



UNION TERRITORY OF JAMMU AND KASHMIR

## DIVISIONAL COMMISSIONER, KASHMIR

Amar Niwas Complex, Tankipora, Srinagar.

Phone/ Fax: (0194) -2487777, 2477775, 2452558, 2455357

Website: www.kashmirdivision.nic.in

**Director,  
Land Records Kashmir  
Srinagar.**

No: Div.Com/LRS/ mise/2020/ 703-705 Dated: 03-11-2020  
Subject : Implementation of Unique Land Parcel Identification Number  
(ULPIN) for land parcels in the State/UTs.

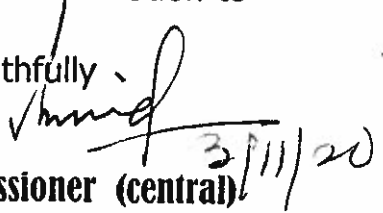
Sir,

Enclosed, kindly find herewith copy of communication  
No: FC / CEO / ULPIN / DILRMP / 111 / 706-09 dated: 29-07-2020  
alongwith copies of its enclosures received from the Financial  
Commissioner, (Revenue), J&K Govt. Srinagar regarding the  
subject cited above.

In this connection, I am directed to request you to  
kindly look into the matter and furnish your valuable suggestions /  
inputs for implementation of ULPIN in the UT of J&K directly to the  
Financial Commissioner, Revenue, J&K Govt under an intimation to  
this office.

Yours faithfully,

Encl:A/A

  
Assistant Commissioner (central)  
KASHMIR  
3/11/20

Copy to the:

1. Financial Commissioner, Revenue, J&K Govt. Srinagar for  
favour of information. This has reference to his letter No.  
quoted above.
2. District Informatic Officer, Srinagar / Budgam / Baramulla /  
Bandipora / Pulwama / Shopian / Kupwara / Kulgam/  
Ganderbal / Anantnag for information with the request for  
uploading the same on official website.

Government of Jammu & Kashmir  
Office of the Financial Commissioner (Revenue) J&K  
J&K- Rail Head Complex Jammu, 180001 [Nov-April] / Amar Niwas, Tankipora Srinagar, 190001 [May-Oct]  
Phone No. [Srinagar] 0194-2459372-Fax-0191-2473838 [Jammu] -0191-2470212 Fax-01942471221  
E-mail address- jaklarma.rev@gmail.com

Divisional Commissioner,  
Jammu/Kashmir.

NO:- FC/CEO/ULPIN/DILRMP/111/706-09 Dated:- 29.07.2020  
Subject:- Implementation of Unique Land Parcel Identification Number  
(ULPIN) for land parcels in the State/UTs.

Sir,

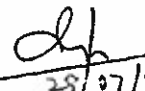
I am directed to enclose herewith a copy of DO Letter No. 28012/2016-LRD (Pt) (e-9552) dated 24.04.2020 received from Department of Land, Ministry of Rural Development, Govt. of India regarding the subject cited above. The Unique Land Parcel Identification Number (ULPIN) shall provides flow of information on any parcel of land or property to provide integrated Land Services to the citizens as well as all State holders.

The Govt. of India has advised to identify the districts for pilot projects in the State/UTs in consultation with NIC and subsequently rollout the ULPIN. The NIC team of DoLR shall provide all technical support for the purpose. Besides, it has also been requested for suggestions/inputs, if any, for implementation of ULPIN in the State/UTs.

It is, therefore, requested to kindly furnish your valuable suggestion/inputs for implementation of ULPIN in the UT of J&K to this office at the earliest.

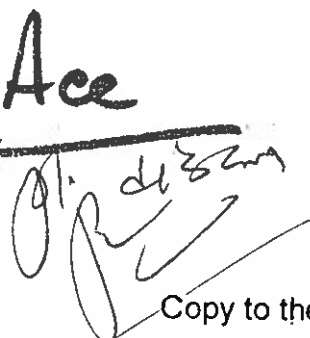
**Matter Most urgent.**

Yours faithfully

  
29/07/2020  
[Rishpal Singh], KAS  
Additional Commissioner (Central)  
With Financial Commissioner Revenue  
J&K, Jammu

Copy to the:-

1. Principal Secretary to Govt. Revenue Department, J&K, Jammu.
2. PPS to Chief Secretary for kind information of the Worthy CS, J&K.

