

## CHAPTER -2

**HAZARD, RISK, VULNERABILITY AND CAPACITY ANALYSIS**

## A. Economic ,Occupational ,Social &amp; Educational Profile of the Population

As per the provisional census report 2011, the brief demographic profile of the district is as follows.

| TOTAL POPULATION | TOTAL MALES | TOTAL FEMALES | SEX RATIO | POPULATION DENSITY |
|------------------|-------------|---------------|-----------|--------------------|
| 953,773          | 484,825     | 468,948       | 967       | 475                |

Total number of villages .total population along with population by sex, main tribes and distance from district headquarter, Mushalpur to different subdivision of Baksa district.

| Name of the Subdivision | No of villages | Main tribes  | Distance from Mushalpur ( in Kms) |
|-------------------------|----------------|--|-----------------------------------|
| Mushalpur               | 208            | Bodo, Mainstream Assamese, Nepali ,Adibasi                     | 0                                 |
| Salbari                 | 193            | Bodo, Mainstream Assamese, Nepali ,Adibasi, Religious minority | 65                                |
| Tamulpur                | 286            | Bodo, Mainstream Assamese, Nepali ,Adibasi, Bengali , Rabha ,  | 73                                |

A.1 **Occupational Profile of the District**

Agriculture and allied sector (livestock, poultry and pisciculture) is the prime occupation of the people living the district.

A.2 **Social Profile of the District**A.3 **Educational Profile of the District**

As per the provisional census report 2011, the literacy rate of the district is as follows

| Literate Total Persons | Literate Total Male | Literate Total Female | Literacy Rate Persons (%) | Literacy Rate Male (%) | Literacy Rate Female (%) |
|------------------------|---------------------|-----------------------|---------------------------|------------------------|--------------------------|
| 589,866                | 333,856             | 256,010               | 70.53                     | 78.55                  | 62.23                    |

## A.3.1 Educational Institutions of the District

| Sl No | Educational Institutions                | Nos |
|-------|---|-----|
| 1     | Higher Secondary School –Provincialised | 11  |
| 2     | High School –Provincialised             | 80  |
| 3     | Recognised High School                  | 118 |

|    |  |      |
|----|--|------|
| 4  | Non –Recognised High School                      | 27   |
| 5  | Lower Primary School/ MV School – Provincialized | 1054 |
| 6  | Pre-Primary                                      | 120  |
| 6  | ME Scholl – Provincialised                       | 201  |
| 7  | LP School - Venture                              | 499  |
| 8  | ME School - Venture                              | 265  |
| 9  | Anganwadi Centre                                 | 2362 |
| 10 | Jawahar Navodaya Vidyalaya                       | 1    |
| 11 | College –Govt .Aided                             | 3    |
| 12 | College – Non –Deficit Degree College            | 7    |
| 13 | Junior College – Govt .Aided                     | 16   |

#### A.4 Health Institutions in the District

##### HEALTH INSTITUTIONS IN THE DISTRICT

| Sl | Name of Health Institutions | No  |
|----|-----------------------------|-----|
| 1  | Civil Hospital              | 1   |
| 2  | Community Health Centre     | 5   |
| 3  | Block Primary Health Centre | 6   |
| 4  | Mini Primary Health Centre  | 18  |
| 5  | State Dispensary            | 13  |
| 6  | Subsidiary Health Centre    | 3   |
| 7  | Sub Health Centre           | 157 |

##### Man Power under Health Department

| Sl | Man Power                 | No  |
|----|---------------------------|-----|
| 1  | Doctors                   | 102 |
| 2  | GNM                       | 12  |
| 3  | ANM                       | 361 |
| 4  | Pharmacist                | 53  |
| 5  | Health Educator           | 14  |
| 6  | Lab Technician            | 49  |
| 7  | Rural Health Practitioner | 11  |
| 8  | ASHA worker               | 960 |

## B. Disaster Specific History of the District

The subdivision wise disaster specific history of the last ten years is summarized as follows

| <b>SALBARI SUBDIVISION</b>   |                   |                                    |
|------------------------------|-------------------|------------------------------------|
| Sl                           | Disastrous events | Year of occurrence                 |
| 1                            | Flood             | 2004,2007                          |
| 2                            | Landslide         | NA                                 |
| 3                            | Drought           | 2005                               |
| 4                            | Earthquake        |                                    |
| 5                            | Storms            | 2004,2005,2006,2007,2008,2009,2010 |
| 6                            | Fire Accident     | 2006,2008,2009,2010,2011           |
| 7                            | Ethnic clash      |                                    |
| 8                            | Bomb Blast        |                                    |
| 9                            | Errosion          | 2007                               |
| <b>MUSHALPUR SUBDIVISION</b> |                   |                                    |
| 1                            | Flood             | Flash flood comes every year       |
| 2                            | Landslide         |                                    |
| 3                            | Drought           | 2006                               |
| 4                            | Earthquake        |                                    |
| 5                            | Storms            | 2007                               |
| 6                            | Fire Accident     | 2009,2010,2011                     |
| 7                            | Ethnic clash      |                                    |
| 8                            | Bomb Blast        |                                    |
| 9                            | Errosion          | Every year                         |
| <b>TAMULPUR SUBDIVISION</b>  |                   |                                    |
| 1                            | Flood             | 2003,2004,2005,2007,2008           |
| 2                            | Landslide         | NA                                 |
| 3                            | Drought           | 2009                               |
| 4                            | Earthquake        |                                    |
| 5                            | Storms            | 2007                               |
| 6                            | Fire Accident     | 2009,2010,2011                     |
| 7                            | Ethnic clash      |                                    |
| 8                            | Bomb Blast        | 2008                               |
| 9                            | Errosion          | It occurs every year               |



There is incidence of wild animal invasion into the human habitations lying near the Indo Bhutan border. Wild animal particularly wild elephants coming down from nearest Bhutan hills and Manas National Park and damage crops and houses. Although it happens at any time, but most frequently, wild elephants do damage during the period from June to October. About 9 villages from Salbari subdivision, 9 villages from Tamulpur subdivision and 10 villages from Mushalpur subdivision are mostly affected by wild elephants. Along with the wild elephants, wild pig also damage crops particularly in Salbari Subdivision.

