

**RESOURCE MAPPING OF THE BTC AREAS AND PRE-INVESTMENT  
FEASIBILITY STUDY FOR PREPARATION OF A DEVELOPMENT AND  
INVESTMENT PLAN FOR THE BTC AREAS (Volume-I)**



**Prepared for:**

**North Eastern Development Finance Corporation Ltd.  
Guwahati – 781 007**

**Prepared by:**

**North Eastern Industrial & Technical  
Consultancy Organization Ltd., (NEITCO),  
G.S. Road, Bhangagarh, Guwahati-781 005**

**FEBRUARY, 2008**

## TITLE OF THE STUDY

### “RESOURCE MAPPING OF BODOLAND TERRITORIAL COUNCIL (BTC) AREA PREPARATION OF DEVELOPMENT/INVESTMENT PLAN FOR BTC AREA”

#### • BTC at a Glance:

##### # Area:

The jurisdiction of BTC extends over 8,970.00 sq.km covering newly reorganized four districts namely Kokrajhar, Chirang, Baksa and Udalguri.

##### # Geographical Limits:

BTC is situated on the North Bank of the river Brahmaputra along the Southern Foothills of Bhutan and Arunachal Pradesh of India

##### # Location:

The geographical boundary of BTC lies between 26°7'12" N to 26°47'50" N Latitude and 89°47'40" E to 92°18'30" E Longitude and is in the North Western part of Assam. Korkajhar town the Administrative Head Quarter lies roughly between 26°25" N Longitude and 99°16'38" E Latitude).

##### # Boundary:

**North:** Bhutan and Arunachal Pradesh i.e. Indo-Bhutan International Boundary and Assam. Arunachal Inter State Boundary in the east.

**East:** Panchnoi River and Sonitpur District of Assam.

**South:** Artificial zig-zag boundary line i.e. remaining parts of Dhubri, Bongaigaon, Barpeta, Nalbari, Kamrup, Darrang and Sonitpur Districts.

**West:** Mainly river Sankosh, the Assam – West Bengal Inter State Boundary in the Northern portion and down below artificial boundary line of remaining portions of Kokrajhar and Dhubri district.

##### # Administrative Boundary:

The Bodoland Territorial Council or BTC has been divided into four districts for administration purpose. It has also been further subdivided into 8(eight) Civil Sub-divisions and 40(forty) Development Blocks, some of which are partly in BTC area and partly outside. The breakup of 4(four) districts and respective sub-divisions along with sub-divisional head quarters is provided below:

<u>District &amp; Hqr.</u>	<u>Sub-Division</u>	<u>Sub-divisional Head Quarter</u>
<b>Kokrajhar</b> Hqr. Kokrajhar	Kokrajhar Gossaigaon, Parbatjhora	Kokrajhar Gossaigaon, Kaziagaon
<b>Chirang</b> Hqr. Kajalgaon	Chirang Bijni	Kajalgaon Bijni
<b>Baksa</b> Hqr. Mushalpur	Salbari Tamulpur	Salbari Tamulpur
<b>Udalguri</b> Hqr. Udalguri	Udalguri Bhergaon	Udalguri Bhergaon

##### # Demography:

The total population of BTC area as per 2001 Census report is 26.31 Lakh out of  
(1)

which the ST population is around 52%. The average density of the population in BTC is 326 per sq.km. The demography of BTC is dominated by Bodos (around 90%), an aboriginal tribal community of Assam followed by Rabhas, Garos, Mishings etc. The other general communities are Adivasis i.e. Santal, Urao etc. and Koch Rajbangshis, Bengalis, Muslims, Assamese speaking Assamese, Marowaris, Biharis,

Nepalees, and Scheduled Caste people are also found in certain percentage. The population pattern of BTC area is provided below:

Sl.No.	District	ST	SC	GEN	Total Population
1.	Kokrajhar	528774	32609	337608	898991
2.	Chirang	169811	30035	143780	343626
3.	Baksa	338630	45967	333045	717642
4.	Udalguri	317412	28923	324685	671030
	<b>TOTAL</b>	<b>1354627</b>	<b>137544</b>	<b>1139118</b>	<b>2631289</b>

Source: OSD, Kokrajhar, BTC.

#### # Some basic statistics of BTC:

Total Geographical area	=	8970 sq.km.
Total Population	=	26.31 lakhs
ST Population	=	13.54 lakhs
SC Population	=	1.35 lakhs
Net cropped area	=	2.15 lakh ha.
% of area shown more than once	=	39%
Gross cropped area	=	3.48 lakh ha.
Total area under HYV	=	1.55 lakh ha.
% of area under HYV	=	59.8%
Cropping intensity	=	162%
Total no. of farm families	=	2,16,666
Average land holding	=	1.20 hectare.

#### oMajor and Minor Sector:

The existing economic activities of BTC area have been divided into 2(two) categories e.g. Major and Minor Sectors.

**Major Sectors** are Natural Resource and Traditional Skills based economy where large percentage of population of BTC are dependent for their livelihood. The following table broadly indicates the Major Sector in f BTC area.

Sl.No.	Sector	Sub-Sector
1.	Agriculture and related activities	<ul style="list-style-type: none"> <li>• Agriculture (Paddy cultivation etc.)</li> <li>• Horticulture</li> <li>• Pisciculture</li> <li>• Livestock Farming</li> <li>• Tea plantation</li> </ul>
2.	Skill based	<ul style="list-style-type: none"> <li>• Handloom, Weaving, Sericulture.</li> </ul>
3.	Forestry and Forest based	<ul style="list-style-type: none"> <li>• Eco-Tourism</li> <li>• Aromatic and medicinal plants.</li> <li>• Bamboo based industry.</li> </ul>

**Minor Sectors** are also combinations of natural resource based, skill based but which are not yet grown to a noticeable level. There should however, be no confusion that the minor sectors also if duly developed can take the place of major sector economy in future.

