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Emerging Cities and Urbanization in Jharkhand, India A census based study of shifting Dynamics

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Introduction

- Cities are engines of growth and prosperity lying in the centre of economic development and planning but the process of Urbanization favors only few large cities with strong economic base.
- We have a consensus among demographer, geographers and scholars that Urbanization is a process which shift the Agrarian society to Industrial society following a remarkable developmental change.
- The process of Urbanization is grinding mixture of four component; *natural increase of population, reclassification of settlement, change in boundary of existing town and most important rural- urban migration.*
- The Rural-Urban Migration has been dealt in this paper since it appears major component to bring change in the economy of state.
- The Urban agglomeration of state of Jharkhand has been taken into consideration since for the study of R-U Migration base is taken as former's presence in the district.

Data and Methodology

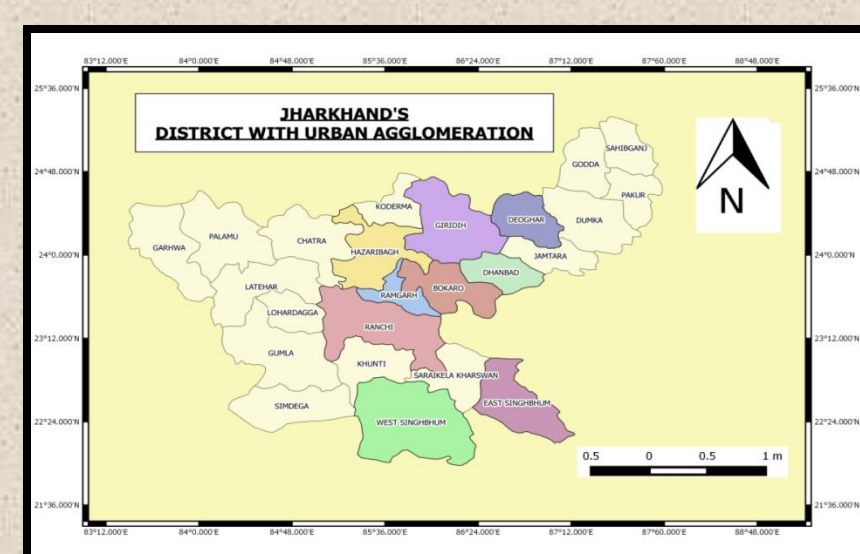
- The data has been collected from website of Census of India of various years.
- Percentage wise calculation has been done of males and females migration and other elements.
- Exponential Model and Logistic Growth Model has been used for finding population projection of cities for the year 2021.

Objective

- To show the Pattern of migration in Jharkhand and level of Urbanization of district concerned.
- To study a major component of urbanization, i.e. R-U migration and their pattern and purpose of mobility in selected district of Jharkhand.
- To find out the annual growth rate of cities of selected district and find out population Projection using exponential method and logistic growth method and compare the difference.

