esri India

2023

India Admin Boundary & Demographics

Esri India

Business Analyst Pro & Web App

February 15, 2023

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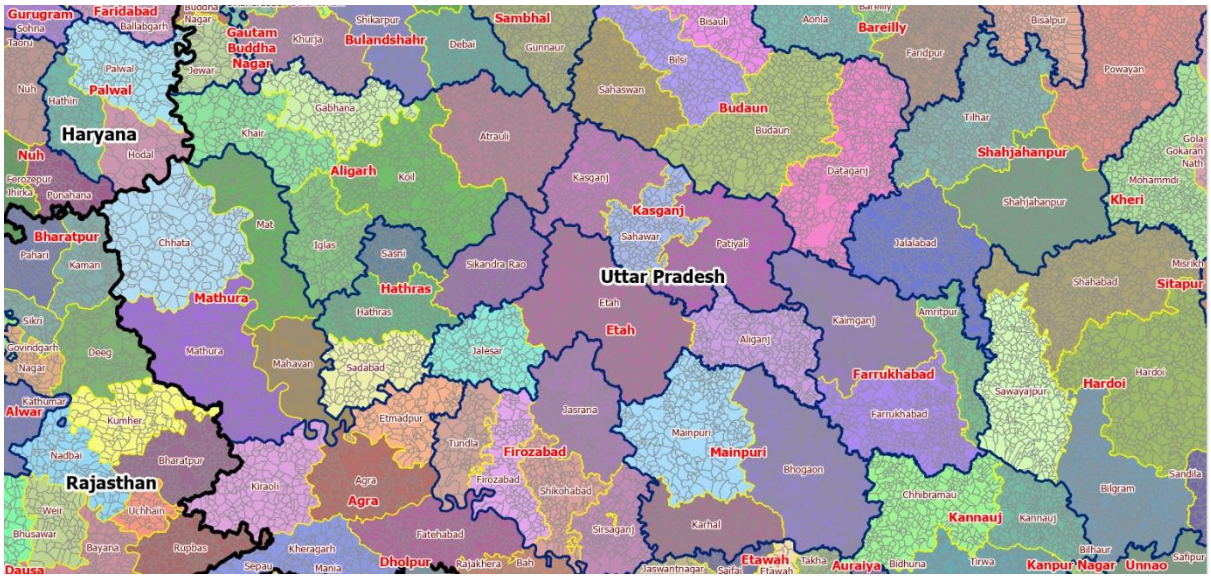
Document Name	Author	Date and Version
India Admin Boundary & Demographics	Esri India Technologies Pvt Ltd	2023-02-15 v1

1. Product Details

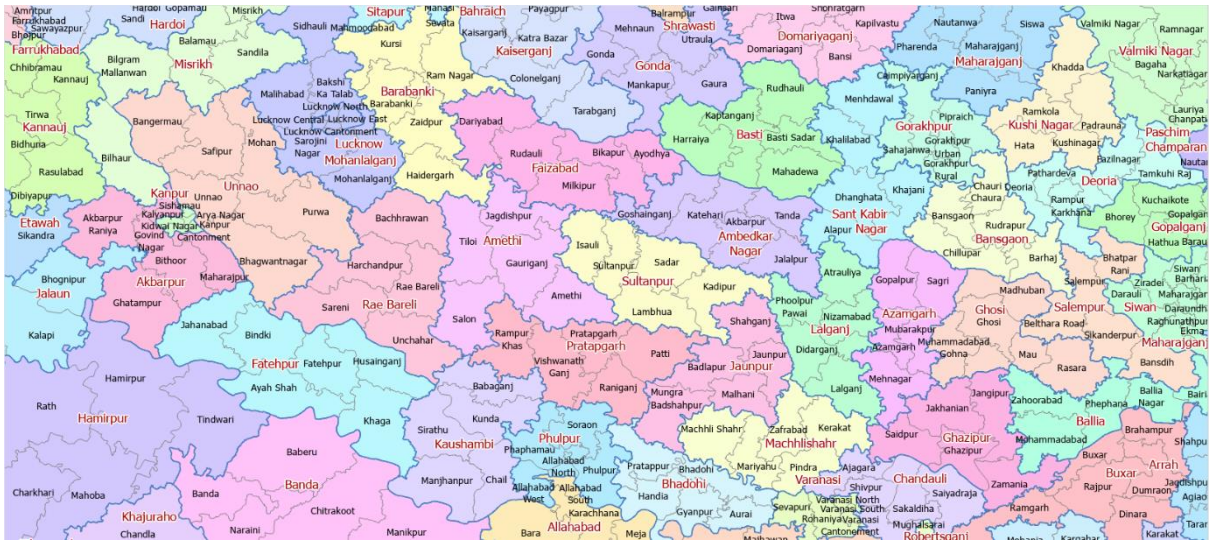
This product includes pan India admin boundaries with more than 300 data variables pertaining to population, age, gender, caste, employment, and assets & amenities.

Administrative levels are-

- Country
- States/UTs
- Districts
- Subdistricts
- Villages & Towns



Pincode and Election boundaries are also available with the product.

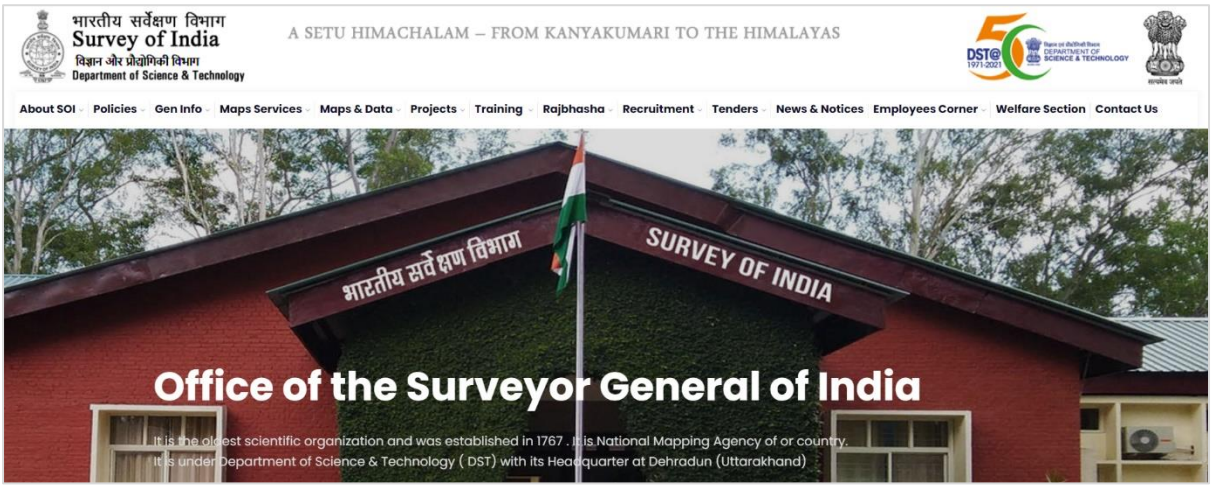


2. Source

For the development, only authoritative sources have been taken into consideration. Esri India has put additional effort to incorporate recent boundary modifications announced by government of India. The accreditation is given to the sources. The product adheres the guidelines of National Geospatial Policy 2021 that allows the use of government authoritative datasets to create better maps and solutions. The sources which have been referenced are as follows-

1.) Survey of India (SoI)