D. Disaster Probability: The disaster probability of the district is reflected subdivision wise as follows

#### DISASTER PROBABILITY OF THE SALBARI SUBDIVISION

| Sl | Types of Disaster                           | Times of Occurrence          | Potential Impact/Probable Damages                              | Vulnerable villages   |
|----|---|------------------------------|--|---|
| 1  | Flood                                       | June ,July ,August,Sept, Oct | Damage of Roads, House, Building, Agriculture crops, Livestock | 71 villages of Barnagar circle and 13 villages of Sarupeta circle |
| 2  | Landslide                                   | NA                           | NA   | NA  |
| 3  | Earthquake                                  | Unpredictable                | House, Building, Road ,Bridges                                 |   |
| 4  | Storm                                       | April ,May                   | Damage of house ,building , falling of trees                   | All the villages are susceptible                                  |
| 5  | Drought                                     | May to Aug                   | Agriculture land and crop                                      |   |
| 6  | Erosion                                     | April to September           | Residential land and cultivable land                           | 71 villages of Barnagar circle and 13 villages of Sarupeta circle |
| 7  | Fire accident                               | Any time                     | House and household property                                   |   |
| 8  | Wild Animal Invasion ( Wild Pig & Elephant) | June to October              | Crops, House, Human life                                       | 10 Nos of villages of Barnagar Rev Circle                         |

#### Vulnerability Increased from Flash Flood Caused by Release of Excess Water From Kurishu Dam

The Kurishu HE Project is located on river Kurichu in Mongar district in Bhutan. The plant consists of a 55m high concrete dam and a surface powerhouse at the foot of the dam with an installed capacity of four generating units each of 15 MW. The dam in Kurichu river in Bhutan constructed for power production has increased the vulnerability to Lower Assam, especially the districts of Baksa, Barpeta and Chirang. Water released from the dam gushes down the plains of Assam and causes floods in Lower Assam. Every year lives are lost and thousands of hectares of arable land destroyed. Soil erosion has also emerged as a major problem in these areas. Excess water released from the Kurishu dam, located about 100 km from Manas takes about 12 to 14 hours to reach Assam creating devastation here. In 2004, waters from the dam led to high flood in the Beki river in Barpeta and vast area in Baksa and Barpeta district was affected and

losses ran to over Rs 180 crore. Again in 2007, the Narayanguri embankment was breached by the Beki river as water gushed into the river from Bhutan. This has destroyed 57,452 hectre of agriculture land and about 50000 hectre of agricultural land were rendered uncultivable due to heavy siltation in both Baksa and Barpeta distirct. The devastating flood inundated 758 villages of Barpeta and 111 villages of Baksa district and about 88,807 families were affected in both the distirct. Moreover this flash flood made homeless to 6415 families in Barpeta and 3034 families in Baksa district. The total human life loss was 31 in Barpeta district.(Report: Pratidin ,12<sup>th</sup> July 2011, P4).

Rivers in districts of Barpeta, Baksa and Dhubri districts of Assam were suddenly in spate on May 26 to May 28, 2009 due to release of water from the Kurishu dam in Bhutan following torrential rains. It triggered flash floods that claimed five lives in Dhubri district and one in Barpeta district besides inundating hundreds of villages

#### DISASTER PROBABILITY OF THE TAMULPUR SUBDIVISION

| Sl | Types of Disaster                | Times of Occurrence | Potential Impact/Probable Damages            | Vulnerable villages   |
|----|----------------------------------|---------------------|--|---|
| 1  | Flood                            | June to October     | House ,Crops , Livestock                     | 8 Nos of villages under Goreswar Rev.circle : List enclosed at Annexure |
| 2  | Landslide                        | NA                  | NA   | NA  |
| 3  | Earthquake                       | Unpredictable       | House, Building, Road ,Bridges,              |   |
| 4  | Storm                            | March to May        | Residential house ,Public building , Crops , | 70 villages of Goreswar Revenue Circle                                  |
| 5  | Drought                          | Feb to July         | Crops , Drinking water facilities            |   |
| 6  | Erosion                          | April to Aug        | Agriculture land , Residential land          |   |
| 7  | Fire accident                    | Any time            | House and household property                 |   |
| 8  | Wild Animal Invasion ( Elephant) | June to October     | Crops, House,Human life                      | 9 Nos of villages of Tamulpur Rev Circle                                |

#### DISASTER PROBABILITY OF THE MUSHALPUR SUBDIVISION

| Sl | Types of Disaster | Times of Occurrence | Potential Impact/Probable Damages | Vulnerable villages                        |
|----|-------------------|---------------------|-----------------------------------|--|
| 1  | Flood             | March to Sept       | Damage of crops,road, bridges     | 28 Nos of villages under Barama Rev Circle |
| 2  | Landslide         | NA                  | NA                                | NA   |
| 3  | Earthquake        | Unpredictable       | House, Building,Road ,Bridges,    |  |

|   |                                       |                 |  |   |
|---|---------------------------------------|-----------------|--|---|
| 4 | Storm                                 | March to Sept   | Buildings,Houses, Crops, Vegetation etc. |   |
| 5 | Drought                               | April to August | Crops & Vegetation                       | All villages of Barama revenue circle         |
| 6 | Erosion                               | March to Oct    | Houses ,Crops, Vegetation                | 12 Nos of villages under Barama Rev.Circle    |
| 7 | Fire accident                         | Any time        | House and household property             |   |
| 8 | Wild Animal Invasion ( Wild Elephant) | Unpredictable   | Crops, House,Human life                  | 10 Nos of villages under Baganpara Rev Circle |

VULNERABILITY OF INFRASTRUCTURE IDENTIFIED BY GOVT.DEPARTMENTS

I. Public Work Department (PWD)

| Sl | Type of Disaster | Time of Occurrence | Vulnerable Road & Building        | Vulnerable Areas/Revenue circle/ Name of villages                               | Probable impact  |
|----|------------------|--------------------|-----------------------------------|---|--|
| 1  | Erosion          | June to September  | Hudukhara Naosali to Ulubari Road | Jalah Revenue Circle  | Surface damage   |
|    |                  |                    | Kalpani Sub-way Road              | Barnagar Revenue Circle   |  |
|    |                  |                    | Safakamar Kahitema                | Barnagar Revenue Circle   |  |
| 2  | Flood            | June to September  | Subankhata to Nikashi Road        | Chaulkara,Subankhata village under Baganpara revenue circle                     | Scouring of Road surface,Formation of Breach, washed away of culverts, Roads & RCC Bridges |
|    |                  |                    | Kadamtola Paglabazar Road         | Barikadonga, Tupalia,Uttarpar ,Gerua under Baganpara revenue circle             |  |
|    |                  |                    | Baganpara Thalkuchi Road          | Tupalia,Thalkuchi,Madaltana under Baganpara revenue circle                      |  |
|    |                  |                    | Thakursupa to Golbil Road         | Thakursupa, Jartaluk, Goramara, Golbil, Uzirkhat under Baganpara revenue circle |  |