The following table indicates the Minor sectors in BTC area:

Sl. No.	Sector	Sub-Sector
1.	Generation of power from renewable sources like Rivers, Rivulets, forest/agro/horticulture wastes etc.	<ul style="list-style-type: none"> <li>• Hydel power</li> <li>• Bio-power</li> <li>• Solar power</li> </ul>

2.	Agro/horticulture based Industries	<ul style="list-style-type: none"><li>• Agro processing</li><li>• Food/Forest-vegetable processing</li></ul>
3.	Floriculture	<ul style="list-style-type: none"><li>• Value additional activities/trading</li></ul>

4.	Mines and Minerals	<ul style="list-style-type: none"> <li>• Mineral processing/training.</li> <li>• Mineral products</li> </ul>
5.	Medicinal/Aromatic Plants	<ul style="list-style-type: none"> <li>• Cultivation</li> <li>• Further Value Addition</li> </ul>

o **Economic Activities**

On the basis of structure of Productive Assets the economic activities in the BTC area have been classified into the following sectors.

- Natural Resource based sector
- Manufacturing sector
- Service
- Merchant Trade.

The following table provides sector-wise potential economic activities in BTC area.

Sl.No.	Sector	Present Economic Activities
<b>A</b>	<b>NATURAL RESOURCE BASED</b>	
1.	Agriculture and related activities	<ul style="list-style-type: none"> <li>o Horticulture</li> <li>o Commercial Floriculture</li> <li>o Sericulture</li> <li>o Pisciculture</li> <li>o Animal Husbandry/Dairy Farms</li> <li>o Tea plantation</li> </ul>
2.	Forestry & Forest Produce	<ul style="list-style-type: none"> <li>o Aromatic &amp; Medicinal Plants</li> <li>o Bamboo based industry</li> </ul>
3.	Mining & Minerals	<ul style="list-style-type: none"> <li>o Mineral processing</li> <li>o Mineral products</li> </ul>
<b>B</b>	<b>MANUFACTURING</b>	
1.	Agro based Industry	<ul style="list-style-type: none"> <li>o Milk processing</li> <li>o Ice cream</li> <li>o Agro processing (Fruits &amp; Vegetables)</li> <li>o Tea blending &amp; packaging</li> </ul>
2.	Infrastructure related Industry	<ul style="list-style-type: none"> <li>o Agro processing parks</li> <li>o Cold storage</li> <li>o Cement</li> </ul>
3.	Cottage Industry	<ul style="list-style-type: none"> <li>o Handloom</li> <li>o Handicrafts</li> </ul>
<b>C.</b>	<b>SERVICES</b>	
1.	Tourism	<ul style="list-style-type: none"> <li>o Resorts &amp; parks</li> <li>o Hotels &amp; Restaurants</li> <li>o Travel Services (travel agents &amp; car rentals)</li> </ul>
2.	Information and Communication Technology (ICT) services	<ul style="list-style-type: none"> <li>o IT / ITES facilities like cyber cafes &amp; training institutes</li> </ul>
3.	Financial	<ul style="list-style-type: none"> <li>o Banking</li> <li>o Financier for vehicles &amp; transporters, consumer goods etc.</li> </ul>
4.	Education	<ul style="list-style-type: none"> <li>o Training &amp; Vocational Institutes including Institutes for foreign languages etc.</li> <li>o Technical &amp; Management Institutes.</li> </ul>
5.	Healthcare	<ul style="list-style-type: none"> <li>o Hospitals &amp; Nursing Homes including medical &amp; paramedical Institutes</li> <li>o Diagnostic Centres</li> <li>o Chemists &amp; Druggists</li> </ul>

6.	Transportation	<ul style="list-style-type: none"> <li>○ Transport Agencies</li> <li>○ Vehicle Service Centres</li> </ul>
7.	Industrial Services	<ul style="list-style-type: none"> <li>○ Meat Processing,</li> <li>○ Repairing &amp; Maintenance (Farm equipment, Automobile).</li> </ul>
8.	Professional services	<ul style="list-style-type: none"> <li>○ Custom related consulting services</li> <li>○ Foreign Currency Dealing &amp; Transferring</li> </ul>

		Services.
<b>D.</b>	<b>MERCHANT TRADE</b>	
1.	Engineering Industry	<ul style="list-style-type: none"> <li>○ Light Engineering goods.</li> <li>○ Electrical goods.</li> </ul>

**Cluster-wise presentation of potential economic activities:**

**Sector: Agriculture & related activities:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Horticulture	All districts	<i>Vegetables:</i> Potato, carrot, <i>Fruits:</i> Apple, Banana, Guava, Jackfruit, Lemon, Litchi, Mango, Orange, Papaya, Pineapple, Arecanut, Coconut. <i>Spices:</i> Chilly, Garlic, Ginger, Turmeric.
2.	Commercial Floriculture	Udalguri, Baksa districts	Flower like Rose, Marigold, Gladiolus.
3.	Sericulture	All districts	Products like Eri, Muga, Mulbary.
4.	Pisciculture	All districts	Modern fish farming, development of farmers pond and community tank, Pig-cum-fish culture.
5.	Animal Husbandary/Dairy Farms	All districts	Piggery, Pork processing, Poultry farm, Dairy farm, cattle/poultry feed manufacturing, cultivation of fodders.
6.	Tea Plantation	Udalguri, Baksa districts	Tea nursery, tea plantation, tea processing,

**Sector: Forestry & Forest Produce:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Aromatic & medicinal Plant	All districts	Processing and value addition and arrangement of marketing of available aromatic and medicinal plants in BTC.
2.	Bamboo based Industry	All districts	Bamboo products like Bamboo mats, Murrahs, Japi, Bamboo decorative items, Bamboo furniture making, Bamboo floorboard, Bamboo panels and partition, Bamboo incense sticks.

