

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH MINISTRY OF LOCAL GOVERNMENT, RURAL DEVELOPMENT AND CO-OPERATIVES Local Government Engineering Department (LGED)

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Final Report on Study–03 'My Village -My Town' -Technical Assistance Project

"Feasibility Study for Rural Connectivity including Multi-Modal Transport System in Char and Haor Areas"

Nagarpur, Tangail







July, 2022

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GLOSSARY

- **Hard-to-reach Villages** mean in the Study those villages that are not connected by any paved road with the respective Upazila HQ and/or Union Parishad, and to the nearest economic activity hub and social service centres. The following explanations is important for the concept of hard-to-reach villages.
 - In haor areas, Village connected with submersible roads dry season and connected with riverine/haor routes in monsoon season has been considered as accessible and excluded from hard-to-reach villages.
 - Within Upazila, Villages that needs a bridge to connect has not considered as hard-to-reach villages.
 - In case of island Upazilas, villages that are accessible with paved roads from Upazila HQ has been considered as accessible and excluded from hard-to-reach villages.
 - In case of villages that are connected with HBB (Herring-Bone-Bond) or Brick flat soling routes has been considered as hard-to-reach villages
- **Mauza** is normally the geographical expression of a unit of landmass for revenue settlement and revenue collection, whereas, the village is a human settlement within a Mauza with strong social bond. Within a Mauza there could be more than one village.
- UnionBangladesh has 3-tiers local government system: District, Upazila and Union.Union is the lowest level of local government below Upazila Parishad
- **Upazila** Sub-District; the third level of government administration below division and District.
- Hat Synonym of bazar or market
- **Walking Trail** mean in the Study the village pathway or access used for walking by commuters, in the most cases do not have gazetted or established or commonly used alignment, and to the most, passable by bi-cycle or motor bike. These village trails are not passable by motorized jeep or mini truck or emergency service vehicle or not even by any three wheelers.

Unpaved Roads have no pavement or surface material. They are usually the earthen roads.

- **Vulnerability** is the human dimension of risk that is defined as conditions determined by physical, social, economic, environmental, political, cultural and institutional factors or processes which increases the likelihood of an individual or a community to the impacts of shocks and hazards.
- **Climate-Resilience** is expressed as the ability of a community to resist, absorb, adapt to and recover better from the impacts of disaster like flood and landslides in a sustainable way.

ABBREVIATION

| ADB | Asian Development Bank |
|-------|--|
| BBS | – Bangladesh Bureau of Statistics |
| BC | – Bitumen Carpeting |
| DatEx | – Data Expert (Pvt.) Limited |
| DECL | - Delight Engineers and Construction Ltd. |
| DoE | – Department of Environment |
| DPHE | - Department of Public Health Engineering |
| DPP | Development Project Proposal |
| FGD | – Focus Group Discussion |
| GIS | – Geographic Information System |
| GOB | - Government of Bangladesh |
| HBB | - Herring-Bone-Bond |
| HQ | – Headquarter |
| HTRV | – Hard-to-Reach Village |
| JV | – Joint Venture |
| KII | – Key Informant Interview |
| LGD | - Local Government Division |
| LGED | - Local Government Engineering Department |
| LGI | – Local Government Institute |
| MVMT | – My Village My Town |
| NGO | - Non-Government Organization |
| PD | – Project Director |
| PMO | Project Management Office |
| RCC | - Reinforced Concrete |
| RHD | – Roads & Highways Department |
| SDGs | - Sustainable Development Goals |
| ТА | -Technical Assistance Project |
| UE | – Upazila Engineer |
| UNDP | - United Nations Development Programme |
| UNO | – Upazila Nirbahi Officer |
| UNR | –Union Road |
| UP | – Union Parishad |
| UPZ | – Upazila Road |
| VRA | – Village Road A |
| VRB | – Village Road B |
| | |

BACKGROUND

Context of the Project

The Government of Bangladesh made massive plans to ensure equitable development around the country. Under this development philosophy, the GoB requirements are to reduce ruralurban divide to foster developmental benefits for all citizens. As part of this, the government declared an election manifesto on the eve of the national parliament election 2018 uniting the theme **Bangladesh on the March Towards Prosperity** aiming at transforming Bangladesh into a developed nation by 2041. Under this, villages have been considered the basic unit of prosperity for building a developed nation.

