



India Admin Boundary & Demographics

Esri India

Business Analyst Pro & Web App

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Table of Contents

1.	Product Details	4
2.	Source	5
3.	Development Approach	9
4.	Quality Assurance	. 11
5.	Data Layers	. 12
6.	Demographic Variables	. 13
7.	Challenges	. 23
8.	Terms of Use	. 24
9.	Appendix	. 25

Document Name	Author	Date and Version
India Admin Boundary & Demographics	Esri India Technologies Pvt Ltd	2023-02-07 v1

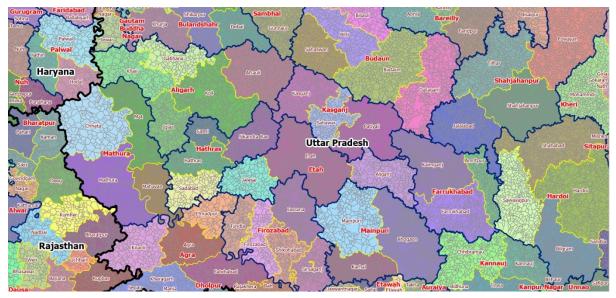


1. Product Details

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 <u>National Geospatial Policy 2021</u> that allows the use of government authoritative datasets to create better maps and solutions. The sources which have been referenced are as follows-

1.) <u>Survey of India (Sol)</u>

Spatial boundaries for Country, States and Districts.

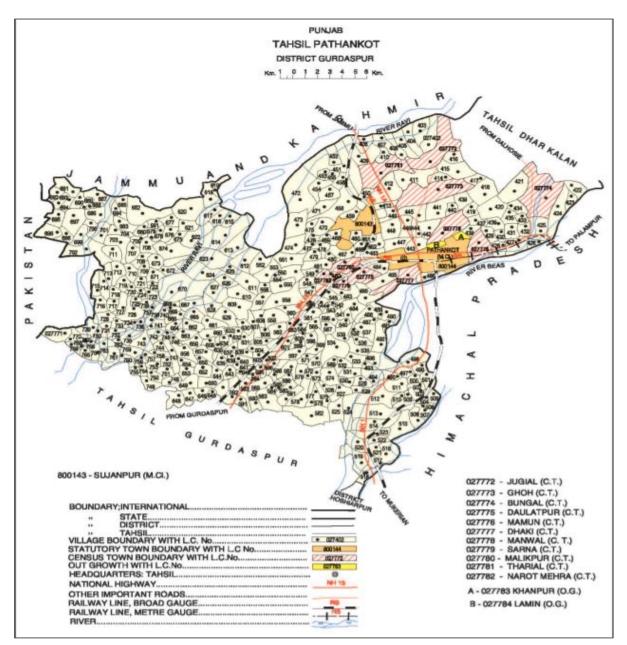


2.) <u>Census of India</u>

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.

		15	Azad Amrit	li _{Ka} Mah		स	off	भारत के महारजिस्टार । गृह मंत्र fice of the Registrar Ge Ministry of Home • DATA & RESOURCE • MEI	ालय, भ eneral 8 Affairs	ारत सर Censu , Gover	कारँ s Comm nment o	issioner, f India	India	CRUSUS O	ER.	G	<mark>72</mark> -आउत 20	23 INDIA	
				Popu	lation Fi	nder		Visualizations		1	E-Learning/1	fraining		Me	dical Certif	lication of 0	Cause of		
					us Table al Library		001 & 1991)	Census Questions (1872-20 Location Code Directories)11)		Linguistic Su Drop-in-Artie	rrvey of India cles		Sar	nple Regis il Registrat				
				Sche Distri		us Handbo	ioks	Instruction Manuals			Population P	rojections			crodata	ion system			
State	District	Subdistt	Town/V	illage	Ward	EB	Level	Name	TRU	No_HH	TOT_P	тот_м	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		VILLAGE	Darkua Bangla (405)	Rural	80	422	222	200	57	29	28	180		82
03	035	00200	027376		0000		VILLAGE	Sarti(404)	Rural	769	3960	2023	1937	498	234	264	1239	618	621
03	035	00200	027377		0000		VILLAGE	Dukhan Iyali (407)	Rural	126	664	332	332	100	58	42	145		69
03	035	00200	027378		0000		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







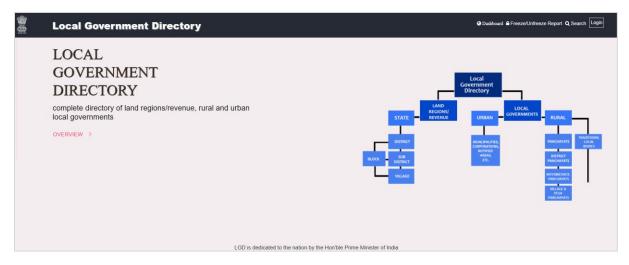
3.) Local Government Directory (LGD)

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.