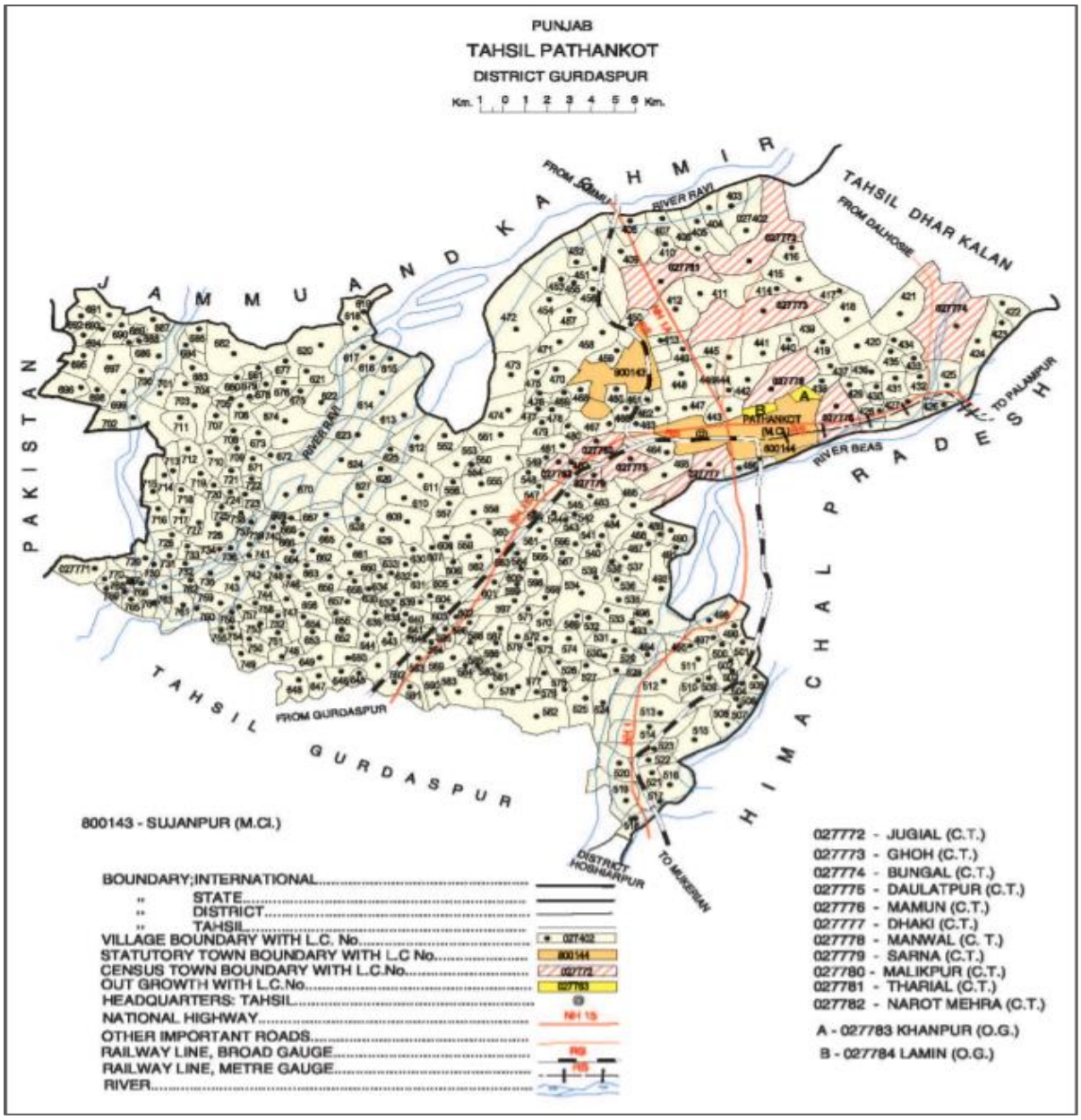
Spatial boundaries for Country, States and Districts.



2.) Census of India

Population Census Abstract, PDF maps for village, town, and subdistrict boundaries. PCA data is available upto village level and Projected Population report is available at state level.

State	District	Subdistt	Town/Village	Ward	EB	Level	Name	TRU	No_HH	TOT_P	TOT_M	TOT_F	P_06	M_06	F_06	P_SC	M_SC	F_SC
03	035	00000	000000	0000	000000	DISTRICT	Gurdaspur	Total	443666	2298323	1212617	1085706	253579	139261	114318	580576	304894	275682
03	035	00000	000000	0000	000000	DISTRICT	Gurdaspur	Rural	312300	1639004	855784	783220	188167	103316	84851	435930	228541	207389
03	035	00000	000000	0000	000000	DISTRICT	Gurdaspur	Urban	131366	659319	356833	302486	65412	35945	29467	144646	76353	68293
03	035	00200	000000	0000	000000	SUB-DISTRICT	Dhar Kalan	Total	10825	54186	28235	25951	6387	3462	2925	11965	6188	5777
03	035	00200	000000	0000	000000	SUB-DISTRICT	Dhar Kalan	Rural	9774	48780	25414	23366	5795	3137	2658	10792	5578	5214
03	035	00200	000000	0000	000000	SUB-DISTRICT	Dhar Kalan	Urban	1051	5406	2821	2585	592	325	267	1173	610	563
03	035	00200	027374	0000	000000	VILLAGE	Darbahn (406)	Rural	103	527	282	245	75	44	31	127	63	64
03	035	00200	027375	0000	000000	VILLAGE	Darkua Bangla (405)	Rural	80	422	222	200	57	29	28	180	98	82
03	035	00200	027376	0000	000000	VILLAGE	Sarti(404)	Rural	769	3960	2023	1937	498	234	264	1239	618	621
03	035	00200	027377	0000	000000	VILLAGE	Dukhan Iyali (407)	Rural	126	664	332	332	100	58	42	145	76	69
03	035	00200	027378	0000	000000	VILLAGE	Ghar (408)	Rural	179	852	437	415	104	51	53	321	163	158
03	035	00200	027379	0000	000000	VILLAGE	Barsudhal (409)	Rural	167	780	377	403	84	42	42	127	63	64



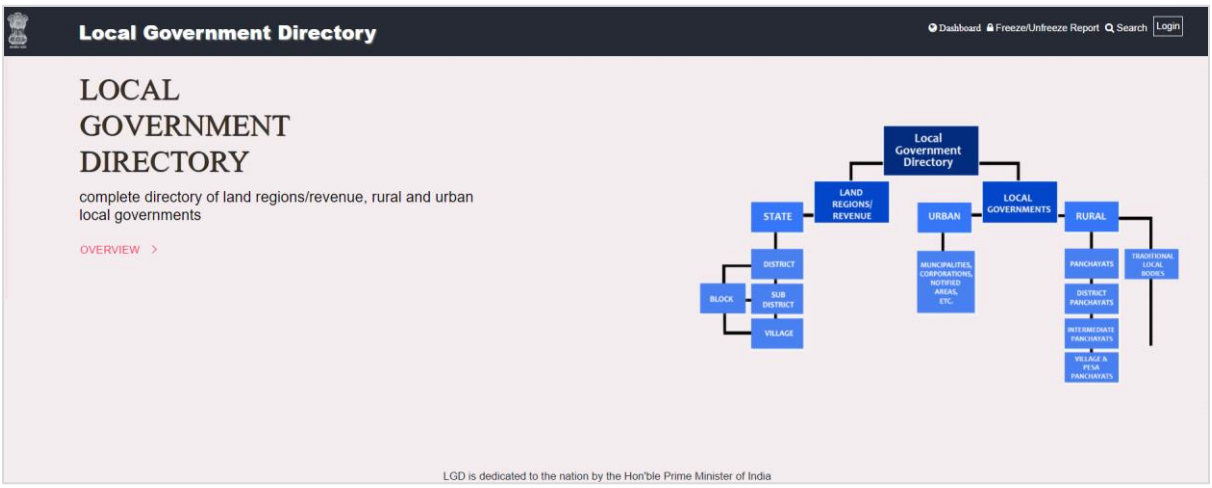
Census 2011 PDF Map

3.) Local Government Directory (LGD)

