## BANGLADESH UNIVERSITY OF ENGINEERING AND TEXHNOLOGY

GROWTHS URBAN CENTRES IN BANGLADESH
A SOCIAL EXDRUMIC AND PLANNING ANATOMY

#### A THESIS

SUBMITTED TO THE POST GRADUATE DEPARTMENT OF PHYSICAL PLANNING

IN PARTIAL FOLFILMENT OF THE REQUIREMENT FOR THE DEGREE OF MASTER OF PHYSICAL PLANNING

BY

#### SYED ABU HASHATH

BANGLADESH UMIVERSITY OF ENGINEERING AND TECHNOLOGY, DACEA.

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MASTER DEGREE

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BY THE COMMITTEE FOR ADVANCED STUDIES AND RESEARCH BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DACCA.

#### THESIS

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SYED

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Approved as to style end content by :

Head of Department

SHAHIO DAY, 1972.



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#### Preface

The topic of study a Growing Drban Centres in Bangla Desh - a social, economic end planning anatomy, issurest in nature and in magnitude, that it is difficult for the author to do proper justice with a short time period. Each and every town centre poses a real threat of problems to study and analyse its growth and development process. Each is baset with its unique physico-economic setting needs to be studied separately.

The ecope of this study was originally meent to be much wider covering the whole field of urbanisation in Bengle Deah. The muthor acknowledges his limited success and deals with the all conditions provailing before March,1971. Difficulties were there of different types and significances, like, availability of date and their relability, availability of lend-use map and their validity at the present parapective and the other limitation was time. But the greatest difficulty, which was almost insurmountable to the author, like, his other fallow seven crores Sangeless, was due to the cruel ermy crack down in Bangla Deah causing messive destruction of life and property.

The statistics of devestation, both, physical and material, are being prepared end yet to publish. But it is quite evident that the whole economic, physical and social eat up of our urban as well as rural sattlement went under a considerable termoil and catestrophic change. Every equare inch of the soil and every citizen of Bengla Deah, directly or indirectly are affected due to the ravages of war of independence.

So, any specific recommendation for future planning without the careful studies of existing situation would be subject to various limitations and

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qualifications. At this, the author expresses some general thoughts on the existing problems of physical planning in Bengla Desh without making any concluding remarks.

He also coined the so called independence of 1947 as 'partition' and the present glorious achievement as 'Independence' (from December 16, 1971), and former East Pakistan, as reality Bangle Desh.

The subject as already said, has many dimensions and the present study makes only a modest beginning in qualifying some aspects of urbanisation. The author also wishes sincerely that the study will be supplemented later by him and other interested personabities in this field with an analysis of other evailable facts to quantify all the expects of the problem and to find out an optimum solution.

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 CHAPTER : UNE

## I M T R O O U C T I O N

The People, Yes,
Out of what is their change
from chaos to order
and chaos again ?
— Carl Sendbug

Y. 0, V



#### A. BACKGROUND OF PHYSICAL FLANNING

The twentieth century will be recorded by the future historian as a magnificient ere in the history of human civilization due to its diverse contributions to the field of science and technology, Social and economic development and the strategy of political organisation resulting into a new look towards life. Ours is the Age of New Mations mass society and global interaction. The convulsive emergence of the colonics into independence and their subsequent struggle to join the rank of prosperous, powerful and passeful nations, is the most remarkable revolution of our time. A good number of developing countries is Asia, Africa, Latin America and some European countries have embarked on development planning to cross the hurdle of stationary equilibrium of under-development.

No rece is without toil. The physical, economic and social distress:

bound up with the over growth of urban agglomeration are common in all developing countries of the world, but the condition in South-east Asia is, perhaps, the worst. Poverty, hunger, disease, alum, illiteracy and lack of opportunity for self-development have been lot of a large majority of people in under developed countries. Poverty there is old, but the awareness of poverty and the hope that something can be done about it are new. In fact a revolution of rising expectation is currently sweeping in under developed world.

<sup>1.</sup> K.K.Dewett : Modern Economic Theory
(New Owlhi, 1963), P.757

Planning is an intelligent forethought and organised effort to make human life fuller and richer through the process of harnessing and utilizing limited resources for attaining the best alternatives of unlimited objectives.

Encounterplanning generally means setting up physical targets, the practical attainment of which will mean a more desirable state of affairs that attempts to have a sustained increase in percepita real income. It will halp to increase the standard of living and to attain higher social welfare which the entire system of the study of economic planning aims at.

In recent time a major constituent of that organised thinking has emerged in the name of physical planning translating the economic contraints into the physical form to estre the need of living environment. Economic devalopment has concrete manifestation in space as it involves changes in activities and their spatial relationship. For example, establishment of an economic activity, say, a factory, entails parallel investment in public utilities, road, transport facilities house, esmitation, achools, hospital, etc. As in many cases these investments are not seen as an aggregated or coordinated by a physical plan, the total capital requirements are usually under estimated, and hence physical environment starts to deteriorate. 2

I.M.Robincon; "A Comprehensive Regional Physical Planning: A Sound Pattern of Future Urban Growth in Pakieten.", (Problems of Urbanisation in Pakieten, Karachi, NIPA, 1967)

Economic plens generally concentrate on capital use. They do not include plans for the use of land, key construction material, and a desirable spatial organisation of various activities. Physical planning deals with the planning of total living environment which is composed of land, physical structures and various activities, social set up and economic behaviour of the people. It is therefore the graphic expression of a nation's economic and social policy and is related to distribution and redistribution of production phase of nation for better use of people, resources and production in a desirable physical environment.

So, the need for planning of the entire physical environment in which people live, work and seek outlets for social, recreational and cultural needs is a must for the welfare and progress of the accisty.

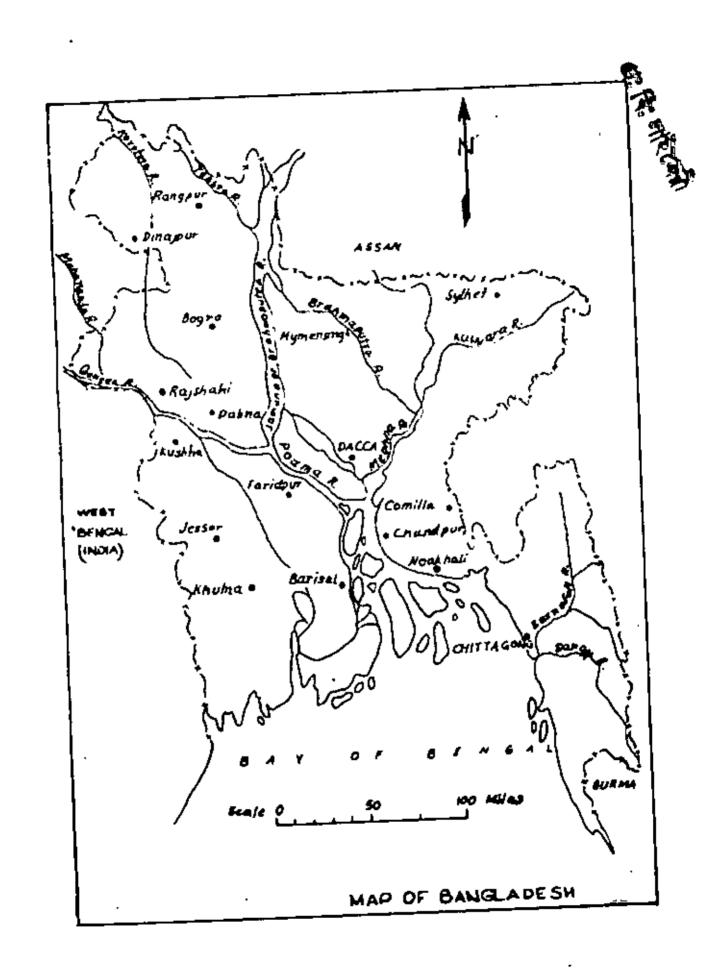
This led to the evolution of the concept of physical planning within the frame work of which optimum allocation of resources : men and material, is made, her added a new dimension to the National Planning Bodies. It is popularly regarded as the science of urban and regional growth and deathetics of civic design.

In real sense it gives proper weight to every square inch within national topo—sheet : urban and rural alike.

At first the profession was mostly considered the job of civil angineers and a bit later, of architect, but soon the students of social science and public administrators understood the real cruz of the problem and came forward to accept the challenge of providing optimum environment for living to the people. The goals

<sup>3.</sup> Ibid: A.F.A.Humsain and Khalid Shibli
\*\*Debanisation and Urban Development

<sup>4.</sup> Qammuddin Almed: Regional/Physical Planning of West Pakistan
Third Seminar on Architecture, (Dacco, Pakistan Council, 1966)



of planning is both social and economic and the ultimate emphasis is on the physical devalopment of the community through rational organisation and use of man-made environment based upon a knowledge of behavioural science, technology and insight into man's aspiration and opportunities. In a word, physical planning makes its contribution in the integrated application of knowledge from diverse disciplines.

#### 8. BANGLA DESH, THE LAND : A PERSPECTIVE

Boundaries And Spatial Relationship ( Bangle Desh, the youngest suvereign state in the world end former East Pakietan, was under the domination of Pakietan occupation forces for 24 years and over the glorious War of Independence by December 16, 1971, at the heaviest cost of bloodshed history ever recorded.

It lies at the northern and of the Say of Bengal roughly between 20°30 and 26°45 morth latitude and 85°0 and 92°50 east longitude. It is almost completely surrounded by India with a common frontier with Burms for short stratch on the south-sest.

The country has an area of 33 million acres of which cultivable land is about 22 million acres . (Map 1).

Geology And Topography: Sangla Desh consists primarily of delta formed by the thrice great rivers — the Genges, Brahmaputra and Meghma and their hundreds of tributeries. The dominating features of the topography is the extreme flatness of the country is general. In alevation the land slope gently from about 200 ft at

<sup>5.</sup> Nafie Ahmad : An Economic Geography of East Pakistan (Sec.Ed.London, Oxford University Press, 1968) PP 13-40

the morth-western boundary to 50 ft at 200 wiles and only a few feet above mean sea level at the sea coast. There are only a few hills on the north-east and mouth-east whole elevation ranges from one hundred to approximately 3,000 ft. above sea level.

The geological structures of the country is simple. It stretches almost over the great buried depression, filled with alluvium deposited by the rivers.

Seneral Problems And Economics :

(a) Agriculture: Agriculture is the dominant activity of Bengladesh and vest majority of population depends entirely on it. But the country is running deficient in food and has to depend on import of food grains from abroad. This is due to lack of irrigation facilities, agricultural pursuit is generally seesonal mostly confind to the wat sesson and optimum use of land has not been possible.

Table 1. 1 IMPORT OF FOOOGRAINS INTO BANGLA DESH

Year		Import of F	Rice Import of wheet and wheat pro-				raducts
<u></u>	From West Pakietan	From ebroad	Total	From West Pekistan	From abroad	Total	Total Food- grains (in QDO tona)
960	83	319	402	3	173	176	578
961	95	262	357	_	187	187	544
962	75 75	195	270	57	455	512	782
963	328	237	565	2	917	919	1484
964	126	107	233	-	219	219	452
1965	140	5 <del>1</del>	191	31	759	790	981
966	279	139	417		417	417	834
1967	191	171	362	-	723	723	1085
1970	130	211	341	_	804	804	1145

Source : Bengle Desh Observer, Decce, Feb. 20, 1972.

<sup>6.</sup> Ibid, pp 13-40.

All the evailable lands that can be used for cultivation are already under plow and there is hardly any scope of increasing the area. Yields are low and crop damage by floods are frequent. Feeding of an ever increasing population has been a pressing problem of the country.

Inter-relationship of industry and agriculture is very close in the country because most of the dimestic raw meterials for processing are from the agricultural fields and forests. Industrialisation has started in this country late with a skelston scale, due to the colonial exploitation of the past.

(b) Flood: Being situated at the confluence of the three great rivers ennual floods have, for countries, been considered normal in Rangla Dash. The people have learned to adapt themselves to these conditions by dwalling in habitation eet on artificial earthen mounds above flood waters and agricultural practices and cropping pattern have been adjusted to the normal conditions of rainfall and flooding?.

But when floods are excessive in depth, rise to rapidly, come to early or late or are too prolonged, extensive damage is caused. The areas inumdeted rice crop losses in must recent past floods are as follows:

Table 1. 2. FLOOD DAMAGES IN BANGLA DESH

FLOOD DAMAGES IN BANGLA DESH					
Year :	1954	1955	1956	1962	1970
Flooded erea (in eq. miles)	14.200	15,000	13,700	13,800	14,600
Estimated rice crops losses (in Mln.Rs.)	120	129	218	408	475

Source : The Pakistan Observer, Dacca, Oct. 12, 1970.

<sup>7.</sup> EPWAPMA : Meeter Plan, Vol. 1 (International Engineering Co., California)
Dacca PP 3 - 36

(c) Eyelone and fidal Waves: Eyelone and tidal waves in the costal district is another measing problem in the country. The cyclone stroms generally occur before and after members season. They originate from low depression in Bay of Bengal created by warm southerly air mans from the sea meeting colder northerly air mass. Winds over 120 mph with storm surges gipto 20 ft. above the sea level are common. These cyclones cause wide spread devestation in their waks with coloscal demagn to crop; property, loss of cattle and human life.

Table 1. 3 CYCLONE IN THE DECADE (1960 - 70)

Year	Time of occurance	Velocity (mph)	Hight of the tidel waves	Loss of lives	Remarks
1960	Twice	130	210	5,149	<del></del>
- <b>,</b>		130	15		
1961	Once	92	10	11.486	
1963	Once	135	12	11.520	
1965	Twice	190	-	19297	
				873	
1966	Once			15,000	11 lacks people affected
1970	Twice	703	20	309	Loss of Property
		120	20	2,000	Re.185 crores.

Source : Pakisten Observer, Nov. 14, 1970 (Dacca )

The figures ploted on the two above tables are by no means exact but they provide an indication of the exhaustive losses of lives and properties. During the year, '70 the province has been badly affected by cyclone twice within a period of month.

Social Scape : Sangla Deah an overwhelmingly agrarian and alarmingly over crowded land, socio-economically is entering a new age - the age of urbanisation, main roots of which are the natural growth of population, industrial progress of the country and the influx of Muslim immigrants from adjacent territories of India mostly clustered around the urban areas. The society aspires higher living standard, yerns to throw off economic backwardness, illiteracy and prevailing gross inequalities in status and position in and abroad at individual and national leval.

In Bangla Dash society to—day, organisation and value judgement are simultaneously tending to alter the traditional society. Conflict and clash between traditional and emerging attitude and values have occurred and these have touched all most every aspect of the society. Seneral adjustment and accommodation process is going on. In fact, growing urbanisation with its virtues and vices, families with its structure and role, community and its ties, social security and class stratrification are all passing through a transmiture tory pariod. Under the situation a persistent problem is occurring in the minds of thinkers and planners that how this transformation can be made through a process of balance and harmony.

#### C. DBJECTIVE AND SCOPE OF THE STUDY

For Bangla Desh, there has been hardly any study made about growing urbanisation from socio-economic and specially physical planning point of view.

Although a considerable amount of studies have been made concerning economic development in under-developed countries where Bangladesh has been one of the

elements of discussion, but there is hardly any proper ettention made, specially for Bangle Bach in relation to her environmental growth. Apart from this, evailable books and studies mainly deals with economic aspects of country's development, its difficulties, potentialities and its benefit for the sociaties concerned, not in the frame work of physical planning.

It is rather a templation to study urbanisation and enalyse its development under broader framework of sociology, economics and physical planning.

The real problem now poses before the development planner is to ensure maximum functional effeciency of the region in allocating resources and to establish a balance between nature and men. Enough experience now exist to make it clear that regional and urban studies and plans are essential for a variety of reasons: to achieve growth targets, to close- up the gaps between growing points and lagging regions to increase effeciency in infire-structure investment, to maximize beneficial effects of urbanisation and to produce more adequate and less expensive environment in places to mark and live.