This firm commitment was declared following the light of the philosophy of the Father of Nation Bangabandhu Sheikh Mujibur Rahman to build 'Sonar Bangla' (Golden Bangla) through inclusiveness, balanced and development for all.

Following the philosophy of the Father of the Nation, the government declared election manifesto 2018 titled 'My Village-My Town'- Extension of Modern Civic Amenities in Every Villages. The Local Government Division under the Ministry of Local Government, Rural Development and Cooperatives has prepared a comprehensive work plan to make this election commitment a reality. The Local Government Division with its two agencies, Local Government Engineering Department (LGED) and Department of Public Health Engineering (DPHE) has undertaken a technical assistance project named 'My Village-My Town'-Technical Assistance Project. Under this project, 36 studies and 30 guidelines are being developed on eight thematic components related to mandate of Local Government Division. The eight thematic components are Rural Communications, Growth Centre and Hat bazar, Rural Water Supply and Sanitation, Rural Waste Management, Community Space and Recreation Facilities, Upazila Masterplan, Rural Housing and Capacity building of Upazila and Union Parishad. Besides this, a coordination framework is being developed among the other ministries involved in implementation of My Village-My Town election manifesto. It is notable to mention that a coordination committee has been formed comprising 21 ministries to implement the program in a coordinated way under the leadership of the Minster of Local Government, Rural Development and Co-operatives.

Context of the Report

This report is a part of study of the component 'Rural Connectivity'. Rural connectivity is the basic of all amenities in the villages. Rural connectivity works as the conduit that can supply a number of bare necessities such as access to market, health, education, employment etc. In general Bangladesh has remarkable progress in rural connectivity. Instead of this, a number of regions of the country are geographically sensitive where rural connectivity is not easy and has lot of challenges. These regions are -Haor, Beel, Hills, Chars, Islands etc. The people residing in these regions has considerably low access to civic amenities compared to other villages of the country. Therefore, study and plan development of improvement of rural connectivity is one of the important assignments of the technical assistance project. The project undertook Upazila based special study on the villages of these geographically sensitive regions that are mentioned before.

This report contains rural connectivity status and priority plan of the **Nagarpur** Upazila of **Tangail** District.

1 DESCRIPTION OF THE UPAZILA

1.1 GEOGRAPHY AND DEMOGRAPHY

The geographical area of Nagarpur Upazila is 262.70 square kilometers and has 12 Unions, 213 mouzas and 245 villages. The Upazila is 27 km away from District headquarters of Tangail. There are 3 rivers flowing over the Upazila-Jamuna, Dhaleshwari & Nowai. The total population of the Upazila is approx. 2,99,000 of which 1,42,000 are male and 1,57,000 female, total number of households are 66,000 and average household size is 4.33 with a population density of 1097 (*as per population census 2011*).

1.2 EDUCATION FEATURES

According to the information of the relevant local government offices there are 90 govt. primary, 49 registered primary, one non-government primary, 11 NGO schools & 37 kindergarten schools. On the other hand, Nagarpur has 40 non-government high schools with one govt college, 4 private colleges, and 24 madrashas. The literacy rate for the Upazila is 42.7% as per BBS 2011.

1.3 RURAL ROAD COMMUNICATIONS

Bangladesh scored in the rural accessibility index at around 87 per cent among South Asian and some other Africa countries. Generally, the people of Bangladesh get all weather within 2 kilometers adjacent to their living places. But the feature of rural roads communications in Nagarpur Upazila is contrasted. There are many villages, disconnected from the developed paved road network that brings huge sufferings for the people of the villages. The total rural road network of Nagarpur is 633.03 km and out of which, 162.47 km paved and 470.55 km earthen.