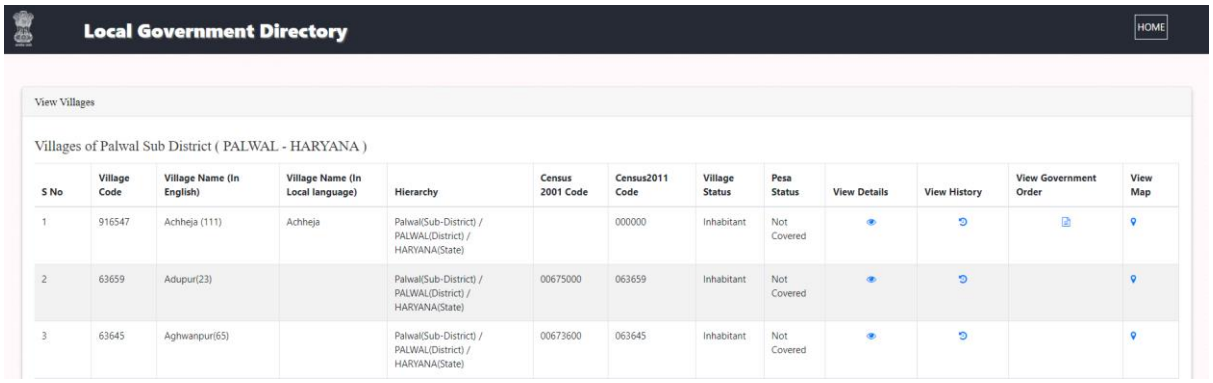
Primary objective of Local Government directory is to facilitate State Departments to update the directory with newly formed panchayats/local bodies, re-organization in panchayats, conversion from Rural to Urban area etc. and provide the same info in public domain. Key Features of Local Government Directory:

- Generation of unique code for each local government body - each local government body is assigned with a unique code.
- Maintenance of local government bodies and its mapping with constituting land region entities. For ex. gram panchayat mapping with villages.
- Mandatory upload of Govt. order for each modification in the directory - to ascertain the users that the data published in LGD is authentic.

- Maintenance of historical data - when modifications take place in LGD, the old values/data is archived.
- Provision to maintain state specific local government setup. Compliance with Census 2011 codes.
- Facility to integrate with state specific standard codes - if any state is following standard codes for state level software applications, the same code can be linked to LGD code.



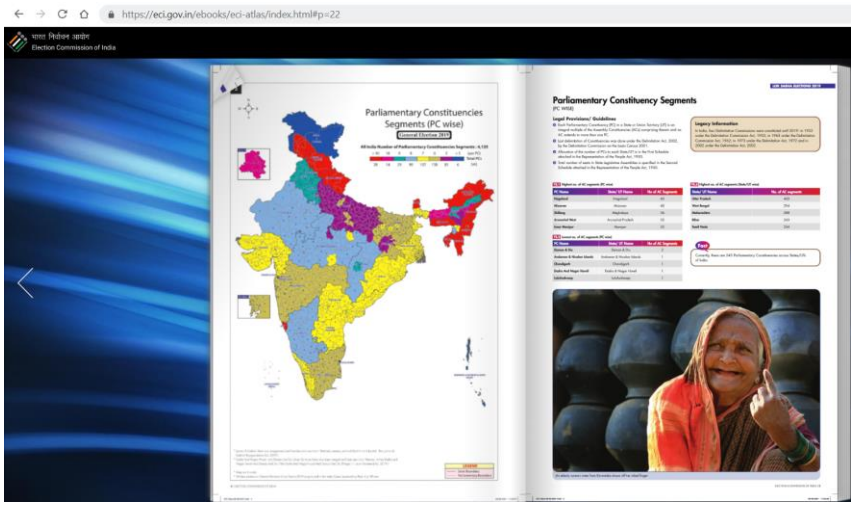
Village maps with Census 2001 and Census 2011 codes-



S No	Village Code	Village Name (In English)	Village Name (In Local language)	Hierarchy	Census 2001 Code	Census2011 Code	Village Status	Pesa Status	View Details	View History	View Government Order	View Map
1	916547	Achheja (111)	Achheja	Palwal(Sub-District) / PALWAL(District) / HARYANA(State)		000000	Inhabitant	Not Covered				
2	63659	Adupur(23)		Palwal(Sub-District) / PALWAL(District) / HARYANA(State)	00675000	063659	Inhabitant	Not Covered				
3	63645	Aghwanpur(65)		Palwal(Sub-District) / PALWAL(District) / HARYANA(State)	00673600	063645	Inhabitant	Not Covered				

4.) Election Commission of India (ECI)

Parliamentary and Assembly boundaries.



5.) [Geospatial Data Policy] as a reference document

3.11 Liberalization

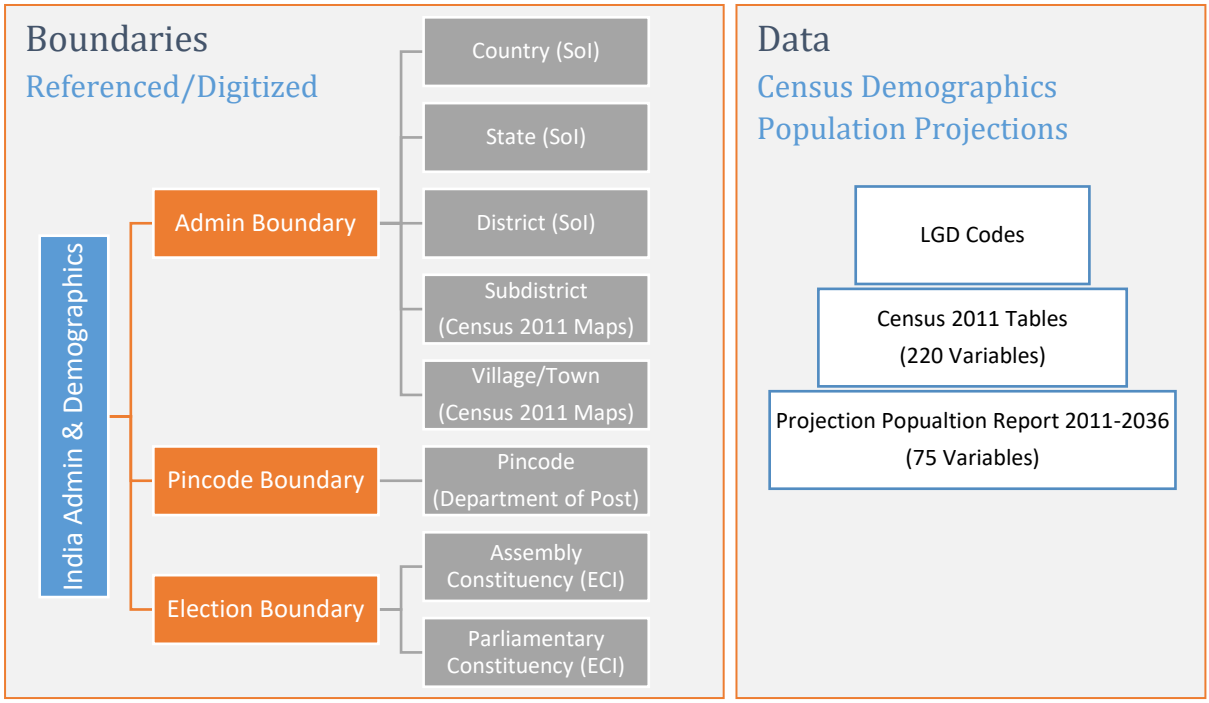
3.11.1 There will be no requirement for prior approval, security clearance, license or any other restrictions on the collection, generation, preparation, dissemination, storage, publication, updating and/or digitization of Geospatial Data and Maps within the territory of India, within the thresh-holds that will be defined by Implementation Guidelines from time to time.