In view of the situation, it has become rather felt-need of the hour to investigate and analyse the social, economic and physical espects of urbanisations in Bengladesh to find out the better alternatives for the present problems and future progress.

The present study is primarily an attempt to :

- Olagonise the encio-economic pressure for urbanisation;
- (2) Drew the pattern of urban growth ;
- (3) Sketch the problem of urban-structure, its regional communication and transport system; And
- (4) Summarise the whole situation.

<sup>6.</sup> L.Rowdin : Urben Plenning in Developing Countries (U.N. Monograph, 1965)P-2

#### D. METHODS OF STUDY

Studies in urbanisation have been handicapted by the general lack of a method of measuring or clearifying the functions or activities of towns. Occupational pattern of the people, an important criterion to determine the functional hierarchy of the towns, has unfortunately not been counted in our Cansers Report, 1961. So, the study has been based mainly on historical method as sample study providing validity to this dynamic type of problem would involve a greater magnitude of work which is beyond the present resource and time. Modern urbanisation has been a complex problem in Western countries. Though our background and pace of grogress is quite different, yet a marked change is there which gives us inalght and clus to explain our situation. Within the apparent diversity between the less two decades, comparision and explanation gives us understanding of common strategies of urbanisation.

Books on this subjects deal with the problems of urbanisation in Western

Societies as well as on under developed countries of similar nature to ours. As my
opportunities were limited to deal with many books, particularly on Bangla Desh. I

attempted to supplement the difficiency by pamplets, name reals, name paper editorials,
Government publications and office files which deal with the problems under study.

To make some assertions and arrive at conclusions. I have used statistical data from Cansus Reports of Govt. of Pakistan, Five Year Plans of Pakistan and some recent counts made by other Govt. departments, as for, The Election Commissions, Bureau of Statistics, Malaria Eradication Office etc. Reliability and validity of the data used in the Thesis may be questioned by many. But to do better was really beyond may present means, and do hope for the empirical studies in future. I have used mostly library materials from the Library of Engineering University, Duccas Cantral Public

Library: USIS Library: Smitish Council Library: Science and General Library of Dacca University: National Institute of Public Administration, Dacca.

#### E. CONTRIBUTION

This study, I hope, would help us to understand our social and economic needs, also and objectives of proper planning in the context of prevailing situation. It gives us to perceive dynamic nature of urbanisation which will help, in turn, to project future course of ection.

This type of study when broadly based may help the economic planner to make order of preference for development; the Government to initiate policy matter with the understanding of physical needs of the people, scholars and intellectuals to feel the later trend of the society and public in general to be conscious about desirable objectives and their respective role for achieving such goal.

It is, above all, expected to be regarded as a document of urbanisation in Sangla Desh recorded extensively from the year 1951 to 1971 (before March 25, 1971) which would help the future historians and excial eclentists to make a comparative study on Fost War Sangla Desh.

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#### CHAPTER - TWO

DIAGONISIS OF SOCIO-ECONOMIC

DEVELOPMENTFOR

URBANISATION

From the dawn of Industrial Revolution, till today, great many changes took place in the process of socio-economic development of different, urbanisation had been playing, still playing in developing economics, the most dominant role to sould the destiny of nation's development pattern. During the 18th and 19th centuries a series of inventions and discoveries in the fields of inanimate energy, technology of mass production, quick and efficient transportation and communication etc. ushered in the modern industrial age, and the temp of modern industrial age, and the temp of modern industrial followed soon. In Asia the tempo come late and still later it came to Bangla Sesh.

Mistorically, the land of Bengle Desh remained purely an agricultural one even in the late 16th century. Ouring the Mughal period Decce was the only centre attracted some urban population. Most of them balanced to the Mughal Army, the artisen and service population retained by the ruters excund them. Chittagong at that time was a small port and trade centre which used to be visited by the Arebs, Portuguese and English traders. Ogring the latter part of the 16th century when the Sritish rule was established in Bengel, the centre of attraction of trade, commerce; industry and administration started shifting from Decce to Calcutts. The once flourising cottage industry which reached its zenith during the Mughal period gradually declined with the establishment of Cotton textile industries in Great Sritein and also in Indo-Bangla subcontinent. Calcutts was the main commercial centre and the region now comprising Bangla Sesh turned into an agricultural remasterial supply bess for Calcutts. During Sritish period the seat of administration of each of the administrative region developed into a urban centre where professional tradfers settled and educational institution grew up. One to unsatisfactory

communication facilities and absence of industrialisation, large scale urbanisation could not take place  $^{1}$ .

After so-called independence in 1947, Dacca being the capital of Bangladesh attained greater importance and few other urban centres of the country were also coming into prominence owing to their growing functional aignificance.

#### A. HIGH-RATE OF POPULATION GROWTH :

"Population influences the productive forces of the country in various ways such as through labour requirements, its skill and quality, markets and their capacity stc. The nature and extent of material development and created upportunities, in their turn, exert a profound influence on the population, and in the process of continuing adjustment, interesting demographic shapes and patterns emerge". Too many people in a limited physical resource means limited scope for development of a country. The pressure of population growth is one of the most important factor that affects to determine the course of human settlement. The agrarian Bangla Dash is obviously a victim of victous circle in which population density, fragmentation of land insufficient soil and mining resource, lack of capital and thereby low productivity drives the people away from their rural hamiets to find means of livelihood elsewhere: they flock together in and around urban/industrial centres and urban centres emerge.

H.A.Zeman : "Population Trend and urbanization in East Pakistan".
 Urbanization in East Pakistan ( 1967, NIPA, Karachi) PP 91-92.

Nafis Almed, DP, Cit, P 283.

Bengle Desh according to 1961 census, abode of 51 million nationals, of which 14 thousand non- Pakistanis is extended over an area of 55126 square miles. But of the total area of 55126 square miles, 3205 miles is covered by rivers and foreshores. Thus density of population is 922 per sq. mile on average and the highest density is 1786 per sq. mile, of which only 5.19 percent population live in large cities and towns, and the rest 84.91 percent of the people lived in 61,4424 villages where population range varied greatly. Obviously this is one of the very densely populated area of the world. Of the total population almost 85.26 percent of the total labour force constitute agricultural labourers. Agricultural Census Report of 1960 reports that in Bengladesh a vest population of 3.88 crores farmers live on 191.4 lakh acres with an average holding of only 3.1 acres per family. This too is fragmented in most land under plough is extramely limited. A total of 1.6 million scree of culturable wests land can be tapped with difficulty and cost but at the same time allowance has to be made for growing encroschment upon agricultural land for non-agricultural purposes.

According to the planning Commission, population of Bangla Desh is increasing at the rate about 2.7 % which means a major repercussion of this increased population will be on agriculture. This definitely represents a vacious circle, and it is clear that agricultural sector itself is not in a position to feed, nor to speak of the increased population in future, but of present day. Surplus population is seriously threating economic development of the country.

<sup>3.</sup> Menager of Publication : <u>Census of Pakistan (Karachi, 1961)</u>
Vol-2

More population means were people to feed, to educate, to provide hopsing, health and agnitation and amenities of life. This means were and were land goes out of cultivation for housing or is devoted to food crops for subsistence than to export crops for surplus investment. The economy can not compete even with other agricultural countries with greater equipment and technology per worker, unless it introduces concentrated pattern of living in a planned way of human settlement and providing the scope of intensive utilization of non-material stock, i.e. human resource.

#### B. INCUSTRIAL DEVELOPMENT IN BANGLA DESM ECONOMY

Industrial development has a necessary and ultimately a large role to play in any sound economic development program. An under-devaloped country lacking in resources must build industry largely besing on the strength of what it has that is agriculture. And "the improvement in the productivity of agriculture is one of the most solid means of promoting industrialization; infect unless agriculture does not modernise substantially, industrial expansion in most under-devaloped countries is likely to be cut short by lack of markets, for the great majority of the people will not have the purchasing power, conversely, agricultural improments can not go very far unless there is industrial development to take up the released man-power and to provide a solid technical base for the equipment and services essential to modernise agriculture."

<sup>4.</sup> Eugene Stately : The Future of under-developed countries(London) 7-304.

Without being such biased for or against industrialization, we can safely say, that both industry and agriculture should remain side by side in under deveioped economy as a complementary to each other and priority should be given on the basis of increasing marginal rate of contribution to the national economy. The Industriel organization during Mughal period clearly reflects the basic features of the agrarian order, the most important product of which was the textiles desiving raw row materials from the local cotton. Village industries were meant for catering the meede of welf sufficient village communities where majority of the artisans were disguised unemployed labour. The artisans were maintained by the village communities by rent free homestead and agricultural lands. Under this scatted condition there was hardly any incentive for improving the skill or technology as there was no threat of competition and the profession was hereditory. On the other hand urban industry was entirely dependent upon the patronage of the existocracy and created to their lexury demends. The Indian urban artisan ettained high skill of profeciency which won fame for them and for their products outside India. Indeed Indian craftmanship was ranked highest in the world of the period; handworks in wilk, cotton, ivery, gold and militar had attained such technical excellence unknown in the West.

India in the 18th century was manufacturing as well as agricultural country.

Along with manufacturing industries, commerce expanded so such that Indian luxury products gained market in the world at large and thus 'urban trading centres had arisen as a result of exchange and export rather than for local use'.6

<sup>5.</sup> S.R. Godgil: The Industrial Evolution of India in Recent Times(Gokhala Institute of Politics and Economics, Poons, 1945) p 134.

<sup>6.</sup> A.K. Nezmul Kerim : Changing Society in India and Pakisten(Decca, 1961)p-41.

change in British Colonial policy to find out expanded market for ever increasing bulk of industrial products. East India Company and the British Parliament following the selfish commercial policy discouraged Indian manufactures in the early years. By dint of political suprement they hold the right of monopoly of exploiting the country and made India sub-survient to the Industries of Great Britain. Indian artisens were forced to work in the company's factory. Prohibitive teriff included Indian silk and cotton goods were admitted in India from of duty or on payment of nominal duty. This is rather a painful episode which can explain the aconomic condition of the Indian people of 19th century and their halpless dependence on agriculture. Thus immense western elements were imported to disrupt the old society but not to bring rapid economic advance.?

In the early twentieth century, Calcutte and other matropolitan cities of India made a remarkable progress in manufacturing industries. The European capital invested in the various branches of industry including jute on the bank of Moogly river. 'Thus Calcutte, the hub of European enterprise, indirectly prevented development elsewhere, particularly in East Gengal Area.

So, during the last 200 years of British occupation this region fed the more industrially developed areas of Indian subcontinent with men and materials remaining itself poor, famished and underdeveloped.

<sup>7.</sup> John Beauchamp : British Imperialism in India (London, 1935) P-16

<sup>8,</sup> Nafis Ahmed : Dp. Cit, P 217.

Since partition successive national Govts, contributed towards the sconomic growth though the secunt of success was not much significant. The page of development was accelerated to a significant extent since Ayub regime took over the power in 1958, largely due to the determined pursuit of a number of development oriented policies. Segining with the first five year plan a sustained effort for all round development of the country's economy has been made. With the successful implementation of the Second Five Year Plan, trippling the industrial investment, urbanisation gained a new summentum and the tempo continued for the successive plan period. Ofcourse, 'the performance of the industrial sector in the Third Plan. Though substantial, has not been entirally upto the expertation. The plan has had a chequared career. It got off to a difficult start in 1965-66 and the page of investment and production was again upset by the disturbences of 1968-69'.

Bangla Deah Industrial Development Corporation (former EPIDC) traces its history from 1962 being bifurcated of development in the country. This proved to be a major step towards the industrial growth hars. The capital investment by the corporation ushered a new are of industrial growth, both in the field of consumer and capital goods.

From the above study it reveals that the wave of the Industrial Revolution effected very late to this part of the subcontinent and as a result the
demographic pattern of human settlement in urban areas developed insignificantly in comparison to the countries emjoyed major industrial development.
Kingeley Davis notes ......

the vest majority of the inhabitants are city dwallers, meanly 60 percent of the people in the United Kingdom live in cities, as do nearly 70 percent of the people of the United States. Contrast this with the preindustrial civilized world, in which only a small, socially dominant minority lived in cities10.

The magnitude of urbanisation has not been made here any substantial progress.

The traditional method of agriculture and impature state of industrial development are present in our economy due to socio-aconomic causes. The world has changed so transmitted that to keep pace of change it has become imperative on our part to reshape our underdayaloped agricultural society into a well belonce develop/agro-industrial society.

#### C. EFFECT OF PARTISION

So-called Pakistan was born out of the historic struggle that Muslims of this subcontinent fought for finding a suitable home for their national culture. The Muslim majority areas of the subcontinent which is now composed of two asparate romes was termed as Pakistan on the 14th August, 1947, as this event was termed as partition by common terminology. Since the country was originally and unit its bifurcation led to dislocation and disturbances in all aspects of economic life, especially in Endustrial activities. The economics of India and Pakistan were complementary, since during the British period some industries which were developed by the colonial administrators were located at the area which now comprises Indian territory.

Government of Pakintan : The Fourth Five Year Plan (Islamabed, 1970 ) P 355.

<sup>10.</sup> Gideon Sjoberg : "Origin and Evolution of cities" (CITIES, Scientific America New York, Vol. 213, No.3, 1965) p.37.

The area now marked as Bangla Seah (former East Pakistan) was the supplier of raw-materials and labour. In reality, the entrapranuousl ability, technical personnal, skilled and unskilled labour employed in different industries of undivided India used to come from different parts of the country and there was no one part which was selfaufficient in this respect.

After pertition almost all the urban areas of Bangla Desh were affected due to emigration of Hindu marchents, traders and entrepreneurs of some textile mills atc. The vacum this created in the population of Bangla Desh was filled up to a great extent by the Mumlim immigrants from India. This huge influx of refugees were mostly settled in an around the different towns of Bangla Desh, among which Decca, Chittagong and Rajshahi absorbed the larget number. As result, 1951 Census of Pakistan showed sharp upward trend of population in some towns and cities of Bangla Desh.

### D. DEVELOPMENT OF TRANSPORT AND COMMUNICATION

The origin of growing urban centres, as we see, has the product of agricultural surplus, and its accumulation in favoured location - towns or cities. This adequate food surplus was the basis of emistence of towns, and the ratio of food producers to non-producers remains stable for a long time. People living in different early cities had no communication and very limited transport facilities. Residential mobility was hardly imagined and one knew nothing about the men of next cities. The area of urban space was limited with amonymous crowdy living at the centre.

Our urban life is a reversal of that ancient static order and brought changes in work and mobility. It is no longer an abode of leisure class, but of a work-place for non-agricultural pursuits. Modern method of transport and communication work make it possible to reside further and participating the urban centre activities. Thus a zone of upward transition is created at different region and sub-regions breaking the barrier of rural-urban lives. This has been responsible for the creation of extensive suburban tracts of housing and more recently has begun to inject a considerable elements of townsfolk into rural setting, and new contacts widening the zones of acquisition and exchange call for more frequent and rapid communication.

During the British rule in Indie, the growing commercial needs required better transport and communication facilities and Calcutta being a premier port and hub of administration, influenced its development focusaing towards this magnet. Road connexions between Calcutta and East Bengal centres such as Dacca Jassors, Khulna, Faridpur etc. were built up and existing water transport facilities were improved to enable the hinterland to direct its goods to Calcutta.

ff. Nafia Ahmed : Op.cit. F-250.

Partition of the subcontinent coused a great disruption to our transport system. Sangledesh was left with only a smell port as Chittagong with limited facilities. Moreover, owing to the strain of the Second World war years, all forms of transport in Sangle Dash were badly depleted as the area was in front of supply channels for the war operations against the Japanese on the Surma-Asser- Sangal front<sup>12</sup>. Immediately after partition the Government started recomstruction of transport facilities connecting the important centres with urban core and providing improved facilities for water and sirports. So, the improved means of transport and communication, one of the important factor, reaponable for urbanisation, does not traces its rich history in this area back to partition. Still many rural areas are left hopslessly to contact with neighbouring communities or trade centres.

