**Minutes of the meeting of sub-committee under CTAG of DILRMP to review the issues related to Unique ID for land parcel in the country held on 01/01/2020 under the Chairmanship of Joint Secretary (LR).**

**1.**   As follows action of the discussion held in the meeting of 16/12/2019, a meeting on sub-committee under CTAG of DILRMP to review the issues related to Unique ID for land parcel in the country was held on 01/01/2020 under the Chairmanship of Joint Secretary (LR) to finalize the concept paper of the Unique Land Parcel Identification Number (ULPIN). List of Participants is annexed.

2.         At the outset, Joint Secretary (LR) welcomed the participants of the meeting and thanked representatives from Department of Science and Technology to spare time and participate in the deliberation to finalize the final document.

**3.** With the permission of Chair, NIC team gave a presentation on the proposed methodology for generating Unique ID for land parcel for various types of land parcels based on ECCMA standards. The team also addressed the various points raised in the earlier meeting such as generation of Unique ID for flats, floors and apartments. For the property which is contiguous such as penthouse, floor, car parking, servant quarters, the team suggested to have a parent child relationship in the Unique ID so that it can be addressed. The generation of random numbers could be attempted at the State level since land records is maintained by the respective revenue department of the States/UTs. There is a formula to generate ECCMA standard Unique 16 digit Unique ID (PNIU) using the parcel Geo Referenced coordinates. This computationally generated Unique ID, would be organically dependent on Parcel boundary lat/Long coordinates(PNIL) and Unique ID(PNIU) would spatially be pointing to surface of the parcel.

**4.         Deliberations:**

**4.1.** Joint Secretary (LR) gave background of the whole exercise and stated that  a sub committee of Core Technical Advisory Group (CTAG) consisting of Joint Secretary (LR), A representative of Ministry of Science & Technology,  representative of NIC,  representative of ISRO,  representative of Survey of India, Deputy Secretary (IFD) and Director (LR) has been constituted under Digital India Land Records Modernization Programme (DILRMP) to consider issues related to creation of Unique lD for Land Parcel in the country. Committee deliberated the subjects in its meetings held on 21st August 2019, 14th October 2019, 16th December 2019, and  this meeting on 1st  January 2020 wherein detailed discussion were held between the members. The technical inputs from Department of Science and Technology, National Remote Sensing Center, Survey of India, Ministry of MeITY including NIC were taken into consideration for preparing of unique ID.

**4.2.** States like Assam Bihar UP and AP were consulted in developing the ULPIN. A higher level discussion between Secretary, DoLR and Secretary MeITY was also held to consider the technical inputs from MeITY. The views and concerns expressed by the Secretary, MeITY were also incorporated.

**4.3.** 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 methodology uses the protocol and process flow developed by NIC and vetted by the senior officials of the Department of Science and Technology.

**4.4.** A concept paper has also been prepared also attached as Annexure-A that depicts the process flow to develop ULPIN for both the conditions where Geo-referenced maps are available and not available.

**4.5.** Strategy for assigning Unique ID for each Land Parcel can be worked out based on the following situations:

(a)    Where Land   has Geo Referenced Lat/Long Coordinates:-

(i)    There is a formula to generate and assign Electronic Commerce Code Management Association (ECCMA) Standard prescribed Unique 14 digit Unique ID " Property Natural Identifier Unit "  (PNIU) using the parcel Geo Referenced coordinate of vertices.

(ii) This computationally generated Unique ID would be organically dependent on   Parcel vertices expressed in Lat/Long coordinates "property Natural Identifier Lot" (PNIL)# and Unique ID (PNIU)## would spatially be pointing to the surface  of the parcel.

(iii)  A new Unique ID would be generated by the System itself as and when mutation takes place as Lat/Long of Mutated Parcel would be different.

(iv)  This Unique ID of Parcel, being very precise & accurate, should not be  shared in Public domain due to their strategic and accurate  location-al & security values and hence may be mapped with another Unique random number with prefix state code, which can be shared with Owner and in public domain for all practical purposes.

However, sharing of the Unique ID with the land owners or keeping it in public domain before mapping  it to  another Unique random number with prefix State code is  in the purview of the respective State Revenue Departments of the 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 Geo-spatial representation of boundaries and features common place 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#):-** It 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 usually face issues of reorganization of boundaries that is generally a common practice now though it can be managed from the application of  IT.

(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, 7th digit to 10th digit is Bhukand Ghata code (Plot No.), 11th digit to 14th digit is subdivision number (bata, ka, kha, gha, min jumla), 15 th and 16 th digit for land type.

**5.  Conclusion:**

This is a general way of generating Unique Land Parcel Identification Number (ULPIN) for a land parcel which is both International standard compliance and useful for providing effective service delivery to the citizen and easy to share land records data among different sectors. It can financially be rolled out, providing financial assistance from existing available fund under DILRMP.

.A concept paper and power point presentation is enclosed as Annexure-A & Annexure-B for consideration and further order. It would be relevant  to mention that, if agreed, we may issue an advisory to states/UTs for implementation.

            JS (LR) while concluding the meeting stated that concept paper on ULPIN along with Power Point Presentation will be taken up with Hon’ble Minister for his kind consideration and approval and thereafter be shared/circulated to the States / UTs for its implementation.

The meeting ended with vote of thanks to the Chair.

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**Annexure**

**List of Participants is annexed:**

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| **S. No.** | **Name & Designation** |
|  | **Department of Land Resources** |
| 1. | Sh.Hukum Singh Meena, IAS, JS(LR)-Chairman |
| 2. | Sh. P.C. Prasad, Deputy Secretary(LR) |
|  | **NIC-LRISD** |
| 3. | Sh.Deepak Chandra Mishra, DDG&HOG |
| 4. | Sh.Rajiv Goel, STD&HOD |
| 5. | Sh. D.S. Venkatesh, STD |
| 6. | Smt.Kanika Bansal, STA-B |
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|  |  |
|  | **Department of Science and Technology (DST)** |
| 7. | Shri P.S.Acharya, Head and CEO, NSDI division |
| 8. | Shri R.N. Nanda, Consultant |
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