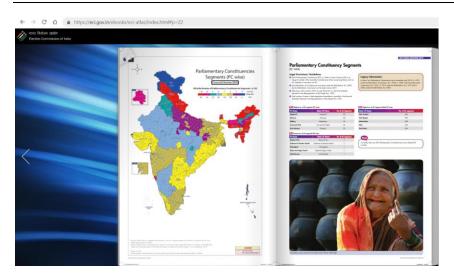
Village maps with Census 2001 and Census 2011 codes-

	Local G	iovernment	Directory									ном
iew Villa	ges											
illages	of Palwal	Sub District (PALW	AL - HARYANA)									
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	•	3		•
2	63659	Adupur(23)		Palwal(Sub-District) / PALWAL(District) / HARYANA(State)	00675000	063659	Inhabitant	Not Covered	•	3		•
3	63645	Aghwanpur(65)		Palwal(Sub-District) / PALWAL(District) / HARYANA(State)	00673600	063645	Inhabitant	Not Covered	٠	9		

4.) Election Commission of India (ECI)

Parliamentary and Assembly boundaries.





5.) Geospatial Data Policy as a reference document

3.11 Liberalization

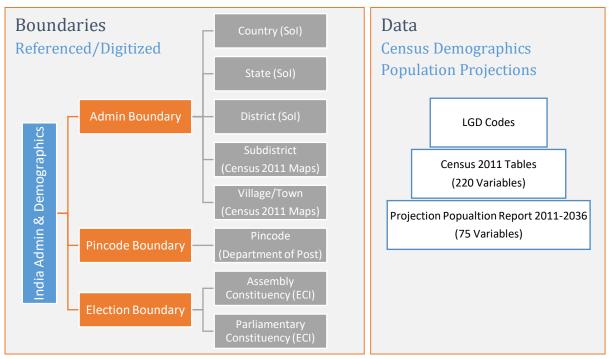
3.11.1 There will be no requirement for prior approval, security clearance, license or any other restrictions on the collection, generation, preparation, dissemination, storage, publication, updating and/or digitization of Geospatial Data and Maps within the territory of India, within the thresh-holds 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 <u>Survey of India (Sol)</u>, 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 (<u>Local Government Directory</u>) that provides up-to-date list of revenue entities (districts/subdistricts/villages) and Local Government Bodies (Panchayats, Municipalities, and traditional bodies).

<u>The Census PCA 2011</u> 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.

Projec	Projected Population by Sex as on 1st March - 2011 - 2036: India, States and Union Territories* ('000)									
Year	GUJARAT			GUJARAT UI	RBAN		GUJARAT RURAL			
real	Persons	Male	Female	Person	Male	Female	Person	Male	Female	
2011	60,440 (<mark>A</mark>)	31,491	28,948	25,745	13,694	12,051	34,695	17,797	16,897	
2012	61,383 (<mark>B</mark>)	32,007	29,376	26,472	14,081	12,391	34,911	17,926	16,985	
	has been app bries* ('000)	lied below Sta	ite level- Proje	ected Populatio	on by Sex as or	1 1st March - 2	2011 - 2036: India, States and Union			
Year	GUJARAT			GUJARAT UF	RBAN		GUJARAT RURAL			
rear	Persons	Male	Female	Person	Male	Female	Person	Male	Female	
2012	1.01560225 (<mark>B/A</mark>)	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.