1.4 AGRICULTURE, FOOD PRODUCTION AND FISHERIES

Agriculture has a major importance for the economy of the people of Nagarpur. There are 64,095 acres of arable land in the Upazila. In the fiscal year 2010-11 the Rice production was 26.94, 8518 & 54354 metric tons for Aus, Aman & Boro seasons respectively. The Upazila also produced 7696 metric tons of Wheat, 6434 metric tons of Jute, 9944 metric tons of Sugarcane, 3,857 metric tons of Potato and 3,432 metric tons of Oilseed in the same fiscal year 2010-11. A notable quantity of fruits and vegetables are also produced here in this Upazila.

According to the BBS (2010-11) data Nagarpur has 1549.32 acres of pond, dhighee & wetlands that produced 3,860 metric tons of fishes. There also exists 108 poultry & 85 dairy farms.

1.5 GROWTH CENTRE AND HATBAZAR

Growth Centre and Rural Hatbazr is one of the main centres of the rural economy. Hatbazar is like the heart for the development of the rural economy. Rural hatbazar plays a role in increasing production and creating employment impacting on the supply chain of agriculture and non-agriculture products. There are 56 hatbazar and 5 growth centers in the Upazila. The structural development of hatbazar and growth is pivotal to boosting up the rural economy. A details of the growth center & hatbazar of the Upazila has been attached in the <u>Annexure-1</u>

2 LOCATION OF THE UPAZILA

Nagarpur Upazila is located in the Central Bangladesh under Tangail District in Dhaka Division. The location has been shown in the map. It is surrounded by Tangail Sadar and Delduar Upazilas on the north, Daulatpur (Manikganj) and Saturia Upazilas on the south, Mirzapur and Dhamrai Upazilas on the east, Chauhali and Shahjadpur Upazilas on the west. The Upazila is located within the **Brahmaputra River Basin**. The river, Brahmaputra is a transboundary river which flows through Tibet (mountains), India (Arunachal Pradesh & Assam), and Bangladesh and is the 9th largest river in the world by discharge. The river is prone to catastrophic flooding in the summer & monsoon (March – October) when the Himalayan snow melts along with the heavy rainfall in Meghalaya, India. This part of the year, the Brahmaputra (*i.e., the part inside Bangladesh, known as Jamuna River*) and its branches carry a large amount of water during monsoon that overflows the river's carrying capacity and inundates the river basin as well as the Upazila. The effects of flooding can be devastating and cause significant damage to crops and households, serious bank erosion with consequent loss of structures, land, and loss of many lives and livestock.

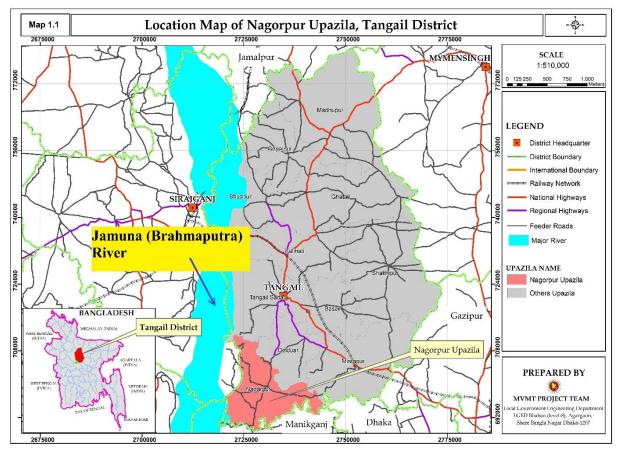


Figure 1: Location Map of the Upazila.