Ace  
  
LRS  
write to  
Duty head records  
and NIC districts as  
well. 29/12

हुकुम सिंह मीना, मा.प्र.से.  
HUKUM SINGH MEENA, IAS  
संयुक्त सचिव  
JOINT SECRETARY



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

D.O No. 28012/10/2016 – LRD (Pt.) (e-9552)

Dated 24<sup>th</sup> April 2020

Dear Sir,

Please refer to the minutes of meeting dated 9th July, 2019 chaired by Principal Secretary to Prime Minister on 'Conclusive Land titling', received from Prime Minister's Office vide PMO ID No. 490/31/C/12/2017-E&S-2 dated 01.08.2019 wherein it was, *inter alia*, directed that land data needs to be upgraded with the facilities of geo tagging on one hand and *regular seeding* on the other hand so as to make it a completely identifiable electronic data base towards this end a sub committee of Core Technical Advisory Group (CTAG) has been constituted under Digital India Land Records Modernization Programme (DILRMP) to consider issues related to generation of Unique Land Parcel Identification Number (ULPIN) for land parcels in the country.

2. The Committee in consultation with Department of Science and Technology, National Remote Sensing Center, Survey of India, Ministry of MeITY including NIC deliberated on the subject and prepared a concept paper on unique ID as attached herewith. The salient features *inter alia* include:

- (i) assigning Parcel ID to every plot to identify it uniquely and unambiguously
- (ii) Data analytics will be easier and comply international standards
- (iii) Compatible with the data protocol of other departments and easy to provide link
- (iv) Standard Electronic Commerce Code Management Association (ECCMA)
- (v) United Nations sponsored membership-based standards organization
- (vi) Provides an open, transparent and efficient process for the development, maintenance and distribution of electronic commerce codes over the internet.

3. It is endeavor of the Sub Committee, CTAG that the methodology should be international standard compliance like Electronic Commerce Code Management Association (ECCMA), OGC etc and relevant to the Indian conditions. The basic principle of "General Boundary Geo-coordinate" has been adopted. The methodology uses the protocol and process flow developed by NIC and vetted by the senior officials of the Department of Science and Technology.

Contd...

Consultant  
JALARMA

एन.बी.ओ. बिल्डिंग, निर्माण भवन, नई दिल्ली-110108 फोन: 23063462 फॅक्स: 23062351  
N.B.O. Building, Nirman Bhawan, New Delhi-110108 Ph.: 23063462 Fax: 23062351

9/5/2020

:2:

4. Department of Land Resources (DoLR) in collaboration with NIC may take pilot project in the States/UTs that are at advanced stage of digitization of land records (cadastral maps) with Geo-referenced coordinates in consultation with them to generate Unique ID. After successful implementation of pilot, State/UTs, as per their preparedness, may approach NIC team /other agencies to roll out the system in their respective States/UTs.

5. For implementation of ULPIN, administrative and financial support shall be extended by DoLR according to guidelines of DILRMP and technical support for roll out the system will be provided by NIC, Survey of India, Department of Science and Technology and National Remote Sensing Center.


6. The concept paper on ULPIN depicts the process flow to develop ULPIN for both the conditions where Geo-referenced maps are available and not available. Unique Land Parcel Identification Number (ULPIN) shall be a Single, Authoritative Source of Truth of information on any parcel of land or property to provide Integrated Land Services to the citizens as well as all stake holders. Ideally, ULPIN solution is prescribed where GEO-reference data is available.

7. I would therefore request you to identify the districts for pilot projects in your State/UT in consultation with State NIC and subsequently rolling out the ULPIN across the State /UT. NIC team attached to DoLR has been advised to get in touch with the States / UTs for providing technical support.

8. Suggestions / inputs, if any, for implementation of ULPIN may kindly be sent to this Department for further improving the concept paper / guideline.

With Regards,

Yours sincerely,

  
(Hukum Singh Meena)  
24/4/2020

To,

The Principal Secretary/Secretary(Revenue) of all States / UTs

Copy:

1. Inspectors General of Registration (IGRs) of all States / UTs
2. DDG (NIC), DoLR with the request to do capacity building of NIC State Units specially where GEO-reference data of parcel is available & direct NIC State Units to carry out the work in consultation with State Government & submit action plan accordingly.
3. Sr. TD (NIC), DoLR

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## UNIQUE LAND PARCEL IDENTIFICATION NUMBER (ULPIN)

### A CONCEPT PAPER

#### 1. VISION

The Unique Land Parcel Identification Number (ULPIN) shall be a **Single, Authoritative Source of Truth** of information on any parcel of land or property to provide **Integrated Land Services** to the citizens as well as all stake holders.

