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## **Review Of Research**



## POPULATION AND QUALITY OF LIFE IN BIRBHUM DISTRICT, WEST BENGAL, INDIA

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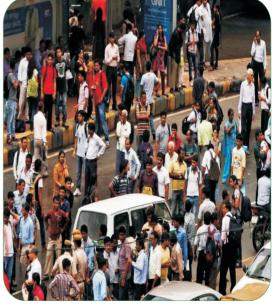
#### **ABSTRACT**

f the amount of resource available within a country does not feed its total population due to excessive population in comparison to existing resource, quality of life of individual and socio-economy of that area collapse, which is very often found in developing nations of the world .Consequently, well being of common people through provision of basic needs like food, clothing, shelter, education, health is obstructed. This adversely affects the quality of life of an individual. In addition, increasing rate of population growth brings reduction in per capita income of people by creating pressure on land, making consumer product costlier and decreasing national capital. Moreover, the increase in the population growth rate due to high fertility, low mortality and inflow of migrants prevent improved quality of life also. Among others factors are influencing quality of life (QOL) in particular and socioeconomic development and human well being in general literacy, dietary pattern, transportation, health service etc. Are most commonly used, the assessment of which explores the status of QOL of an area. The present paper attempts to analyse the decadal variation of population growth and quality of life in Birbhum District, West Bengal, India with some strategy implication.

**KEYWORDS**: Population and influencing quality of life (QOL), socio-economic development.

#### 1.INTRODUCTION

The impact of population growth on human development is numerous and it cannot be strongly opined that more number of population leads to more economic development, as this needs innovative idea, technology



and policy implementation and after all a pronounced economy which are not easier to achieve. On contrary, nation with low population growth and higher resource potential also suffer from development hurdles, due to disparity in the distribution of man and resource. Supporters of Malthusian concept opined that the main cause of socioeconomic backwardness of third world countries is the population growth and consider low per capita income is the sole factor of underdevelopment. According to them, despite increasing productivity, population health and industrialization, it will not be possible to bring any satisfactory level of socioeconomic development if there is no consistency between available resource and population. Some bio-scientist and sociologist demand that food controls fertility. For example, foods with high protein reduce fertility and vice-versa. Consequently, as larger section of the population live in the canopy of poverty in the underdeveloped country, they cannot take much more food with proteins and the resulting effect is the higher fertility rate.

Again, families belonging to low income level consider their children as would be source of income in future and for that they often desire for baby boy instead of baby girl. It is also found that, there is a tendency to give birth of more and more children among the poverty stricken families for the interest of socio-economic security. Because they think that more the number of children more will be the manual labour in future. But it is not desired to get girl child as they are not manually strong, traditionally deprived and socially confined amidst so many obstacles. In this way most of the under developed countries experience low per capita income and most of the people of those countries live below the poverty line. Even people living in the slightly better socio-economic condition cannot take nutritious food and lead quality of life in much case. Due to lack of education therefore, quality of life is the result of population dynamics available infrastructure and resource structure of an area. India being a legend in population growth in the world has been suffering from problems relating to socioeconomy and quality of life since few decades which needs some concrete policies and strategy implication to overcome the problems and Birbhum district of West Bengal, the study area, being one of the backward districts in the state as per Human Development Report needs to restrict high population along with infrastructural development considering its population resource structure to improve socio-economy and quality of life of its inhabitants.

#### 2.ABOUT THE STUDY AREA

The district of Birbhum lies between the latitudes of 23°23′30″N and 24°35′00″N and occupies the western parts of the state of West Bengal. The eastern most extremity of the district is marked by 88°01′40″E longitude and its western most extremity by 87°05′25″E longitude. The shape of the district is an isosceles triangle, the apex being situated at the northern extremity. Birbhum is bounded on the north and west by Dumka district of Jharkhand state, on the east by the districts of Murshidabad and Barddhaman. The river Ajoy forms the southern boundary of the district separating it from Barddhaman district of West Bengal.