## E. SPREAD OF EDUCATION, TRAINING FACILITIES AND SPONTANEOUS TREND TOWARD URBANISATION

Economic development in the modern world demands educational facilities at every level. This is because modern industry does not only demand skilled labour but also efficient managerial, administrative end angineering personnel. Since development of social infrastructure is a sin-que-non of economic as well as industrial development, the standard performance of teachers, doctors, nurses, social workers are essential. So there is need for training in those suxiliary apheres.

<sup>12</sup> Ibid, 250.

Realising the great need for development of human resources, Government in its successive plans spent a considerable amount of money on education and training schemes. Newly established general and technical universities along with angineering and medical colleges at different cities/towns, drawing a good number of students and staff from different parts of the country, working as a great fillip towards urbanisation.

Education department in Bungla Desh has taken the responsibility for running vocational schools. The Directorate of Industries and Rural Industrial service of Sangla Desh emall Industries Corporation are organising technician and crafts men level training centres in the country. The latter has been found keen in carrying the training facilities in the remotest rural areas and have extended facilities to women in some suitable trades. In addition Bangla Desh Industrial Technical Assistance Centra has been opened at Dacca to offer short course training to technical men in job.

Besides the promising economic opportunity of cities, not exists in rural environment, the charm and glampur of urban life continues to draw people to cities, 'once they arise in the city and become involved in the struggle for employment, they encounter endless difficulties, but possibility of finding employment is always present.

# F. EFFECT OF URBANISATION ON ECONOMIC DEVELOPMENT

Positive Effect: Urban centres grow up largely because people want to be close to a variety of facilities - business and professional contacts, educational institutions, recreation and cultural facilities requiring participation

participation of large numbers of people, specialized shops and other people with similar tasts. Some writers uphold the idea that the correlation of industrialization and urbanisation is not perfect in any event. Large cities have developed in the past in many countries as 'cultural' and Government centres or as overgrown villages. But the future economic growth will be centred in urban areas, simply because they provide both pools of labour and various public facilities. Continued urbanisation, including the growth of new population centres, is retional to be expected.

The urban centres provide both the ingredients of industrialisation:
Supply of skilled labour force and public facilities conducive to the favourable environment for investment. This is the simple reason why urbanisation and industrialisation go together. The tendency toward agglomeration of services in cities, the economics of Scale involved in urban growth and external aconomics created for other activities by each new enterprise or service established in one town are well known.

One important point is perhaps needed to stress that highly trained people i.e. managerial class, engineers and technicians, siministrative personnels of middle and high position in either the public or private sector have a great psychological inclination to live in or near cities. Even if the make of a strong resource potentiality, an industrial unit grows at a non-

<sup>13.</sup> Benjamin Higgins : Economic Development ( 1968 London) P-

urban area, public facilities are put there to give impeters for smooth functioning of the industrial business and the erea is draw closer to important civic centres. Growing industrial— urban centres in and around the environs of Dacca may be set as good examples in this life. (Ref. Map. 2)

Negative effect : Besides the walknown social problems of industrialization or urbanisation. Like delinquency, drug addiction, alcoholism, sex, gambling, beggery, crime, disease; and frustration in family bond and cultural pattern, some important fundamental problems, like unemployment and underemployment, ill housing and alum dwalling and socio-political unrest seem to be worth discussing.

Since the World war II, for substantial reason well known to most of us, cityward migration has increased to the point of pain in many regions. The problem aspect of this sudden flight from the land is most scute in the developing countries, where the scuteness of the situation may be measured by the numbers alone, that is the employment needs of a country are to be measured by unemployment in a city excessively burdened by in-migrants.

Inspite of all the defeciencies in the employment statistics it is evident that the trend of growing unemployment in Bangla Desh is not likely to reverse itself in the near future. Economic frustration, unemployment and underemployment in urban areas are more fetal than in village. It makes political enterprise more desired as a means to status and power 14.

<sup>14.</sup> Senti Tangri \*\*Urbanisation, Political Stability and Economic Growth\*, India's Urban Future (Ed. by Roy Turner, Univ. of California Press, Surkeley, 1961) PP 192-212

From the Census Report of 1960 (Pekistan Housing Census) and from the experience of other developing countries in recent decades, it is observed that housing conditions get worse in urban areas. As congestion and slums grow, the need of to spend is more on urban areas to provide health and emenities.

Cities give birth to political or other leaders; or daw them there.

A major consequence of western oppression has been the growth of nationalist and then socialists ideologies in the Afro-Asian countries. The constant socio-economico- political discontent, greatly manifested in urban centres, cause troubles in decision making process and smooth implementation of the public policies, ratarding economic growth of the country. Its consequence is far reaching, may frustrate the whole socio-economic structure of the country. So, the desirability of the size and pattern of urbanisation is an important element of the national planning matrix. The development cannot be akewed down on those ground. Hindering the growth cities will entail a great westage of human resource. Stability and sustained growth must be attained through the process of planned investment and distributing maximum services for the majority of the society.

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# CHAPTER - THREE

PATTERN OF URBAN GROWTH

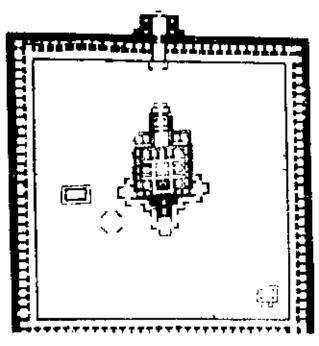
#### A. OUR URBAN HERITAGE

The urban phenomenon is, without doubt, one of the most striking features of contemporary civilization. The history of Bangal is recorded with a rich tradition of her twon building since the 3rd century B.C. There are evidence to show that there existed a chain of planned cities with complex structure.

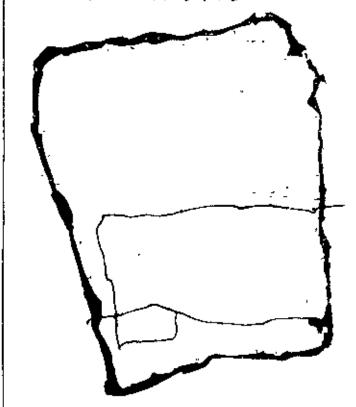
\*There were towns of considerable size in ancient and early
mentival times which served as centres of administration or seats of pilgrimage or commercial activity because of suitable location and facilities
of transport and communications. For example, the famous towns of Mahasthengarh,
the ruins of which lie on the bank of Karatoya river about seven miles north of
Bogra has also been identified as the old city of Faundravardhams. It appears
to have flourished from the early Christian are till the Muslim consequent.
Panchanagri in Dinajpur (A.D. 448), Paherpur or Sampurs in Rajshahi(Fifth
century), Navyavakasika (perhaps in Dacca), Samatata (South-meastern part of
Enst Bengal) rose into prominance. Other contemporary cities or those of slightly
later development were Vikrampur of the Sana Kings in Dacca district, Myssea
Maynameti near Comilla and possibly Chatigrams (Chittegong) were centres of

<sup>2.</sup> R.C.Majumder: History of Bengal, Vol. 1 (Dacca, 1943), P.643

BUDDHIST MONASTERY 107H CENTURY AD



HINDO CIVILIZATION FTH TO 12TH CENTURY AD



tended to serve a variety of functions being military, political, administrative, commercial or religions centres as wall as catering for industrial needs. \*3

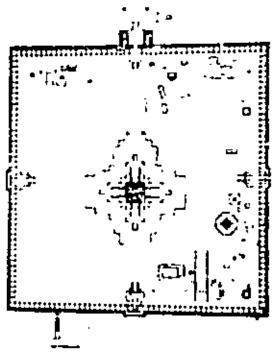
The archaeological finds at Mainemeti, aix miles west of Comilla, reveal that Maynemati was the capital of Chandra Kings who were Buddhists and suled from 900 to 1050 A.D. It was then called Robitogizi.

Pundranagar (Mahasthangarh) was a flourising city by the 3rd centry B.C. and remained the earliest organised city so far in Bangla Deah. According to the report of Hien-Tseng, it was a prosperous city around 630 A.D. His report also states that there was a gigantic temple at Basubihar, three miles West of citadel, built by Asoka on a relic of Lord Buddhe. Paharpur monastery is a significant example of Buddhist architecture. Buildings were planned to accommodate large groups of people and were usually laid on a rectangular grid dominated by an acropolis containing a monastery and a stupe. Excavations at Maynamati also show the same formal development as at Paharpur. Hindu architects responded to their physical environment intelligently and adopted the form which was authentically Bengeli. The Muslims start with fortified buildings and walled cities with the special elements of architectures arch.done and

<sup>3.</sup> Nafis Ahmed : Op.cit. P. 74

F.A.Khan : New Archaeological Discoveries in East Pakistan (Decca, Pub.Deptt. Govt. of E.P. 1955), P. 4-5.

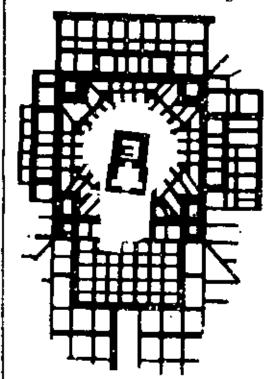
PLAN OF PARAROUP MONASTERY.



EXCAVATIONS AT GOKUL

HINDO TEMPIA REMAINS OTH TO 2 TH CFN TURY AD

BUDDHIST MONASTERY. BTH CENTURY AD.



BY COURTESY'S ARCHAEOLOGY DEPTT. GOVT. OF BANGLADISH minerate. Ouring the early British rule, development in the field of architecture and planning in Bengal was hardly noted worthy. However about the beginning of the twentieth century we find some response to local environment in colonial architecture<sup>5</sup>. (Fig -1 and Fig.2)

Though the importance of twon building was recognised by the Gritish rule lete, the process of unbenisation was getting momentum much earlier.

"Clives opines the city of Muraidabad" was in his days more populous than
London and .......... Bengal at his time contained big and populous cities.

After the solid foundation of the British rule laid over the subcontinent, 'the only cities to which growth can be definitely ascribed were the ports of
Celcutts, Bumbay and Madres and a few places in the interior, like Cawnpors,
but, on the other hand, there was certainly a great decrease to be accounted
for in the population of a large number of old capital town, e.g. Decca.

Murahidabad, Lucknow etc., Industrial development in this region during the
last two hundred years was almost nil. With the abolition of courts the demand
for luxury goods became fade and art industry like Deccai Muslin, faced a great
problem to service in competition with the cheap mechanical products of the west
and ultimately due to the repeated attack on them, they succumed to ruination.

But a good number of district and sub-divisional head quarter towns, with a much

<sup>5.</sup> A.H.Ahmed : Architecture in East Pakistan upto 1947 (Dacca, Third Saminer On Architecture, Pakistan Council, 1968), P.87.

<sup>6.</sup> D.R.Sadgil : Op.Cit. P-

Now in West Bengal, India.
 Ibid.

smaller settlements as compared to their present configuration, were surviving to catro the socio-edministrative needs of the region in a limid spirit.

Orber Planning in modern line has very much lagged behind the rate of population increase and technological advancement. The history of physical planning in the present era, for Bengla Deah, is very brief. Town planning in its rudimentary form started only after partition and continued in same form during the first decade. From 1958 due to the growing demand of land for various development purposes planning started gaining some importance.

## 9. URBANISATION : WHAT IT MEANS

Disperiention is a process through which an increasing proportion of people live together in a concentrated locality having continuous collection of houses and enjoy in common the benefits of certain public utilities. Quantitively apeaking, urbanisation is a numerical concentration of people having more or less permanent settlement. Qualitatively, it is a progressive shift towards never values of life. As in numerical size there is no hard and fast line of demarcation between urban and rural, similarly, the qualitative difference between the urban and rural way of life in marginal cases tends to diminish. Still there is a minimum size below which enjoyment of public utilities is not justified by economy and effeciency. This may be regarded the minimum eize of population to be termed as urban.

<sup>8.</sup> Urban Development Directorate: Physical Planning Progress (Oecca, Govt. of East Pakistan, 1968) P-9

The standards applied for distinguishing an urban area differ from country to country and would seem to be largely based on the prevailing conditions in the country. The basis used in Pakistan for the division between rural and urban population is the population size or of administrative unit (Manicipality/Town Committee) or both. According to census definition of 1961, urban areas included all municipalities, civil lines and cantonments not included within municipal limits and any other continuous collection of houses inhabited by not less than 5,000 persons.

In deciding the urban character of a place certain characteristics, e.g. common utilities, roads, senitation, Schools and minimum a college, and specially non-agricultural occupation of the people are also looked into.

Thus as a special case, a few areas which had these urban characteristics but had less than 5,000 population, were declared urban areas. In the present study, some near-urban centres, from population point of view have been given the status of 'town' as they are found otherwise satisfactory with a remarkable potentiality for future development. The basic characteristics assumed here to denote a settlement as urban area : sizable population with a non-agrarian means of livelihood and socio-cultural pattern is fundamentally different to those of rural <sup>10</sup>.

<sup>9.</sup> Manager, Government of Publication : Consus of Pakisten1961, (Karachi) Vo. 2

<sup>10.</sup> Cenaus of Pakistan, 1961 .

## C. URBANISATION IN THE PRESENT CENTURY

Dirbon population is spread very unevenly over the world Surface, but the regions of extreme urbenisation are few and restricted. It is a varying mixture of economic and social forces which decides the pattern of urbanisation in the world to-day. A century and a half ago only about 2.4% of the worlds population lived in town, in 1850, it raised 4.3% in 1900 it was 9.2% and 1950, 20.9%. It is estimated that in A.D. 2,000 it will be 45%. At present more than 35% of the world people living in urban environment and in 2050, it is expected to be 90%. Orbanisation decreasing a little in the older industrial countries but hardly enough to disturb the general upward trand 11.

(Ref. 3.1.Teb.)

Urbasisation in real sense in Bangla Desh started with the dawn of this century. Municipalities which nurtured training in salf- Government formed the nucleaus of politico-economico-administrative units. Facilities for education, acope for business and commercial ectivities and extension of public utilities came with the edministrative set up to catre the increasing needs which in turn, attracted the people to those centres. Gradually the system of transport and communication developed as flourishing trade and commerce needed and justified it. In this way a built in force was created and the growth of towns sustained somehow by themselves.

<sup>11.</sup> Emrys Jones : Towns and Citles (London, Oxford University Press, 1966) P-13

TABLE 3. 1

PRESENT HWR URBAN WORLD (In order of Rank)\*

Name of the country	Percentage(≤) of Urben Pop <sup>n</sup> . (around 1961)
England & Wales	80-0
Igrail	77.9
Dermerk	74.0
Sweden .	72.0
U.S.A.	69.9
Cenada	69.6
Venazuala	67.2
Baharin ·	65.5
Japan	63.5
Union of South Africa	48.3
Hungery	39.7
Ireq	39.2
U.A.S., Jordan	37.7
Spein	37.0
Colombia	36.3
Srezil	36.2
Tuniela	35.0
<b>Bulgeris</b>	33.6
Algeria	32.6
Rumenia	31.3
Ногоссо	29.3
Pakistan (without Bangla Desh)	22.5
India	18.0
Indonesia	14.8
Bangla Desh	5.2
Nepal	2.8
Uganda	2,4

<sup>\*</sup>Source : Kingaley Davis : \*The Urbanisation of Maman Population\*, CITIES, Scientific America, N.Y. 1965.