select sum(CAST	(Number o	f Househ	olds as	higint))Number	of Hous	eholds.	sum(C	ST(Total	Popula	tion as	higint)	Total Pr	onulation	n. sum((AST(Tota	l Male F	Population	as higint)Total Ma	e Po
from [Census201												0/			.,	()			,	,	
					##	******	##### In	dia Adm	in Geogra	aphy Lev	els ####					:##					
select sum(CAST from IAB_Delive				sum(CAS	T(TOT_P	as bigi	nt))TOT_	P, SI	um(CAST(T	TOT_M as	bigint))TOT_M,	sum(0	CAST(TOT_	_F as big	gint))TOT	_F, 9	sum(CAST(P	06 as bigi	int))P_06,	su
select sum(CAST from IAB Delive				sum(CAS	T(TOT_P	as bigi	nt))TOT_	P, si	JM(CAST(T	TOT_M as	bigint))TOT_M,	sum(0	CAST(TOT_	_F as big	gint))TOT	_F, 9	sum(CAST(P_	06 as bigi	int))P_06,	su
select sum(CAST from IAB Delive	(NO_HH as	bigint))NO_HH,	sum(CAS	T(TOT_P	as bigi	nt))TOT_	P, si	um(CAST(T	TOT_M as	bigint))TOT_M,	sum((CAST(TOT	_F as big	gint))TOT	_F, 9	sum(CAST(P	06 as bigi	int))P_06,	sı
select sum(CAST from IAB Delive	(NO_HH as	bigint))NO_HH,		T(TOT_P	as bigi	nt))TOT_	P, SI	um(CAST(T	TOT_M as	bigint))TOT_M,	sum(0	CAST(TOT	_F as big	gint))TOT	_F, 9	sum(CAST(P	06 as bigi	int))P_06,	sı
select sum(CAST					T(TOT P	as bigi	nt))TOT	P, si	um(CAST(T	TOT M as	bigint))TOT M,	sum((CAST(TOT	F as big	gint))TOT	_F, 9	sum(CAST(P_	06 as bigi	int))P_06,	s
from IAB_Delive									Се	- nsus 2	011]									
from IAB_Delive	ry_202104	30_1VI	LLAGE					-		nsus 2											
from IAB_Delive		30_1VI	LLAGE	Total_Fema 587584719	ale_Populatio	m F0_6_Age 1645152	e_Group_Perso	-	lge_Group_Ma		Age_Group_Fe		eduled_Caste 378372		heduled_Cast		eduled_Caste		duled_Tribe_Pers i45716	ons Scheduled 52547215	_Tribe
from IAB_Delive	Total_Population 1210854977	30_1 VI	e_Population 88	Total_Fema 587584719 M_06	ele_Populatio	1645152 P_SC	a_Group_Perso	ons F0_6_/ 85752 F_SC	Age_Group_Ma	ales F0_6_4 787629 M_ST	Age_Group_Fe 999 F_ST	201 P_LIT	378372 M_LIT	F_LIT	93535314 P_ILL	978 M_ILL	843058 F_ILL	104	45716 TOT_WORK_M	52547215 TOT_WORK_F	ма
from IAB_Delive	Total_Population 1210854977	30_1VI	e_Population	Total_Fema 587584719	ale_Populatio	1645152	a_Group_Perso	ons F0_6_/ 85752	lge_Group_Ma 254	ales F0_6_4 78762	Age_Group_Fe	201	378372	10	03535314	978	343058	104	545716	52547215	Tribe MA 36
from IAB_Delive	Total_Population 1210854977 TOT_M 623270258	30_1 VI	e_Population 88	Total_Fema 587584719 M_06 85752254 M_06	F_06 F_06	1645152 P_SC	e_Group_Perso 53 M_SC 103535314 M_SC	F_SC F_SC	P_ST 104545716	Ales F0_6_4 787629 M_ST	Age_Group_Fe 999 F_ST 51998501	201 P_LIT	378372 M_LIT	F_LIT	93535314 P_ILL	978 M_ILL	843058 F_ILL	104	45716 TOT_WORK_M	52547215 TOT_WORK_F	M
from IAB_Delive	Total_Population 1210854977 TOT_M 623270258 TOT_M 623270258	30_1VI	P_06 164515253	Total_Fema 587584719 M_06 85752254 M_06 85752254 M_06	F_06 F_06	1645152 P_SC 201378372 P_SC	e_Group_Perso 53 M_SC 103535314 M_SC	F_SC F_SC 97843058 F_SC F_SC	P_ST 104545716	M_ST 52547215	Age_Group_Fe 999 F_ST 51998501 nent	201 P_LIT 763638812	378372 M_LIT 434763622 M_LIT	10 F_LIT 328875190 F_LIT	P_JLL 447216165	978 M_ILL 188506636 M_ILL	F_ILL 258709529	1045 TOT_WORK_P 481888868 TOT_WORK_P	TOT_WORK_M 331939875 TOT_WORK_M	52547215 TOT_WORK_F 149948993 TOT_WORK_F	М/ Зб