**Sector: Mining & Minerals:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Mining & Minerals	All districts	Mineral products, processing like stone crushing, sizing.

**Sector: Agro-based Industry:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Milk processing	Kokrajhar, Chirang & Udalguri	Pasteurized Plant of 10,000 lpd capacity.

		districts	
2.	Ice cream	All district headquarters	Ice cream of varied flavours.
3.	Agro processing (Fruits & Vegetables )	All districts	Satelite collection/grading/shorti ng centres & pack-house facilities for fresh fruits and vegetables.
4.	Tea blending &packaging	Udalguri & Baksa districts	Tea blending and packaging unit.

**Sector: Infrastructure related Industry:**

<b>Sl. No.</b>	<b>Economic Activity</b>	<b>Potential Cluster/Districts</b>	<b>Particulars.</b>
1.	Agro processing	Kokrajhar	Central Government Scheme.

	parks.		
2.	Cold storage	All district headquarters	500 MT/1000 MT capacity.
3.	Cement	Udalguri, Baksa districts	Mini-Cement Plant (100 – 300 MT).

**Sector: Cottage Industry:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Handloom	All districts	Dokhna weaving, Silk/Eri/Mugaweaving,
2.	Handicrafts	All districts	Traditional cane & bamboo hand works.

**Sector: Tourism:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Resorts & Parks	All districts	Amusement park with proper lodging facilities
2.	Hotel & Restaurants	All districts	Hotel & restaurant with standard modern facilities at all district headquarters and tourism spots.
3.	Travel services	All district headquarters & sub-divisions.	Travel agencies with provision of car rental.

**Sector: Information and Communication Technology (ICT) service:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Cyber cafes and training institutes	All district headquarters/Sub-division	Cyber cafes with Internet facilities and training institutes on computer courses.

**Sector: Financial:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Banking	All districts	Opening of more Bank branches particularly in rural areas with improved CD ratio.
2.	Financer for vehicles & transporters, consumer goods	All district headquarters	Bank/ Private Agencies.

**Sector: Education:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Training & vocational institutes	All district headquarters	Covering important vocational courses.
2.	Technical & Management Institute	Kokrajhar/Kajalgaon	Covering Technical & Management Degree/Diploma courses.
3.	Medical & Para-medical Institute	Kokrajhar/Kajalgaon	Covering medical/para-medical degree/diploma courses.

**Sector: Healthcare:**

<b>Sl. No.</b>	<b>Economic Activity</b>	<b>Potential Cluster/Districts</b>	<b>Particulars.</b>
1.	Hospital & Nursing Homes	All district headquarters	Government/Private Hospital & Nursing home with all modern facilities
2.	Diagnostic Centre	All district headquarters and Sub-Divisions	Diagnostic centre with provision of all related testing facilities.
3.	Chemists & Druggists	All district headquarters and Sub-Division	With good stock of particularly common medicines.

**Sector: Transportation:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Transport Agencies	All district headquarters & Sub-Divisions	Provision of sufficient public carriers/buses/rental cars.
2.	Vehicle service centres	All district headquarters & Sub-divisions	Vehicle service centre with complete facilities.

**Sector: Industrial services:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Meat processing,	All district headquarters	Pork processing with modern facilities
2.	Repairing & Maintenance (Farm equipment, automobile)	All district headquarters	Repairing & maintenance with complete facilities.

**Sector: Professional services:**

Sl. No.	Economic Activity	Potential Cluster/Districts	Particulars.
1.	Custom related consulting services	Kokrajhar	Establishment of related agencies.
2.	Foreign currency dealing & transferring services.	Kokrajhar	Establishment of related agencies.

o **Action Plan for Augmenting Identified Economic Activities:**

Economic activities on the basis of available resources with target market opportunity can be augmented by active participation of the private investors large, medium or small. Such, enterprises of investors further need to be abetted by Governmental actions- direct or indirect. Therefore, this action plan consists of two major components, one is for Private Investors and other is for Government Agencies.

# **Overall Action Plan:**

- BTC authority should take the responsibility to
  - Provide conducive environment for growth
  - Arrangement for support infrastructure facilities
  - Encourage local private investments
  - Pro-active in attracting outside investments
  - Encourage quality consciousness
  - Encourage the export culture
- BTC Area may be having plenty of potential products, but awareness, initiatives and supporting facilities do not exist in abundance. The BTC authority should look at public-private sector participation for economic activities. Time bound target oriented development initiative should be taken by integrating various schemes under number of institutional support mechanisms already available e.g. Ministry for

Development of North Eastern Region (DoNER), North Eastern Council (NEC), NEDFi.

#### # **Specific Action Plan for Natural Resource based Sector:**

New technologies which are not only “Cost effective” but also “In conformity” with natural climatic regime.

Technologies relevant to rain-fed areas specifically;

Continued genetic improvements for better seeds and yields;

Data improvements for better research, better results, and sustainable planning;

Bridging the gap between knowledge and practice

Judicious land use resource surveys, efficient management practices and sustainable use of natural resources;

Economic industries focused on backward linkages.