-- 34 --TABLE 3. 2.\_\_

## PERCENTAGE OF URBAN POPULATION TO TOTAL POPULATION (BANGLA DESH)

1901	2,43	1921	2.3	1941	3.26	1961	5.2
1911	2.54	1931	2+62	1951	4.34	1971	7.8

#### TABLE 3.3.

1901-11	14,96	1921-31	22.55	1941-51	18.41	1961	5.2
1911-21	8.8D	1931-41	42.64	1951-61	45.11	1971	7.8

#### TABLE 3. 4

# DECENTAL VARIATION IN NUMBER OF URBAN CENTRES WITH POPULATION LOAD OF OIFFERENT SIZE CLASSES

Year	5,000	•	10,000 <u>-</u> 20,000	20,000- 50,000	50,000 <u>-</u> 1,00,000	1,00,000 and over	Tot#1
1951	7	17	15	20	3	2	64
1961	9	21	16	73	5	4	78
1971	B	22	25	28	9	\$	97

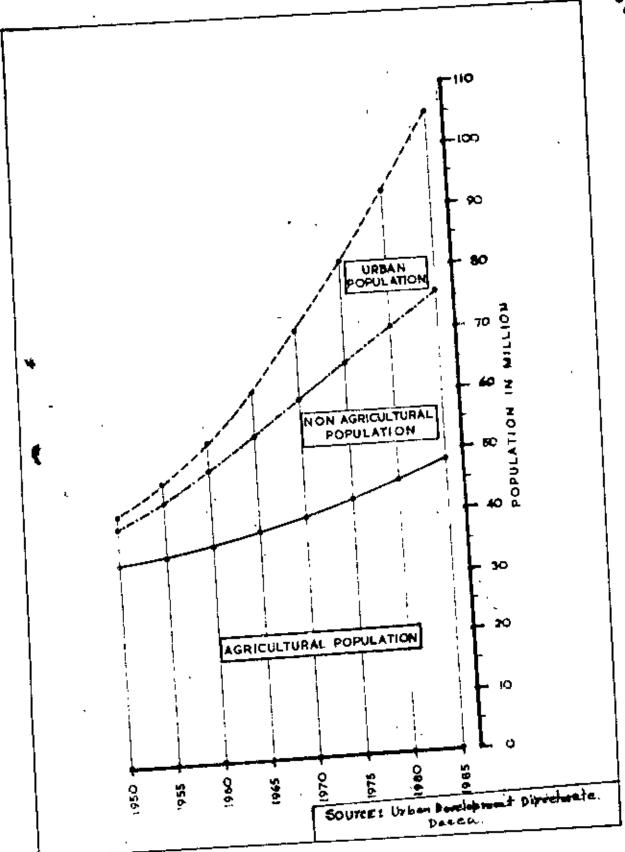
#### TABLE 3.5.

INCREASE OF RURAL AND URBAN POPULATION IN BANGLA DESH (1901-61)

Decade	Munarical	Increase (	900)	Percentage Incresse			
	Total	Ruxal	Uzban	Total	Rurel	l Urben	
190-11	2627	2522	105	9.08	8.96	14.96	
1911-21	1699	1626	71	5.38	5.29	8.80	
1921-31	2250	2152	198	7.07	6.65	22.55	
1931-41	6393	5952	461	17.96	17.81	42.84	
1941-51	-65	~3B4	283	0.15	0.86	18.41	
1951-61	<del>8908</del>	9087	821	21.24	20, 16	45,11	

Source . Table 3.2, 3.3, 3.4, & 3.5 Compiled from the following mources:

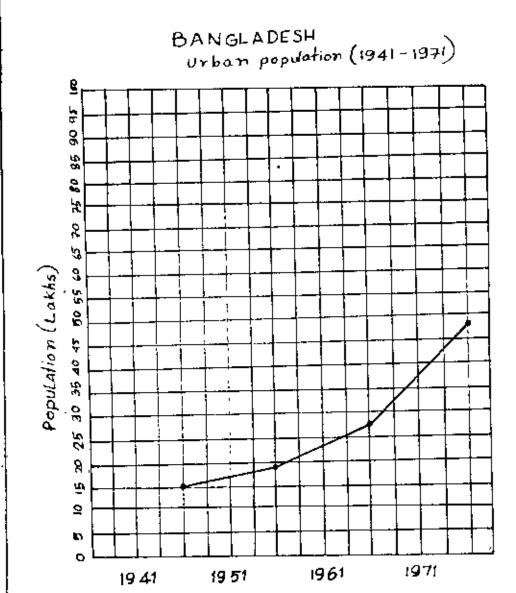
- 1. Census of Pakisten, 1961 Va.2.
- 2. Provincial Election Commission's office Rajarbag, Decca.(Off.files)
- 3. Project of Power Survey : Industrial Adv. Centre of Pakistan
  - Motijheel, Decca. File No. PL205(Data Babk)
- 4. Urban Development Directorate, Dacca, Bengla Desh.



lopeent of urbanisation of Bengla Oesh. The increese in the proportion of the urban population is more or less steady alone 1901 except in 1911 when the cities were depopulated due plague epidemic and in the decade 1941-51. This period sew the second world war and the colossel femine of Bengal. These two incidents are turning point in the history of urbanisation in Bengla Desh In early 40 people left cities for the fear of bombing and other war ravages, but soon the femine brought thousands and millions of hungary villagers to the cities. Rurel aconomy being completely shattered, people left villages with a hope of job opportunities and better prospect for life in urban areas. There also they met the most unfortunate fate and surremdered themselves to death. In the decade 1941-51, though the absolute population marked a negative growth by 65,000, urban growth trend recorded positive. (Reference Tab. 3.5.)

Then come partition (1947), which held back to some extent the tempo of urbanisation for the time being due mass exodus and haphazard clustering of uncertainties. Actually it gave an unbalanced temp of urbanisation. But in the following decades, the extension of development activities and some amount of industrialisation has turned the tide of urbanisation to an appeard direction.

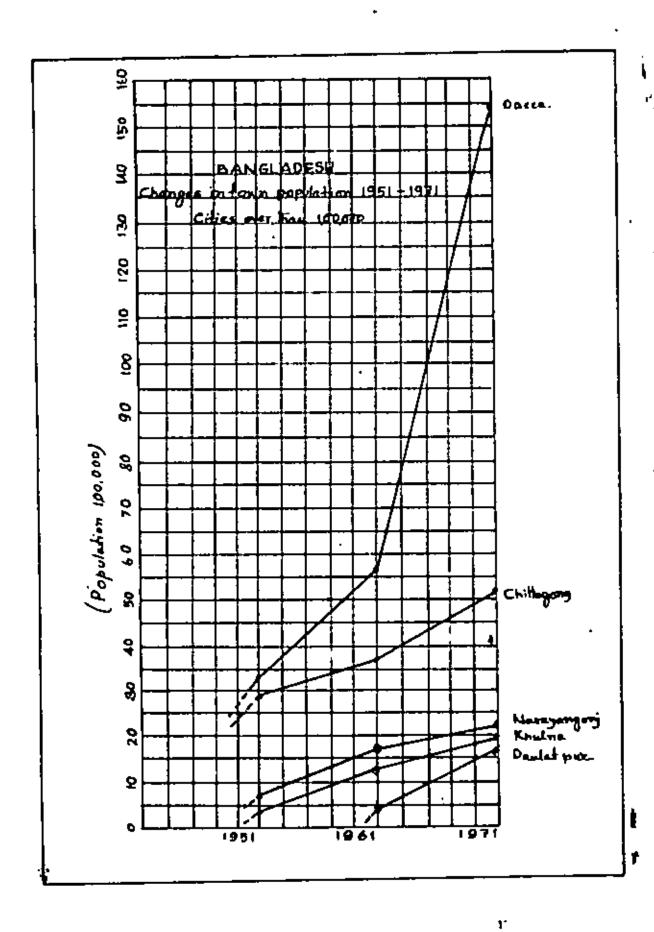
Before partition the region now forms Bangla Dash fell short of other part of India in respect of urbanisation. Even after partition, this trend was continging as it was lagging behind the other wing of former Pakistan. Ouring the decade 1951-61, the rate of urbanisation was much faster in West Pakistan\* than what was going in Bangla Dash. Still, she has a vast segment of rural population

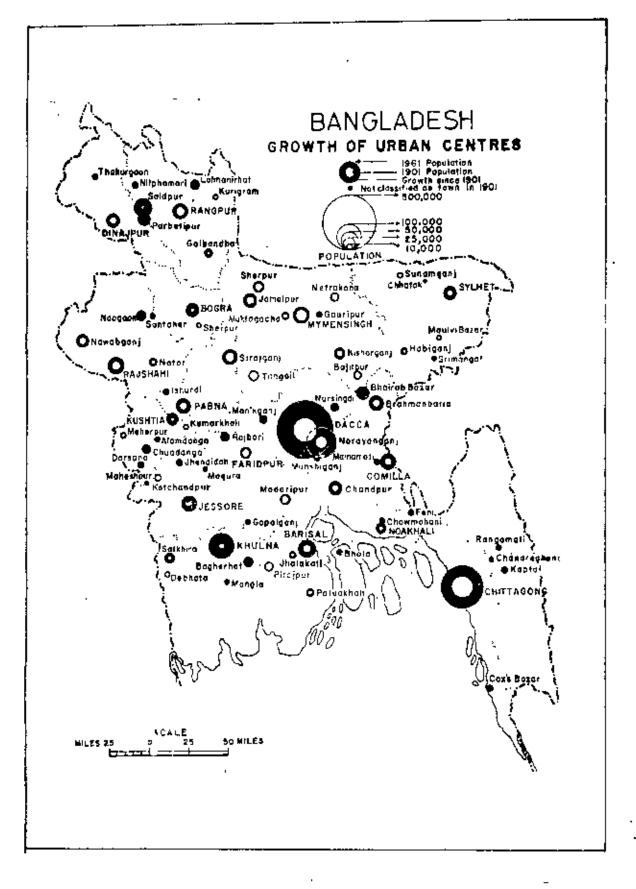


Source: Urban Development Directoral

Locality	Year 1951	Year 1961	Year 1971	Locality Year 1951	Year 1961	Year 1971
Dacca	338762	556712	1524672	Detvo		
	294046	364205	512974	Marwingdi 15754	15754	· 28819
Chittegong	72\$17	162054	218670	Natora 10455	13317	15762
M.Gorj Khulne	42225	127970	178030	Hebigonj 10882	12097	14840
BariselMu.	89 <i>6</i> 94	69936	95220	Bajitpur 13111	12097	14928
Rajehahi	39993	56685	76582	Menikgonj	11676	15723
Comilla	47526	545D4	86650	Chuadhanga 8617	11625	26990
–	43315	53256	73406	Ipwardi	11566	24610
Mymensingh	24176	44366	58148	Jhalakati 10009	10709	14512
Jeesor <del>a</del> Pabna	32240	40792	46325	Simpaganj 8488	9842	11986
		40634	45270	Femil 495t	8917	20510
Rangpur	31759		54626	Nilfemari 9757	16596	16596
Sylhet	33124	37740	46884		9055	12842
Cinajpur	35687	37711	31796	·	9033 8856	12532
Faridpur	35526 21628	28333	26586	Gopalgonj Kotchendour 6004		
Kushtia		24952	46166	- 1	87D3	13714 13714
Bogra	25303	33784		Kurigram 8063	6703 8653	
Tangail	21639	23688	32162	Muktagethe 6982	86 <b>5</b> 8	11082
Noakhali D	16677	19874	28712	Munshigonj 7071	8604	11013
Rengemati		6416	8212	Cox Berer 5925	8427	12527
Sayedpur	61369	60288	83382	8hol= 6198	840 <b>5</b>	10760
Sirejgonj	37858	47152	55150	Sentahar 7442	B292	10614
Grahmanbari		47784	50625	Meharpur 7174	8147	11626
Petuakhali	10289	12325	16476	Dargong	T665	12612
Jamelpur	27078	37988	43866	Thakuegaon 10049	7039	12252
Chandpur	32048	34837	38860	Gouripur 6048	7028	8996
Sheireb	12040	31479	42509	Magura	6999	14768
Номардэп (	32446	<b>29</b> 725	35102	Moulvi Bazar 5967	6522	8074
Medaripur	21693	25328	29272 29824	Alandhanga	5494	8074
Sherpur (Myn		24924		Kemarkhali 3896	5353	6851
Kieoregonj	29067	24031	30414	Sherpur(Bog.)4276	4812	6519
Decilations		47053	1,72050	Choumohini	4544	18615
(Incl.Khali	•		40863	Moheepur 2983	4153	5316
Perbatipur(	-		40662	Debhata 5738	4042	4821
Lermonirhat		22001	26928	Srimonosi 3010	4042	5171
Neogaen	11287	202726		Captal(Dem.)	11967	23298
Satkhire	14758	20169	29928	Moinamoti(cent)	4908	6292
Gm1bandha	14310	17738	20220	Chandraghons	<del>422</del> 1	8698
Bagerhat	7431	16398	25358	Mongla port	3874	10477
Netrakona	12924	17008	20660			
Rajbari	11398	16004	25630			

\*\*\*\*\*\*\*\*\*\*





#### NEWLY GROWN URBAN CENTRES

#### Teble 3.7.

1. Chatak (Cement Factory Area)	<b>197</b> £	4520
2. Ghorashal		5332
3. Joydebpur		672B
4. Toongy		11515
5. Ashugonj		7850
6. Pachagor		4209
7. Jemalponj		3420
B. Pelasbari (Bogra)		6192
9. Pekahy		5270
20. Sharamera		6180
tt.Gaurnedi(Berisel)		3280
12. Sarubketi *		4195
13. D <del>o⊎a</del> ngonj		5115
14. Remm Mirzepur(Tengail)		9730
15. Serde		9192
16. Akaura(Comilla)		6230
17. Bargune(Patuakhali)		4280
18. Daudkandi		8810
19. Lakaham		7520

#### Table 3.8.

#### PERCENTAGE OF URBAN POPULATION IN DIFFERENT SIZE-CLASS

Year	5000	5 to 10 tha.	10 to 20 the.	20 to 50 ths.	50 to 1 lsc.	1 lac & over
1091	4.39	14.39	41.30	9.85	10.38	30.39
1911	4.31	11.40	29.90	23.39		31.10
1921	4.43	10.27	29,02	26.42		30.04
1931	3.98	10.88	23.13	30.64		31.17
1941	0.54	8.61	13.51	36.D3	11.08	30.23
1951	1.48	7.42	10.02	35.96	12.49	31.38
1961	1.52	6.77	9.07	28.41	11.91	42,32
1971	1.05	3.50	8.35	23,30	15,15	48,20

Source . Table 3.6, 3.7, 3.8, compiled from the following sources :

<sup>1.</sup> Census of Pakietan, 1961 Vol. 2

<sup>2.</sup> Provincial Election Commission's Office Rejabag, Dacce(Off.files)

<sup>3.</sup> Project of Power Survey : Industrial Adv. Centre of Pakistan

Motijheal, Decca. Fila No. PL205(Data Book)

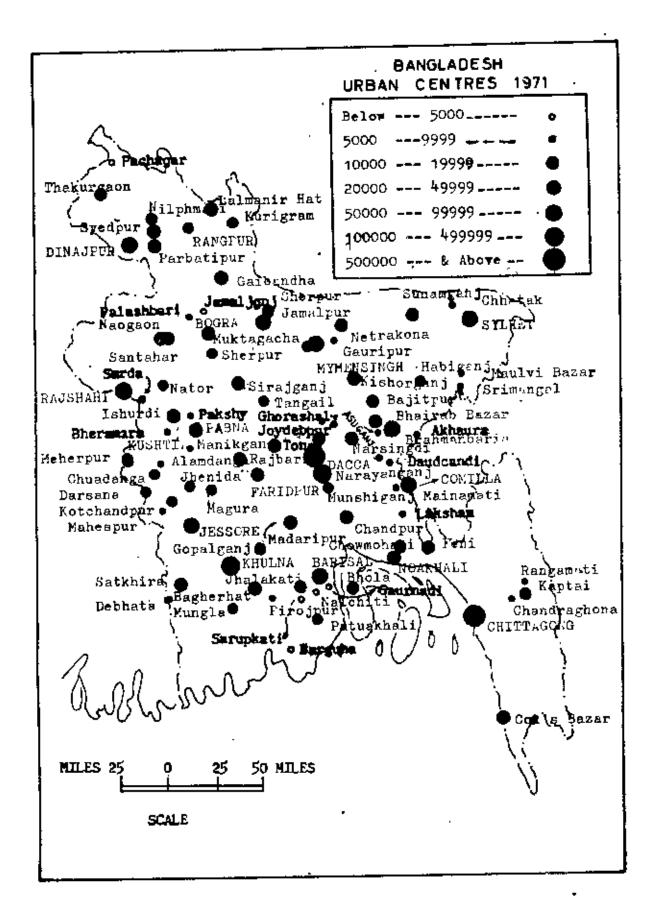
<sup>4.</sup> Urban Development Directorate, Dacca, Bangla Desh.

and its urben population though small in percentage has been showing an upward trend in recent years with the impact of industrial development. In 1941 the rural population of Sangla Dash stood at 96.34 percent in 1951, it was 95.66 percent in 1961, 94.81 p.c. end in 1971 it is 92.2 percent. 50, during the last sixty year (1901-61) urben population in Sangla Dash grown up slowly end gradually. The last census 1961 shows that the urben population in 1961 increased about 3.5 times, since 1901, whereas the increase of total population in the country during the same period was less than two folds. This means the rate of urbanisation was faster than the rate of total population growth and the ratio of urban population to the total population has been a continuous rising curve. <sup>11</sup> (Ref. Map no.3.)