3.12 Democratization of Data: All Geospatial Data produced using public funds, except the classified geospatial data collected by security/law enforcement agencies, shall be made easily accessible for scientific, economic and developmental purposes to all Indian Entities and without any restrictions on their use. Such access shall be given free of any charges to Government agencies and at fair and transparent pricing to others. For attributes in the negative lists, appropriate regulations will be laid down separately. The Government of India shall encourage crowd sourcing efforts to build Maps by allocating public funds towards these efforts as appropriate. The Survey of India (SoI) topographic data would be treated as common good and be made easily available.

3. Development Approach

The product is a compiled result of data gathered from multiple inputs. The spatial boundaries for Country, States and Districts have been referred from Survey of India (SoI), which is the only authoritative agency in India for admin boundaries. The subdistricts and village/town boundaries have been digitized from Census provided maps, state authority maps and various governmental portals. The administrative codes have been populated from LGD (Local Government Directory) that provides up-to-date list of revenue entities (districts/subdistricts/villages) and Local Government Bodies (Panchayats, Municipalities, and traditional bodies).

The Census PCA 2011 data tables have been mapped with spatial boundaries. All the unique keys and census codes have been maintained in the product for reference. Census has provided village points for which area could not be drawn on small scale maps. For such village points, Thiessen polygons have been generated.



Boundary and Data Source

Election Commission of India provided maps have been referred for Parliamentary and assembly boundaries.

Population Projection 2011-2036

Census of India has published the Population Projections from 2011 to 2036. This report has gender-wise population projections for Urban and Rural Area. A factor (yearly growth) has been calculated by taking projected population and the base year population (2011). Subsequently, the factor is calculated for each year using the projected values provided by census of India.

Projected Population by Sex as on 1st March - 2011 - 2036: India, States and Union Territories* ('000)									
Year	GUJARAT			GUJARAT URBAN			GUJARAT RURAL		
	Persons	Male	Female	Person	Male	Female	Person	Male	Female
2011	60,440 (A)	31,491	28,948	25,745	13,694	12,051	34,695	17,797	16,897
2012	61,383 (B)	32,007	29,376	26,472	14,081	12,391	34,911	17,926	16,985
Factor has been applied below State level- Projected Population by Sex as on 1st March - 2011 - 2036: India, States and Union Territories* ('000)									
Year	GUJARAT			GUJARAT URBAN			GUJARAT RURAL		
	Persons	Male	Female	Person	Male	Female	Person	Male	Female
2012	1.01560225 (B/A)	1.016385634	1.014785132	1.028238493	1.028260552	1.028213426	1.006225681	1.007248413	1.005208025

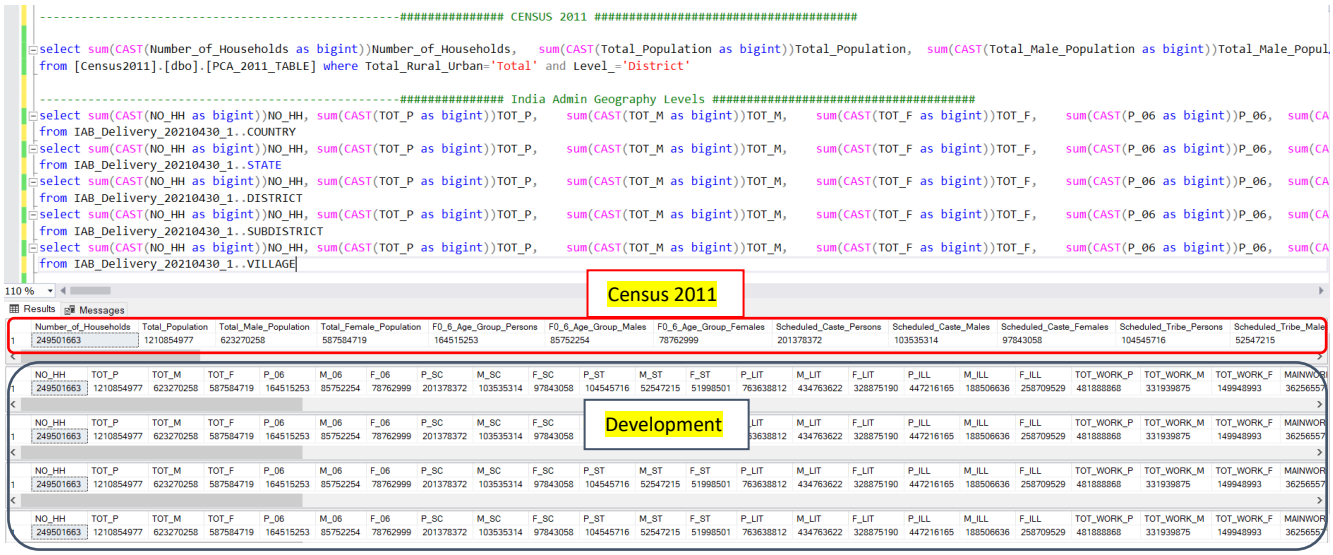
State Level Projection Calculation as per the Census of India published report-

The Cohort Component Method is the universally accepted method of making population projections because of the fact that the growth of population is determined by fertility, mortality, and migration rates. In this exercise, 20 States and two UTs have been applied the Cohort Component method. These are Andhra Pradesh, Assam, Bihar, Gujarat, Haryana, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Telangana, Uttar Pradesh, West Bengal, Jharkhand, Chhattisgarh, Uttarakhand, Jammu & Kashmir (UT) and NCT of Delhi. Based on the residual of the projected population of Jammu & Kashmir (State) and Jammu & Kashmir (UT), for which Cohort Component method has applied, projection of the Ladakh UT have been made. For the projections of Jammu & Kashmir (UT), SRS fertility and mortality estimate of Jammu & Kashmir (State) are used. The projection of the seven northeastern states (excluding Assam) has also been carried out as a whole using the Cohort Component Method. Separate projections for Andhra Pradesh and Telangana were done using the re-casted populations of these states. For the projections, for the years before 2014, combined SRS estimates of Andhra Pradesh and year 2014 onwards, separate SRS estimates of fertility and mortality of Andhra Pradesh and Telangana are used. For the remaining States and Union territories, Mathematical Method has been applied. The sources of data used are 2011 Census and Sample Registration System (SRS). SRS provides time series data of fertility and mortality, which has been used for predicting their future levels.

4. Quality Assurance

The thresholds of the data acceptance are-

1. 100% match of Census PCA values to the geometry
2. 100% match of PCA values at all geography levels (Example: Summarized population of all the villages in a subdistrict should match with Subdistrict population)
3. 90% accuracy of georeferenced maps. Reference is taken from Survey of India boundaries for georeferencing. Hilly areas might have less than 90% accuracy due to undulating terrain and lack of ground control points.



Data level checks have been performed to ensure overall quality of India Admin data.

1. Value match with Census 2011 tables
2. Geographical Area vs. Population (Outlier check)
3. Missing Census 2011 codes
4. Census code vs Population
5. Thematic Checks and Geometric Validation
6. Village fall within the respective subdistrict, district & state
7. Check for typos, suspicious characters, extra spaces in the TEXT columns
8. Check for unique ID

5. Data Layers

1. Country- 1
2. States/UTs- 36
3. Districts- 765
4. Subdistricts- 6,958
5. Villages & Towns- 653,958
6. Pincode- 19,597
7. Assembly Constituency- 4,131
8. Parliamentary Constituency- 544

Data Model		
Village		**Subdistrict**
Subdistrict Code (LGD)	⟷	Subdistrict Code (LGD)
Subdistrict		**District**
District Code (LGD)	⟷	District Code (LGD)
District		**State**
State Code (LGD)	⟷	State Code (LGD)
State		**Country**
Country	⟷	Country