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		Employment by Industry	Total Main Workers
~		Employment by	
24	MAINWORK_M_2011	Industry Employment by	Male Main Workers
25	MAINWORK_F_2011	Industry Employment by	Female Main Workers
26	MAIN_CL_P_2011	Industry	Total Main Workers as Cultivators
27		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
33		Employment by	
36	MAIN_OT_M_2011	Industry	Male Main Workers as Other Workers
		Employment by	
37	MAIN_OT_F_2011	Industry	Female Main Workers as Other Workers
		Employment by	
38	MARGWORK_P_2011	Industry Employment by	Total Marginal Workers
39	MARGWORK_M_2011	Industry	Male Marginal Workers
		Employment by	
40	MARGWORK_F_2011	Industry	Female Marginal Workers
		Employment by	
41	MARG_CL_P_2011	Industry	Total Marginal Workers as Cultivators
42	MARG_CL_M_2011	Employment by Industry	Male Marginal Workers as Cultivators
42	WARG_CL_W_2011	Employment by	
43	MARG_CL_F_2011	Industry	Female Marginal Workers as Cultivators
		Employment by	
44	MARG_AL_P_2011	Industry	Total Marginal Workers as Agricultural Labourers
45		Employment by	Nole Manning Manhaur A
45	MARG_AL_M_2011	Industry	Male Marginal Workers as Agricultural Labourers
46	MARG_AL_F_2011	Employment by Industry	Female Marginal Workers as Agricultural Labourers
10		Employment by	
47	MARG_HH_P_2011	Industry	Total Marginal Workers in Household Industry Workers
		Employment by	
48	MARG_HH_M_2011	Industry	Male Marginal Workers as Household Industry Workers
49		Employment by Industry	Fomale Marginal Workers as Household Industry Workers
49	MARG_HH_F_2011	Employment by	Female Marginal Workers as Household Industry Workers
50	MARG_OT_P_2011	Industry	Total Marginal Workers as Other Workers
		Employment by	
51	MARG_OT_M_2011	Industry	Male Marginal Workers as Other Workers
52		Employment by	Formale Marriage Markeys on Other Markeys
52	MARG_OT_F_2011 MARGWORK_3_6_P_2	Industry Employment by	Female Marginal Workers as Other Workers Marginal Workers - worked for 3 months or more but less than
53	011	Industry	6 months
	MARGWORK_3_6_M_	Employment by	Male Marginal Workers - worked for 3 months or more but less
54	2011	Industry	than 6 months
	MARGWORK_3_6_F_2	Employment by	Female Marginal Workers - worked for 3 months or more but
55	011 MARC CL 2 6 R 201	Industry	less than 6 months
56	MARG_CL_3_6_P_201 1	Employment by Industry	Marginal Cultivators - worked for 3 months or more but less than 6 months
50	MARG CL 3 6 M 20	Employment by	Male Marginal Cultivators - worked for 3 months or more but
57	11	Industry	less than 6 months
	MARG_CL_3_6_F_201	Employment by	Female Marginal Cultivators - worked for 3 months or more but
58	1	Industry	less than 6 months
59	MARG_AL_3_6_P_201	Employment by	Marginal Agricultural Labourors - worked for 2 to 6 months
59	1 MARG_AL_3_6_M_20	Industry Employment by	Marginal Agricultural Labourers - worked for 3 to 6 months Male Marginal Agricultural Labourers - worked for 3 to 6
60	11	Industry	months
	MARG_AL_3_6_F_201	Employment by	Female Marginal Agricultural Labourers - worked for 3 to 6
61	1	Industry	months
	MARG_HH_3_6_P_20	Employment by	Marginal Workers in Household Industry Workers - worked for
62		Industry Employment by	3 to 6 months
63	MARG_HH_3_6_M_20 11	Employment by Industry	Male Marginal Workers in Household Industry Workers - worked for 3 to 6 months
	MARG_HH_3_6_F_20	Employment by	Female Marginal Workers in Household Industry Workers -
64	11	Industry	worked for 3 to 6 months