|  |  |  |  |   |  |
|--|--|--|--|---|--|
|  |  |  | Jalah SDC office to Bhebla Boropara Road           | Jalah Reveneue Circle                             |  |
|  |  |  | Badulipara Dhamdhama Road                          | Jalah Reveneue Circle                             |  |
|  |  |  | Salbari Bashbari Road                              | Sarupeta Revenue Circle                           |  |
|  |  |  | Kumarikata Kauli Road                              | Kauli , Sahebtupa under Tamulpur Reveneue circle  |  |
|  |  |  | Kumarikata Jalah Road                              | Khairani ,Sashipur under Tamulpur Reveneue Circle |  |
|  |  |  | Kaljhar Kharua Bennabari Road                      | Barama Reveneue Circle                            |  |
|  |  |  | BDT Road Br.No 8/2                                 | Barama Reveneue Circle                            |  |
|  |  |  | RCC Slab culvert no 2/1 on NH-31 to Chapra village | Barama Reveneue Circle                            |  |
|  |  |  | Balabari to Ananda Bazar                           | Tamulpur Reveneue Circle                          |  |
|  |  |  | Baihata Ramgaon Nagrijuli Road                     | Goreswar Reveneue Circle                          |  |
|  |  |  | Ohubari Bholabatarai Road                          | Goreswar Reveneue Circle                          |  |
|  |  |  | Magurmari Road                                     | Goreswar Revenue Circle                           |  |
|  |  |  | Goreswar Tamulpur Road                             | Goreswar Revenue Circle                           |  |

## II. Water Resource Department

| Sl | Type of Disaster | Time of Occurence | Vulnerable Embankment | Vulnerable Areas/Reveneue circle/ Name of villages | Probable size of damage land | Name of the River |
|----|------------------|-------------------|-----------------------|--|------------------------------|-------------------|
|----|------------------|-------------------|-----------------------|--|------------------------------|-------------------|



|   |         |                |   |   |  |           |
|---|---------|----------------|---|---|--|-----------|
| 1 | Flood   | May to October | 1.Bagaribari (R/B)<br>2.Kawimari (R/B)<br>3. Habibari ( R/B)<br>4.Kelengchowk(R/B)<br>5.Salmara (L/B)<br>6.Sonmohari(L/B)<br>7.Harijhora (L/B)<br>8.Hallongbari (L/B)<br>9.Mukaldanga (L/B) | Goreswar and Rangia Revenue Circle  | 12000 Hectre of Agriculture land and 20000 Hectres of Residential land | Puthimari |
|   |         |                | 10.F/E of River Beki from Masthanguri to Narayanguri & Narayanguri to N.T Road  | Panchmile, Tinimile, Narayanguri,Raghobil & Khagrabari of Barnagar Rev Circle | 150 Sq Km  | Beki      |
| 2 | Erosion | May to October | 1.Bagaribari (R/B)<br>2.Kawimari (R/B)<br>3. Habibari ( R/B)<br>4.Kelengchowk(R/B)<br>5.Salmara (L/B)<br>6.Sonmohari(L/B)<br>7.Harijhora (L/B)<br>8.Hallongbari (L/B)<br>9.Mukaldanga (L/B) | Goreswar and Rangia Revenue Circle  | 12000 Hectre of Agriculture land                                       |           |

## Name of the Rivers &amp; Tributaries maintained by WRD

| Sl | Name of the Rivers /Tributaries | Length of the Embankment against each river                                   | Location of Rain Gauge                      | Normal water level | Danger level | Remarks                          |
|----|---------------------------------|---|---|--------------------|--------------|----------------------------------|
| 1  | Pahumara                        | -   | -   | -                  | -            | -                                |
| 2  | Mora-Pagaldia                   | 2.5Km Both Bank ( From NH-31 to 2.5Km D/S)                                    | At 31-NH Way Rd Xing                        |                    | 53.50M       | Maintained by Baska W.R.Division |
| 3  | Pagaldia                        |   | At 31-NH Way Rd Xing                        |                    | 52.75        | Maintained by Baska W.R.Division |
| 4  | Noona                           | -   | -   | -                  | -            | -                                |
| 5  | Baralia                         | -   | -   | -                  | -            | -                                |
| 6  | Puthimari                       | 0-20KM L/B (Mukaldonga to RG Rly line)<br>0-20KM R/B ( Habibari to Dholkuchi) | At kellengchowk ,Rangia Goreswar PWD Bridge | 57.60M             | 59.77M       | Maintained by Baska W.R.Division |
| 7  | Kaldia                          | -   | -   | -                  | -            | -                                |
| 8  | Tihu                            | -   | -   | -                  | -            | -                                |
| 9  | Rupahi                          | -   | -   | -                  | -            | -                                |
| 10 | Beki                            | 25 KM F/E of  | Narayanguri                                 | 55.24M             | 57.20M       | Chirang                          |

|  |  |  |  |  |  |              |
|--|--|--|--|--|--|--------------|
|  |  | River Beki from Masthanguri to Narayanguri & Narayanguri to N.T Road |  |  |  | W.R.Division |
|--|--|--|--|--|--|--------------|

### III. Public Health Engineering Department

| Sl | Type of Disaster | Time of Occurrence | Vulnerable Drinking water facilities/Sanitation facilities    | Vulnerable Areas/Revenue circle/ Name of villages   |
|----|------------------|--------------------|---|---|
| 1  | Flood            | June to Sept       | Public Water Supply Scheme (PWSS) , Submesion of spot sources | 50 nos of Villages under Sorbhog Reveneue Circle and 20 nos of Villages under Tamulpur Revenue circle and Rangia circle |
| 2  | Drought          | Feb to May         | Failure of DT Well of PWSS and spot sources                   | Villages located by the sides of Beki river   |

### IV. Agriculture Department

| Sl | Type of Disaster | Time of Occurrence | Vulnerable crops /Agri infrastructure                                       | Vulnerable Areas/Revenue circle/ Name of villages   | Probable damage size of agriculture land |
|----|------------------|--------------------|---|---|--|
| 1  | Flood            | June to Sept       | Autumn paddy,Sali paddy seedlings,Transplanted Sali paddy,Kharif vegetables | Gobardhana ADO circel , Barnagar Reveneue circle<br>1.Sunbari village<br>2.Alengmari village<br>3. Narayenguri village<br>4.Khagrabari NC village<br>5.Bispari village<br>6.Gyatigaon village<br>7. Raghasil village<br>8.Kuthrijara N.C village<br>9.Simlaguri village<br>10.Kuthrijora village<br>11.Gobordhana village<br>12.Baliper village<br>13.Khusrabari village<br>14.Bhataupukhuri village<br>15.Mairajhar pather<br>16.Jakhlibilpather village<br>17.Kahdowa<br>18.Barpetagaon | 4500 Hectre                              |
| 2  | Erosion          | June to August     | Ahu paddy & Sali paddy  | Gobardhana ADO circle,Barnagar reveue circle<br>1.Bispani village<br>2.Khagrabari village   |  |