Area of Study

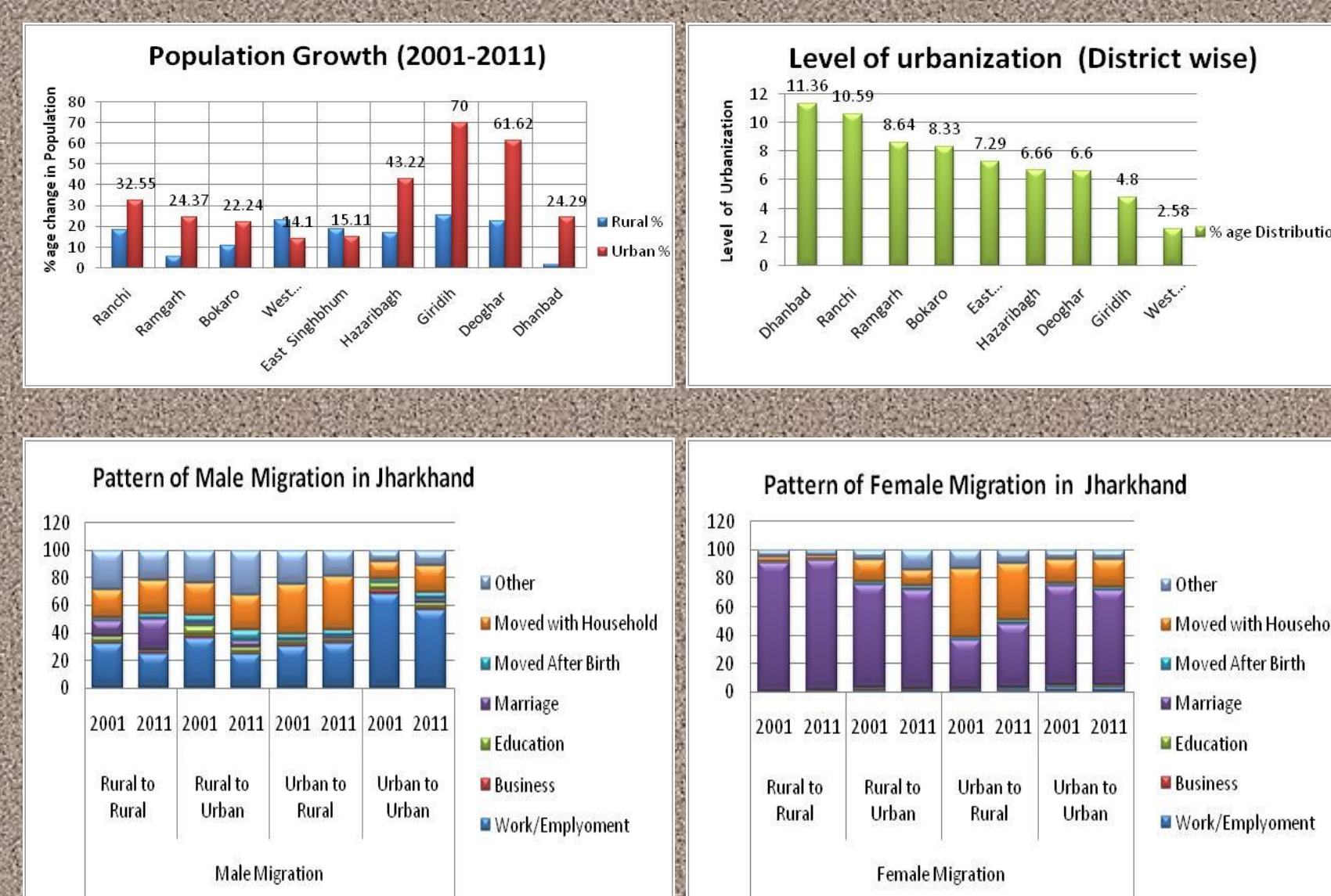
- Only those district has been selected which have presence of at least one Urban agglomeration shown in the picture below.