65	MARG_OT_3_6_P_201 1	Employment by Industry	Marginal Other Workers - worked for 3 months or more but less than 6 months
66	MARG_OT_3_6_M_20 11	Employment by Industry	Male Marginal Other Workers - worked for 3 months or more but less than 6 months
	MARG OT 3 6 F 201	Employment by	
67	1	Industry	Female Marginal Other Workers - worked for 3 to 6 months
	 MARGWORK_0_3_P_2	Employment by	Marginal Workers - worked for 3 months or less but not more
68	011	Industry	than 3 months
00	MARGWORK_0_3_M_	Employment by	Male Marginal Workers - worked for 3 months or less but not
69	2011	Industry	more than 3 months
05	MARGWORK_0_3_F_2	Employment by	Female Marginal Workers - worked for 3 months or less but not
70	011	Industry	more than 3 months
70	MARG_CL_0_3_P_201	Employment by	Marginal Cultivators - worked for 3 months or less but not more
71	1	Industry	than 3 months
/1		•	
72	MARG_CL_0_3_M_20	Employment by	Male Marginal Cultivators - worked for 3 months or less but not more than 3 months
72	11	Industry	
70	MARG_CL_0_3_F_201	Employment by	Founds Manales Culture and successful for lass them 2 months
73	1	Industry	Female Marginal Cultivators - worked for less than 3 months
74	MARG_AL_0_3_P_201	Employment by	Managinal Application Laboration and the Laboration of the
74	1	Industry	Marginal Agricultural Labourers - worked for less than 3 months
	MARG_AL_0_3_M_20	Employment by	Male Marginal Agricultural Labourers - worked for less than 3
75	11	Industry	months
	MARG_AL_0_3_F_201	Employment by	Female Marginal Agricultural Labourers - worked for less than 3
76	1	Industry	months
	MARG_HH_0_3_P_20	Employment by	Marginal Workers in Household Industry Workers - worked for
77	11	Industry	less than 3 months
	MARG_HH_0_3_M_20	Employment by	Male Marginal Workers in Household Industry Workers -
78	11	Industry	worked for less than 3 mo
	MARG_HH_0_3_F_20	Employment by	Female Marginal Workers in Household Industry Worker -
79	11	Industry	worked for less than 3 mo
	MARG_OT_0_3_P_201	Employment by	Marginal Other Workers - worked for 3 months or less but not
80	1	Industry	more than 3 months
	MARG_OT_0_3_M_20	Employment by	
81	11	Industry	Male Marginal Other Workers - worked for less than 3 months
	MARG_OT_0_3_F_201	Employment by	Female Marginal Other Workers - worked for less than 3
82	1	Industry	months
		Unemployment	
83	NON_WORK_P_2011	Totals	Total Non-Workers
		Unemployment	
84	NON_WORK_M_2011	Totals	Male Non-Workers
		Unemployment	
85	NON_WORK_F_2011	Totals	Female Non-Workers
		Income Housing	
86	HC_TOT_TOT_2011	Characteristics	Households with condition of Census House as total houses
		Income Housing	
87	HC_TOT_GOD_2011	Characteristics	Households with condition of Census House as good houses
57		Income Housing	
88	HC_TOT_LIV_2011	Characteristics	Households with condition of Census House as livable houses
00		Income Housing	Households with condition of Census House as invable houses
89	HC_TOT_DIL_2011	Characteristics	houses
09	110_101_DIL_2011	Income Housing	Households with condition of Census House as residence total
90	HC RES TOT 2011	Characteristics	houses
90	HC_RES_TOT_2011		
01		Income Housing	Households with condition of Census House as residence good
91	HC_RES_GOD_2011	Characteristics	houses
		Income Housing	Households with condition of Census House as residence livable
92	HC_RES_LIV_2011	Characteristics	houses
		Income Housing	Households with condition of Census House as residence
93	HC_RES_DIL_2011	Characteristics	dilapidated
_		Income Housing	Households with condition of Census House as other total
94	HC_OTH_TOT_2011	Characteristics	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
57		Income Housing	
98	MT_GRSBAM_2011	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
		Income Housing	
102	MT_B_BRICK_2011	Characteristics	Households with material of roof as burnt brick
103	MT_STONE_2011	Income Housing Characteristics	Households with material of roof as stone/slate
		Income Housing	
104	MT_ASBSTOS_2011	Characteristics	Households with material of roof as gi/metal/asbestos sheets
105	MT_CONCRTE_2011	Income Housing Characteristics	Households with material of roof concrete
		Income Housing	
106	MT_OTH_2011	Characteristics	Households with material of roof any other material
407		Income Housing	Households with material of wall as
107	MW_GRSBAM_2011	Characteristics	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
		Income Housing	
110	MW_WOOD_2011	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
		Income Housing	
112	MW_ST_MRTR_2011	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
		Income Housing	
114	MW_B_BRICK_2011	Characteristics Income Housing	Households with material of wall as burnt brick
115	MW_CONCRTE_2011	Characteristics	Households with material of wall as concrete
		Income Housing	
116	MW_0TH_2011	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
110		Income Housing	
119	MF_B_BRICK_2011	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
		Income Housing	
122	MF_FL_TILE_2011	Characteristics Income Housing	Households with material of floor as mosaic/floor tiles
123	MF_OTH_2011	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
124	DW 1 ROOM 2011	Households	Households with number of dwelling rooms as one room
125		nousenolus	Households with humber 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
			Households with number of dwelling rooms as six rooms and
130	DW_6_ROOM_2011	Households	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
139	OW_KENTED_2011 OW OTH 2011	Housing	Households with ownership status as any other house
140	010_011_2011	Household Marital	nousenoius with ownership status as any other house
141	MC_NONE_2011	Status	Households with number of married couple as none
		Household Marital	
142	MCOUPLE_1_2011	Status Household Marital	Households with number of married couple as one
143	MCOUPLE_2_2011	Status	Households with number of married couple as two
		Household Marital	
144	MCOUPLE_3_2011	Status	Households with number of married couple as three
145	MCOUPLE_4_2011	Household Marital Status	Households with number of married couple as four
143	WCOOF LL_4_2011	Household Marital	nousenous with humber of married couple as four
146	MCOUPLE_5P_2011	Status	Households with number of married couple as five and above
		Households Water	Households with main source of drinking water as tap water
147	DW_T_TS_2011	Source Households Water	from treated source Households with main source of drinking water as tap water
148	DW_T_UNTS_2011	Source	from untreated source
		Households Water	
149	DW_C_WELL_2011	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
10	5**_0**C_**EL_2011	Households Water	
151	DW_HPUMP_2011	Source	Households with main source of drinking water as hand pump
450		Households Water	Households with main source of drinking water as tube
152	DW_TW_BORE_2011	Source Households Water	well/borehole
153	DW_SPRING_2011	Source	Households with main source of drinking water as spring
		Households Water	
154	DW_RIVCAN_2011	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
100		Households Water	Households with main source of drinking water as tank/pond Households with main source of drinking water as other
156	DW_OTH_2011	Source	sources
		Households Water	Households With Location of Drinking Water Source Within
157	LOC_DW_WP_2011	Source Households Water	Premises Households with location of drinking water source near
158	LOC_DW_NP_2011	Households water Source	premises
		Households Water	Households with location of drinking water source away from
159	LOC_DW_AW_2011	Source	house
160	LIGHT FLEC 2014	Household Energy	Households with main source of lighting as electricity
160	LIGHT_ELEC_2011	Sources	Households with main source of lighting as electricity