#### 3.OBJECTIVES:

The paper has attempted to assess the decadal variation of population growth, socio-economic condition and quality of life in the district of Birbhum in West Bengal.

#### **4.DATA BASE AND METHODOLOGY:**

The secondary data has been collected from District statistical hand book and District Human Development Report to analyse the spatio-temporal variation in the growth of population in the district of Birbhum. The decadal growth of population has been calculated with the help of Barclay's method. The growth of population has been measured by—

Observed change in the total number of population in the district.

Current process of replacement in the district.

Change in the size of some section of population.

To measure change in the population size, the number of people of the initial year  $(P_1)$  and the number of people of the later year  $(P_2)$  has been considered. Change in the growth of population has been calculated with the help of the formula  $(P_2/P_1)$  X100. A large number of data has been

analysed with chosen variables indicating socio-economy and quality of life of Birbhum district and accordingly statistical techniques have been applied to analyse data. Primary data collected through field survey has also been analysed with the help of suitable statistical and cartographic measures.

#### 5.1 Population growth during 1901-1931:

In the first thirty year of the 20th century, the trend of population growth in the study area bears exceptional character. In 1921; there was a decline in population as compared to its previous year. In 1901 and in 1911 where the total population of the district respectively was 906891 and 940162, in the year 1921 it came down into 851725. This decline is caused due to famine and epidemic spread at that time throughout the country. The influence of which touched the district also. Therefore the year 1921 witnessed negative population growth, which increases to 947554 populations in 1931. The first decade of the century (1901-1911) experience a positive growth rate (+3.67), while the second decade (1911-1921) recorded a negative growth rate of population (-9.40) due to sudden outbreak of famine and epidemic as stated earlier. During the third decade, again the area got higher population growth (+11.25).

#### 5.2 Population growth during 1941-1971:

In 1941, the total population of the area was 1048317, but interestingly in 1951, after the Indian independence there was remarkable decline in the population growth (+1.77) as compared to the previous (+10.63) decade except 1921 due to ................ But soon after 1951 again the population growth revived with a positive trend in 1961 (35.60) and in 1971 (22.80). The slow growth of population in 1971 (22.80) in comparison to 1961 (35.60) was due to partition and the then political instability in the country, which reflected in almost every district of India.

#### 5.3 Population growth during 1981-2001:

The next forty year i.e. from 1981 to 2011, there was fluctuating but positive growth of population in the study area although the population growth in 1981, 1991, 2001, and 2011 was lesser if compared with the figure of 1961 and 1971(Table-1). This is the result of the development of socioeconomic condition in the post independence period as well as awareness relating to the problem caused by higher population growth.

Table: 1, Decadal growth rate of population in Birbhum district in respect of West Bengal and India.

Year	Total population	Decadal growth rate				
	of Birbhum	Birbhum	West Bengal	India		
	district					
1901	906891	-	-	-		
1911	940162	3.67	2.70	5.75		
1921	851725	-9.40	0.97	-0.31		
1931	947554	11.25	7.91	11.00		
1941	1048317	10.63	21.91	14.22		
1951	1066889	1.77	13.71	13.31		
1961	1446158	35.60	33.61	21.51		
1971	1775909	22.80	28.28	24.80		
1981	2095829	18.01	6.91	24.75		
1991	2555664	21.94	6.80	23.50		
2001	3015422	17.99	16.78	21.34		
2011	3502387	16.15				

Source: Computed by authors from District Human Development Report-2008

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#### 5.4 Spatial pattern of population growth during 1991-2001:

If block wise spatial variation in the growth population during 1991-2001 of the district IS considered, it is noticed that Nalhati-I ranks first where population increase from 174541 to 208642 exceeds all the blocks of Birbhum. Murarai-II and Murarai-I hold second and third position respectively where population growth difference is more than 30,000 if compared between the year 1991 and 2001. These three blocks i.e. Nalhati-I, Murarai-II and Murarai-I shows extreme population growth in the district. Areas of high growth rate (more than 20,000 but below the 30,000) include blocks like Mayureswar-I, Rampurhat-I, Md. Bazar, Sainthia, Dubrajpur, Bolpur-Sriniketan, Labpur, Nanoor and Illam Bazar. Areas of moderate growth rate (10,000 to 20,000) comprise blocks like Nalhati-II, Mayureswar-II, Suri-II, Khoyrasole and Bolpur Municipal town. Areas of slow growth rate (less than 10,000) includes municipal town like Rampurhat, Suri, Dubrajpur, Sainthia and Rajnagar block (Table-2). It is interesting feature of the study that areas having extreme and high population growth are basically rural and agricultural based area where Muslim population is dominating. These areas have low socio-economic and Human Resource Development. For example in the block like Nalhtati-I, Murarai-I, and Murarai-II, the index of living standard as per HDI ranking of block, 2001, respectively are 0.43, 0.40 and 0.56 which is enough lower in comparison to Suri-I, having index of living standard 0.94. On the other hand, slow growth rate population is found mainly in municipal areas where socioeconomic condition of people is much more higher, people are more concuss about fertility and these areas have the larger opportunities for non-agricultural occupation with very low proportion of cultivable land.

Table:2 Decadal population increase across the blocks and Municipelities of Birbhum district.

	Total Po	pulation		
	1991	2001	Difference	Rank
Nalhati-l	174541	208642	34101	1
Nalhati-II	89841	107658	17817	15
Murarai-l	122544	154342	31798	3
Murarai-II	144908	177748	32840	2
Maruyeswar-l	116592	139733	23141	11
Maruyeswar-II	98818	113031	14213	16
Rampurhat-I	134329	159193	24864	6
Rampurhat-II	138485	158742	20257	13
Rampurhat-(M)	43275	50613	7338	23
Md. Bazar	116319	139465	23146	10
Sainthia	155104	175645	20541	12
Dubrajpur	135787	159011	23224	9
Rajnagar	61539	69692	8153	21
Suri-I	77430	96476	19046	14
Suri-II	65153	77001	11848	19
Khoirasole	122081	135101	13020	17
Dubrajpur-(M)	26983	32752	5769	24
Suri-(M)	54298	61806	7508	22
Sainthia-(M)	30024	39145	9121	20
Bolpur-Sriniketan	152048	178111	26063	4
Labpur	153546	176865	23319	8
Nanoor	168364	193775	25411	5
Illambazar	120895	145182	24287	7
Bolpur-(M)	52760	65693	12933	18

Source: Computed by authors from District Human Development Report-2008

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#### **6.SOCIO-ECONOMIC DEVELOPMENT AND QUALITY OF LIFE:**

Socio-economic development and quality of life are two buzz word used often at present. Socio-economic development refers to the improvement of social and economic status of people particularly poorer section of the society by ensuring basic needs of life along with literacy and school infrastructure health care services, employment opportunities, women empowerment etc. On the other hand quality of life is a personalised concept where individual in the society is considered to be developed by improving socio-economic condition of that area one lives in.

While analysing the reason of poverty and downward socio-economy of the study area it is found that lack of education is the sole factor playing significant role in the degrading status of quality of life in many blocks of the district. The problem of low literacy rate is realised by disparity across different groups. In addition, there is long gender gap in the literacy in the district of Birbhum. There is also lack of school infrastructure, pupil-teacher ratio and teacher-school ratio across the different blocks of the district.

In case of public health, the overall feature of the district is not satisfactory. There is no increase in the number of hospitals and health centre in the district, only few sub-centres including clinics and dispensaries were introduced from 2005. There is also a reducing trend in the number of doctors in the area under study. Moreover, there are a number of blocks which have not any hospitals; a few have neither hospitals nor health centres or sub-centres. The district immediately needs more and more doctors to increase doctor-population ratio as population and total number of health care centres with doctor vary widely in the district. The ratio between the population and number of health care centre like primary health centre (PHCs), blocks primary health centres (BPHCs) and sub-centres (SCs) vary significantly. Therefore there is a great mismatch between the existing health care facilities in the blocks and population of those blocks. Most of the people of the blocks have to depend on this primary health centre.

