facilitate credit flow and other agricultural services.



Modernization & Digitization of Land Records: RURAL

(Budget speech Para 98 & 99)

Scheme for Special Assistance to States for Capital Investment 2024-25 (Dept of Exp MoF 9th Aug 2024, PART-VII A)

Allotment - Rs. 5,000 Cr.



Objectives & Milestones.



Land
Records
Modernizatio

Accuracy, Uptodate,

•Seamless Integration.

•Empowering farmers.

•Foster Rural Development.

IndependentMilestones &EvaluationApproach.

Milestones



1. Sub-Division & Survey-Re-Survey

2. ULPIN & Geo-Referencing

3. Lana-Registry & Cross-Integration

4. Saturation of Land Records

5. Modernization of RCCMS

Categorization of States

Category	List of States
A (11 States)	Andhra Pradesh, Bihar , Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal
B (7 States)	Assam, Chhattisgarh, Haryana, Jharkhand , Kerala, Punjab, Telangana
C (10 States)	Arunachal Pradesh, Goa, Himachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura, Uttarakhand



i Sub-division of all Land Parcels as per Current Ownership.

ii Re-Survey & Upgradation of RoRs & Cadastral Maps.

iii Survey of Non-Cadastral Areas.

- Proportional (Sub-div and Survey-Resurvey)
- 100% for Non-cadastral areas
- Updated RoR and Cadastral Maps
- Backlog mutations and Sub-Division
- Percentage of village/Tehsil/District



Category	Admissible Incentive
A	1000 Cr.
В	600 Cr.
С	200 Cr.



2. ULPIN & Geo-Referencing of Land Parcels

i Geo-Referencing of all Cadastral Maps.

ii ULPIN (Bhu-Aadhar) of all Land Parcels

- Unique Identifier: Georef for precise identification & location
- Inter-operability between various GIS systems
- 100% Georeferencing (Graded)
- 100% ULPIN generation (Graded)

Category	Admissible Incentive
Α	100 Cr.
В	60 Cr.
С	30 Cr.



3. Land Registry & Integration with Other Systems.

i Registry Process Completely Online & Paperless.

ii Integration of Registration System with Land Records.

iii All Legacy Registries Online & Searchable by citizens.

- i & ii 100% completion
- iii Proportional to completion (Graded)

Incentive Structure

3. i & ii

Category	Admissible Incentive
Α	200 Cr.
В	150 Cr.
С	100 Cr.

3. iii

Category	Admissible Incentive
Α	100 Cr.
В	75 Cr.
С	50 Cr.

4. Saturation of Land Records



ii Integration of all RoRs with Cadastral Maps: Unified Land Information System.

iii Availability of RoRs Online: searchable, digitally signed & legally valid download.

iv Consent based Aadhar Seeding and authentication in the RoRs.

- i & ii Proportional to balance to be completed
- iii 100 % completion
- iv Proportional to the total RoR



Category	Admissible Incentive
Α	100 Cr.
В	75 Cr.
С	50 Cr. (100 Cr for NE)



5. Modernization of Revenue Court Case Management System.

i Completely Online & Paperless.

ii Integration with land Records & Registration systems.

• 100% completion

Incentive

Category	Admissible Incentive
Α	150 Cr.
В	100 Cr.
С	75 Cr.

Guidelines 1



Subdivision of
states into
3
categories
based on
multiple
parameter

Graded incentives w.r.t. extent of progress made for completion of targets in milestones.

States can claim for individual milestones, focusing on specific needs & capabilities.

DoLR will be the nodal for reporting & issuing guidelines.

DoLR will be verifying accuracy of ground progress before reco to DoE

31.1.2*0*2 5.

Guidelines 2



· Empower States to complete all the Objectives of NLRMP & DILRMP in a time bound manner.

·First-comefirst-served basis.

·Full incentive amount if they achieve 100 percent of the targets in various milestones.

·States can use the incentive amount for infrastructur e projects in any sector.

The final approved amount will be released by the Gol in a single

installment.

Progress so far....

Letters/Meetings:

- 22.08.24: DO letter from Secretary DoLR to all Chief Secretaries
- 23.08.24: Online meeting with all Secretaries/Directors
- 29.08.24: Meeting of DoE with ACS/Principal Secretary Finance of all States/UTs

Regional Workshops:

- 21.08.24:
 Mumbai
- 31.08.24:
 Lucknow
- 06.09.24:
 Bengaluru
- 13.09.24: Chandigarh

REQUIREMENT

- > Coordination LR-UD
- > List of cities/ULBs
- > 3 methodologies
- > Sol MoU
- > Ground truthing
- Manpower SPMUEquipment



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Thank You