#### 2. MISSION

- (i) Identify departments which provide land related services
- (ii) Identify services of these land departments
- (iii) Assign a unique Id to each parcel
- (iv) Set up a federated Land information system which works in collaborative manner

#### 3. OBJECTIVES

The finer goals and objectives of the proposed system would be:

- (i) To identify departments dealing with land that are regulating and rendering Land related services to the citizens  
(Ex: Revenue, Municipal, Panchayat, Forest, Registration, Survey etc)
- (ii) To identify the services of such departments, including that are multi-departmental in nature  
(Ex: Mutation of Land, Land use conversion from Agricultural to Non-Agricultural, etc)
- (iii) To Work out a strategy and develop a system to assign Unique ID for each Land parcel by the respective States/UTs
- (iv) To create online Land Information System with open standards APIs (Application Programming Interface) that is based on GIS and OGC compliant so that other stakeholders could use them online to generate further value.
- (v) To provide comprehensive information on land and properties, consisting of textual and spatial data
- (vi) To maintain the **consistency of core data** across all departments and agencies of the Government countrywide

#### 4. APPROACH/ METHODOLOGY

States/UTs as the ownership of the land records data is vested in the respective Revenue Departments of the States/UTs Administration.

[ **Property Natural Identifier Lot (PNIL#)**: The modern survey equipment and technologies has made the geospatial representation of boundaries and features commonplace in everything from websites to mobile devices. It is technically feasible to translate the coordinates of a polygon representing a property boundary into a string in such a way that the string can be resolved back to the polygon within the Earth coordinate system

**Property Natural Identifier Unit (PNIU#)** is a globally unique identifier. It is created through the application of a reversible algorithm to the position and elevation of the midpoint of the plane representing the primary point of entry to a legally delineated unit space within a building. It is natural as it can be derived from the characteristics of the property, without relying on a third party such as a central property registry, to mint and manage IDs. ]

(b) Where presently Land Parcels do not have Geo Referenced Coordinates:

(i) There are many States which have assigned Unique IDs to Land Parcels that are composite in nature and dependent on Administrative Unit codes such as District code, Tehsil Code, Village code etc.

1. Such codes face issues e.g. in case of reorganization of boundaries that is quite a common practice now though it can be managed from the IT angle

(ii) State of Andhra Pradesh adapted a strategy and assigned random code to each land parcel with first two digits for State code

1. This would remain unaffected during delimitation of boundaries of Administrative units

2. Would change only when mutation happens

(iii) State of Uttar Pradesh adapted another strategy and assigned 16 digit unique code for each land parcel as

1. First 6 digits is revenue, village code, 7<sup>th</sup> digit to 10<sup>th</sup> digit is Bhukand Ghata code(Plot No.), 11<sup>th</sup> digit to 14<sup>th</sup> digit is subdivision number (bata, ka, kha, gha, min jumla), 15<sup>th</sup> and 16<sup>th</sup> digit for land type.

## 5. VALUE PROPOSITION

- (i) The Single source of truth on Land will stand as authoritative reference to authenticate the ownership and the other land parameters of the record
- (ii) Unique Categorization of Govt Lands would benefit in instant identification and prevention of transfer of such lands to individuals during transactions such as Registration
- (iii) A Unified ID (viz., uniformity in assignment like Aadhaar number) would in future lead to Certificate-less governance
- (iv) Standardization at Data and Application level would bring in effective integration and interoperability across Departments and other Stakeholders/ Service Providers
- (v) Assigning Unique ID to each Land Parcel in State, irrespective of the Department dealing with land, would help Unified system to track the Land, its reconciliation etc and to bring higher values to all stakeholders

#### **6. CASE STUDIES**

NIC has taken up case studies in:

- (i) Bihar-The geo-referenced cadastral map data of Saidpur revenue village, under Katrisarai revenue circle, in Rajgir subdivision, Nalanda district were taken as a case study to test the concept.
- (ii) Haryana-The Geo-referenced cad astral map data of

#### **7. CONCLUSION**

The Proposed approach/ methodology to build a Unique Land Parcel Identification Number (ULPIN) is expected to provide quality services to users through single portal on one hand and achieve transparency in land transactions. The Architecture shall be generic enough to include more department/agencies as and when they become a stakeholder as per criteria. Department of Land Resources (DoLR) in collaboration with NIC may take pilot project in the States/UTs that are at advanced stage of digitization of land records (cadastral maps) with Geo-referenced coordinates in consultation with them to generate Unique ID. After successful implementation of pilot, State/UTs as per their preparedness may approach NIC team /other agencies to roll out the system in their respective States/UTs.

For implementation of ULPIN, administrative and financial support shall be extended by DoLR according to guidelines of DILRMP and technical support for roll out the system will be facilitated by NIC, Survey of India, Department of Science and

Technology and National Remote sensing center.