#### D. URBANISATION DURING THE LAST TWO DECADES (TREND ANALYSIS)

As the tables (3.6, 3.7 and 3.8 indicate that in 1951 Ceneus only 64 centres have been classified as urban and among them 52 fall in the category of small and sidium towns (5,000 - 50,000). Though it counts about 80 percent of total urban centres but accommodates less than 50 percent of total urban population and about 42 percent of urban population lived in towns of 50,000 to 1 lakh and over eize class. In 1961 census, 78 centres have been classified as urban areas. These include 29. Municipalities, 37 town committees and 12 other sattelite towns.

The percentage of total urban population in the smaller urban centre is decreasing while that of large urban units are increasing. (See Tab 3.8.).



All size—classes balow 20,000 declined in importance with the 10,000 ~ 20,000 suffering the greatest decline. In 1901, 41.30 percent of urban population lived in urban centres having a population of 10,000 - 20,000 but the corresponding figure for 1961 is only 9.07 and in 1971 only 8.35 percent. The urban centres with population of over 20,000 show a continuous growth in subsequent decade till 1951 and after 1951 the lead is rather taken by the largest size-class i.e. one lake and above category cities. Moreover this size-class always maintained the highest trend in absorbing the maximum percentage of total population. The size-class 'I lake and over' which in the decade period to 1951 had 30 to 32 percent of total population, rose in the recent decades around 40 to 50 percent.

The analysis leads the conclusion that greater percentage of urban population in Bangla Desh live to the contemporary greatest urban centres. This trend is quite inconformity with the outside world. 'More than half the world people will probably be living in cities of 100.000 or more by 1990<sup>12</sup> to enjoy the economy of scale in the process of human settlement.

#### E. GROWING URBAN CENTRES

Table 3.6 shows the growth of towns during the last two decedes.

<sup>11.</sup> Nafin Ahmed: OP. Cit. 308, page.

<sup>12</sup> Kingsly Davis : Urbanisation of Human Population (Cities : Scientific America New York, 1965 P-41

while some centres have steady rate of increase in population during each successive decade, others have widely fauctuating rates. Population as many as eleven urban centres increased at rates higher than moral. This figure includes four cities of the country- Dacca, Khulma, Narayanganj and Chittagong with a rate of growth around five four, three and two times respectively.

Another important fact, reveals from the table 3.7, is a significant number of emmerging urban centres in the country. The new small town numbering about nineteen with a population range of 3,000 to 12,000 emmerge largely because of industrial development amounted during the last decade.

Most remarkable growth is also found in the already recognised small towns like Shairab Bazar, Narsingdi, Nilphamazi, Jhinadha, Gopelgonj, Fani.

Chowmohani, Chandroghona and Mongla. The rate of increase ranges there from 200 to 400 percent. The great urban agglomeration exparienced at Daulatpur(including Khaleshpur town) is an exception due to the establishment of different industrial complex and post facilities at Khulns.

After the partition Occas took over not only the political role of Calcutta, but also to a greater extent the commercial, financial, administrative, Industrial and ecademic role of the country as well. Industrial development has also been notable at Khulma, Narayangonj and Chittagong. The two ports at Chittagong Phaxima and Khulma are also greatly responsible for this large agglementation.

The other remaining urban centres grow at an usual rate around 100 to 200 percent over the two decades with a few exception like Iswardi, Lalmonirhat

and Saidpur, the three Railway colony towns inhabited by mon-Bengali majority.

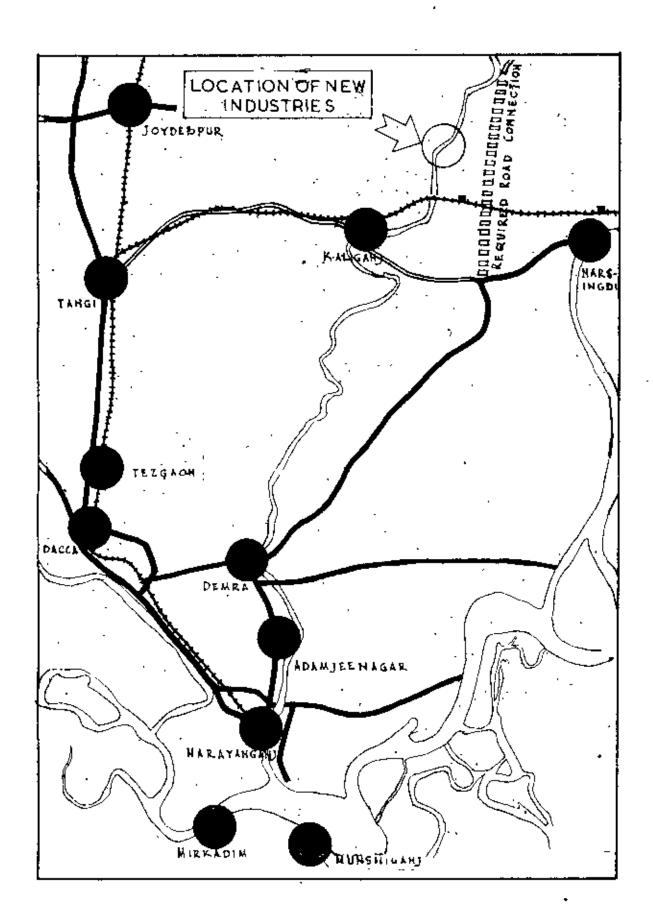
Population strength of those towns is quite considerable.

Carisel gives an unique picture. During the decade 1951-61, it shows an absolute fall and by the next decade it improved somehow and represents the moral standard. The reason believed this absolute fall was, perhaps, the huge majorit migration of Hindu population after partition. The lack of better communication and other urban investments caused delay the further recovery.

Other small urban centres, like, Sreemangal, Nalchiti, Kotchandpur and Mohaspur give a static or somewhat negative growth trend as is the case with Debhata. The new town Maynemati graw basing Ar my Centonment.

The distribution of urban centres 13 in Bangle Dash is not uniform. The total four cities of the country locate in the eastern part, and two of them, Dacca and Narayangonj are within a range of 12 miles. Peculiarly enough, there is no city-like urban settlement in the rest of areas. It is true that topographical variation and urban potential difference at different regions are also responsible for that, but the deficiency in planning and resource allocation process to minimise the imbalance development by creating new growth poles in the northern region can not be avoided. In recent years, Rajahahi is gaining much importance as an important seat of administration and aducational institution of the country. It is the divisional headquarters of northern districts and a considerable number of regional offices are there. The growth of its University with its attached professional and educational colleges and also a broadcasting centre have considerably to its importance, but its location in the

<sup>13.</sup>A.M.Patel: The Urban Centres of East Pakistan(The oriental Geographer, Oscos.
July 1970)P-15.



علار.

Certain parts of the country have fairly large number of towns, specially in Dacca and Rajahahi divisions, while a vest areas of Chittagong and Khulma division including the Madhupur Tract of Tangail district are covered with forest and less agitable for unbanisation.

The growing new towns of Bangla Gesh, as said earlier, constitute and important element of the whole urban scene, giving the following interesting features:

- cluster of small towns like Tongi, Joydebpur, Ghoramhal, Ashuganj take
   place at the outer edge of Dacca city;
- (II) the new towns of country side (Akhaurs, Daudkandi, Lekhaham etc.)

  ioceted at the cross-road exist mainly for their importance as trade centres.

  The productivity of the catchment area is the controlling factor of their size.
- (III) direct establishment of certain urban functions like health, education or industry made the centres. Mizzepur, Sarda and Dewangonj to the status of town.

  Jemalgonj has come out of its own potentiality as coal reserve is found at the vicinity;
- (IV) finally, after partition, due to the heavy digration from Series district, some of its prospective urban nucleus) experienced absolute decrease in the decade 1951-61, and regained moral population during the present decade.

Internal migration is an important demographic phendmana to would the pattern of urban growth and faffects many socio-scopomic espects of a region's development. The rural urban migration trend in Sangla Besh is evident from the growth pattern of urban centres. Continuous pressure on more or less fixed agrantian land causing a mass rural unemployment have been exerting a sort of

"push" towards urban, but the "pull" from the urban centres, even in a hamiliating condition, has not been significant enough, perhaps, due to the most neglected condition of our rural living and limited economic scope for the providence of living. 'Inspite of the heavy pressure on land due to increasing rural densities, excessive indebtness, progressive subdivision and fragmentation of holdings, uncertainly of local and outside markets, decesse and environmental deterioration the present had not moved much toward the town because urban centres are also over burdened to their limited capacity and can hardly provide more economic apportunities and better physical emenities to them. They simply come and tex on the existing urban facilities causing more socio-economic problem.

<sup>14.</sup> Nafia Ahmed :OP. Cit. P-324.

## CHAPTER IV

# URBANISATION AND REGIONAL TRANSPORT

A N S

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COMMUNICATION

Historically, transportation has played a significant role in the development of any nation and there is a stringing histus between development of transportation and urbanisation. A country's economic growth, the major precondition of urbanisation, is to a great extent dependent upon the afficiently of its communications, because without edequate transport facilities there can be little progress in industry and agriculture. In places with poor communication, the extent of resource mobility is largely deprived due to market facility. imported articles are available only at high prices and locally produced goods yield little profit. Lack of good communications affects not only aconomically bot also culturally isolated people remain convervative and non-urban in nature as they legged behind the progress outside their world. The degree of urbemisstion and influence of communication system are highly correlated. Several studies show a striking extralation between urban growth and communication not work of the region. The present urban complex owes such to the improvement of transport and communication we it playe an important role both in the distribution and growth of urban centres.

The earliest of the communities were first located on the shores of water routes which provided a means of exploring and utilizing the abundant natural resources. Later roads, and such later reil roads linked the early sattlements and provided opportunities for expension of existing communities and creation of new establishments. The advent of air transportation required location of airport at communicate sites edjacent to the existing development and inevitably high ways were constructed to service them. Since road transportation is the most flexible of all the endes of transportation and has the ability of satisfying the diversified demands

<sup>1.</sup> R.A. Ellefeen : "<u>City- Minterland Relationships in India"</u> (India's Urban Future Ed. Roy Turner, California Univ.Press 1962.) P-102

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of populace for rapid and convenient sovement, it has become by far the most dominant made of transportation.

Communication within the country is provided/ mainly by (1) Water ways (2) Railways and (3) Roads.

1. Weter ways: Before the introduction of pechanical power, goods were handled river course. It was the chief means of communication in socient times and even today cheep and bulkey goods which will not perish on the journey ere carried by rivers including ours.

Bangla Desh, popularly known as the land of rivers, the Ganges (Pades), Brahmsputra (Jamuse) and Meghna with their hundreds of branches of tributaries and the inlend canals connecting them form an excullent system of inlend water transport. There are regular steamer services on those rivers although the year. That from Berisel to Chittagong is particularly important for the transport of bulkey agricultural products to the ports of Chittagong for export.

The part of Chains is connected with the water transport system of the western part of the country as appeared to the morthern region due to the moribund and decaying nature of the mist of the rivers. Present position of water transportation to and into Rajshaki division is vary limited due to the shifting of channels in the Jamune and the difficulty of metablishing docking facilities in the flood season, owing to insufficient depth of many rivers that limit the role of motorised carriers in dry season. Potorised water transport is confined to the main rivers along the castern and southern boundaries of the division and is limited for the reason just stated. The towns Kushtia and Jamane — not get any

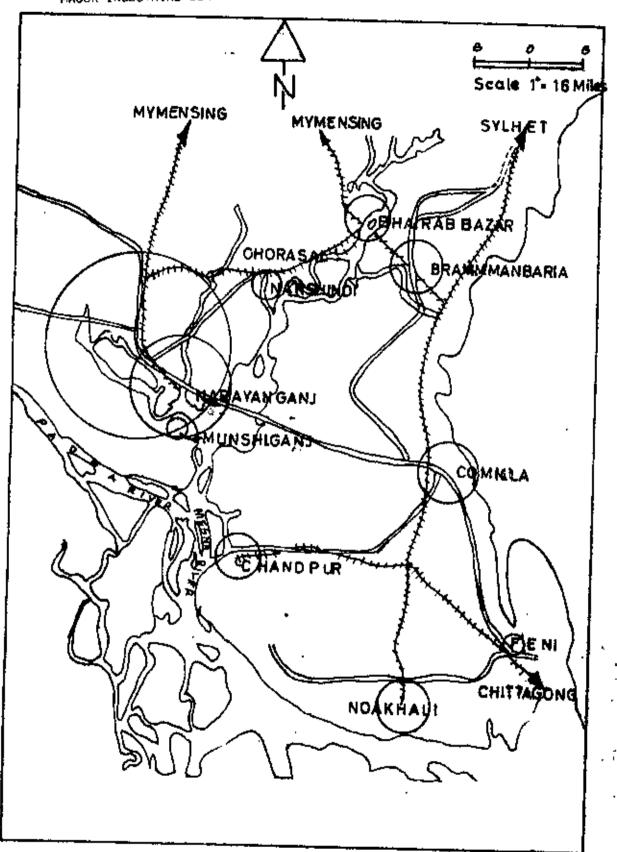
benefit. The country boats functions in places of secondary feeder roads and carry a large volume of traffic during the rainy season.

Chittagong, Decce, Mexayangonj and Khulna, the four most important urban centres of the country form a trangular zone of 'Inland water Borne Traffic. The capital Decce itself is located for water communication through the newigable Buriganga. Mater communication in Decce District is maintained by a not work of channels between large rivers. Marayangonj occupies an excellent situation on the lower Sitalakhya and through the Chakeameri, is connected with Reghme. This gives it steamer routs connection with Decce, Gualondo, Chandpur, Medaripur, Sheireb Bazer, Sylbet, Fenchugonj, Barieal, Khulna, Chaine and Chittagong. Chandpur, an important port town, close too the junction of Meghme and Pedes, is an outlet for jute and other products of the region. The Karnephuli river with other small tributaries is the chief means of transport into the interior part of Chittagong and the Chittagong Hill Tracts.

The Khulne- Barieel soute was opened as far back as 1864, stemmers have been using the north -south rivers of Barieel since 1880, and a few sest-west links are also maintained. Berieel and Patuskheli districts are also well served by stemmer and during the rains small feeder crafts operates ply on the sk tributaries of Brahmsputra. Jhalaketi is a large centre of trade in this area.