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  | 3.Simulbari village<br>4.Gobordhana village<br>5.Sunbari village |  |
|--|--|--|--|--|--|

#### V. Animal Husbandry & Veterinary Department

| Sl | Type of Disaster | Time of Occurrence | Name of Veterinary Institutions    | Nos of affected villages against the Veterinary Institutions | Probable nos of affected livestock population | Probable nos of affected poultry population |
|----|------------------|--------------------|------------------------------------|--|---|---|
| 1  | Flood            | May to Oct         | Goreswar State Vety. Dispensary    | 9 Villages under Goreswar Rev Circle                         | 5916  | 8549  |
|    |                  |                    | Gurmow State Vety. Dispensary      | 14 Villages under Goreswar Rev Circle                        | 8815  | 12480                                       |
|    |                  |                    | Nagrijuli State Vety. Dispensary   | 5 Villages under Tamulpur Rev Circle                         | 1014  | 1369  |
|    |                  |                    | Pakribari State Vety. Dispensary   | 10 Villages under Tamulpur Rev Circle                        | 10185   | 11970                                       |
|    |                  |                    | Kumarikata State Vety. Dispensary  | 11 Villages under Tamulpur Rev Circle                        | 10185   | 12000                                       |
|    |                  |                    | Tamulpur State Vety. Dispensary    | 20 Villages under Tamulpur Rev Circle                        | 20913   | 20004                                       |
|    |                  |                    | Barama State Vety. Dispensary      | 4 Villages under Barama Rev Circle                           | 5138  | 7709  |
|    |                  |                    | Barimakha State Vety. Dispensary   | 2 Villages under Barama Rev Circle                           | 1870  | 1830  |
|    |                  |                    | Subankhata State Vety. Dispensary  | 3 Villages under Barama Rev Circle                           | 1135  | 2339  |
|    |                  |                    | Lakhi bazar State Vety. Dispensary | 5 Villages under Jalah Rev Circle                            | 4091  | 2431  |
|    |                  |                    | Jalahghat State Vety. Dispensary   | 4 Villages under Jalah Rev Circle                            | 3680  | 13110                                       |
|    |                  |                    | Tihu Barama State Vety. Dispensary | 5 Villages under Barama Rev Circle                           | 2050  | 14400                                       |
|    |                  |                    | Saudarvitha State Vety. Dispensary | 40 Villages under Jalah Rev Circle                           | 11990   | 58470                                       |

#### Vi. Education Department

##### Elementary Education

| Sl | Type of Disaster | Time of Occurrence | Nos of Vulnerable institutions      | Vulnerable Areas/Revenue circle/ Name of villages                        | Probable nos of affected students |
|----|------------------|--------------------|-------------------------------------|--|-----------------------------------|
| 1  | Flood            | July to Aug        | 10 Nos ( 2 Junior Basic, 5LP, 3 ME) | 3 under Tihu Barama R/C, 3 under Goreswar R/C and 4 under Gobardhana R/C | 1000 students                     |

|   |         |              |                                     |   |               |
|---|---------|--------------|-------------------------------------|---|---------------|
| 2 | Erosion | July to Aug  | 8 Nos ( 5 ME , 3 LP)                | 6 under Goreswar R/C and 2 under Baska Rev Circle | 1050 students |
| 3 | Draught | Feb to April | 25 Nos (19 LP, 4 ME, 1MV & 1E.G.S.) | All are under Baska Rev.Circle                    | 2650 students |

### Madhyamik Education

| Sl | Type of Disaster | Time of Occurrence | Nos of Vulnerable institutions | Vulnerable Areas/Revenue circle/ Name of villages  | Probable nos of affected students |
|----|------------------|--------------------|--------------------------------|--|-----------------------------------|
| 1  | Flood            | July to Aug        | 4 Nos of High School           | All are under Goreswar R/C   | 791 students                      |
| 2  | Erosion          | July to Aug        | 4 Nos of High School           | 2 under Goreswar R/C , 1 under Baska Rev Circle & 1 under Barnagar Rev.Cirlce                              | 490 students                      |
| 3  | Draught          | Feb to April       | 7 Nos (6HS & 1HSS)             | 2under Baska R/C, 1 under Goreswar R/C, 2 under Jalah R/C, 1under Sarupeta R/C and 1 under Gobardhana R/C) | 2130 students                     |

#### Draught Affected Schools in Baksa

*In Baksa district there are some areas where draught like situation arises during the period from Feb to April. In this area Shallow tube wells are not feasible .People depend on ring well for drinking water. However during the said period depth of underground water level increases and sometimes water from the drinking water well totally dries up. Students reading in Schools located in this area become more vulnerable and they have to suffer severe crisis for drinking water. Education department identified 32 nos of educational institutions vulnerable to such situation .Out of which 25 institutions fall under Elementary Education and remaining 7 falls under Madhyamik Education Department.*

#### E. Risk Assessment vs. Probable Circle

| TYPES OF HAZARD | POTENTIAL IMPACT                                 | VULNERABILITY   | VULNERABLE AREAS   |
|-----------------|--|---|--|
| Flood           | Loss of Life, Livestock ,crop and infrastructure | <u>Communication Network:</u> - Road, Bridges, Inland service, Telecommunication.<br><u>Household infrastructure:-</u> Katcha houses, Semi Katcha houses.<br><u>Agriculture:-</u> Seasonal crops ,horticulture, | 120 villages of Baksa district<br><br>71 villages of Barnagar circle and 13 villages of Sarupeta circle<br>28 Nos of villages under Barama Rev |