6. Demographic Variables

SN	Variable Name	Category	Long Description
1	NO_HH_2011	Households	Total Number of Households
2	TOT_P_2011	Population Totals	Total Population (Total population includes those living in households)
3	TOT_M_2011	Population Totals	Male Population
4	TOT_F_2011	Population Totals	Female Population
5	P_06_2011	Population Totals	Total Population Below 6 Years
6	M_06_2011	Population Totals	Male Population Below 6 Years
7	F_06_2011	Population Totals	Female Population Below 6 Years
8	P_SC_2011	Population Totals	Total Scheduled Caste Population
9	M_SC_2011	Population Totals	Male Scheduled Caste Population
10	F_SC_2011	Population Totals	Female Scheduled Caste Population
11	P_ST_2011	Population Totals	Total Scheduled Tribe Population
12	M_ST_2011	Population Totals	Male Scheduled Tribe Population
13	F_ST_2011	Population Totals	Female Scheduled Tribe Population
14	P_LIT_2011	Education Totals	Total Literates
15	M_LIT_2011	Education Totals	Male Literates
16	F_LIT_2011	Education Totals	Female Literates
17	P_ILL_2011	Education Totals	Total Illiterates
18	M_ILL_2011	Education Totals	Male Illiterates
19	F_ILL_2011	Education Totals	Female Illiterates
20	TOT_WORK_P_2011	Employment Totals	Total Worker
21	TOT_WORK_M_2011	Employment Totals	Male Worker
22	TOT_WORK_F_2011	Employment Totals	Female Worker
23	MAINWORK_P_2011	Employment by Industry	Total Main Workers
24	MAINWORK_M_2011	Employment by Industry	Male Main Workers
25	MAINWORK_F_2011	Employment by Industry	Female Main Workers
26	MAIN_CL_P_2011	Employment by Industry	Total Main Workers as Cultivators
27	MAIN_CL_M_2011	Employment by Industry	Male Main Workers as Cultivators
28	MAIN_CL_F_2011	Employment by Industry	Female Main Workers as Cultivators
29	MAIN_AL_P_2011	Employment by Industry	Total Main Workers as Agricultural Labourers
30	MAIN_AL_M_2011	Employment by Industry	Male Main Workers as Agricultural Labourers
31	MAIN_AL_F_2011	Employment by Industry	Female Main Workers as Agricultural Labourers
32	MAIN_HH_P_2011	Employment by Industry	Total Main Workers in Household Industry Workers
33	MAIN_HH_M_2011	Employment by Industry	Male Main Workers in Household Industry Workers
34	MAIN_HH_F_2011	Employment by Industry	Female Main Workers in Household Industry Workers

35	MAIN_OT_P_2011	Employment by Industry	Total Main Workers as Other Workers
36	MAIN_OT_M_2011	Employment by Industry	Male Main Workers as Other Workers
37	MAIN_OT_F_2011	Employment by Industry	Female Main Workers as Other Workers
38	MARGWORK_P_2011	Employment by Industry	Total Marginal Workers
39	MARGWORK_M_2011	Employment by Industry	Male Marginal Workers
40	MARGWORK_F_2011	Employment by Industry	Female Marginal Workers
41	MARG_CL_P_2011	Employment by Industry	Total Marginal Workers as Cultivators
42	MARG_CL_M_2011	Employment by Industry	Male Marginal Workers as Cultivators
43	MARG_CL_F_2011	Employment by Industry	Female Marginal Workers as Cultivators
44	MARG_AL_P_2011	Employment by Industry	Total Marginal Workers as Agricultural Labourers
45	MARG_AL_M_2011	Employment by Industry	Male Marginal Workers as Agricultural Labourers
46	MARG_AL_F_2011	Employment by Industry	Female Marginal Workers as Agricultural Labourers
47	MARG_HH_P_2011	Employment by Industry	Total Marginal Workers in Household Industry Workers
48	MARG_HH_M_2011	Employment by Industry	Male Marginal Workers as Household Industry Workers
49	MARG_HH_F_2011	Employment by Industry	Female Marginal Workers as Household Industry Workers
50	MARG_OT_P_2011	Employment by Industry	Total Marginal Workers as Other Workers
51	MARG_OT_M_2011	Employment by Industry	Male Marginal Workers as Other Workers
52	MARG_OT_F_2011	Employment by Industry	Female Marginal Workers as Other Workers
53	MARGWORK_3_6_P_2011	Employment by Industry	Marginal Workers - worked for 3 months or more but less than 6 months
54	MARGWORK_3_6_M_2011	Employment by Industry	Male Marginal Workers - worked for 3 months or more but less than 6 months
55	MARGWORK_3_6_F_2011	Employment by Industry	Female Marginal Workers - worked for 3 months or more but less than 6 months
56	MARG_CL_3_6_P_2011	Employment by Industry	Marginal Cultivators - worked for 3 months or more but less than 6 months
57	MARG_CL_3_6_M_2011	Employment by Industry	Male Marginal Cultivators - worked for 3 months or more but less than 6 months
58	MARG_CL_3_6_F_2011	Employment by Industry	Female Marginal Cultivators - worked for 3 months or more but less than 6 months
59	MARG_AL_3_6_P_2011	Employment by Industry	Marginal Agricultural Labourers - worked for 3 to 6 months
60	MARG_AL_3_6_M_2011	Employment by Industry	Male Marginal Agricultural Labourers - worked for 3 to 6 months
61	MARG_AL_3_6_F_2011	Employment by Industry	Female Marginal Agricultural Labourers - worked for 3 to 6 months
62	MARG_HH_3_6_P_2011	Employment by Industry	Marginal Workers in Household Industry Workers - worked for 3 to 6 months
63	MARG_HH_3_6_M_2011	Employment by Industry	Male Marginal Workers in Household Industry Workers - worked for 3 to 6 months
64	MARG_HH_3_6_F_2011	Employment by Industry	Female Marginal Workers in Household Industry Workers - worked for 3 to 6 months

65	MARG_OT_3_6_P_2011	Employment by Industry	Marginal Other Workers - worked for 3 months or more but less than 6 months
66	MARG_OT_3_6_M_2011	Employment by Industry	Male Marginal Other Workers - worked for 3 months or more but less than 6 months
67	MARG_OT_3_6_F_2011	Employment by Industry	Female Marginal Other Workers - worked for 3 to 6 months
68	MARGWORK_0_3_P_2011	Employment by Industry	Marginal Workers - worked for 3 months or less but not more than 3 months
69	MARGWORK_0_3_M_2011	Employment by Industry	Male Marginal Workers - worked for 3 months or less but not more than 3 months
70	MARGWORK_0_3_F_2011	Employment by Industry	Female Marginal Workers - worked for 3 months or less but not more than 3 months
71	MARG_CL_0_3_P_2011	Employment by Industry	Marginal Cultivators - worked for 3 months or less but not more than 3 months
72	MARG_CL_0_3_M_2011	Employment by Industry	Male Marginal Cultivators - worked for 3 months or less but not more than 3 months
73	MARG_CL_0_3_F_2011	Employment by Industry	Female Marginal Cultivators - worked for less than 3 months
74	MARG_AL_0_3_P_2011	Employment by Industry	Marginal Agricultural Labourers - worked for less than 3 months
75	MARG_AL_0_3_M_2011	Employment by Industry	Male Marginal Agricultural Labourers - worked for less than 3 months
76	MARG_AL_0_3_F_2011	Employment by Industry	Female Marginal Agricultural Labourers - worked for less than 3 months
77	MARG_HH_0_3_P_2011	Employment by Industry	Marginal Workers in Household Industry Workers - worked for less than 3 months
78	MARG_HH_0_3_M_2011	Employment by Industry	Male Marginal Workers in Household Industry Workers - worked for less than 3 mo
79	MARG_HH_0_3_F_2011	Employment by Industry	Female Marginal Workers in Household Industry Worker - worked for less than 3 mo
80	MARG_OT_0_3_P_2011	Employment by Industry	Marginal Other Workers - worked for 3 months or less but not more than 3 months
81	MARG_OT_0_3_M_2011	Employment by Industry	Male Marginal Other Workers - worked for less than 3 months
82	MARG_OT_0_3_F_2011	Employment by Industry	Female Marginal Other Workers - worked for less than 3 months
83	NON_WORK_P_2011	Unemployment Totals	Total Non-Workers
84	NON_WORK_M_2011	Unemployment Totals	Male Non-Workers
85	NON_WORK_F_2011	Unemployment Totals	Female Non-Workers
86	HC_TOT_TOT_2011	Income Housing Characteristics	Households with condition of Census House as total houses
87	HC_TOT_GOD_2011	Income Housing Characteristics	Households with condition of Census House as good houses
88	HC_TOT_LIV_2011	Income Housing Characteristics	Households with condition of Census House as livable houses
89	HC_TOT_DIL_2011	Income Housing Characteristics	Households with condition of Census House as dilapidated houses
90	HC_RES_TOT_2011	Income Housing Characteristics	Households with condition of Census House as residence total houses
91	HC_RES_GOD_2011	Income Housing Characteristics	Households with condition of Census House as residence good houses
92	HC_RES_LIV_2011	Income Housing Characteristics	Households with condition of Census House as residence livable houses
93	HC_RES_DIL_2011	Income Housing Characteristics	Households with condition of Census House as residence dilapidated
94	HC_OTH_TOT_2011	Income Housing Characteristics	Households with condition of Census House as other total houses