101	LICUT KEDO 2011	Household Energy	Henry helde with main any set lighting on herrors
161	LIGHT_KERO_2011	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
102	LIGHT_SOLK_2011	Household Energy	households with half source of lighting as solar energy
163	LIGHT_OIL_2011	Sources	Households with main source of lighting as other oil
103		Household Energy	
164	LIGHT_OTH_2011	Sources	Households with main source of lighting as any other source
104	LIGHT_0111_2011	Household Energy	nousenous with main source of lighting as any other source
165	LIGHT_NO_2011	Sources	Households with main source of lighting as no lighting
105		Households	
166	HH_LATRINE_2011	Bathroom Facility	Households having latrine facility within the premises
		Households	Households having flush/pour flush latrine connected to piped
167	FL_SEWER_2011	Bathroom Facility	sewer
		, Households	Households having flush/pour flush latrine connected to septic
168	FL_SEPTICT_2011	Bathroom Facility	tank
		, Households	Households having flush/pour flush latrine connected to other
169	FL_OTHSYS_2011	Bathroom Facility	system
		, Households	·
170	PL_WSLAB_2011	Bathroom Facility	Households having pit latrine with slab ventilated improved pit
		Households	
171	PL_WITHOUT_2011	Bathroom Facility	Households having pit latrine without slab/open pit
		Households	
172	NS_OPEN_2011	Bathroom Facility	Households having night soil disposed into open drain
		Households	Households having service latrine where night soil removed by
173	SL_NS_HUM_2011	Bathroom Facility	human
		Households	Households having service latrine where night soil serviced by
174	SL_NS_ANML_2011	Bathroom Facility	animal
		Households	
175	HH_NO_LAT_2011	Bathroom Facility	Households not having latrine facility within the premises
		Households	
176	AS_PUB_2011	Bathroom Facility	Households not having latrine facility but using public latrine
		Households	
177	AS_OPEN_2011	Bathroom Facility	Households not having latrine facility but using open areas
470		Households	
178	HH_BATHRM_2011	Bathroom Facility	Households having bathing facility within the premises
170		Households	Households having bathing facility within the premise as bath
179	HH_EN_WRF_2011	Bathroom Facility	wo roof
100		Households	Households not having bathing facility
180	HH_NO_BTRM_2011	Bathroom Facility	Households not having bathing facility
101		Household Sewage	Households with waste water outlet connected to closed
181	WWOC_DRAIN_2011	services	drainage Households with waste water outlet connected to open
182	WWOC_OPEN_2011	Household Sewage services	drainage
102		Household Sewage	
183	WWOC_NODRN_2011	services	Households with waste water without any drainage system
105		Household Energy	nousenous with waste water without any dramage system
184	COOK_FIRE_2011	Sources	Households with type of fuel used for cooking as fire-wood
104	000K_IML_2011	Household Energy	Households with type of fuct used for cooking as fire wood
185	COOK RESDU 2011	Sources	Households with type of fuel used for cooking as crop residue
100	000K_N2000_2011	Household Energy	
186	COOK_CWDNG_2011	Sources	Households with type of fuel used for cooking as cowdung cake
		Household Energy	
187	COOK COAL 2011	Sources	Households with type of fuel used for cooking as coal, lignite
		Household Energy	
188	COOK KERO 2011	Sources	Households with type of fuel used for cooking as kerosene
		Household Energy	
189	COOK_LPNG_2011	Sources	Households with type of fuel used for cooking as lpg/png
		Household Energy	
190	COOK_ELEC_2011	Sources	Households with type of fuel used for cooking as elecricity