#### # **Specific Action Plan for Manufacturing Sector:**

##### **General Issues:**

The general issues that need to be addressed are provided below:

##### **Ensuring availability of inputs/raw materials by way of :**

Thrust should be given towards increasing yield of the agriculture produce.

Educate cultivators and farmers with regard to adoption of modern farming techniques and the advantage of Green Revolution.

Raising the crop intensity with appropriate measures supporting ongoing irrigation schemes.

Propagate the organic cultivation and use of HYV seed.

Introduce contract farming through cooperatives with respect to agricultural or horticulture produces.

Introduce effective water management system to increase the number of cropping cycles.

Use of chemical and bio-fertilizers to increase the yield of agricultural produce.

Use of pesticides to reduce pre and post harvest losses.

Integrate small farms and large units to avail the benefits of economics of large scale production.

Reclaim land from unclassified forest areas and convert them to cultivable land.

##### **Availability of Skilled Labour:**

Arranging training programmes for entrepreneurship.

Extensive training programmes for cultivators to use modern facilities.

##### **Entrepreneurial Skills:**

Training facilities are required for development of entrepreneurs.

Educational soft loans should be given for higher studies likemanagement and engineering courses.

Develop awareness amongst the local entrepreneurs to set up modern small-scale industries.

Prospective investors need to be made aware of incentives offered by the state as well as Central Government.

##### **Capital Requirement:**

Rural and farm credit should be continued for providing timely and adequate credit to farmers.

Special measures like Micro-credit system needs to be promoted as an effective tool for bringing the rural poor into the formal banking system.

Steps need to be taken to provide credit facilities to farmers, artisans and entrepreneurs.

The credit/deposit ratio in the region needs to be improved sufficiently. The recovery rate needs substantial improvement.

**Marketing/Channels of Distribution:**

A determined effort needs to be made to integrate local market with the rest of the country.

Development of marketing infrastructure and techniques of preservation, storage and transportation with a view to reducing post-harvest losses. The establishment of cold chains, provision of pre cooling facilities to farmers and cold storage in the terminal markets and improving the retail marketing arrangements in urban areas should be given priority.

Market information systems have to be developed and the access of current market information needs to be provided to farmers.

**# Issues for Development of some specific industries based on availability of local resources:**

Private investment has got a big role to play in the BTC area to create long term economic sustenance. Higher levels of private investments are essential to generate greater capital formation, improve productivity, upgrade technology and create an industrious work culture. The levels of low infrastructure, geo-political isolation and isolated markets can actually be converted to economic advantage.

**Food Processing**

Development of Agro-processing Parks and Food Parks.

Make available Assistance from various related agencies and other Financial Institutions such as NHB, NABARD and APEDA.

Trade related R&D work on e.g. post-harvest technology, safer chemical preservatives.

**Sericulture:**

For development of sericulture the factors like increasing food leaf production, raising productivity of rearing and R&D work on Muga and Eri are important.

**Bamboo Based Industry:**

Adoption of improved technology, standard/improved designs and improved artisan skill, needs to be actively promoted. Help of experts should be obtained in identifying suitable technology, product designs and in imparting training to artisans and craftsman.

Dissemination of information regarding existing markets within and outside the BTC area to the growers, traders, bamboo enterprises etc

Research support for bamboo sector to improve quality, enhance productivity and value of products, sustainable management and diversified products be promoted.

Adequate training personnel need to be developed for bamboo resource development, propagation and supply of high yielding planting materials to farmers, harvesting management, industrial production, marketing and export.

**Handloom and Handicrafts:**

Development activities and promotion of this sector in rural areas are to be taken by providing necessary support like grant-in-aid, subsidies, raw

materials, working-shed, marketing and training facilities, etc.

Emphasis needs to be laid on providing assistance directly to handloom weavers and artisans, including upgradation of their skills with adequate infrastructure at the village level. Training in modern management techniques of production, marketing, accounting cost analysis etc. is essential for the development of the handloom sector.

In order to facilitate the marketing of handloom and handicrafts products emporiums/showrooms are required to be established within and outside the BTC area.

The office of the Development Commissioner for Handlooms should organizes National Handloom Expos, District Level Events, Craft Melas etc. in different parts of BTC.

**Dairy Farming/Processing:**

Make provision for improvement in cattle healthcare such as better nutrition through balance feed, use of by-pass protein technology, improved veterinary services and potency of vaccines, improved hygiene conditions for housing cattle, supply of good quality drinking water etc. Improvement of quality of milk and reduction of procurement losses.

**Meat Industry:**

Introduction of modern slaughter facilities such as appropriate refrigeration facilities/cold chains.  
Extermination of contagious cattle diseases.  
Improvement in breeding techniques and production of better quality cattle, poultry and goats.  
Increase in egg and meat production through systematic poultry farming.

● **Action Plan for Augmenting Infrastructure Development:**

In the development process of any location infrastructure development is the key factor. Unless proper physical infrastructure is developed other development cannot take place. The main constraint towards development of economic activities in the BTC area is the prevailing low infrastructure facilities in the area. The following general actions need to be taken for developing the basic infrastructure in the area.

The required feeder roads of the BTC area need to be developed for better transportation facilities.

The irrigation facilities need to be improved and more area should be brought under irrigation. Necessary steps should be taken to revive the non-functional irrigation projects in BTC areas.

The telecom sector in the BTC area needs development.

Large-scale power generating plants needs to be established for harnessing the hydel power potential in the area, which have the capacity of meeting the requirements of the BTC area and also has surplus potential.

Warehouses, cold storages and refrigeration units need to be developed in order to control wastage of raw materials and reduce post-harvest losses of Agro-horticulture products.

The information technology sector should be given due consideration.