95	HC_OTH_GOD_2011	Income Housing Characteristics	Households with condition of Census House as other good houses
96	HC_OTH_LIV_2011	Income Housing Characteristics	Households with condition of Census House as other livable houses
97	HC_OTH_DIL_2011	Income Housing Characteristics	Households with condition of Census House as other dilapidated houses
98	MT_GRSBAM_2011	Income Housing Characteristics	Households with material of roof as grass/thatch/bamboo
99	MT_PLASTIC_2011	Income Housing Characteristics	Households with material of roof as plastic/polythene
100	MT_H_TILES_2011	Income Housing Characteristics	Households with material of roof as hand made tiles
101	MT_M_TILES_2011	Income Housing Characteristics	Households with material of roof as machine made tiles
102	MT_B_BRICK_2011	Income Housing Characteristics	Households with material of roof as burnt brick
103	MT_STONE_2011	Income Housing Characteristics	Households with material of roof as stone/slate
104	MT_ASBSTOS_2011	Income Housing Characteristics	Households with material of roof as gi/metal/asbestos sheets
105	MT_CONCRTE_2011	Income Housing Characteristics	Households with material of roof concrete
106	MT_OTH_2011	Income Housing Characteristics	Households with material of roof any other material
107	MW_GRSBAM_2011	Income Housing Characteristics	Households with material of wall as grass/thatch/bamboo/wood/mud
108	MW_PLASTIC_2011	Income Housing Characteristics	Households with material of wall as plastic/polythene
109	MW_MUD_2011	Income Housing Characteristics	Households with material of wall as mud/unburnt brick
110	MW_WOOD_2011	Income Housing Characteristics	Households with material of wall as wood/bamboo
111	MW_NO_MRTR_2011	Income Housing Characteristics	Households with material of wall as stone not packed with mortar
112	MW_ST_MRTR_2011	Income Housing Characteristics	Households with material of wall as stone packed with mortar
113	MW_ASBSTOS_2011	Income Housing Characteristics	Households with material of wall as gi/metal/asbestos sheets
114	MW_B_BRICK_2011	Income Housing Characteristics	Households with material of wall as burnt brick
115	MW_CONCRTE_2011	Income Housing Characteristics	Households with material of wall as concrete
116	MW_OTH_2011	Income Housing Characteristics	Households with material of wall as any other material
117	MF_MUD_2011	Income Housing Characteristics	Households with material of floor as mud
118	MF_WOOD_2011	Income Housing Characteristics	Households with material of floor as wood/bamboo
119	MF_B_BRICK_2011	Income Housing Characteristics	Households with material of floor as burnt brick
120	MF_STONE_2011	Income Housing Characteristics	Households with material of floor as stone
121	MF_CEMENT_2011	Income Housing Characteristics	Households with material of floor as cement
122	MF_FL_TILE_2011	Income Housing Characteristics	Households with material of floor as mosaic/floor tiles
123	MF_OTH_2011	Income Housing Characteristics	Households with material of floor as any other material
124	DW_N_EXRM_2011	Households	Households with number of dwelling rooms as no exclusive room
125	DW_1_ROOM_2011	Households	Households with number of dwelling rooms as one room

126	DW_2_ROOM_2011	Households	Households with number of dwelling rooms as two rooms
127	DW_3_ROOM_2011	Households	Households with number of dwelling rooms as three rooms
128	DW_4_ROOM_2011	Households	Households with number of dwelling rooms as four rooms
129	DW_5_ROOM_2011	Households	Households with number of dwelling rooms as five rooms
130	DW_6_ROOM_2011	Households	Households with number of dwelling rooms as six rooms and above
131	HHSIZE_1_2011	Housing By Size	Households with household size as one person
132	HHSIZE_2_2011	Housing By Size	Households with household size as two persons
133	HHSIZE_3_2011	Housing By Size	Households with household size as three persons
134	HHSIZE_4_2011	Housing By Size	Households with household size as four persons
135	HHSIZE_5_2011	Housing By Size	Households with household size as five persons
136	HHSIZE_6_8_2011	Housing By Size	Households with household size as six to eight persons
137	HHSIZE_9P_2011	Housing By Size	Households with household size as nine persons and above
138	OW_OWNED_2011	Housing	Households with ownership status as owned house
139	OW_RENTED_2011	Housing	Households with ownership status as rented house
140	OW_OTH_2011	Housing	Households with ownership status as any other house
141	MC_NONE_2011	Household Marital Status	Households with number of married couple as none
142	MCOUPLE_1_2011	Household Marital Status	Households with number of married couple as one
143	MCOUPLE_2_2011	Household Marital Status	Households with number of married couple as two
144	MCOUPLE_3_2011	Household Marital Status	Households with number of married couple as three
145	MCOUPLE_4_2011	Household Marital Status	Households with number of married couple as four
146	MCOUPLE_5P_2011	Household Marital Status	Households with number of married couple as five and above
147	DW_T_TS_2011	Households Water Source	Households with main source of drinking water as tap water from treated source
148	DW_T_UNTS_2011	Households Water Source	Households with main source of drinking water as tap water from untreated source
149	DW_C_WELL_2011	Households Water Source	Households with main source of drinking water as covered well
150	DW_UNC_WEL_2011	Households Water Source	Households with main source of drinking water as uncovered well
151	DW_HPUMP_2011	Households Water Source	Households with main source of drinking water as hand pump
152	DW_TW_BORE_2011	Households Water Source	Households with main source of drinking water as tube well/borehole
153	DW_SPRING_2011	Households Water Source	Households with main source of drinking water as spring
154	DW_RIVCAN_2011	Households Water Source	Households with main source of drinking water as river/canal
155	DW_TANK_2011	Households Water Source	Households with main source of drinking water as tank/pond
156	DW_OTH_2011	Households Water Source	Households with main source of drinking water as other sources
157	LOC_DW_WP_2011	Households Water Source	Households With Location of Drinking Water Source Within Premises
158	LOC_DW_NP_2011	Households Water Source	Households with location of drinking water source near premises
159	LOC_DW_AW_2011	Households Water Source	Households with location of drinking water source away from house
160	LIGHT_ELEC_2011	Household Energy Sources	Households with main source of lighting as electricity