|            |                                 |   |   |
|------------|---------------------------------|---|---|
|            |                                 | <p><u>Irrigation sources:</u> - Minor irrigation project, Siltation, Boulder created spur.</p> <p><u>Drinking water sources:-</u> Damage of Public Water Supply Service( PWSS), submersion of spot sources , Failure of DTWs</p> <p><u>Power supplies:-</u>Electric poles, transmission cables.</p> <p><u>Health services:-</u>Medicines</p> <p><u>Educational Institutions:-</u> Private &amp; Public Schools &amp; Institute</p> <p><u>Livestock &amp; Poultry:-</u>Cows, goats, piggery ,Poultry farms, Fish ponds</p> <p><u>Vulnerable people:-</u> Handicapped, Fisherman, Old/Aged, Pregnant &amp; nursing women, Sick &amp; Ailing diseased, Children below five years.</p> <p><u>Other vulnerable assets:-</u>Saw mills, small scale industries ,forest</p> | Circle<br>8 Nos of villages under Goreswar Rev.circle |
| Earthquake | Loss of lives & properties      | <p><u>Communication Network:</u> - Weak Bridges, Road along the side of hills, , Telecommunication</p> <p><u>Household infrastructure:-</u> Weak building, Non engineering structured multi-storeyed building</p> <p><u>Health services:-</u> Weak structured health institutions , medical equipment.</p> <p><u>Vulnerable people:-</u> Handicapped, Fisherman, students in school ,Old/Aged, Pregnant &amp; nursing women, Sick &amp; Ailing diseased, Children below five years</p>  | All over the district                                 |
| Storm      | Damage to houses ,injuries etc. | <p><u>Communication Network:</u> - Road, Bridges, Inland service, Telecommunication.</p> <p><u>Household infrastructure:-</u> Katcha houses, Semi Katcha houses.</p> <p><u>Agriculture:-</u> Seasonal crops ,horticulture,</p>  | Entire district                                       |

|                          |   |  |  |
|--------------------------|---|--|--|
|                          |   | <p><u>Power supplies</u>:-Electric poles, transmission cables.</p> <p><u>Educational Institutions</u>:- Private &amp; Public Schools &amp; Institute</p> <p><u>Livestock &amp; Poultry</u>:-Cows, goats, piggery ,Poultry farms.</p> <p><u>Vulnerable people</u>:- Handicapped, Fisherman, Old/Aged, Pregnant &amp; nursing women, Sick &amp; Ailing diseased, Children below five years.</p> <p><u>Other vulnerable assets</u>:-Saw mills, small scale industries ,forest</p> |  |
| Drought                  | Loss of crops & livelihood              | Crops , potable water , agriculture land   | Almost entire district   |
| Erosion                  | Damage of Residential & cultivable land | Residential area and cultivable land lying near the bank of the river.   | 71 villages of Barnagar circle and 13 villages of Sarupeta circle<br>12 Nos of villages under Barama Rev.Circle                        |
| Fire accident            | Loss of Lives & Properties              | Human lives ,Livestocks,Building & other infrastructures ,Forest ,theft ,psychology etc.   | Entire district  |
| Wild animal depreadation | Loss of lives and crops                 | Kharif crops , Residential areas lying near the national park and forest   | 10 Nos of villages of Barnagar Rev Circle<br>9 Nos of villages of Tamulpur Rev Circle<br>10 Nos of villages under Baganpara Rev Circle |

## F.CAPABILITY ANALYSIS

F.1 Inventories & Evaluation of Resources Analysis: Analysis and assessment of the resources and opportunities form the stepping stone in the preparatory stage. Authentic assessments can make the planner aware of their firmness and wants, so that they can equip themselves with all the required items and materials well in advance .The resources necessary for disaster preparedness during and after disasters are listed below.

### Inventory for Shelter in the Salbari Subdivision

| Sl | Name & Location of the building      | Circle       | Block      | Capacity ( No of People) |
|----|--------------------------------------|--------------|------------|--------------------------|
| 1  | Bhakuamari L.P Schoo                 | Barnagar     | Gobardhana | 1000                     |
| 2  | Bhakuamari Madrasa                   | Barnagar     | Gobardhana | 1500                     |
| 3  | Nabajagaran ME School ,<br>Kachugaon | Barnagar     | Gobardhana | 700                      |
| 4  | Dhekiajani LP School                 | Barnagar     | Gobardhana | 1000                     |
| 5  | Kayemari LP School                   | Barnagar     | Gobardhana | 1200                     |
| 6  | Kaemari Madrassa, Kayemari           | Barnagar     | Gobardhana | 1000                     |
| 7  | Motonga LP School                    | Barnagar     | Gobardhana | 800                      |
| 8  | D.B.College                          | Ananda Bazar | Sarupeta   | 2000                     |
| 9  | Janata LP School , Patla             | Sarupeta     | Jalah      | 1500                     |
| 10 | Khusurabari ME School                | Barnagar     | Gobardhana | 1500                     |
| 11 | Bholanath High School ,Dolajani      | Sarupeta     | Jallah     | 2000                     |
| 12 | Bartary LP School                    | Sarupeta     | Jallah     | 1500                     |

**Inventory for Shelter in the Tamulpur Subdivision**

| Sl | Name & Location of the building | Circle   | Block      | Capacity ( No of People) |
|----|---------------------------------|----------|------------|--------------------------|
| 1  | Madarbari LP School             | Tamulpur | Tamulpur   | 150                      |
| 2  | Balabari LP School              | Tamulpur | Tamulpur   | 150                      |
| 3  | Kandulimara LP School           | Tamulpur | Tamulpur   | 150                      |
| 4  | Patkijuli LP School             | Tamulpur | Tamulpur   | 200                      |
| 5  | Latibari LP School              | Tamulpur | Nagriajuli | 150                      |
| 6  | Balisia LP School               | Tamulpur | Nagriajuli | 150                      |
| 7  | Surpara LP School               | Tamulpur | Nagriajuli | 150                      |
| 8  | Gandhibari LP School            | Tamulpur | Nagriajuli | 150                      |
| 9  | Uttar Golbera LP School         | Tamulpur | Nagriajuli | 200                      |
| 10 | Nagriajuli Bagan LP School      | Tamulpur | Nagriajuli | 200                      |
| 11 | Harijora LP School              | Goreswar | Goreswar   | 150                      |
| 12 | Gurmow LP School                | Goreswar | Goreswar   | 150                      |
| 13 | Baguribari LP School            | Goreswar | Goreswar   | 150                      |
| 14 | Sonmahari LP School             | Goreswar | Goreswar   | 150                      |
| 15 | Vepargaon LP School             | Goreswar | Goreswar   | 150                      |
| 16 | Lahapara LP School              | Goreswar | Goreswar   | 150                      |
| 17 | Dihapara LP School              | Goreswar | Goreswar   | 150                      |
| 18 | Oubari LP School                | Goreswar | Goreswar   | 150                      |
| 19 | Kaurbaha Milon ME School        | Goreswar | Goreswar   | 250                      |
| 20 | Belabari LP School              | Goreswar | Goreswar   | 150                      |
| 21 | Halongbari LP School            | Goreswar | Goreswar   | 150                      |
| 22 | Khatpara LP School              | Goreswar | Goreswar   | 150                      |