		Household Energy	
191 CO	OOK_BIOGS_2011	Sources	Households with type of fuel used for cooking as biogas
192 C0		Household Energy	Households with type of fuel used for cooking as any other fuel
192 ((OOK_OTH_2011	Sources Household Energy	nouseholds with type of rule used for cooking as any other rule
193 CO	OOK_NO_2011	Sources	Households with type of fuel used for cooking as no cooking
194 KF	F_INSIDE_2011	Household Kitchen	Households with kitchen facility do cooking inside house
195 KF	F_IN_HAS_2011	Household Kitchen	Households with kitchen facility, do cooking inside house has kitchen
196 KF	F_IN_DOES_2011	Household Kitchen	Households with kitchen facility, do cooking inside house, no kitchen
197 KF	F_OUTSIDE_2011	Household Kitchen	Households with kitchen facility, do cooking outside house
198 KF	F_OUT_HAS_2011	Household Kitchen	Households with kitchen facility, do cooking outside, has kitchen
199 KF	F_OUT_DOS_2011	Household Kitchen	Households with kitchen facility, do cooking outside, no kitchen
200 KF	F_NO_COOK_2011	Household Kitchen	Households with kitchen facility has no cooking facility
201 H	H_BANKING_2011	Households Banking	Households availing banking services
202 H	H_RADIO_2011	Household Assets	Households having availability of assets like radio/transistor
203 HI	H_TVCOMP_2011	Household Assets	Households having availability of assets like tv, computer/laptop
204	UL CNAD INT 2011	Household Assats	Households having availability of assets like computer with
204 HI	H_CMP_INT_2011	Household Assets	internet Households having availability of assets like computer wo
205 HI	H_CMP_WNT_2011	Household Assets	internet Households having availability of assets like telephone as
206 HI	H_PH_LL_2011	Household Assets	landline
	H_PH_MOB_2011	Household Assets	Households having availability of assets like telephone as mobile
208 HI	H_PH_BTH_2011	Household Assets	Households having availability of assets like telephone as both
209 HI	H_BCYCL_2011	Household Assets	Households having availability of assets like bicycle
210 HI	H_2WHEEL_2011	Household Assets	Households having availability of assets like scooter/motorcycle
211 HI	H_4WHEEL_2011	Household Assets	Households having availability of assets like car/jeep/van
212 HI	H_TV_2011	Household Assets	Households having availability of assets like television
213 HI	H_NO_AST_2011	Household Assets	Households Not Having Availability of Assets Like TV, Computer
244			Households with type of structure of census houses as
214 H	S_PERMA_2011	Housing Units	permanent Households with type of structure of census houses as semi-
215 H	S_SPERMA_2011	Housing Units	permanent
216 H	S TEMP 2011	Housing Units	Households with type of structure of census houses as total
210 H	5_1 CIVIP_2011	Housing Units	temporary Households with type of structure of census houses as
217 H	S_SERVC_2011	Housing Units	serviceable
218 H	S_NSERVC_2011	Housing Units	Households with type of structure of census houses as non- serviceable
219 H	S_UNCLSS_2011	Housing Units	Households with type of structure of census houses as unclassifiable
	VGHHSZ_CY_2011	Households	Average Household Size
220 A	vonii52_01_2011	Projected	Average nousenou size
221 T(OT_P_2012	Population	Projected Total Population for 2012
222 T(OT M 2012	Projected	Projected Male Population for 2012
222 10	OT_M_2012	Population Projected	Projected Male Population for 2012
223 T	OT_F_2012	Population	Projected Female Population for 2012
224 74	OT D 2012	Projected	Projected Total Population for 2012
224 T(OT_P_2013	Population Projected	Projected Total Population for 2013
225 T	OT_M_2013	Population	Projected Male Population for 2013