161	LIGHT_KERO_2011	Household Energy Sources	Households with main source of lighting as kerosene
162	LIGHT_SOLR_2011	Household Energy Sources	Households with main source of lighting as solar energy
163	LIGHT_OIL_2011	Household Energy Sources	Households with main source of lighting as other oil
164	LIGHT_OTH_2011	Household Energy Sources	Households with main source of lighting as any other source
165	LIGHT_NO_2011	Household Energy Sources	Households with main source of lighting as no lighting
166	HH_LATRINE_2011	Households Bathroom Facility	Households having latrine facility within the premises
167	FL_SEWER_2011	Households Bathroom Facility	Households having flush/pour flush latrine connected to piped sewer
168	FL_SEPTICT_2011	Households Bathroom Facility	Households having flush/pour flush latrine connected to septic tank
169	FL_OTHSYS_2011	Households Bathroom Facility	Households having flush/pour flush latrine connected to other system
170	PL_WSLAB_2011	Households Bathroom Facility	Households having pit latrine with slab ventilated improved pit
171	PL_WITHOUT_2011	Households Bathroom Facility	Households having pit latrine without slab/open pit
172	NS_OPEN_2011	Households Bathroom Facility	Households having night soil disposed into open drain
173	SL_NS_HUM_2011	Households Bathroom Facility	Households having service latrine where night soil removed by human
174	SL_NS_ANML_2011	Households Bathroom Facility	Households having service latrine where night soil serviced by animal
175	HH_NO_LAT_2011	Households Bathroom Facility	Households not having latrine facility within the premises
176	AS_PUB_2011	Households Bathroom Facility	Households not having latrine facility but using public latrine
177	AS_OPEN_2011	Households Bathroom Facility	Households not having latrine facility but using open areas
178	HH_BATHRM_2011	Households Bathroom Facility	Households having bathing facility within the premises
179	HH_EN_WRF_2011	Households Bathroom Facility	Households having bathing facility within the premise as bath wo roof
180	HH_NO_BTRM_2011	Households Bathroom Facility	Households not having bathing facility
181	WWOC_DRAIN_2011	Household Sewage services	Households with waste water outlet connected to closed drainage
182	WWOC_OPEN_2011	Household Sewage services	Households with waste water outlet connected to open drainage
183	WWOC_NODRN_2011	Household Sewage services	Households with waste water without any drainage system
184	COOK_FIRE_2011	Household Energy Sources	Households with type of fuel used for cooking as fire-wood
185	COOK_RESDU_2011	Household Energy Sources	Households with type of fuel used for cooking as crop residue
186	COOK_CWDNG_2011	Household Energy Sources	Households with type of fuel used for cooking as cowdung cake
187	COOK_COAL_2011	Household Energy Sources	Households with type of fuel used for cooking as coal, lignite
188	COOK_KERO_2011	Household Energy Sources	Households with type of fuel used for cooking as kerosene
189	COOK_LPNG_2011	Household Energy Sources	Households with type of fuel used for cooking as lpg/png
190	COOK_ELEC_2011	Household Energy Sources	Households with type of fuel used for cooking as elecricity

191	COOK_BIOGS_2011	Household Energy Sources	Households with type of fuel used for cooking as biogas
192	COOK_OTH_2011	Household Energy Sources	Households with type of fuel used for cooking as any other fuel
193	COOK_NO_2011	Household Energy Sources	Households with type of fuel used for cooking as no cooking
194	KF_INSIDE_2011	Household Kitchen	Households with kitchen facility do cooking inside house
195	KF_IN_HAS_2011	Household Kitchen	Households with kitchen facility, do cooking inside house has kitchen
196	KF_IN_DOES_2011	Household Kitchen	Households with kitchen facility, do cooking inside house, no kitchen
197	KF_OUTSIDE_2011	Household Kitchen	Households with kitchen facility, do cooking outside house
198	KF_OUT_HAS_2011	Household Kitchen	Households with kitchen facility, do cooking outside, has kitchen
199	KF_OUT_DOS_2011	Household Kitchen	Households with kitchen facility, do cooking outside, no kitchen
200	KF_NO_COOK_2011	Household Kitchen	Households with kitchen facility has no cooking facility
201	HH_BANKING_2011	Households Banking	Households availing banking services
202	HH_RADIO_2011	Household Assets	Households having availability of assets like radio/transistor
203	HH_TVCOMP_2011	Household Assets	Households having availability of assets like tv, computer/laptop
204	HH_CMP_INT_2011	Household Assets	Households having availability of assets like computer with internet
205	HH_CMP_WNT_2011	Household Assets	Households having availability of assets like computer wo internet
206	HH_PH_LL_2011	Household Assets	Households having availability of assets like telephone as landline
207	HH_PH_MOB_2011	Household Assets	Households having availability of assets like telephone as mobile
208	HH_PH_BTH_2011	Household Assets	Households having availability of assets like telephone as both
209	HH_BCYCL_2011	Household Assets	Households having availability of assets like bicycle
210	HH_2WHEEL_2011	Household Assets	Households having availability of assets like scooter/motorcycle
211	HH_4WHEEL_2011	Household Assets	Households having availability of assets like car/jeep/van
212	HH_TV_2011	Household Assets	Households having availability of assets like television
213	HH_NO_AST_2011	Household Assets	Households Not Having Availability of Assets Like TV, Computer
214	HS_PERMA_2011	Housing Units	Households with type of structure of census houses as permanent
215	HS_SPERMA_2011	Housing Units	Households with type of structure of census houses as semi-permanent
216	HS_TEMP_2011	Housing Units	Households with type of structure of census houses as total temporary
217	HS_SERVC_2011	Housing Units	Households with type of structure of census houses as serviceable
218	HS_NSERVC_2011	Housing Units	Households with type of structure of census houses as non-serviceable
219	HS_UNCLSS_2011	Housing Units	Households with type of structure of census houses as unclassifiable
220	AVGHHSZ_CY_2011	Households	Average Household Size
221	TOT_P_2012	Projected Population	Projected Total Population for 2012
222	TOT_M_2012	Projected Population	Projected Male Population for 2012
223	TOT_F_2012	Projected Population	Projected Female Population for 2012
224	TOT_P_2013	Projected Population	Projected Total Population for 2013
225	TOT_M_2013	Projected Population	Projected Male Population for 2013