The Brahmsputre (Jamune) is navigable by steamers as far as 800 miles
from the sea, Sirajgonj an emporism for jute and other agricultural products, stands
on its right bank. In Sylhet, during the rains, the big steamers come up by MaghasSurva via Shairab Barar and small steamers come up to Chhatak. There was particularly

<sup>2.</sup> Nafis Ahmed: Op.cil. P-253.



no roads in Sylhet before the Sritish came and all communication was by water It is not only in Sylhet, but all over the Bangle Deah, among all forms of transport and communication, water ways dominate the scene .

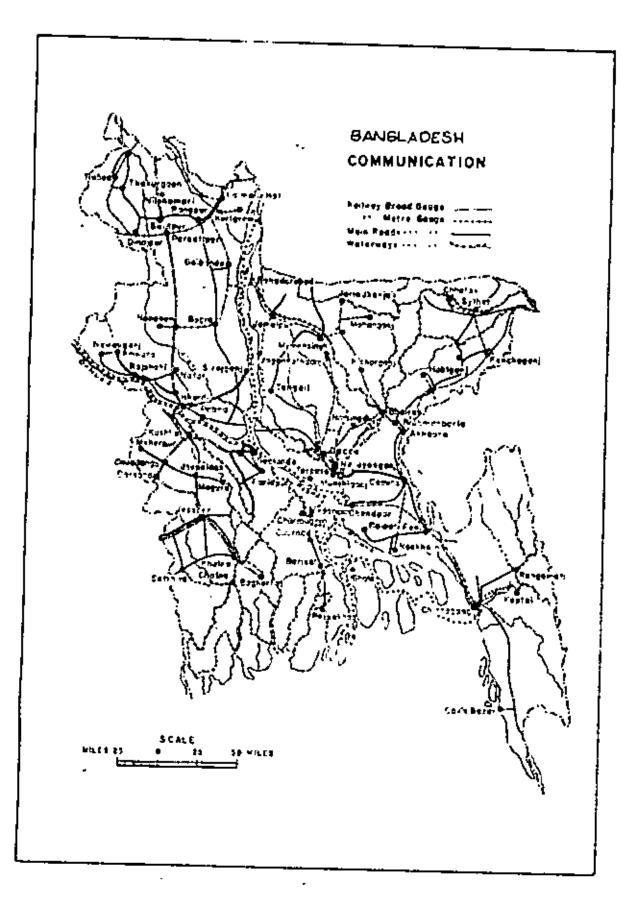
There are about 2, 700miles of navigable water ways on which regular atemers ply. Chemipur, Marayangunj, Scalundo, Serajgonj, Barisal and Khulma ere the wain river ports of the country. Gangle Gesh Rly maintains a flolille of steamers that operates between Chittegong, Marayangonj, Khulma and Mongla.

According to 1960s survey conducted by TWTA, about more than 22,00 stagmers, motor lounches and machenised bosts were operating in the country with a capacity to carry 1.07,000 passangers and 214200 tons of goods. Semides there are more than 3 lakes country boat with a carrying capacity of about 14 lakes peasangers and 12 lakes ton of goods. There may have a programms to mechanism a good number of country bosts to make the water ways communication more afficient. During 1966-67 the number of passenger lounch has incremend considerably but in case with steamer it has been reversed.

Inland Mater Transport Authority came into being in 1958 with an object to develop the materways communication within the country. It performs various functions relating to the development and control of inland water transport including its major achievements by the establishment of powered ferry services butween (1) Nareyangonj- Daudkendi, (2) Dawra- Ferabo, (3) Ariche-Ragarbari and (4) Aricha-Goalundo commecting main highways of the country.

In the process of inlend waterways development, comparatively less deve-

<sup>4. &</sup>quot;IWTA : Inland Water Transport Authority of Bengla Desh, Head Office, Oacca. Unofficial Source, IWTA, Dacce.



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loped areas of North Bengel may be connected to the important ports and port-towns of the country by establishing new river ports there. Location of sight a new port may be at Berm. Sheharadpur or Ullapara of Pahna District.

After the achievement of independence, a new dimension of communication has opened up with India. Before the war 1965 there was a convenient
route through the Genga and Jesuna to connect Calcutte port with Assem and
Tripera state. This can now be revised and devaloped for our mutual benefits.
This will halp us to boost up our trade and commerce and halp thereby to seem
precious foreign exchange.

#### Smilwaya

Railways are the most popular means of communication. Long journey on these involve little loss of time and heavy freight can be carried easily. In faciliting the movement of people and goods railways have also halped to reduce the danger of famine. Basides the economic and strategic value, railways are also important source of revenue to the Govt. and provide employment for many people.

Bengal was a century behind other north Indian Provinces in material progress which experienced naither any true road system nor any railway as late as 1862 when first railway (Calcutta- Kushtia) appear in the scene<sup>5</sup>. By 1901 the railway system was much developed and owed its origin to political mather than commercial or agricultural rassons. Though railways were originally built in flanged to link up the existing urban centres located on the banks of river, and have therefore, not materially effected such the distributional pattern of exis-

<sup>5.</sup> A.M. Malik : Hundred Yeors of Pakiston Railway (1862-1962)Karachi, 1962. p.14

<sup>6.</sup> Itad.

ting out the resource from the region. The main object of the British was to supply Calcutts with rew materials for export and to carry manufactured goods from there to the communers in fast Bengal and there by to make Calcutts region as a seat colonial devalopment. This was actually not even a blassing for the Calcutts region as it created a severe imbalance in the process of devalopment there. Anyway, it continued to caputure an increasing percentage of total freight and passanger diverted from the river ways of south and South-western part of Bengla Desh.

Bengle Deeh had situgether 1714.47 total routs milege of reilways serving about 40.5 percent of total population through 417 stations operating over 63 routes. Of this milege broad gauge (5 ft. 6 in) was 545.63 miles, matragency (3 ft. 8 in) 1146.64 miles and nerrow gauge (2 ft. 6 in) 19.75 miles. The total 1 length of tracks operated was 2559.22 miles serving about the 30 percent of total area of the country in 1961.

#### Reilways : West of Jamure

The Pades and Jamune demorcates the mater gauge in east to the area of broad gauge in the west with a few exception in the Rajahahi division where stout 320 miles of mater gauge prevail connecting Kurigram, Parbotipur, Dinajpur,

<sup>7.</sup>Nafis Almed: Op.cit. p-250.

<sup>8.</sup> A.N. Boss : Economic Development of Calcutts Metropolitan District, Indian Journal of Region Science. Vol. 1 No.1 Kharagpur, p-39.

<sup>9.</sup> A.M.Relik a Dp.cit. P-14.

Ruhia, Thekurgaon, Bogra, Southern, Ammura, Godagari and Mawabgonj. Antually it serves as feeder to the broad gauge system connecting at Santahar and Partotipur with a spur to the farry service-across the Jemuna at Phulchari ghat. The broad gauge main line stretches from Khulna to Chilahati branching to Benapole, Darsone, Scalundoghet, Faridpur, Bhatispare, Kumarkhali ghat, Reita, Sirejgonj and Rajahahi. It connects all the wastern region except Barical and Patuakhali. The traffic is heasiest on the line from Khulna to Scalundo, Khulna to Scalundo, Khulna to Sarejgonj and Sarejgonj to Rajahahi. Khulna division including the district of Faridpur, there is, 355.57 miles broad gauge crossing the Harding Bridge at Pakery, and thus connects Rajahahi division with the division of Khulna.

# Railways on the Eastern and Central Zone

The main metre gauge system in the Eastern and Central regions are divided into two commercial as well as transportation districts of Dacta and Pahartali controlled by Shairab Bazar and Chittagong respectively.

According to recent statistic, it is estimated that Emngla Deah Reilways service an eros of nearly 17,510 equalles or about 33 percent of the total area

<sup>10.</sup> Pekisten Eastern Railway Time Table & Guide, Darca June 1, 1970.

of mearly 17.516 eq. miles or about 33 percent of the total area of the country by an intricative system of railway networks connecting 417 stations in all 30 of which are railway junctions 11.

The impact of rail transport on the location of growing urban centres is apparent which have influenced the general distribution of population by an over all effect on trade and industry. Some towns own their rise and subsequent development mainly to the railways, examples are, Parbotipur, Santahar, Marayangonj and Iswardi, Saidpur, the sixth largest twon in Bangle Desh is a creation of railways. Formarly, it was on the important Calcutta-Jalpaiguri route and was somewhat livelier place. At present it has the major workshop for all the broad gauge lines.

The cluster of towns in the South-Wastern districts of Kushtis and Jessure can be attributed largely to the batter railway transport facilities the eras enjoys. Sectuse of its silting rivers, surface transport ( i.e. road and rail road) received greater importance; and because of its proximity to Calcutte. British trading interest was extensive and commercial activities better developed there.

All these worked as potential impute for prospective urben growth in this erem. After the war of 1965, the communication between Calcutta and Bangle Deah stopped which cast a fade shadow over the development of this region for sometime which starts gaining eccentum gradually out of its own resources.

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<sup>11.</sup> Ibid.

Cargo cerried areas (ove- red.
956.0
509.0
805.D
725.0

Source : Dainik Sangla : Feb.5, 1972, Decca, "Economic Reconstruction of Cample Deah : Transport" by Prof.5.H.F.Salman.

The fig. shows two reverse trends : (1) The number of railway passangers and the distance they travelled are increasing gradually, but (ii) the cargo load showing a diminishing trend. So the conclusion may arrive that the bulk has taken elternative means and probably that is roads.

#### RDADS

In an agricultural country like Bangla Deeh roads are essential for carrying farm produce from villages to the markets, rem materials to the fectories and for distributing menufactured products to the nearby villages. In our country helf of the year remains dry and in the rest half only three months may be taken as effective for transportation by water ways. During the dry season in over 70 percent of the land the means of communication and transport is by roads and railways 12.

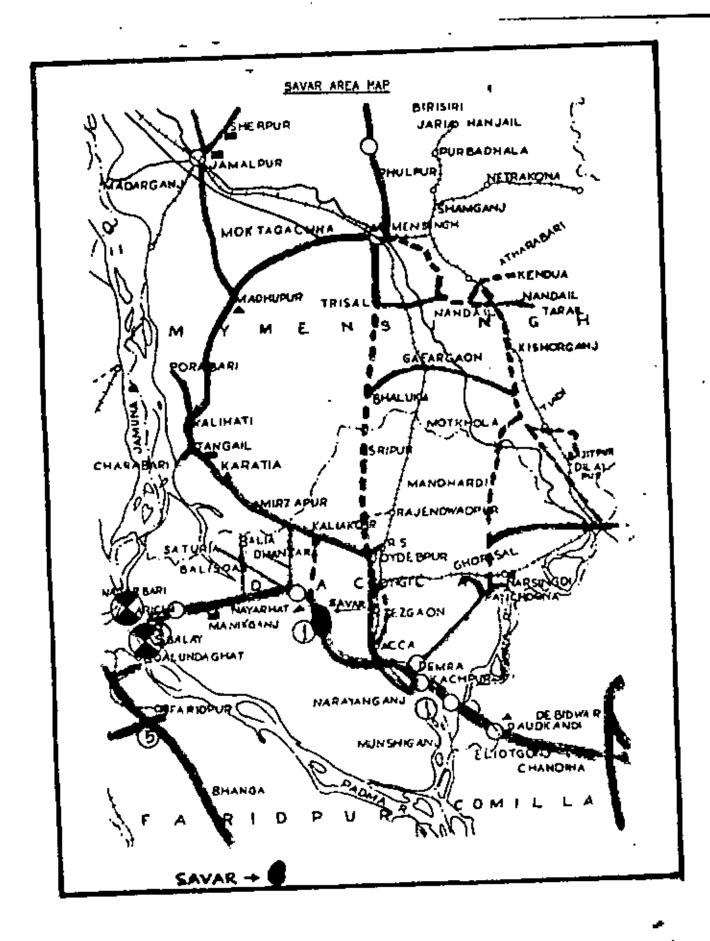
<sup>12.</sup> Physical Planning Progress Op.cit. P-

Before the middle of the 16th Century Bangla Deah had practically no roads. During the Muslim period Sher Sheh built the famous Grand Trunk Road that connects Delhi with the eastern province. It enters in Bangla Deah through Banapole in Jessors district 3. The Mughals built a number of roads passing through Bangla Deah most of which have been disappeared as a result of nealect and river action.

The partition there was only 265 miles of paved roads and the largest of superior surfaced road was a 35 mile eaction between Sylhet and Tamabil on the route of Shillong. In fact the road system consisted in short of segments radiating from principal centres of population and economic activity. Convictions between these centres did not exist except possibly during the dry exeson. In 1953, in the whole province there were 990 miles of Soverment, district board and municipal mattalled road and unmatalled milling did not exceed 24.446. Union Spard and village roads were 18 miles and 32.561 miles of matalled and unmatalled category respectively.

Ouring the lest decade, noted worthy development is the Omcca-Aricha Road (55 miles) constructed to connect Morth Bengal and Khulma via Magarbari and Soslundo ghat respectively by modern farry system. Another is the largest trunk road of the country (about 350 miles) from Cox's Bazar and Mymensingh via

<sup>13.</sup> Wafis Ahmed : Op.cit. P-259.



via Chittagong. Comilla and Decca, interrupted by a single ferry only at Osudkandi on the Meghna river. Dther mejor roads now in service are as follows :

(1) Jessore - Jhensidah Road, 57 miles, (2) Bogra-Rangpur, 68 miles, (3)

Sherpur- Sirajgonj, 50 miles, (4) Ataikola (Pabna) - Bogra, 54 miles, (6)

Rangpur-Dinajpur, 35 miles; (6) Goalundo- Magura, 33 miles 14. The Bengla Desh

Trunk Roads provide the link in the system of Asian Highways. The following

trunk roads connecting (1) Teknaf in the farthest south with Hymensingh, (2)

Gomilla- Sylhet, (3) Magarbari-Bogra-Rangpur- Dinajpur- Tetulia, (4)KhuinaJessore- Kushtia- Immardi- Natara- Rajahahi- Nameabgonj and (5) Burisal-FaridpurGoalundo- Magura- Chendraghona- Meherpur, are of recent origin. At present the

country has 1.983 miles of metalled and 57,000 miles of unmetalled roads 45.

The typical features of our road system are:

- (i) they run paralled and close to the railways; though the recent development gives a bit different picture;
- (ii) the all over network of transport and communication is not optimally plenned rather a haphazard patchwork to connect the isolated development cent without giving proportion benefits to the country.

Our major industrial- urban centres Carca, Chittagong and Khulma are located on the banks of Buriganga, Karmafuli and Rupsa- Ehaireb river respectively. Potential industrial- urban centres like Marayangonj and Maraingdi are

<sup>14.</sup> Ibid.

<sup>15.</sup> A.R.Choudhury: Road Development in East Pakistan: past and present;
Highways in East Pakistan, Bullatin, 1958-68 Great Decade
of Development, R & H, Decce. P-19.

to. Nafis Absent : Op.cit. P- 259.

their obvious influence in the process of these centres' development structure. Decre stretches from Narsingdi and Narsyengonj and from Narsyengonj to Desra towards south and south-east, and towards north and morth-west it structures upto Joydebpur via Tongi. The influence is also prominent in other industrial metropolis. In Chittegong from fauzdoshat to the wouth of Karnefuli, from Chittegong to Kaptel and Kaptel to Hethhezari; in Khulne from Khalispur to Gauletpur, more than 50 percent of the country's total industrial development took place along these belts.

The Ribbon pattern of development in our many towns like Rajshahi.
Nator, Chandpur, Pabna and Mymensingh are found along the major routes of transportation. Indigenous forms of transportation are more efficient encouraging travel to end from the city. Villagers are considered to fall within the ribbon of they are within one mile of rail line.

From the research of Prof. S.M.f. Rehman , it reveals that if the following new roads are to be built to connect the subdivisional headquarters with their newrost trunk routes, it will fecilitate with easy means of communication from there to Decce.