**Inventory for Shelter in the Mushalpur Subdivision**

| Sl | Name & Location of the building | Circle | Block       | Capacity ( No of People) |
|----|---------------------------------|--------|-------------|--------------------------|
| 1  | Barama College                  | Barama | Tihu Barama | 3000                     |
| 2  | Barama Higher Secondary School  | Barama | Tihu Barama | 1000                     |
| 3  | B.K.Bhandary ME School          | Barama | Tihu Barama | 500                      |
| 4  | Barama Girls High School        | Barama | Tihu Barama | 1000                     |
| 5  | Niz Juluki High School          | Barama | Tihu Barama | 1000                     |
| 6  | Dipta High Madrasa              | Barama | Tihu Barama | 1000                     |
| 7  | Dalbari Alangpur High School    | Barama | Tihu Barama | 1000                     |
| 8  | Kharuajan Milan High School     | Barama | Tihu Barama | 1000                     |

|    |                          |        |             |      |
|----|--------------------------|--------|-------------|------|
| 9  | Kadamtala High School    | Barama | Tihu Barama | 2000 |
| 10 | Barimakha High School    | Barama | Tihu Barama | 2500 |
| 11 | Bengali ME & High School | Barama | Tihu Barama | 2500 |
| 12 | Debachara High School    | Barama | Tihu Barama | 2000 |
| 13 | Thamna High School       | Baska  | Baska       | 350  |

**Inventory for Storage of food in Salbari Subdivision**

| Sl | Name & Location of the building         | Circle     | Block      | Capacity (In quintals) |
|----|---|------------|------------|------------------------|
| 1  | Jallah Dev.Block Building ( 3 Building) | Jallah     | Jallah     | 50 Matric Tonnes       |
| 2  | Gobardhana Development Block Bulding    | Gobardhana | Gobardhana | 10 Matric Tonnes       |

**Inventory for Storage of food in Tamulpur Subdivision**

| Sl | Name & Location of the building | Circle   | Block    | Capacity (In quintals) |
|----|---------------------------------|----------|----------|------------------------|
| 1  | Goreswar Rev.Circle             | Goreswar | Goreswar | 100 Qtls               |
| 2  | Suklai Irrigation Deptt.        | Goreswar | Goreswar | 200 Qtls               |

**Inventory for Storage of food in Mushalpur Subdivision**

| Sl | Name & Location of the building | Circle | Block       | Capacity (In quintals) |
|----|---------------------------------|--------|-------------|------------------------|
| 1  | Barama High School              | Barama | Tihu Barama | 2000 Qtls              |
| 2  | Barama Girls High School        | Barama | Tihu Barama | 1500 Qtls              |
| 3  | Dipta High Madrassa             | Barama | Tihu Barama | 2000Qtls               |
| 4  | Barimakha High School           | Barama | Tihu Barama | 2000 Qtls              |

**List of Police Station & Outpost location**

| Sl | Designation           | Name of Office | Location of Office | Name of Officer            | Land line contact No        | Mobile No                        |
|----|-----------------------|----------------|--------------------|----------------------------|-----------------------------|----------------------------------|
| 1  | SP                    | SP Office      | Katligaon          | Bir Bikram Gogoi           | 03624234681,<br>03624234680 | 9435196880                       |
| 2  | Addtl.SP              | SP Office      | Katligaon          | Sri Hiranya Barman         | 03624234681,<br>03624234681 | 9957308090/9435183822            |
| 3  | Dy.SP                 | SP Office      | Katligaon          | Sri Nitya Ranjan Chutia    | 03624234681,<br>03624234682 | 9435564282/9859992366            |
| 4  | SDPO                  | SDPO Office    | Tamulpur           | Sayed Abdus Shamad Hussain | Not available               | 9435514472/7896694500/9613303172 |
| 5  | SDPO                  | SDPO Office    | Salbari            | Sri D.K.Mahanta            | Not available               | 9435354002                       |
| 6  | CI (Circle Inspector) |                | Barama             | Insp.Tileswar Saikia       | Not available               | 9854055366                       |
| 7  | Addi.CI               | SDPO Office    | Tamulpur           | Insp.Rukmo Buragohain      | Not available               | 9864065123                       |
| 8  | O.C.S.I               | Police Station | Tamulpur           | Girindra Nath Deka         | Not available               | 9435125840                       |
| 9  | O.C.S.I               | Police Station | Goreswar           | Prasanta Bezbarua          | Not available               | 8011374955                       |



|    |                         |                |              |                     |               |                         |
|----|-------------------------|----------------|--------------|---------------------|---------------|-------------------------|
| 10 | O.C.S.I                 | Police Station | Barama       | Mantu Talukdar      | Not available | 9435016402              |
| 11 | O.C.S.I                 | Police Station | Barbari      | Sayadur Rahman      | Not available | 9864671230              |
| 12 | O.C.S.I                 | Police Station | Mushalpur    | Tapan Kalita        | Not available | 9854025909              |
| 13 | O.C.S.I                 | Police Station | Simla        | L.P.Kachari         | Not available | 9854233367              |
| 14 | O.C.S.I                 | Police Station | Gobardhana   | Abu Bakkar Siddique | Not available | 7896359442              |
| 15 | O.C.S.I                 | Police Station | Salbari      | Dilip Medhi         | Not available | 9401025182              |
| 16 | IC ASI                  | Police Outpost | Doomni       | Dukho Ram Boro      | Not available | 9613147667              |
| 17 | IC ASI                  | Police Outpost | Baganpara    | Naren Borah         | Not available | 9859402531              |
| 18 | IC SI                   | Police Outpost | Darrangamela | Ganesh Barman       | Not available | 9854977686              |
| 19 | IC SI                   | Police Outpost | Nagrijiuli   | Moser Ali Ahmed     | Not available | 9435190310              |
| 20 | IC SI                   | Police Outpost | Kumarikata   | Upendra Nath        | Not available | 9435441844              |
| 21 | IC SI                   | Police Outpost | Gandhibari   | Tulshi Bora         | Not available | 9864751717              |
| 22 | IC SI                   | Police Outpost | Ananda Bazar | H.Talukdar          | Not available | 9954752956              |
| 23 | IC SI                   | Police Outpost | Suaghpur     | Mojibur Rahman      | Not available | 9854039880              |
| 24 | IC SI                   | Police Outpost | Nikashi      | Ananta Ram Barman   | Not available | 9859513227              |
| 25 | IC ASI                  | Police Outpost | Aithabari    | Iman Ali            | Not available | 9435860843              |
| 26 | IC ASI                  | Patrol Post    | Bansbari     | Mridul Bhagabati    | Not available | 9954950906              |
| 27 | IC ASI                  | Patrol Post    | Kaurbaha     | Anil Mazumdar       | Not available | 9859034605              |
| 28 | IC SI                   | Patrol Post    | Labdanguri   | Naren Das           | Not available | 9864322029              |
| 29 | IC SI                   | Patrol Post    | Jalah        | Khetra Konwar       | Not available | 9435406763              |
| 30 | SI ( UB)                | Police Reserve | Barbari      | Kumud Sarma         | Not available | 9435280303              |
| 31 | Motor Transport Officer | Police Reserve | Barbari      | Munin Dutta         | Not available | 9435664418              |
| 32 | Police Control Room     | SP Office      | Katligaon    | Satyan Das          | Not available | 03624292948/03624234570 |