3 APPROACH & METHODOLOGY

3.1 STUDY TEAM COMPOSITION

A team consisting of Senior Rural Road Infrastructure Specialist, Associate Rural Infrastructure Specialist, Assistant Engineer engaged by Project Management Office (PMO) conducted the study. On the other hand, A

team consisting of Deputy Team Leader cum Rural Infrastructure Engineer, Junior GIS expert and Junior Engineer engaged by consulting firm (datEx & DECL JV) conducted the study. Participatory approach to review the database and identify priority transport infrastructure needs ('sub-projects') was instrumental. At the stakeholder consultation meeting held in each District, the database was reviewed, priority needs identified and mapped working together with the LGI representatives and LGED technical LGED team. and LGI

Stakeholder Consultation Meeting

- Hard-to-reach Village Database and database of sub-projects reviewed
- Prioritization of sub-projects for each Upazila with LGI and LGED representatives
 - Hard-to-reach villages and priority sub-projects mapped in the LGED GIS Map

representatives were surveyed each Upazila for collection of detailed observations and validations of the proposed priority needs.

3.2 STUDY AREA

The Study was conducted in 72 Upazilas of haor areas, 3 Upazilas of Beel areas, 8 Upazilas of Char areas, and 4 Upazilas of Island areas during the period from December 2021 to June 2022. Apart from this, PMO team conducted the study in 50 Upazilas of Haor areas and rest of the Upazilas of Haor, Beel, Char and Island areas are conducted by consulting firm team. The Upazila technical staff of LGED supported in organizing stakeholder consultation meetings and in database review and mapping the Hard-to-reach villages and population during this study period. They also supported in the field work and authentication check by visits to the sub-projects in their respective Upazila, and looking at the feasibility of some proposed sub-projects from technical, social and environmental perspectives.

3.3 DATABASE REVIEW AND ANALYSIS

The Study applied both qualitative (e.g., focused group discussions and in-depth case study field work) and quantitative (structured and semi structured interviews) approach and methods in reviewing and conducting field work in all the haor areas to understand the need and impact of rural accessibility in remote village contexts. The most applied methods in the reviewing and conducting field work were:

- Key Informants Interview (KII)
- Focus Group Discussion (FGD)
- Case Study for authentication check and individual sub-project feasibility study.

- Review Hard-to-reach village database at the 'Stakeholder consultation meeting' participating by local government representatives such as UP chairman and members, Upazila chairman, vice-chairman, and UNO.
- FGD and KII were conducted using a checklist. Composition in the FGD included local community people: male and female, teacher, local farmer, trader, and student depending on the availability.
- ✤ KIIs of Union Chairman, Upazila chairman, UNO male and female, and teacher depending on availability.
- Authentication and feasibility check by visits to the sub-projects reviewed and listed for the 40 selected case study Unions under MVMT project.
- Survey with GPS machine and Google apps in collecting Hard-to-reach village location, landmark, chainage at gaps, village road at section vulnerable to land erosion damage, narrow existing width or sharp slope location.

3.4 **PRIORITIZATION CRITERIA OF SUB-PROJECTS**

Prepare a priority list of sub-projects by Upazilas that includes gazette ID roads and nongazette roads (No ID) with attributes like name and number of villages and population. The criteria used in the prioritization are described below.

- Population, travel time needed from the remotest villages to the Upazila HQ, road type and cost per km per 1000 population are the indicators weighted giving a value in a formula.
- Priority is given to single connection with no alternative transport road and multi-modal transport route to connecting the villages with Upazila HQ and Union Parishad, growth centre and important markets and social service centres; villages with higher number of population and travel time get higher weightage;
- Priority is given to roads, ghats and collection points that will facilitate agricultural diversification, reduce transportation cost, ensure fair price and create farm and non-farm employment and income;
- Priority is given to roads' development and inland waterways dredging that will enable year-round mobility of general public and villagers in particular, health workers, teachers and students, and tourists to facilitate tourism development, quality education and better health service in the District and region;
- Special priority is given to sub-projects of roads, riverine routes/inland waterways that will mainstream deprived communities living in the hard-to-reach villages;
- Identified sub-projects more cost-effectiveness than others using per km per 1000 population cost for each sub-project;
- Every sub-project(s) is to be climate-resilient, sustainable and cost-effective.