The healthcare sector needs to be improved in BTC area. There is need for establishment of more primary units in the rural areas. Investment in profitable super-specialty healthcare units (Cardiology, Urology, and

Ophthalmology) is required for providing quality healthcare. BTC should encourage private sector participation on healthcare system.

## # Action Plan for Service Sector:

### **Tourism:**

Appropriate tourism infrastructure is of prime importance to attract both domestic and foreign tourists. Efforts need to be made to explore external assistance, central assistance, and state resources with private investment. In order to develop infrastructure, the BTC Authority has to prepare an area-based master plan outlining the infrastructure necessary in each area. Tourism facilities that are already in existence need to be reviewed and modified accordingly. It should be seen that integrated units are developed which take care of the entire needs of the tourist, including conveyance to enable the tourists to reach the state without much hazards. Seminars, Business Summits should be organized to promote tourism opportunities explore business prospects and access a large number of potential tourists who can be provided various travel packages in BTC area. Proper advertising and marketing is required to attract foreign tourists, which would enable the BTC Authority to earn foreign exchange. The tourism sector may be developed by tying-up with recognized travel agencies of national and international repute (Sita, Cox and Kings etc.),

### **Healthcare:**

Basic healthcare facilities are to be created in rural areas which are yet to be covered under such facilities. Super specialty hospitals preferably in joint sector/private sector should be created at least in the district headquarters. AIDS control measures, malaria control measures, family welfare measures are to be duly implemented in BTC area.

### **Education:**

There is immense scope for promotion of technical and professional education particularly in the district headquarters of BTC area. BTC Authority should encourage brand-affiliated all India (public & Private) institutions to open facilities in BTC area. Also scope is there for promotion of a medical/para-medical institute in BTC. More and more primary level schools are to be opened throughout the BTC area in order to enable achieve near 100% literacy. Also number of Secondary Schools and Colleges are to be suitably increased.

### **Action Plan for Trade Led Development:**

There is the need for emphasis on strengthening of connectivity (i) between the BTC area and other region of the country, and (ii) within the BTC area. The concept of Self Help Groups(SHG) is extremely relevant for BTC area in view of the scope for promotion of labour intensive projects.

### **Development and Investment Plan:**

Provided below is the Development and Investment Plan based on the careful assessment of the prevailing scenario in BTC areas with regard to available resources, existing and potential economic activities and

additional requirement of infrastructure to achieve the goal of significant upliftment in overall socio-economic development in BTC areas. This plan has not taken into consideration the investment already made/to be made /under active consideration against the various projects as already highlighted in Chapter-3 on Ongoing/Proposed Government Development Schemes in BTC Areas in Vol- II of this report. Besides, for finalization of exact locations for these development projects the concerned authority should take a system evaluation approach.

### Development and Investment Plan for BTC Areas

(Rs. Lakh)

Sl.No.	Particulars of Project	Suggested Location	Unit cost	Total cost
1.	Provision of collection centres (8 Nos.)	Sub-divisional Headquarters	8.00	64.00
2.	Provision of Storage/ Godowns (4 Nos.)	1 No. in each district	15.00	60.00
3.	Provision of reefer transportation (4 Nos.)	1 No. in each district	15.00	60.00
4.	Provision of Pack houses(0.5 – 1.00 TPH) 4 Nos.	District Headquarters	45.00	180.00
5.	Provision of Cold Storage( 500 MT) 2 Nos.	Gossaigaon, Udalguri	90.00	180.00
6.	Fruit Processing unit(100 MT) 3 Nos.	Kokrajhar, Tamulpur, Udalguri	70.00	210.00
7.	Bamboo based Industry with modern technology (8 Nos.)	Sub-divisional Headquarters	80.00	640.00
8.	Common Facility Centre for Bamboo based industry(4 Nos.)	District Headquarters	120.00	480.00
9.	Common Facility Centre for Handloom Textiles, Yarn dyeing (4 Nos)	District Headquarters	80.00	320.00
10.	Provision for Bamboo cultivation under Bamboo Mission	All districts	50.00	200.00
11.	Dairy farm (25 – 50 cattle) 16 Nos.	2 Nos. each in Sub-divisional Headquarters	40.00	640.00
12.	Milk Processing Unit(100 MT) 2 Nos.	Kajalgaon, Udalguri	250.00	500.00
13.	Ice-cream unit (2 Nos.)	Kajalgaon, Udalguri	50.00	100.00
14.	Poultry/Piggery Farm(16 Nos.)	2 Nos. each in Sub-divisional H.Q.	30.00	480.00
15.	Pork processing unit(2 Nos.)	Kokrajhar, Udalguri	180.00	360.00
16.	Commercial Floriculture – cultivation (2 Nos.)	Udalguri, Mushalpur	20.00	40.00

17.	Modern fish farming(26 Nos.)	1 No. in each Development Block	20.00	520.00
18.	Weaving with modern facilities (8 Nos.)	Sub-Divisional Headquarters	50.00	400.00
19.	Tea Blending & Packaging Unit (1 No.)	Udalguri/Tangla	60.00	60.00
20.	Mini Cement Plant(100 MT) 1 No.	Udalguri/Tangla	1800.00	1800.00
21.	Repairing & Maintenance(Farm equipment, automobile) 4 Nos.	All district Headquarters	80.00	320.00
22.	Hotel & Restaurant with	District Headquarters	100.00	400.00