### List of Fire Services

| Sl | Name and Address of the Office | Name & Designation of the Officer | Contact no Land Line | Contact No Mobile | Nos of Fire Tender | Other rescue equipments   |
|----|--------------------------------|-----------------------------------|----------------------|-------------------|--------------------|---|
| 1  | Fire Station ,Mushalpur        | Bhaban Kalita , Subofficer        | 03624234686          | 9854318838        | 2 ( Mini)          | A.Life Jacket- 2 No<br>B.Lifeboy- 2No<br>Fire<br>C.Extinguisher – 3 No ( 5Kg size)<br>D.Rope -2No( 40 meter each) |
|    |                                | Upen Baishya,Subofficer           | 03624234686          | 9854488374        |                    |   |

|   |                                      |  |             |                           |                              |  |
|---|--------------------------------------|--|-------------|---------------------------|------------------------------|--|
| 2 | Fire Station ,<br>Tihu               | Jonardan Das,<br>Subofficer                                      | 03624281244 | 9957710179                | 2 ( Mini-1,<br>Large-1)      | Lifjacket-25,<br>Lifeboy – 15,<br>Fire Extng –<br>10(5Kg each),<br>Ladder -2 No,<br>Rope- 3 No   |
| 3 | Fire Station ,<br>Nalbari            | Lakheswar<br>Goswami, Station<br>Officer                         | 03624220222 | 9706128251                | 4 (Mini-<br>2, Large-<br>2)  | Lifjacket-4,<br>Lifeboy – 10,<br>Fire Extng-3<br>(25 Kg each),<br>Fire Extng –<br>50(5Kg each),<br>Ladder -4 No,<br>Rope- 5 No   |
| 4 | Fire Station,<br>Pathsala            | Prafulla Mali,<br>Station Officer                                | 03666266456 | 9435312276                | 2 ( Large-1,<br>Mini –<br>1) | Lifjacket-6,<br>Lifeboy – 6,<br>Fire Extng-1<br>(25 Kg each),<br>Fire Extng –<br>3(5Kg each),<br>Ladder -2 No,<br>Rope- 3 No   |
| 5 | Fire Station ,<br>Rangyia            | Sailen<br>Kakoti, Station<br>Officer                             | 03621240517 | 9864217137                | 2 ( Large-<br>1, Mini-<br>1) | Lifjacket-10,<br>Lifeboy – 10,<br>Fire Extng-10<br>(25 Kg each),<br>Fire Extng –<br>20(5Kg each),<br>Ladder -2 No,<br>Rope- 10 No  |
| 6 | Fire Station<br>,Baihata<br>Chariali |  | 0361286477  |                           |                              | Lifjacket-10,<br>Lifeboy – 10,<br>Fire Extng-<br>(25 Kg each),<br>Fire Extng –<br>(5Kg each),<br>Ladder -3 No,<br>Rope- No   |
| 7 | Fire<br>Station,Barpeta<br>Road      | Sarat Saud ( Station Officer),<br>Babul Ch Das ( Sub<br>Officer) | 03666260899 | 9707725587,<br>9954245686 | 3 ( All<br>large)            | Lifjacket-11,<br>Lifeboy – 11,<br>Fire Extng-<br>4(10 Kg each),<br>Fire Extng –8<br>(4.5Kg each),<br>Fire Extng –25<br>(25Kg each<br>Ladder -3 No,<br>Rope- 1 No,<br>Fire proxivit<br>suit-1 |

## F.2 Communication &amp; Media

F.2.1 Surface Communication: - The subdivision wise surface communication is shown as follows

SURFACE COMMUNICATION WITH MOTORABLE ROAD IN THE SALBARI SUBDIVISION

| Sl | From       | To           | Means                        | Distance (KM) |
|----|------------|--------------|------------------------------|---------------|
| 1  | Bhabanipur | Salbari      | Tata Sumo,Cruiser ,<br>Tempo | 18            |
| 2  | Saudarvita | Gobardhana   | DO                           | 18            |
| 3  | Basbari    | Barpeta Road | DO                           | 21            |
| 4  | Rupahi     | Jallah       | DO                           | 35            |
| 5  | Salbari    | Basbari      | DO                           | 8             |
| 6  | Khusbai    | Barpeta      | DO                           | 12            |

SURFACE COMMUNICATION WITH MOTORABLE ROAD IN THE TAMULPUR SUBDIVISION

| Sl | From     | To                          | Means                            | Distance (KM) |
|----|----------|-----------------------------|----------------------------------|---------------|
| 1  | Tamulpur | Rangia                      | Bus,Sumo, Winger<br>,Tempo       | 22KM          |
| 2  | Goreswar | Rangia                      | Tata Sumo,<br>Bus,Cruiser ,Tempo | 25KM          |
| 3  | Goreswar | Bangalipara                 | Tata Sumo,<br>Bus,Cruiser ,Tempo | 30KM          |
| 4  | Goreswar | Baihata Chariali            | Tata Sumo,<br>Bus,Cruiser ,Tempo | 20KM          |
| 5  | Tamulpur | Sandrup Janker<br>( Bhutan) | Bus ,Tata sumo<br>,Cruiser       | 28KM          |