		Projected	
226	TOT_F_2013	Population	Projected Female Population for 2013
		Projected	· · · · · · · · · · · · · · · · · · ·
227	TOT_P_2014	Population	Projected Total Population for 2014
		Projected	
228	TOT_M_2014	Population	Projected Male Population for 2014
		Projected	
229	TOT_F_2014	Population	Projected Female Population for 2014
		Projected	
230	TOT_P_2015	Population	Projected Total Population for 2015
		Projected	
231	TOT M 2015	Population	Projected Male Population for 2015
		Projected	· · ·
232	TOT F 2015	Population	Projected Female Population for 2015
		Projected	
233	TOT_P_2016	Population	Projected Total Population for 2016
200		Projected	
234	TOT_M_2016	Population	Projected Male Population for 2016
234	101_101_2010	Projected	
235	TOT_F_2016	Population	Projected Female Population for 2016
235	101_1_2010		
226	TOT D 2017	Projected	Projected Total Deputation for 2017
236	TOT_P_2017	Population	Projected Total Population for 2017
227	TOT 14 2017	Projected	Designed a Male Describet 6 2017
237	TOT_M_2017	Population	Projected Male Population for 2017
		Projected	
238	TOT_F_2017	Population	Projected Female Population for 2017
		Projected	
239	TOT_P_2018	Population	Projected Total Population for 2018
		Projected	
240	TOT_M_2018	Population	Projected Male Population for 2018
		Projected	
241	TOT_F_2018	Population	Projected Female Population for 2018
		Projected	
242	TOT_P_2019	Population	Projected Total Population for 2019
		Projected	
243	TOT_M_2019	Population	Projected Male Population for 2019
		Projected	
244	TOT_F_2019	Population	Projected Female Population for 2019
		Projected	
245	TOT_P_2020	Population	Projected Total Population for 2020
		Projected	
246	TOT M 2020	Population	Projected Male Population for 2020
		Projected	
247	TOT_F_2020	Population	Projected Female Population for 2020
		Projected	
248	TOT_P_2021	Population	Projected Total Population for 2021
		Projected	
249	TOT_M_2021	Population	Projected Male Population for 2021
275	101_111_2021	Projected	
250	TOT_F_2021	Population	Projected Female Population for 2021
230	101_1_2021		
251	TOT D 2022	Projected	Projected Total Deputation for 2022
251	TOT_P_2022	Population	Projected Total Population for 2022
252	TOT NA 2022	Projected	Drainstad Mala Danulation for 2022
252	TOT_M_2022	Population	Projected Male Population for 2022
	TOT E SSSS	Projected	
253	TOT_F_2022	Population	Projected Female Population for 2022
		Projected	· · · · · · · · ·
254	TOT_P_2023	Population	Projected Total Population for 2023
		Projected	
255	TOT_M_2023	Population	Projected Male Population for 2023



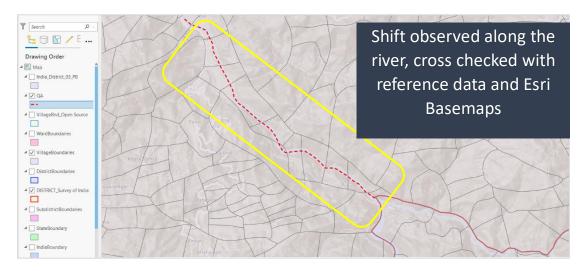
		Projected	
256	TOT_F_2023	Population	Projected Female Population for 2023
		Projected	
257	TOT_P_2024	Population	Projected Total Population for 2024
		Projected	
258	TOT_M_2024	Population	Projected Male Population for 2024
		Projected	
259	TOT_F_2024	Population	Projected Female Population for 2024
	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



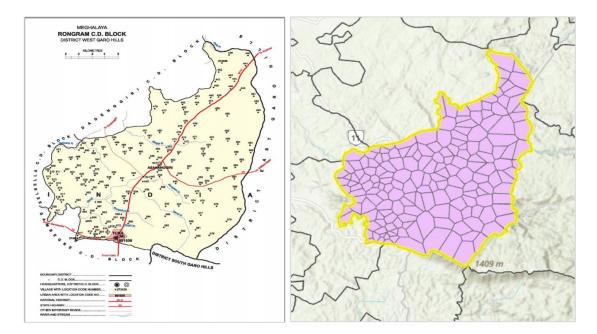
		Projected	
286	TOT_F_2033	Population	Projected Female Population for 2033
		Projected	
287	TOT_P_2034	Population	Projected Total Population for 2034
		Projected	
288	TOT_M_2034	Population	Projected Male Population for 2034
		Projected	
289	TOT_F_2034	Population	Projected Female Population for 2034
	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



 \sim 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	