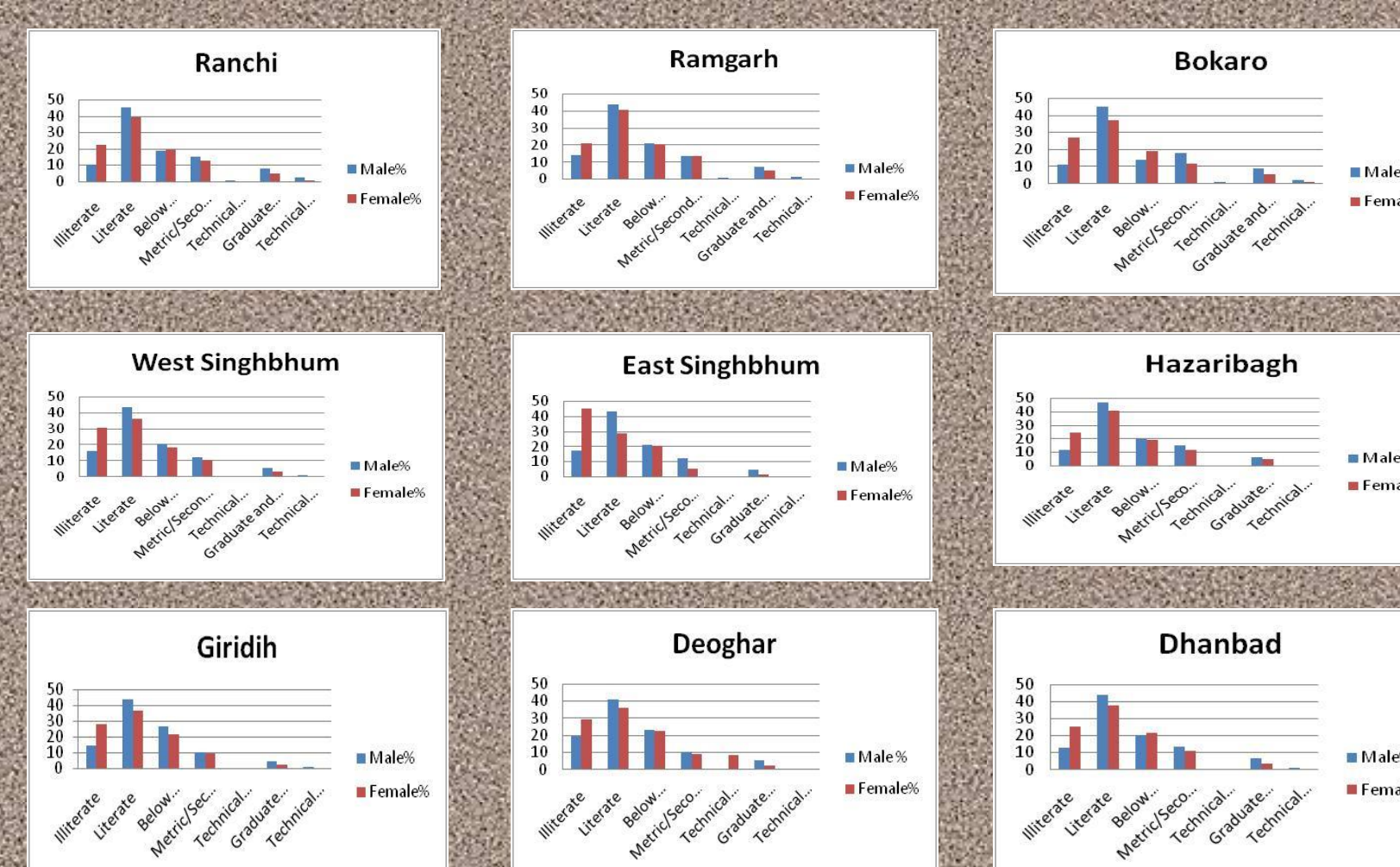
	Statutory Town	Census Town
Ranchi	1. Ranchi Municipal Corporation	13
Ramgarh	1. Ramgarh Cantonment	22
Bokaro	1. Cha. Municipal Corporation	25
	2. Phiro Municipal Council	
West Singhbhum	1. Chakradharpur NA	9
East Singhbhum	1. Jamshedpur	11
	2. Mangr	
	3. Durgam	
	4. Chitrali	
Hazaribagh	1. Hazaribagh Municipal Corporation	16
Giridih	1. Giridih Municipal Corporation	10
Deoghar	1. Deoghar Municipal Corporation	9
	2. Mahanagar Nagar Parishad	
Dhanbad	1. Dhanbad Municipal Corporation	43
	2. Chirkunda Nagar Parishad	

Districts	Urban Agglomeration	Area (in Sq. Km.)	Wards
Ranchi	Ranchi UA	175	53
Ramgarh	Ramgarh UA	37.68	08
Bokaro	Cha. UA	27.09	30
	Phiro UA	55.00	28
West Singhbhum	Chakradharpur UA	NA	23
East Singhbhum	Jamshedpur UA	224	35
Hazaribagh	Hazaribagh UA	19.07	32
Giridih	Giridih UA	87.4	30
Deoghar	Deoghar UA	337	36
Dhanbad	Dhanbad UA	275	55
	Chirkunda UA	6.36	21