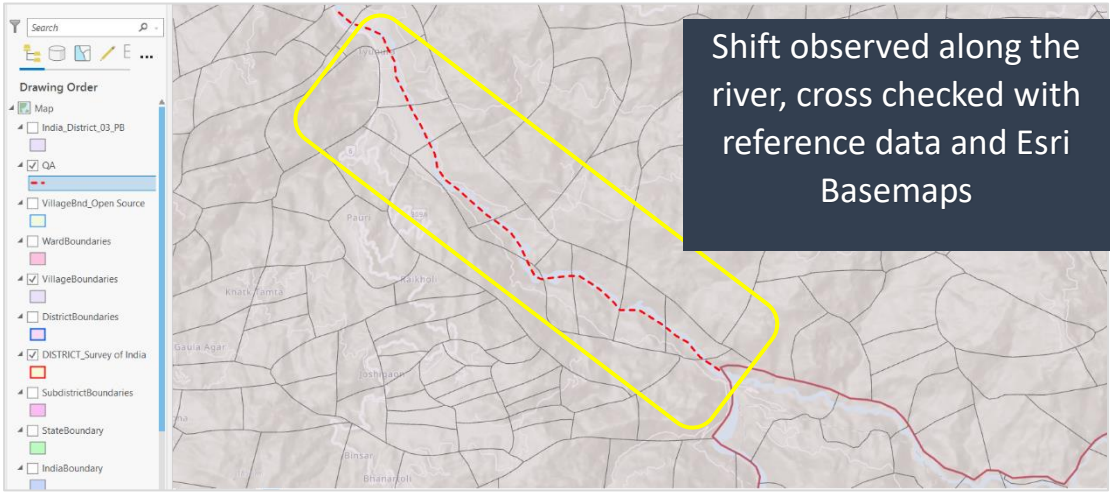
226	TOT_F_2013	Projected Population	Projected Female Population for 2013
227	TOT_P_2014	Projected Population	Projected Total Population for 2014
228	TOT_M_2014	Projected Population	Projected Male Population for 2014
229	TOT_F_2014	Projected Population	Projected Female Population for 2014
230	TOT_P_2015	Projected Population	Projected Total Population for 2015
231	TOT_M_2015	Projected Population	Projected Male Population for 2015
232	TOT_F_2015	Projected Population	Projected Female Population for 2015
233	TOT_P_2016	Projected Population	Projected Total Population for 2016
234	TOT_M_2016	Projected Population	Projected Male Population for 2016
235	TOT_F_2016	Projected Population	Projected Female Population for 2016
236	TOT_P_2017	Projected Population	Projected Total Population for 2017
237	TOT_M_2017	Projected Population	Projected Male Population for 2017
238	TOT_F_2017	Projected Population	Projected Female Population for 2017
239	TOT_P_2018	Projected Population	Projected Total Population for 2018
240	TOT_M_2018	Projected Population	Projected Male Population for 2018
241	TOT_F_2018	Projected Population	Projected Female Population for 2018
242	TOT_P_2019	Projected Population	Projected Total Population for 2019
243	TOT_M_2019	Projected Population	Projected Male Population for 2019
244	TOT_F_2019	Projected Population	Projected Female Population for 2019
245	TOT_P_2020	Projected Population	Projected Total Population for 2020
246	TOT_M_2020	Projected Population	Projected Male Population for 2020
247	TOT_F_2020	Projected Population	Projected Female Population for 2020
248	TOT_P_2021	Projected Population	Projected Total Population for 2021
249	TOT_M_2021	Projected Population	Projected Male Population for 2021
250	TOT_F_2021	Projected Population	Projected Female Population for 2021
251	TOT_P_2022	Projected Population	Projected Total Population for 2022
252	TOT_M_2022	Projected Population	Projected Male Population for 2022
253	TOT_F_2022	Projected Population	Projected Female Population for 2022
254	TOT_P_2023	Projected Population	Projected Total Population for 2023
255	TOT_M_2023	Projected Population	Projected Male Population for 2023

256	TOT_F_2023	Projected Population	Projected Female Population for 2023
257	TOT_P_2024	Projected Population	Projected Total Population for 2024
258	TOT_M_2024	Projected Population	Projected Male Population for 2024
259	TOT_F_2024	Projected Population	Projected Female Population for 2024
260	TOT_P_2025	Projected Population	Projected Total Population for 2025
261	TOT_M_2025	Projected Population	Projected Male Population for 2025
262	TOT_F_2025	Projected Population	Projected Female Population for 2025
263	TOT_P_2026	Projected Population	Projected Total Population for 2026
264	TOT_M_2026	Projected Population	Projected Male Population for 2026
265	TOT_F_2026	Projected Population	Projected Female Population for 2026
266	TOT_P_2027	Projected Population	Projected Total Population for 2027
267	TOT_M_2027	Projected Population	Projected Male Population for 2027
268	TOT_F_2027	Projected Population	Projected Female Population for 2027
269	TOT_P_2028	Projected Population	Projected Total Population for 2028
270	TOT_M_2028	Projected Population	Projected Male Population for 2028
271	TOT_F_2028	Projected Population	Projected Female Population for 2028
272	TOT_P_2029	Projected Population	Projected Total Population for 2029
273	TOT_M_2029	Projected Population	Projected Male Population for 2029
274	TOT_F_2029	Projected Population	Projected Female Population for 2029
275	TOT_P_2030	Projected Population	Projected Total Population for 2030
276	TOT_M_2030	Projected Population	Projected Male Population for 2030
277	TOT_F_2030	Projected Population	Projected Female Population for 2030
278	TOT_P_2031	Projected Population	Projected Total Population for 2031
279	TOT_M_2031	Projected Population	Projected Male Population for 2031
280	TOT_F_2031	Projected Population	Projected Female Population for 2031
281	TOT_P_2032	Projected Population	Projected Total Population for 2032
282	TOT_M_2032	Projected Population	Projected Male Population for 2032
283	TOT_F_2032	Projected Population	Projected Female Population for 2032
284	TOT_P_2033	Projected Population	Projected Total Population for 2033
285	TOT_M_2033	Projected Population	Projected Male Population for 2033

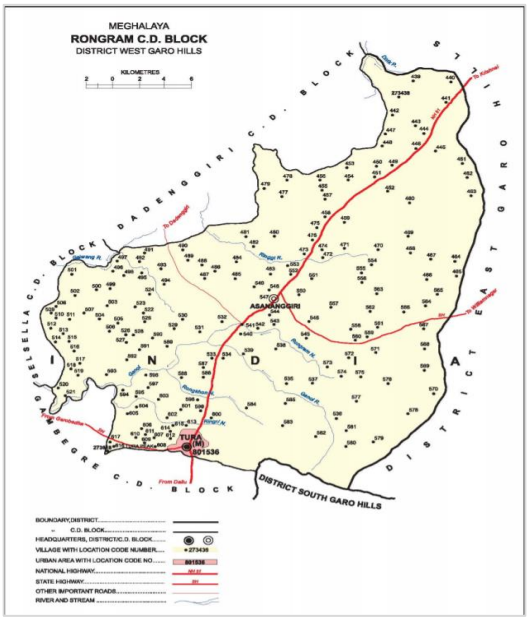
286	TOT_F_2033	Projected Population	Projected Female Population for 2033
287	TOT_P_2034	Projected Population	Projected Total Population for 2034
288	TOT_M_2034	Projected Population	Projected Male Population for 2034
289	TOT_F_2034	Projected Population	Projected Female Population for 2034
290	TOT_P_2035	Projected Population	Projected Total Population for 2035
291	TOT_M_2035	Projected Population	Projected Male Population for 2035
292	TOT_F_2035	Projected Population	Projected Female Population for 2035
293	TOT_P_2036	Projected Population	Projected Total Population for 2036
294	TOT_M_2036	Projected Population	Projected Male Population for 2036
295	TOT_F_2036	Projected Population	Projected Female Population for 2036

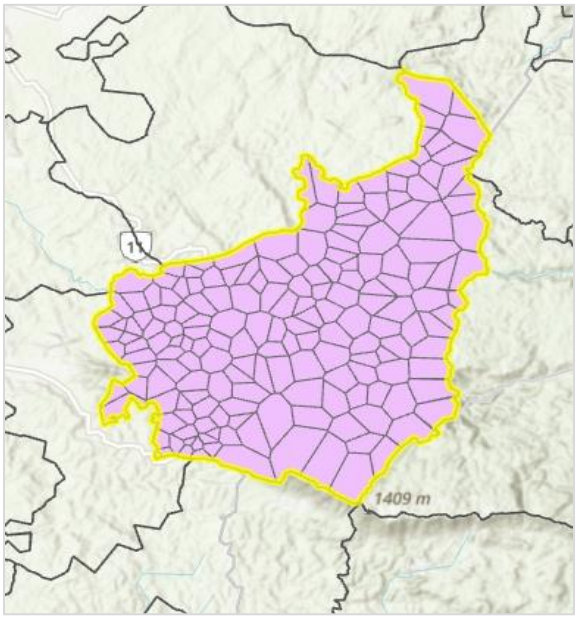
7. Challenges

1. The boundaries may not perfectly align with AGOL imagery. The Census PDF maps are georeferenced using Survey of India boundaries and notice alignment issues with AGOL Imagery/Maps. Scale 1:200K



~33k villages are marked as point location on Census PDFs either because of low scale maps where small villages could not have been drawn or digitization has not been completed. Thiessen polygon have been maintained in the data to delineate the village areas.





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9. Appendix

PCA	Population Census Abstract	
IAB	India Admin Boundary	
SOI	Survey of India	https://surveyofindia.gov.in/
LGD	Local Government Directory	https://lgdirectory.gov.in/#
COI	Census of India	
ECI	Election Commission of India	