Table:3 District wise Human Development Index in West Bengal, 2004

Name of the	Health	Income	Education		HDI		GDI
district	Index	Index	Index	HDI	Rank	GDI	Rank
						0.600	2
Darjeeling	0.73	0.49	0.72	0.65	4		
	0.64		2.5		4.0	0.492	11
Jalpaiguri	0.61	0.38	0.6	0.53	10		
W 1 D 1	0.7	0.44	0.55	0.50		0.471	13
Koch Behar	0.5	0.41	0.65	0.52	11		
D	0.62	0.20	0.52	0.51	12	0.478	12
Dinajpur	0.62	0.39	0.53	0.51	13		
Malda	0.49	0.36	0.48	0.44	17	0.416	17
Iviaida	0.49	0.30	0.46	0.44	1/	0.400	1.0
Murshidabad	0.57	0.29	0.52	0.46	15	0.423	16
Iviuisiiidadad	0.57	0.27	0.32	0.70	13	0.435	14
Birbhum	0.53	0.27	0.61	0.47	14	0.433	14
						0.560	7
Bardhaman	0.74	0.47	0.71	0.64	5		
						0.506	9
Nadia	0.65	0.41	0.66	0.57	9		
North 24						0.564	6
Parganas	0.72	0.49	0.76	0.66	3		

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						0.581	3
Hugli	0.77	0.46	0.67	0.63	6		
						0.494	10
Bankura	0.67	0.26	0.62	0.52	11		
						0.424	15
Purulia	0.61	0.18	0.55	0.45	16		
						0.578	4
Medinipur	0.68	0.45	0.74	0.62	7		
						0.570	5
Haora	0.77	0.53	0.75	0.68	2		
						0.642	1
Kolkata	0.82	0.73	0.8	0.78	1		
South 24						0.521	8
Parganas	0.71	0.4	0.68	0.6	8		
						0.549	
West Bengal	0.7	0.43	0.69	0.61			

#### **7.NUTRITION:**

Dietary pattern plays an important role which determines the quality of life of people, although in many cases it is economy dependent, its proper intake controls ones physical fitness and establishes status of individual in the society. In the study area, balanced diet is completely absent in rural areas particularly among the female due to socio-economic backwardness including poverty and lack of education. Very often, it has been found after survey that people do not take adequate and quality food, but they often take minimum requirement so that they can survive. Again, it should be mentioned that this compulsion is the cause of so many factors as stated earlier lying under the canopy of backward socio-economy and poverty in the form of low per capita income, larger family size, illiteracy, lack of health services and consciousness etc. Most of the people of the study area belonging below the poverty level used to purchase cheap vegetables and foods without protein. Therefore, they are mostly vegetarian and cannot take protein foods like agg, meat and fruits. But this is not noticed in case of urban people of the district, because they are mostly belong to above the poverty level and can choose mineral and protein based diet due to better economy. But in rural Birbhum the produced crops and vegetables are mostly consumed at subsistence level and they have not the chance to take foods with minerals and or protein for their very low per capita income.

Table:4 Spearman's Rank co-relation co-efficient (A.T.S vis-a-vis HDI)

BLOCK	HDI	Rank	Average Transport Score	Rank	RANK DIFFERENCE	d <sup>2</sup> (Sq. of Rank Difference)
Nalhati-l	0.65	2	43.12	17	-15	225
Nalhati-II	0.58	8	54.4	6	2	4
Murarai-l	0.59	7	40.05	18	-11	121
Murarai -II	0.37	19	53.31	9	10	100
Mayureswar-I	0.43	16	57.53	4	12	144
Mayureswar-II	0.68	1	53.42	7	-6	36
Rampurhat-II	0.46	13	47.25	11	2	4
Rampurhat-II	0.56	9	46.19	14	-5	25