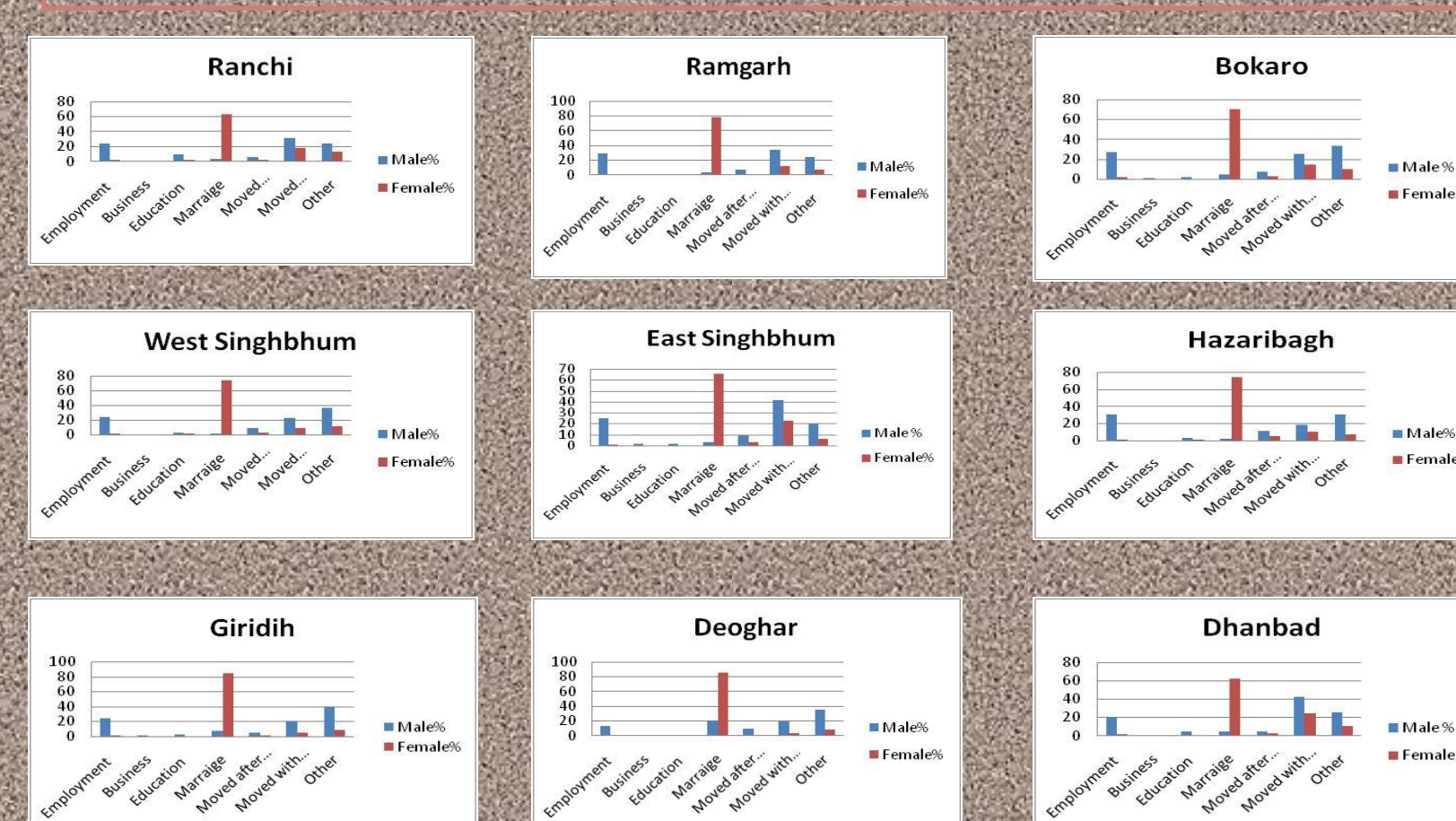
Graphical Presentation of Results



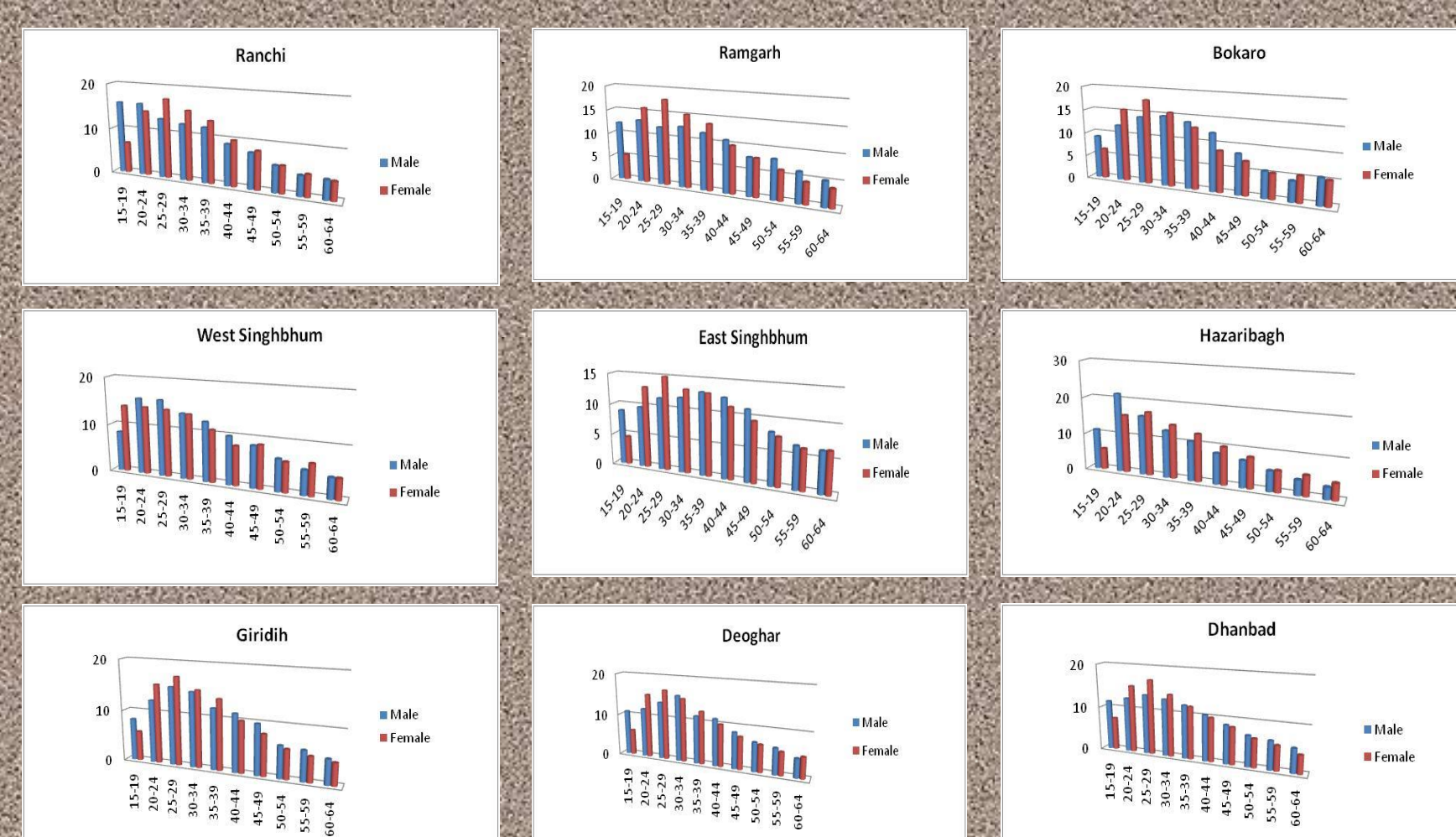
Rural-Urban Migration through level of Education-



Purpose of Rural-Urban Migration-



Working- age Population behaviors on Rural-Urban Migration-



Population Projection of major cities-

Urban Agglomerations of Jharkhand	Population 1991	Population 2001	Population 2011	% Change in Population	Annual Growth Rate	Projected Population 2021 (Exponential Growth Model)	Relative Growth Rate	Projected population 2021 (Logistic Growth Model)
Ranchi	599,306	863,495	1,073,427	24.31	2.43	1,220,744.3	0.81	1,331,880
Ramgarh	City NA	110,496	132,425	19.84	1.98	963,639		
Cha.	85,207	393,805	414,820	3.33	0.33	707,521	4.59	418,048
Phiro	City NA	174,402	185,555	6.94	0.64	261,726		
Chakradharpur	City NA	35,228	56,531	2.35	0.24	71,873		
Jamshedpur	478,950	1,104,713	1,359,458	21.24	2.12	1,121,236	2.00	1,586,014
Hazaribagh	97,824	144,020	171,822	19.30	1.93	118,474	1.07	191,048
Giridih	78,097	105,634	114,533	8.42	0.84	269,948	-1.51	117,527
Dhanbad	151,789	1,065,327	1,162,472	9.11	0.91	289,389	4.27	116,997
Chirkunda	City NA	106,227	118,777	11.81	1.18	387,099		