SURFACE COMMUNICATION WITH MOTORABLE ROAD IN THE MUSHALPUR SUBDIVISION

| Sl | From      | To                      | Means  | Distance (KM) |
|----|-----------|-------------------------|--|---------------|
| 1  | Kadamtala | Mushalpur               | Tempo, Cruiser<br>,Winger ,Bus ,Tata<br>sumo | 19KM          |
| 2  | Barama    | Kadamtala               | Tempo, Cruiser<br>,Winger ,Bus ,Tata<br>sumo | 5KM           |
| 3  | Mushalpur | Jalah                   | Two wheeler ,<br>Private car                 | 9KM           |
| 4  | Mushalpur | Nikashi                 | Bus , Cruiser ,Tempo<br>,Tata Sumo           | 8KM           |
| 5  | Mushalpur | Barbari                 | Private vehicle                              | 7KM           |
| 6  | Mushalpur | Tamulpur<br>Subdivision | Tempo, Cruiser<br>,Winger ,Bus ,Tata<br>sumo | 60KM          |
| 7  | Mushalpur | Salbari Subdivision     | Tempo, Cruiser<br>,Winger ,Bus ,Tata<br>sumo | 60KM          |

|   |           |           |  |      |
|---|-----------|-----------|--|------|
| 8 | Mushalpur | Baganpara | Private vehicle                              | 11KM |
| 9 | Mushalpur | Goreswar  | Tempo, Cruiser<br>,Winger ,Bus ,Tata<br>sumo | 90KM |

F.2.1 In-Land Communication: Subdivision wise inland communication is shown as follows:

**INLAND COMMUNICATION IN SALBARI SUBDIVISION**

| Sl | From         | To           | Name of the river | Nature of the boat station- Govt/Private |
|----|--------------|--------------|-------------------|--|
| 1  | Barpeta east | Barpeta west | Beki              | Govt. & Private                          |

**INLAND COMMUNICATION IN TAMULPUR SUBDIVISION**

| Sl | From           | To             | Name of the river | Nature of the boat station- Govt/Private |
|----|----------------|----------------|-------------------|--|
| 1  | Madalbari east | Madalbari west | Pagladia          | Private                                  |

F.3 LIST OF HEALTH SERVICES:-

**LIST OF THE HEALTH SERVICES IN SALBARI SUBDIVISION**

| Sl | Name of Health Institutions | Location    | Circle   |
|----|-----------------------------|-------------|----------|
| 1  | MPHC                        | Salbari     | Sarupeta |
| 2  | MPHC                        | Nimua       | Barnagar |
| 3  | MPHC                        | Saudarvita  | Sarupeta |
| 4  | MPHC                        | Swarnabazar | Jalah    |
| 5  | Subsidiary Health Centre    | Betbari     | Jalah    |
| 6  | Subsidiary Health Centre    | Koklabari   | Jalah    |
| 7  | Block PHC                   | Golagaon    | Jalah    |
| 8  | State Dispensary            | Athiabari   | Barnagar |

**LIST OF THE HEALTH SERVICES IN MUSHALPUR SUBDIVISION**

| Sl | Name of Health Institutions | Location          | Circle    |
|----|-----------------------------|-------------------|-----------|
| 1  | MPHC                        | Majorgaon         | Jalah     |
| 2  | MPHC                        | Anchali           | Jalah     |
| 3  | MPHC                        | Jolagaon          | Jalah     |
| 4  | MPHC                        | Medaghat          | Baska     |
| 5  | MPHC                        | Angardhowa        | Baganpara |
| 6  | MPHC                        | Barbari           | Baska     |
| 7  | MPHC                        | Tupalia Baganpara | Baganpara |
| 8  | MPHC                        | Thamna            | Baska     |
| 9  | MPHC                        | Dighaldonga       | Baska     |
| 10 | CHC                         | Jalah             | Jalah     |

|    |                          |              |           |
|----|--------------------------|--------------|-----------|
| 11 | CHC                      | Barama       | Barama    |
| 12 | CHC                      | Mushalpur    | Baska     |
| 13 | Civil Hospital           | Mushalpur    | Baska     |
| 14 | State Dispensary         | Barimakha    | Barama    |
| 15 | State Dispensary         | Debachara    | Barama    |
| 16 | State Dispensary         | Digheli      | Barama    |
| 17 | State Dispensary         | Subankhata   | Baganpara |
| 18 | State Dispensary         | Nikashi      | Baska     |
| 19 | State Dispensary         | Adalbari     | Baska     |
| 20 | State Dispensary         | Karemura     | Baska     |
| 21 | State Dispensary         | Sarumanikpur | Jalah     |
| 22 | Subsidiary Health Centre | Pamuapather  | Baska     |
| 23 | Block PHC                | Mushalpur    | Baska     |
| 24 | Block PHC                | Barama       | Barama    |
| 25 | Block PHC                | Jalah        | Baska     |

**LIST OF THE HEALTH SERVICES IN TAMULPUR SUBDIVISION**

| Sl | Name of Health Institutions | Location     | Circle   |
|----|-----------------------------|--------------|----------|
| 1  | MPHC                        | Gandhibari   | Tamulpur |
| 2  | MPHC                        | Kachukata    | Tamulpur |
| 3  | MPHC                        | Sonmahari    | Goreswar |
| 4  | MPHC                        | Naokata      | Goreswar |
| 5  | MPHC                        | Goreswar     | Goreswar |
| 6  | CHC                         | Tamulpur     | Tamulpur |
| 7  | CHC                         | Goreswar     | Goreswar |
| 8  | State Dispensary            | Khatorbari   | Tamulpur |
| 9  | State Dispensary            | Kumarikata   | Tamulpur |
| 10 | State Dispensary            | Uttarbetna   | Goreswar |
| 11 | State Dispensary            | Dwarkuchi    | Rangia   |
| 12 | Block PHC                   | Tamulpur     | Tamulpur |
| 13 | Block PHC                   | Niz Kaurbaha | Goreswar |

F.4 Irrigation facilities.

| Sl | Name of Irrigation facilities | No | Status         | Command area | Division                 | Villages covered under Command area |
|----|-------------------------------|----|----------------|--------------|--------------------------|-------------------------------------|
| 1  | Flow Irrigation System        | 54 | On going       | 19939 Ha     | Borolia Division         | 423                                 |
| 2  | Flow Irrigation System        | 29 | Functional     | 1760 Ha      | Borolia Division         | 144                                 |
| 3  | Borolia Irrigation Scheme     | 1  | On going       | 9717 Ha      | Borolia Division         | 27                                  |
| 4  | Rupahi Irrigation Scheme      | 1  | Non functional | 5668 Ha      | Pahumara Rupahi Division | 24                                  |