Md. Bazar	0.38	18	53.35	8	10	100
Sainthia	0.5	12	44.17	15	-3	9
Dubrajpur	0.54	10	55.48	5	5	25
Rajnagar	0.62	3	59.59	2	1	1
Suri -II	0.61	4	51.48	10	-6	36
Suri-II	0.53	11	62.65	1	10	100
Khoyrasol	0.46	14	44.15	16	-2	4
Bolpur-Sriniketan	0.45	15	46.22	12	3	9
Labpur	0.6	6	46.19	13	-7	49
Nanoor	0.6	5	58.55	3	2	4
Illambazar	0.38	17	40.05	19	-2	4
						1000

$$ho = 1 - rac{6 \sum d_i^2}{n(n^2-1)}$$
. =0.12(Positive-co-relation)

Table-5, P.W.D., Zilla Parishad, Gram Panchayat and Panchayat Samity maintained Roads of Birbhum District in 2005-06 (in Km)

Year	P.W.D	P.W.D		d	GramPanchayat an	
					Panchayat S	amity
2005-06	Surfaced	1168	Surfaced	1009	Surfaced	98
	Unsurfaced	09	Unsurfaced	849	Unsurfaced	4169
	Total	1177	Total	1858	Total	4267

Source: 11th Five year Plan and Annual plan for Birbhum, Govt of West Bengal, District Planning Committee.

#### **8.OTHER FACILITIES:**

The welfare of human civilization has been highly determined by economic development which is again very much dependent on the speed of movement of people and commodities. Thus transport has been playing very crucial role in bringing socio-economic development in an area. Initially, during 20th century, there were a few roads in the district constructed by the Merchant Mr. Cheap to transport inputs and outputs to and from his factory located at Suri – the district head quarter of Birbhum. In the subsequent time, a lot of roads have been constructed. At present there are three types of roads in Birbhum district (Table.5). Spread throughout the district along with the facility of railway network also in some of its parts. If block wise the average transportation score block wise is considered, a positive correlation is found between average transportation score and human development index of each block (Table.4).

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#### 9.CONCLUSION:

Therefore it is clear and evident from the discussion that population growth, socio-economy and quality of life are significantly related, higher population growth has hampered the social and economic development of the study area which have ultimately affected the quality of life of an individual. Each block of the district has experienced population increase, but unfortunately that increase is not consistent, if compared with the available infrastructure like education or health services both in urban and rural areas. Moreover, as most of the rural people are dependent on primary activities, increase in the population in the rural sector has obviously put a pressure on local production and consumption. Consequently the quality of life is going down by pulling the socio-economy of the area downward.

Let us, think the strategy implication to recover the hurdle to overcome the situation, although it is not easy to achieve. Firstly the high growth rate which is the result of high fertility has to be reduced to make a barrier against rapidly growing population in the district. This will definitely reduce the quantitative human pressure on available resource. Secondly existing infrastructural set up of the district is not sufficient in comparison to increasing population. The availability of proper transport network and health services are meagre in the study area which need to be handled immediately.

#### **REFERENCES**

- 1.Guha S.B (1996),in "Socio-economic development in India, eds. By R.S. Tripathi and S.B.S. Parmar, Ashish Publising House, New Delhi, p-175.
- 2. Nussbaum M.C and Sen. A eds. (2001), 'The quality of life', p-5, Oxford University Press, NY.
- 3. Parfit D. (1986), "Reasons and Persons" Oxford University press, NY, P-382.
- 4. Phillips D. (2006), 'Quality of life Concept, Policy and Practice' Routledge, NY. P-62
- 5.Prasad K.N. (2003), "Indian Economy: Before and since the Reform" Atlantic Publisher, New Delhi, p-621.
- 6.Rawls. J (1996) "Utilitarianism and beyond" p-168 eds. By Sen A and William B, Cambridge University Press, UK.
- 7. Seed. P and Lloyd (1997), 'quality of life' p. 107, Jessica Kingsley Publisher Ltd., London.
- 8. Valenkamp. M and Van der Walt ( ) in "Quality of life and the millennium challenges: advances in Quality of life" eds. By Moller V and Huschka D, P-88,

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