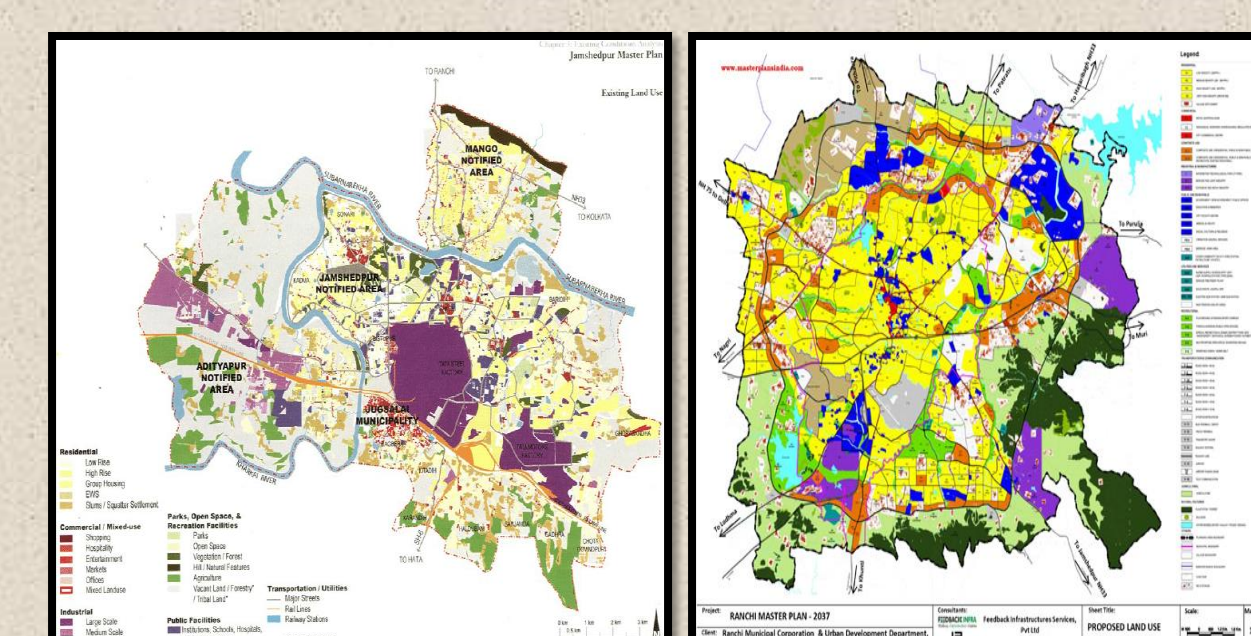
Result and Discussion

- In the chart above Exponential growth appears too high to calibrate with real world situation, where as the logistic growth resultants are satisfying, because over a period a saturation occurs as the population oscillates around its carrying capacity.
- On calculating level of Urbanization Dhanbad district appears on the top followed by Ranchi, Ramgarh, Bokaro, E. Singhbhum, Hazaribagh, Giridih and West Singhbhum on the bottom.
- On a comparative analysis of Rural-Urban Migration of males and females it is clear that among males migration is driven in the search of employment that too of average or below average standard according to their qualification but and females are driven by marriage a social cause.
- In the state of Jharkhand three cities viz. Jamshedpur, Ranchi and Dhanbad are approaching to attain a place in Million Plus cities and aspiring for synchronized planning.

Conclusion

- Urbanization is believed as a phenomenon of development but it creates polarization if go unplanned.
- Three major cities of Jharkhand namely Jamshedpur, Ranchi and Dhanbad emerge are prepared for planning, but master plan for later is yet to get approval.
- A significant gulf is noticed between eastern and western Jharkhand, east comprises of area in and around damodar valley region, comparatively prosperous and urbanized.

Proposed Master Plan for Jamshedpur and Ranchi-



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