<sup>17.</sup> Physical Planning Progress. OpeCit. P-

<sup>16.</sup> Prof. S.M.F.Rehman : Economic Reconstruction of Bangle Desh \*Cainik Bangle\* Feb. 5,1972, Decta.

Table 4.2 (Proposel for New Scade)

Here of the Sub- divisional Heed Quarters.	Pop <sup>III</sup> (Lakh)	To be connected with	Roads to be built (Miles)	No. of Passangers (Lakha) to be benefited from this name construction
Sirejgonj	11.8	Bogra Trunk Ad.	12	.92
<b>Hilphamari</b>	6.39	Milphomeri-Seidpur Ad.	14	.52
Petuskhali	10.70	Patunkhali-Barieni	25	.43
<del>Vegezhet</del>	7,93	Bageshet-Khailna	20	.40
Hetzokona	9,61	Hetzokona-Hymenaingh	25	<b>-39</b>
Pirojpur	9.31	Pirojpur-Barisel	26	.33
Gmpalgenj	6.87	Gapelgorj-Feridpur	45	.15

From the above table it is estimated that about 60 lakes of people would be burnefited from the proposed total 170 miles roads.

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# CHAPTER V

URBAN STRUCTURE

Development of urban structure reflects the economic attainments, it level of technological knowhow and socio-cultural pattern of a people to a greater extent in the form of street pattern, types of buildings and the distribution and arrangement of urban land uses.

En two towns have sites that are exactly similar, but it is not difficult to recognize weldefined categories of town sites. Certain physical features, for one resum or another, have been fevoured for the setting of towns and provide a basis for classification of towns according to site type. The site is enlarged in the process of urban growth, yet it nevertheless remains an area local and relatively restricted, and as such is only part of a wide setting which affects the origin and growth of urban characteristics. Bengle Deah is a land of rivers, and most of her towns locate at their banks.

Although the internal pattern of each city is unique, in its particular combination of details, most cities have business, industrial and residential districts. The forces underlying the pattern can be appreciated if pattern is
focussed on three generalization of errangements— by concentric zones. Sectors and
multiple muclis<sup>2</sup>.

# Nature® of Ruman Sattlement in Urben Areas

A. Concentric Zones : According to concentric rose theory, the pattern of growth

<sup>1.</sup> Arther E. Sneile : The Geography of Towns (London : Hutchinson and Co.Ltd. 1953) P-42.

<sup>2.</sup> Egon E. Begel : Urban Sociology (London, McGraw Hill Co. 1955) PP 94-113.

of the city can be best understood in terms of five concentric consesse.

(1) The Central Rusiness District is the focuse. It is the down-town rail district with its departmental stores, swart shops, Office head quarters. Encircling the down town retail district is the whole sale business district. 3 Sederghet in old Dacca and the Motijheal, Sulistan and Segum bagiche areas in new Dacca are close to the pattern. Administrative zone in district head quarter does not fall in CBD, rather this forms a district zone with superior environment.

<sup>\*</sup> All those concepts developed according to the socio-economic structure, one of the main forces behind the urban form, in western countries, which is obviously not similar to ours. Our urban form is a blending mixture of western as well as indigenous culture. This is true to the case of all old towns in our country. Still some similarities are found in our developed city-scape, specially in Dacca, where American urban pattern has been imported to introduce a modern look to a great extent. Phoreover, the theories give a scientific basis to enalyse the urban land-use nature and its process of growth and decay. So, incourse the theoretical discussion, some illustrations are set from the condition of Dacca and other related urban centres of our own.

<sup>3.</sup> Op. cit. Begel : P 94. \*\* Theory propounded by Burgess.

- (2) The Zone in Transition, encircling the down town area is a zone of residential deterioration. Business and light manufacturing encrach in residential areas characterised by rooming houses. In this zones, principal alone are with their submerged region of poverty, degradation and disease and their under worlds of vices. In most cases these areas are inhabited largely by colonics of immigrants. Areabeg and Fakirapole of New Decca area may come under this extensory.
- (3) The Zone of Morking Man's (independent) Home: This is inhabited by industrial workers who have escaped the rone in transition but also desire to live within easy access of this work. In many American cities second generation immigrants are important asymmets of the population in this area. Tajgeon may fall in this group.
- (4) The Zone of Better Residence: This is made up of single family deallings of exclusive restricted districts and of high class appartment buildings. Dharmondi residential area (Dacca) is a good example in this line.
- (5) finally, Commuters' Zone which is located, often, beyond the city limit in suburban areas em/in satallite cities. This is a zone of spotty devalopment of high class residences along lines of rapid travel, as Gulshan Model Town, (Decca).

The study of urban structure needs the interpretion of the existing layout of roads. (2) pattern of land-use and the (3) characteristics of associated buildings. Land use pattern of many towns of different character and segnitude have been studied and the deduced generalization has been put in this paper.

Our cities bear the impression of western civilization as well as indigenous cultural forces acted on them. The presence of chain of mosque, toubs, Idgah reflect the influence of Muslim cultural tradition. There are certain district characteristic like street baser, house-shop combination are typically common to the developing countries of south-sest Asia with praindustrial urban status. The internal structure of urban form, specially the narrow streets clearly the indicate the low level of our technological development and least prevalence of vehicular traffic.

#### Road Pattern

The roads of our town is a result of natural growth and not of conscious design. They can be broadly devided into the following classes on the basis of their functions :

- (1) Primary or Arterial Roads : they link the town with their umland and also other towns. These roads carry traffic which originates optaids the towns and they have destination inside the towns or visa-versa, and also carry through traffic which has got no function in the city at all.
- (2) <u>Secondary or Sub-arterial Roads</u>: are the major roads of the town in liniar or radial pattern. They carry the main burden of the inter-town traffic predominantly vehicular traffic. The main commercial or shoping areas of the town are located on these roads. They inter connect the maighbourhood roads of the town, and take different ness at different section. They consist of metalled and brick-pade surface with 8 to 20 feet width.

(3) <u>Tertiary or Neighbourhood Roads</u>: are the roads other than primary and secondary, serving the inter-neighbourhood communication. They also provide stress to secondary and primary roads. Their width is generally not more than 10 feet and often less than 8 feet.

The streets are irregular in pattern, narrow and crooked. The main vehicular thoroughfars are also not always estimated. They are often without side walks and encroached upon by booth and projecting open fronts of the shops line on them. The side streets and alley are usually such narrower and so crooked as to be almost impassable for wheeled vehicle.

The road network in newly developed city-site gives a better account with their gridinon or richilinear pattern. The residential and commercial built up during the lest decade display a rectangular pattern of streets relatively wider and in most of the cases provide side walks. The inter-urban mass transport system has improved a lot though it could not satisfy the ever increasing volume of traffic to and from fast growing metropolitan centre. The system also links the outlying suburbs. Absence of any official record of daily traffic movement of the city discourages any analytical study. Nowever the existing bus services in Dacca are run by

- (f) Ducce Motor Vehicle Association
- (II) Bengie Sesh Road Transport Corporation

<sup>4.</sup> F.Karim Khan & M.Masood : "Urban Structure of Comilla Town" (Oriental gaographer, Decca, July, 62)

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The Corporation bus run along almost all the roads with shout 120 buses plying on various routes. The average number of passanger travelling percay is 1,00,000 which represents about 12% of Dacca's day population 54.

Bicycles, cycle-rickshams and pedestrain account the major volume of traffic. Motor vehicles and enimal-drawn carts are frequently seen on the streets of towns. Ofcourse, the letter is gradually decaying in was. Cycle-rickshams provide the most popular and cheep means of transport.

#### Pattern of land-use

from a simple look over our urban scene, with a few exception of recently developed metropolitan sites, it is quite evident that our towns have developed naturally, not in a planned manner. So, it is obvious that their growth has been haphezard, inefficient and unhealthy. Mixed land-use is prominent in all towns as there was no restriction in the past which is now posing a great threat for future planning.

Sub-divisional and zoning regulation was almost unknown to them; even to-day common dwallers do not much think of the benefits of planned living.

Oue to the lack of modern mess transport facilities, people wents to live close to their business area resulting a small areal space with high density of living in urban scene.

<sup>5.</sup> E.P.R.T.C. 4th Assversery celebration, Decce, 1965.

However, the general pattern of land-use has been categorically analysed synthesising from the experience of different urban centres, under the following headings of separate zones consitute the whole urban space.

Residential Zone: Residential areas are scattered all over the towns. Even in business centre, ground floor is used for commercial activity, while the upper stairs are being used for residential purposes. There exists a great confusion of land uses due to the intermingling of shops, commercial premises, small factories, godowns, government and semi-government offices within the same zons and the district resident neighbourhood are hardly identifiable. Acute shortage of residential accommodation is recently felt, specially, in growing industrial town like Chandour.

Old areas are densely populated in comparision to newly developed areas. For example, in Rajahahi, the old areas like Sahah Bezer, Shoramare, Segorpare, Rami bezer and Kumerpare are most densely populated whereas new areas along the greater Road, Kari hate, Laxwimpur and Sepura are comparative liveble, and some amount of environmental opportunities are found there.

Within the residential areas there is almost no public and private planned open space, and so play ground for boys and recreational facilities for the alderly people are rare swallable object. Incidental open space or fallow land becomes play ground under the fast of young generation.

Residential cum commercial, business and industrial land use in the same area, which is often found in our town, leads to a hub of most undesirable crowd and congestion, a zone of residential alum. With the passage of time.

4553)

Old residential neighbourhood have deteriorated and new upper class area has developed. There are some degree of community considerates and personal indentication of the inhabitant with these neighbourhoods. Examples are a Nikeripara (areas inhabited by fishermen, Senia para (inhabited by Majority of Mindus business men) and so on. Ofcourse, these boundaries are weathering out now-e-days and to embrace all is becoming the trend.

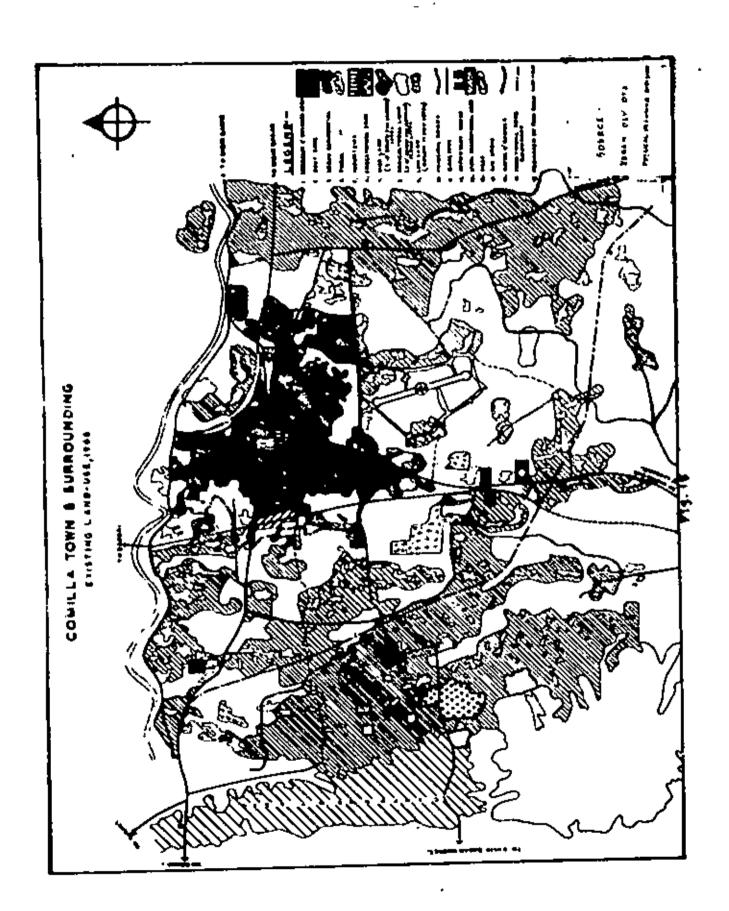
- 2. Commercial Zone: The central business district which is the chief nucleus of the commercial activities is in most cases located at the heart of the town and popularly wakness as bezar or cheek. It developes along the main roads taking a linear pattern though not always under the same shade. But with a few exception of newly developed shopping centres in cities, they are unlike the pricint type or what central business district means in wastern countries, and are not free from traffic hezard. In addition to the wholesale and retail transaction of stationary, grocery, textile products, medicins, books and shoes, raw fruit, sweetment shops, tea and pan- digeratts shops, and small service industries like leandry, heir-cutting saloon, tailoring shop, small flour will and vehicle repairing work shops are found, there. Banks, restaurants, hotels and some private business offices are satablished facing the compound roads.
- 4. The rone is crowed with numberless small retail shops which deal not doly food, cloth, jewellary and hardware but agricultural products and things needed for agriculture too. Groups of compating morehants tend to occupy a particular section and generally some streets or areas are identified in dealing cartain particular commodity like 'Sonepoti' means an area deals in gold and ornements. Recently a trand

is noticed from the government authority to develop a battern marksting space in the form of New Market in all district and sub-divisional head quarter towns.

- S. <u>Government Zone</u>: The administrative eres or civil line occupies in important part of the town. The important government offices as the collectorate, civil court, police lines, municipal office jail atc. are located in this eres. The areas segregation of the Government zone is more or less marked. Good buildings housing the government offices, Specious bungalows on western atyle for government officers and wide matalied roads make this area distinctly different from other parts of the town. Where accommodation for housing of the new offices is not avilable there, they are often housed in requisitioned private houses in some residential eress. This recent trend of administrative location is marked along the main road in a scattered manner causing great inconvenience to the public and effective administration.
- 4. The academic institutions of both types i prefessional and general have been located wherever the space available without giving any consideration to its environment. Somewhere it is in the congested central business district as the case with Rejabahi Sovernment college and Collegiate School, Comilla Zilla School and Pabna Govt. Girla High School; somewhere within batter neighbourhood and most of them are outside residential neighbourhood.

The newly developed computes of Rajahahi, Chittagong and Mymenaingh

A newly designed shoping centre.



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University give a different view. They are away from the noise of city and associated with a natural surmounding guided by a considerable amount of planning quality. Defeciancies in planning are there also, but they are not ap such handicapped like some femous old institutions of the capital— the Decca University, Engineering University. Medical college, Decca Quaid-e-Azem College and Jagennath College. To illustrate this lack of Planning, it may be mentioned that few years back a girl was run over by an automobile while crossing the road to go to class from girls' dormitory of the Decca University. The environmental condition of Sir Salimullah Medical college, located at old Decca is more deplorable.

#### Social Space

The eccial and recreational areas of the towns, like Town Hall, Stadion and Edgah\* are generally located around the central business district at different apots. Town Hall is the civic centre and often this is used as a venue for susical, dencing or other functions. The stadium provides the facilities for local games and aports. It is also the venue for annual agricultural and industrial exhibition.

Public parks and play grounds are there but quits insufficient to demand. In some town ambankment is used for morning and evening walk of the people. There are not-wally two to four cinema hall in midium and hig towns located most of them in central business district. The restaurant is, however, a must in all the neighbourhood centre of the town.

<sup>6.</sup>Waser Mobasher Ali: University Area Planning and Architecture
Third Seminar on Arch. P- 108.

<sup>\*</sup> Edgeh is a place where the Muslim offer congregation prayer twice a year on the occassion of Ed-ul Fitre and Ed-ul Azha.