	modern facilities (4 Nos.)			
23.	Provision for standard way side Amenities, particularly to Tourist Spots.	All districts	30.00	120.00
24.	Travel Agencies with provision of car rental(8 Nos.)	Sub-Divisional Headquarters	40.00	320.00
25.	Cyber Cafes and TrainingInstitutes (8 Nos.)	Sub-divisional Headquarters	120.00	960.00
26.	Opening new primary schools, H.S. /Jr. Collegein uncovered areas, and improvement of existing edu- infrastructure	H.S/Jr.college inSub-Divisional Headquarters	200.00 per district	800.00
27.	Training & Vocational Institutes (4 Nos.)	District Headquarters	250.00	1000.00
28.	Technical & ManagementInstitute (1 No.)	Kokrajhar/Kajalgaon	1000.00	1000.00
29.	Medical and Para-medicalInstitute (1 No.)	Kokrajhar/Kajalgaon	1500.00	1500.00
30.	Provision for Entrepreneur-ship Development	All districts	20.00	80.00
31.	Hospital & Nursing Homeswith modern facilities (4 Nos.)	All district Headquarters	250.00	1000.00
32.	Diagnostic Centre with allrelated testing facilities (8 Nos.)	Sub-divisional Headquarters	60.00	480.00
33.	Provision for AIDs/MalariaControl Measures and Family Welfare	All districts	100.00	400.00
34.	Sports complex (8 Nos.)	Sub-Divisional Headquarters	150.00	1200.00
35.	Provision of CommunityHall (26 Nos.)	All Development Blocks	20.00	520.00
36.	Provision for Mini-HydelProjects (4 Nos.)	Sankosh, Bhur, Ai,Champa rivers	800.00	3200.00
37.	Provision for drinking watersupply	All districts	500.00	2000.00
38.	Provision for Market information with modernfacilities (4 Nos.)	District Headquarters	15.00	60.00
39.	Provision for expansion ofBanking Network, (16Nos.)particularly in Rural Areas	All districts	20.00	320.00

40.	Provision for Rural Electrification in uncovered Rural Areas	Uncovered rural areas in BTC	500.00	500.00
41.	Provision for Improvement in Tele-Communication facilities	Entire BTC	250.00 (L.S)	250.00
42.	Provision for Construction/Improvement of Roads & Bridges (Additional requirement)/Forest Roads	Refer 6.5.2, 6.5.3, 6.5.4 in Chapter-6, Vol-I.	4000.00 (L.S)	4000.00
43	Revival of Non-functional Irrigation Projects	All districts	350.00 (L.S)	350.00
44.	Provision for camping and trekking facilities, composite water sport	Various related tourist spots of BTC	150.00 (L.S)	150.00

	facilities in tourist spots			
45.	Provision for Agro-processing Park (1 No.)	Gossaigaon	2000.00 (L.S)	2000.00
46.	Provision for Industrial Growth Centre (IGC)	Kokrajhar	1500.00	1500.00
47.	Provision for IIDC	Udalguri	500.00	500.00
48.	Provision for Industrial Estate (IE) – 2 Nos.	Kajalgaon, Tangla	90.00	180.00
49.	Provision for Commercial Centre(CC) – 3 Nos.	Tamulpur, Bilasipara, Rowta	70.00	210.00
	<b>Total of Item 1 to 45.</b>			<b>32554.00</b>
50.	Provision of Contingencies @ 10% towards delay/ escalated cost, if any.			3255.40
	<b>GRAND TOTAL</b>			<b>35809.40</b>

**Say: 36000.00**  
**i.e. Rs 360 Crores**

**Possible Funding Sources:**

The total required investment of Rs 360 Crores has to be sourced in a judicious manner by the BTC Authority. Apart from possible private, public-private investment the Authority must explore the alternative sources of State Government as well as Central Government funds especially for infrastructure projects. The Authority may also explore possible external sources e.g. ADB, World Bank. Besides, existing schemes of various funding organizations may be duly utilized as per prevailing norms by the authority to meet the required investment. Establishment of Entrepreneurship Guidance Cells at district Headquarters is of utmost importance to provide necessary details (e.g. mechanism of funding) about the funding organizations to the needy entrepreneurs/agencies. Besides, existing institutions like NEITCO, IIE, SISI may be duly given the responsibility to promote entrepreneurship in BTC. Provided below are some of such funding organizations:

- Technology Mission for Integrated Development of Horticulture in the North Eastern States, Ministry of Agriculture, Government of India, New Delhi.
- Financial Assistance Schemes of APEDA, New Delhi.
- Schemes of National Horticulture Board, Gurgaon.
- Various related ongoing schemes of –
  - DoNER
  - NEC
  - NABARD
  - Spices Board
  - Related Departments of Govt. of India
  - Related Departments of Govt. of Assam
  - National Bamboo Mission
  - EXIM Bank
  - N.E. Industrial Policy, 2007.

**Time Frame:**

The Development and investment plan for BTC Areas so prepared becomes meaningless unless it is duly supported by possible funding sources for the plan and its at least a tentative time frame for execution on project to project basis. It is assumed that most of the projects covered under the plan would be tentatively ready

for execution from FY 2008-09 onwards, after dully undergoing the required formalities of study on feasibility aspect of the project and subsequent sanction and disbursement of the fund by the competent authority. It is also assumed that most of the projects would come up within a span of 5 years from FY 2008-09 to FY 2012-2013. The details of the tentative time frame envisaged for the projects under

the plan is provided below on priority basis separately for each FY from FY 2008-09 to FY 2012-13:

Sl. No.	Particulars	FY 2008-09	Fy 2009-10	Fy 2010-11	Fy 2011-12	Fy 2012-13
1.	Provision of collection centres (8 Nos.)	2 Nos.	2 Nos.	4 Nos.	--	--
2.	Provision of Storage/Godowns (4 Nos.)	2 Nos.	2 Nos.	--	--	--
3.	Provision of reefer transportation (4 Nos.)	2 Nos.	1 No.	1 No.	--	--
4.	Provision of Pack houses(0.5 – 1.00 TPH) 4 Nos.	1 No.	1 No.	2 Nos.	--	--
5.	Provision of Cold Storage( 500 MT) 2 Nos.	--	1 No.	--	1 No.	--
6.	Fruit Processing unit(100 MT) 3 Nos.	1 No.	1 No.	1 No.	--	--
7.	Bamboo based Industry with modern technology(8 Nos.)	2 Nos.	2 Nos.	2 Nos.	2 Nos.	--
8.	Common Facility Centre for Bamboo based industry (4 Nos.)	1 No.	1 No.	1 No.	1 No.	--
9.	Common Facility Centre for Handloom Textiles, Yarn dying (4 Nos)	1 No.	1 No.	--	1 No.	1 No.
10.	Provision for Bamboo cultivation under Bamboo Mission	√	√	√	√	√
11.	Dairy farm (25 – 50 cattle) 16 Nos.	4 Nos.	4 Nos.	4 Nos.	2 Nos.	2 Nos.
12.	Milk Processing Unit(100 MT) 2 Nos.	1 No.	--	1 No.	--	--
13.	Ice-cream unit (2 Nos.)	1 No.	--	--	1 No.	--
14.	Poultry/Piggery Farm(16 Nos.)	4 Nos.	4 Nos.	4 Nos.	2 Nos.	2 Nos.
15.	Pork processing unit(2 Nos.)	--	1 No.	--	--	1 No.
16.	Commercial Floriculture – cultivation (2 Nos.)	--	1 No.	--	1 No.	--
17.	Modern fish farming(26 Nos.)	6 Nos.	5 Nos.	5 Nos.	5 Nos.	5 Nos.
18.	Weaving with modern facilities (8 Nos.)	4 Nos.	2 Nos.	2 Nos.	--	--
19.	Tea Blending & Packaging	--	--	1 No.	--	--

	Unit (1 No.)					
20.	Mini Cement Plant(100 MT) 1 No.	--	--	1 No.	--	--
21.	Repairing & Maintenance(Farm equipment, automobile) 4 Nos.	--	1 No.	1 No.	1 No.	1 No.
22.	Hotel & Restaurant with modern facilities (4 Nos.)	2 Nos.	1 No.	1 No.	--	--
23.	Provision for standardway side Amenities, particularly to Tourist Spots.	√	√	√	√	√
24.	Travel Agencies with provision of car rental	4 Nos.	--	2 Nos.	--	2 Nos.

	(8 Nos.)					
25.	Cyber Cafes and Training Institutes (8 Nos.)	2 Nos.	2 Nos.	2 Nos.	2 Nos.	--
26.	Opening new primary schools in uncovered areas, H.S. /Jr. College and improvement of existing edu- infrastructure	√	√	√	√	√
27.	Training & Vocational Institutes (4 Nos.)	--	1 No.	1 No.	1 No.	1 No.
28.	Technical & Management Insitute (1 No.)	--	--	1 No.	--	--
29.	Medical and Para- medical Institute (1 No.)	--	--	--	1 No.	--
30.	Provision for Entrepreneur- ship Development	√	√	√	√	√
31.	Hospital & Nursing Homes with modern facilities (4 Nos.)	1 No.	1 No.	1 No.	1 No.	--
32.	Diagnostic Centre with all related testing facilities (8 Nos.)	2 Nos.	2 Nos.	2 Nos.	2 Nos.	--
33.	Provision for AIDs/Malaria Control Measures and Family Welfare	√	√	√	√	√
34.	Sports complex (8 Nos.)	--	2 Nos.	2 Nos.	2 Nos.	2 Nos.
35.	Provison of Community Hall (26 Nos.)	4 Nos.	4 Nos.	6 Nos.	6 Nos.	6 Nos.
36.	Provision for Mini- Hydel Projects (4 Nos.)	--	1 No.	1 No.	1 No.	1 No.
37.	Provision for drinking water supply	√	√	√	√	√
38.	Provision for Market information with modern facilities (4 Nos.)	--	1 No.	1 No.	1 No.	1 No.
39.	Provision for expansion of Banking Network, (16Nos.) particularly in Rural Areas	3 Nos.	3 Nos.	3 Nos.	3 Nos.	4 Nos.
40.	Provision for Rural Electrification in uncovered Rural Areas	√	√	√	√	√

41.	Provision for Improvement in Tele-Communication facilities	√	√	√	√	√
42.	Provision for Construction/ Improvement of Roads & Bridges (Additional requirement)	√	√	√	√	√
43	Revival of Non-functional Irrigation Projects	√	√	√	√	√
44.	Provision for camping and trekking facilities, composite water sport facilities in tourist spots	√	√	√	√	√
45.	Provision for Agro-processing Park (1 No.)	--	--	1 No.	--	--
46.	Provision for Industrial	--	1 No.	--	--	--

	Growth Centre (IGC)					
47.	Provision for IIDC	--	1 No.	--	--	--
48.	Provision for Industrial Estate	--	1 No.	1 No.	--	--
49.	Provision for Commercial Centre (CC)	--	1 No.	1 No.	1 No.	--

### Ongoing/Proposed Government Development Scheme in BTC Area

#### # 36 Projects for BTC Area funded under NLCPR:

The details of identified 36 projects for Bodoland Territorial Council area funded under NLCPR are provided below:

Sl.No	Project Name	Indicative Cost (Crore Rs)	Funds Released (Crore Rs)
	<b>2004-05</b>		
1.	Improvement of Dhamdhama Tupalia Subankhata (DTS) Road (Metalling and black-topping of remaining stretches including improvement of existing metalled surface)	5.89	2.94
2.	Improvement of Kaurbaha-Nagrijiuli Road by metalling and black-topping including conversion of SPT Bridges into RCC Minor Bridges under special package for BTCAD	5.71	2.85
3.	Metalling and Black-topping of Narabari Dawkibari Road (Narabari to Florican Garden Via Malgaon)	15.95	7.98
4.	Improvement of North Kajolgaon Bangtol Road	5.98	2.99
5.	Improvement of Bhowraguri Kachugaon Road in Kokrajhar	23.91	11.96
6.	Improvement and upgradation of Kashikotra to Basugaon Road	5.56	2.78
7.	Improvement of Sundari Bidyapur via Kakragaon Road	9.31	4.66
8.	Metalling and backtopping of Gossaigaon to Saraibil Road including improvement of existing hard crust and conversion of STP bridge to RCC bridges	20.82	10.41
9.	Widening and Strengthening of Fakiragram-Serfanguri Road including conversion of STP bridge to RCC bridges	20.64	10.41
10.	Improvement of North Kajolgaon Bengtol Sonitpur Road, Chirang	8.10	4.05
11.	Construction of Road from NH-31 at Barama to Masalpur, Baksa	10.86	5.43
12.	Improvement of Jalah Rupahi Saudarbhitha Gobardhana Road, Baksa	10.00	5.00
13.	Improvement of Udalguri Bhakatpara Road via Bhairaguri, Udalguri	4.44	2.22
	<b>2004-05</b>		
14.	Improvement of Barnagaon Pakribari Road, Udalguri	1.50	0.75
15.	Improvement of Kalaigaon Kundarbil Road, Udalguri	1.32	0.66
16.	Construction of 100 bedded Hospital at Kajalgaon in BTC area of Assam	41.91	7.99
17.	Kokrajhar Water Supply Scheme, Kokrajhar	24.02	12.01
18.	Construction of Bodofa Cultural Complex at	10.00	5.00

	Kokrajhar		
	<b>Subtotal (2004-05)</b>	<b>225.92</b>	<b>100.00</b>
	<b>2005-06</b>		
19.	Champabati Irrigation Project	43.85	19.73
20.	Renovation/Re-construction of RNB Civil Hospital at Kokrajhar	7.43	3.34
21.	Subankhata Water Supply Scheme	3.64	1.64
22.	Sukla Irrigation Project	8.13	3.66
23.	Goreswar to Khoirabari Road	6.57	2.96
24.	Bhergaon-Chouni-Khagraabari-Dimakuchi Road	1.32	0.59

25.	Lailongpara-Kopati Road (Via Boro Bazar)	1.32	0.59
26.	Khowrang Mahanpur Road	2.50	1.13
27.	Chapaguri-Khagrabari Road	6.30	2.84
28.	Tulsijhyora-Kailamaila Road Via Amguri	9.00	4.05
29.	Bijni- Panbari Road	15.58	7.01
30.	Gossaigaon to Kazigaon via Bhukka, Tipkai Road	11.00	4.95
31.	Construction of Cold Storage at Udalguri district	4.35	0.00
32.	Construction of Cold Storate at Kokrajhar district	4.35	0.00
33.	Construction of North East Gate Way Bus Terminus atSrinwgai Gossaigaon	1.44	0.00
34.	Improvement of Tihu Doomni Road leading to Indo-Bhutanfoothills from 7 <sup>th</sup> to 25 km in Baksa district	9.95	0.00
35.	Improvement of Khoirabari MPK road (Andherighat) to harisinga via Bhergaon, Tangla and Purandia 42.25 kmlength with conversion of 11 SPT bridges to RCC	26.50	0.00
36.	Construction of Kashikotra Bamungaon Bengtol Road	11.70	0.00
	Sub-Total (2005-06)	174.93	52.49
	<b>TOTAL</b>	<b>400.85</b>	<b>152.49</b>

# **Other projects already undertaken as well as proposed in BTC area:**

- Mini-hydel Projects at selected rivers flowing from Bhutan.
- Logistic Hub at Samthaibari.
- Comprehensive tourism projects for development of facilities.
- Township at Kajalgaon
- Industrial Park at Chirang district.
- Revival of Bongaigaon Thermal Project.
- Implementation of Pagladia Dam Project.
- Package to improve Handloom Skills.

• **Indicative Project Profiles:**

Project profiles on fifteen identified economic activities for BTC areas have been prepared mainly highlighting the market scenario and SWOT analysis. These project profiles are mere indicative only and would provide first hand information to prospective entrepreneurs as well as concerned departments to derive definite conclusive necessity and viability of such projects. However, before undertaking any final decision towards the setting up of any of the identified projects, detailed market survey and detailed project report on the same has to be prepared by some reputed consultancy agencies for successful implementation of the projects. The probable locations where these identified projects may come up have been based on the prevailing scenario of the potentiality in the BTC areas as discussed in details in Vol-I of this report. The project profiles prepared are as follows (for detailsrefer vol-II of the report).

1. Agro-Processing (Fruits & Vegetables) 2. Horticulture Products 3. Cold Storage. 4. Bamboo Based Industry. 5. Aromatic & Medicinal Plants. 6. Sericulture. 7. Handloom. 8. Handicrafts.	10. Milk Processing. 11. Ice-cream 12. Commercial Floriculture. 13. Services Sectors. Tourism Healthcare. ICT Transportation 14. Merchant Trade. 15. Tea Blending & Packaging.
--	---

9. Commercial Dairy Farms.	
----------------------------	--