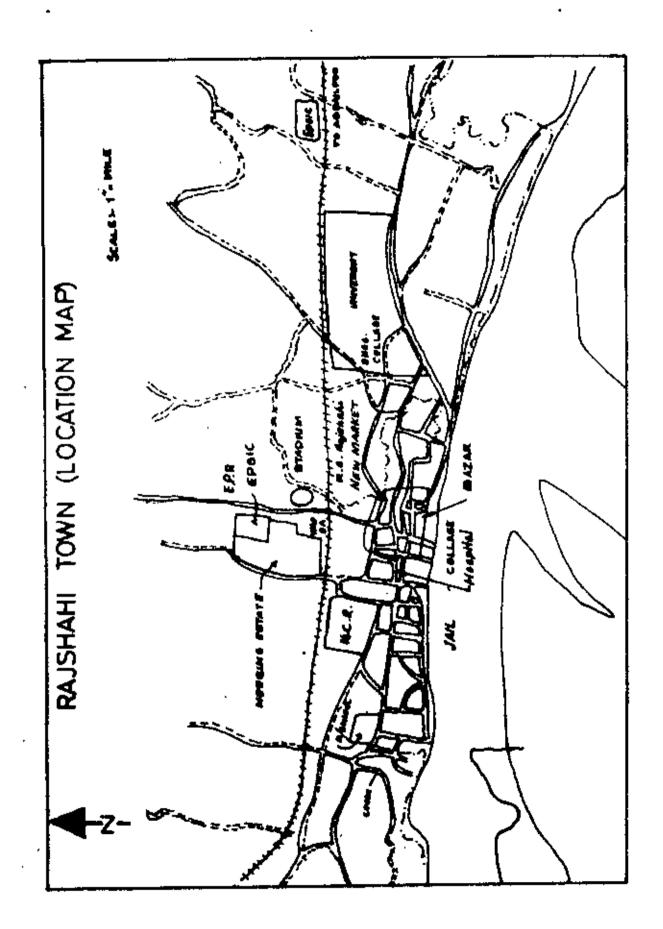
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# Quantitative Analysis of Land-use Pattern <u>Table 5.1</u>

91.   Description	] Rajaha	rhd.	[Comille		Chandous	-	Bogra	
no. of use (zone	Aree(so	re) (P.C. tote erce	_	<b>j</b> P.C.	[ Ares	₱:c.	[Area	IP.C.
1.Commercial	42.00	0,90	60,00	2.40	89.50	4.30	75.00	0.54
2.Government	167.59	3.70	.105.00	3.39	184.50	9.30	139.70	15.95
3.Residential	1270,50	26.10	1127.00	42.00	610,00	30,60	240+00	27.60
4.Education	1350.00	29.80	42.00	1.57	59.75	3.00	47,30	5,40
5.Agriculture	137,00	3.00	660,00	24.61	417.00	20.28	168.50	18,34
6.Industry	320,50	7.20	40,00	1.50	53.80	2.70	44.70	5.10
7. Eubanksaart	data do dot avai lable	<u>.</u>	108.00	12.00	14.40	0.70		, <del></del>
8. Roads	555.00	12.30	108.00	4.40	50.00	2.50	120.00	4.5
9.Tank,open epuc & Punk	687*00 t	15.00	263,00	9.38	210.00	19,60	154.00	6.75
10.River Cennel			235	8.79	6.25 (Jetty)	.30		. ::
	4529.80	100.00	<b>2680.6</b> 5	100	1987.25	100	e77.00	100,00

Source : (1) Author's unpublished paper : Land-use Analysis.

<sup>(2)</sup> U.D.D., Dacco.

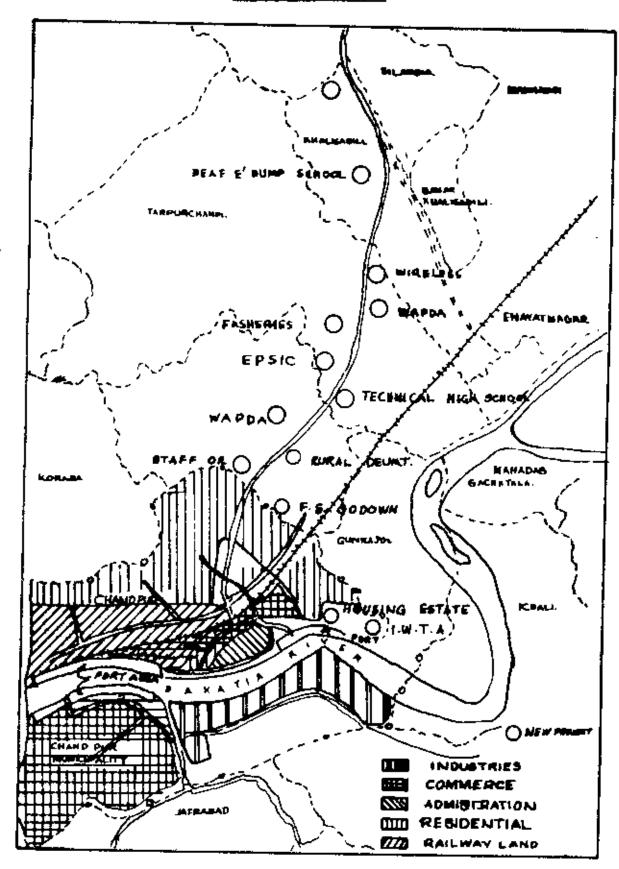


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#### Findinge

- (1) About twenty to forty percent of urban space is used for residential perposes and the density of housing in some town, like Rejahahi, is such higher incomparision to other towns.
- (2) Some assute of agricultural land exists within wrbse space in all towns.

  Though the main difference from rural to urban living is the non-agricultural occupation, interesting amough, mixed profession and living are quite common in our urban acens.
- (3) Around ten penet of total space is left open in the form of park, vacent or fallow land resulting a great misuse of scarce urben space. A good park or any other planned recreational space is rare available.
- (4) Armeni Educational zone constitutes a negligable percentage of total land use, except in University towns. This may be taken as one of the criteria to justify the minimum opportunity provided for education in our country.
- (5) Except a few industrial-based cities like Decca, Narayangonj, Khulma and Chittagong, industrial establishment in other average towns is poor, and automatically enjoy smaller epace.
  - (6) Most of the town have the danger to be washed by flood end so there is a need for embankment to protect the reveges.
  - (7) Higher the agglomeration, higher is the percentage of road Space. Buring the last deceds, urban roads experienced a development both in width and surface quality.



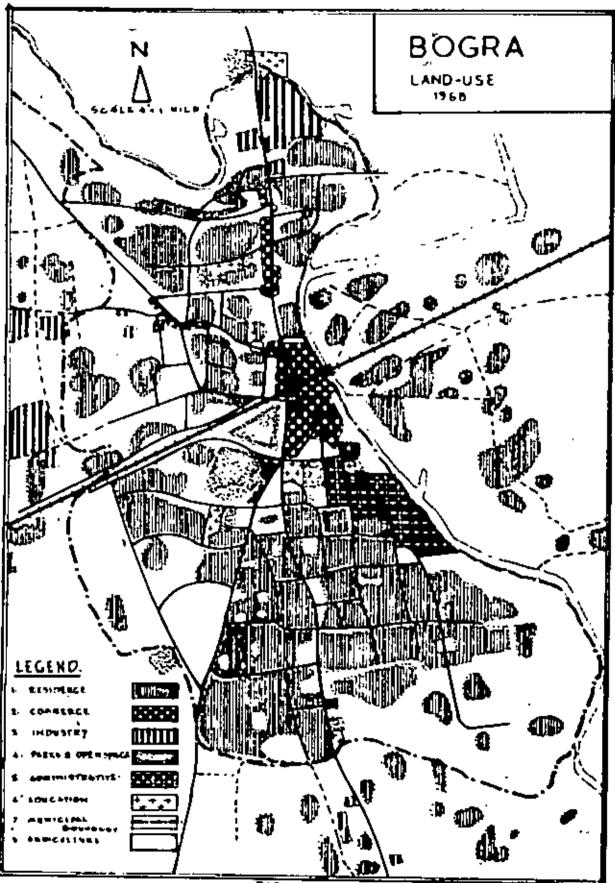
### Cherecteristics of Guildings

Two hundred years of British colonislish was entrancedly effective in strangulating the florious Mughal culture of this subcontinent. The highly developed indigenous building arts of the latter Mughals was replaced by the proto-typed buildings of the British constructed by surveyor and engineers of lower echelons. So, our present buildings characteristics, as I have enid before, are the mixture of indigenous and western mit.

Indicenous Pattern: The old towns of distinctively Bengali character exhibit a number of common features, like, the ground is completely covereby structures, except for the street, the interior courts of some dwellings and incidental open spaces around public buildings.

One or two storied houses are predominent extending in a row along a street or an alley, though high-rise buildings of three to four-storied are also occasionally found along the main streets. They consist of two to four congested rooms with a minimum empe for light and air. From the building material point of view. They consist of 'Kutche' or construction of mud wall and thatch roof, and 'pucce' of brick-cement made. The former type is progressively decreasing with increasing city sizes. Building materials vary from region to region. However, in general, bricks, cement, corrugated iron and timber are widely used. Mud houses are normally found in the part pharies. Religious places with structures are inevisably found mithin a short distance.

<sup>7.</sup> Zahidul Hassan : Architecture in East Pakistan after 1947
Third Seminar on Architecture. Op.cit. P-92.



F13 . 5.

<u>Members pottern</u>: In contrast to the petterns of indigenous urban estilements, the British made civil lines, military contonments and reliveys colonies are found more systematic with a definite function areas. A new type of building developed known as the 'Bungalow' which with its usual north south orientation and provision of deep over hange was appropriate for the climatic conditions. Structures were almost pueces and many of them stand in the mids of large fenced compounds with much space devoted to trace and grass-land ecoped in formal garden. There were, ofcourse, row-houses for servents and lower-class employers.

With the socio-sconomic development of the country, some new urban elsments like rows of living quarters, newly built epacious hospital, officers' club, and very recently transmittion lower ( in five cities) are found dispersally.

Poverty striken urben scene gives another important look of slues and dilapidated living. This insenitary and degraded living in squarters and bushes are appealing. Yet, lowest paid workers and unamployed millions crowd into a few square feet on space, glad for more shelter at the different pockets of the twon. The condition is more prominent in some jute -mill towns on the bank of rivers.

<sup>8.</sup> S.H.H.Recevi : "Yraffic of Chandour" Port" ( The oriental Geographer, Decca-





#### SLIPPARY

One of the wost striking features of contemporary civilization is, no doubt, the phenomenon of growing urbanisation. The work is devoted to enalyze the pattern of urbanisation in Bengle Desh, particularly from 1951 to 1971 (before March 25, 1971). It is an enquiry into the nature of urban mattlement, their structure and characteristics of land-uses with an introduction to physical planning and other socio-aconomic problems prevailing in the country.

The process of urbanisation which in otherwords, a new look toward life and living, is more repid and of greater significance than ever before. Urbanisation is defined pracisely, as a process through which are increasing proportion of people live together in a concentrated locally having continuous collection of houses and enjoy in common benefits of certain public utilities.

Urban population is apread very unevenly over the world surface, but the regions of extreme urbanisation are few and restricted. It is a varying mixture of economic and social forces which decides the pattern of urbanisation in the world to-day. A century and a half ego only about 2.4% of the world's population lived in town, in 1850, it raised 4.3% in 1900 it was 9.2% and 1950, 20.9%. It is estimated that in A.D. 2,000 it will be 45%. At present more than 35% of the world people living in urban environment and in 2050, it is expected to be 90%. Urbanisation is nowhers in its peak. The rate of urbanisation is decreasing a little in the order industrial countries but hardly shough to disturb the general upward trend.

CHAPTER - SIX

SUMMARY

Urbanisation in real sense in Bangla Desh started with the down of this century. Municipalities which nurtured training in self-Government formed the nucleus of politice-economic- administrative units. Facilities for education, scope for business and commercial activities and automaton of public utilities came with the administrative set up to catre the increasing needs which in turn, attracted the people to those centres. Gradually the system of transport and communication developed as flourishing trade and commerce needed and justified it. In this way a built in force was created and the growith of towns sustained somehow by thesselves.

Tables 3.2. 3.3, 3.4, 3.5, and 3.6 (page 34 and 35) provide a historical sketch of the development of urbanisation of Sangla Besh. The increase in the proportion of the urban population he more or less steady since 1901 except in 1911 when the cities were depopulated due/plague spidemic and in the decade 1941-51. This period saw the second world war and the colonsel famine of Sangel.

These two incidents are turning point in the history of urbanisation in Sangla Besh. In early 40 people left cities for the fear of bombing and other war raveges, but soon the famine brought thousands and millions of hungary villagers to the cities. Rural economy being completely shattered, people left villages with a hope of job opportunities and better prospect for life in urban areas. There also they met the most unfortunate fate and surrandered themselves to death. In the decade 1941-51, though the absolute population marked a negative growth by 65,000, urban growth trend recorded positive.

After pertition, growth of towns both in number and magnitude is swident from the above tables. The growth of towns above the trend that while some centres have steady rate of increase in population during each successive decade, other have widely fluctuating rates, but the number of towns belonging to a particular size-class is more or less uniform, except the size-class 10,000-20,000 during the present decade. Interesting enough to note that greater parcentage of urban population clustered in a few biger cities, and this tendency of agglomeration is steadily progressive.

Population of as many as eleven urban centres increased at rates higher than normal. This includes four cities of the country— Dacca, Marsyangonj, Khulna and Chittagong with a rate of growth around five, four, three and two respectively.

The other remaining urban centres grew at an usual rate around 100-200 p.c. over the two decades with a few exception like lawardi, Lahmonirhat, Saidpur, the three Reilwey coloney towns and Daulatpur, an industrial centre made a remarkable progress in positive direction while Barisel want to a negative direction and few other towns suffered more or less stagnancy in the process of development.

Another important fact that reveals from the study, is a good number of emerging urban centres in the country. These new towns numbering about 19 (mineteen), namely, Chhatak, Shorashal, Joydevpur, Tongi, Ashugonj, Pachagor, Jamelgonj, 8.Phlashbari, Pakahy, Bharamara, Gaurnadi, Sarupkhati, Dewangonj, Mirzapur, Sarda, Akhaura, Barguna, Deudkandi, and Lakaham, with a population range of between 3,000 to 12,000 emerge largely because of economic development amounted there digring the last decade.

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The distribution of urban centres in Bangla Desh is not uniform.

The total four cities of the country locate in the eastern part and two of them Dacca and Marayangonj are within a range of 12 miles. There is no city like urban-settlement in rest of the errors, which shows the deficiency in planning and recourse ellocation process to minimize development pattern by creating new growth poles in the northern region. Ofcourse, in recent years, Rajshahi is gaining much importance as a sest of higher education and administrative head quarters.

Considering the size of the country and its population, the number of towns and particularly small towns are rather few. This is because the people of the country do not generally live the town life. Limited means of communication, main dependence on agrarian resources and meagre development of modern industry are the main reasons for less urbanisation in the country.

In appearance most of the towns have some pattern of development along the arterial roads in an agricultural surrounding. The strests are narrow and single; their pattern emerge out of natural growth and not of conscious dealgn. The road nat in newly developed city-sites gives a fair account with their rectiliniar or griding pattern. They are relatively wider and provide side-walks.

With a few exception, the most of the towns are shabby, unclean and dull.

In most cases the people are congregated in ramshalkle structures. Sanitation is poor,

lend-use pattern is poorer and modern amenities available are below all the stendard.

Government offices, some educational institutions and prominent businessmen only are

ladged in better structures.

Most of the towns are again located near rivers for facility of transport and trade. Industrial activity is found in few larger Towns and their surroundings. Building characteristics are the mixture of indigenous and western art. Slues and dilapidated living bases the impression of poverty atriken economy of the country.

However, 'the urbanisation gives a new look toward life' the statement is justified from the following experience of our social-dynamics:(i) make dominance and undue superiority in the femily is declining, (ii) dress and consumption pattern is changing, (iii) early marriage is no longer predominant and polygamy rerely found, but court-slip is getting more understandable, (iv) Love for single family and tendency to reduce its size are more common;

(V) increasing employment of women folk and female education are getting importance.

reduce its size are more common; and finally (X);

The migration of thousands of rural folk to cities in an agro-based economy is a short of revolution to the life of humanity and it is the problem necessarily social, economic and political, needs to be solved more carefully and most honestly.

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