3.5 WEIGHTAGE DISTRIBUTION FOR PRIORITIZATION

The approaches and methodologies of the Study for reviewing database and prioritization are synthesized in the diagrams below, noting that the proposed sub-projects of roads in the databases are prioritized based on weightage calculated on the set criteria (as shown in the diagram). People's demand and local need are reflected in the prioritization which were determined by the Study, working together with LGI representatives and LGED field level technical staff at the stakeholder consultation meetings held in each Upazila.

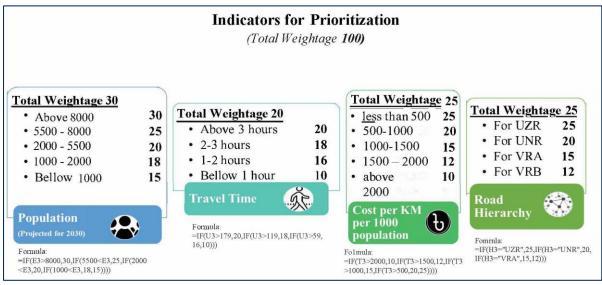


Figure 2: Prioritization indicators & their weightage values

3.6 MAPPING HARD-TO-REACH VILLAGES & POPULATION

- With the active support of LGED technical staff, first, draw every priority listed MVMT roads and Hard-to-reach villages on the LGED GIS map in presence of Union Chairman and members who knows the sub-project and area the best. This was not in scale but approximation was reached by triangulation. Then digitized on screen using GIS, and validate with Google map and checked with data and information on important features and points collected using GPS during field visits.
- There were challenges in deciding on starting node and/or zero chainage of the nongazette (No ID) road, because not all non-gazette sub-projects were visited and surveyed by the Study team.

3.7 WRAP UP MEETING

Wrap up the field work progress at each District holding a meeting chaired by the Executive Engineer, LGED and participated by all Upazila engineers of the respective District. On completion of the fieldwork, this was conducted to share issues and updates to the District Executive Engineer for feedback and action, as necessary.

3.8 VALIDATION WORKSHOP

On completion of data analysis and drafting of the database and mapping, the Study outputs were shared with the respective Districts and Upazilas for final review. Later validation workshop was held at the respective District on the Draft Report to share and validate the findings. This was participated by the LGED Division, District and Upazila officials and technical staffs.

3.9 NATIONAL WORKSHOP

The Draft Report is finalized, incorporating comments received from the validation workshop, LGED head office staff and PMO office. A National Level workshop was held at LGED HQ for sharing and disseminating the results of the Study.

4 RURAL ROAD CONNECTIVITY TO THE VILLAGES

4.1 SUMMARY OF THE VILLAGE CONNECTIVITY

Nagarpur is an Upazila with plenty of Char areas. The rural road communication is quite poor here. Out of 260 villages, 144 are disconnected from the developed paved road network that brings huge sufferings for the people of those villages. The total rural road network of Nagarpur is 633.03 km and out of which, 162.47 km paved and 470.55 km earthen.

| SL No | Union | No of Villages | Connected Villages | Hard-to- Reach Villages |
|-------|------------|-------------------|-----------------------|-------------------------------|
| 1 | Bekra | 7 | 3 | 4 |
| 2 | Bhadra | 27 | 17 | 10 |
| 3 | Bhara | 25 | 12 | 13 |
| 4 | Dhubaria | 17 | 9 | 8 |
| 5 | Duptiair | 29 | 21 | 8 |
| 6 | Gayhata | 26 | 14 | 12 |
| 7 | Mamudnagar | 25 | 15 | 10 |
| 8 | Mokhna | 19 | 11 | 8 |
| 9 | Nagarpur | 18 | 12 | 6 |
| 10 | Pakutia | 17 | 11 | 6 |
| 11 | Sahabatpur | 30 | 19 | 11 |
| 12 | Salimabad | 20 | 2 | 18 |
| | Total = | 260 | 146 | 114 |

Table 1: Total villages in the Unions and their connectivity

4.2 VILLAGES AND THEIR CONNECTIVITY – UNION LEVEL

The consultant arranged a meeting at Upazila conference room with and all the UP Chairmen & their secretaries. The team interviewed representative of each the Union and collected data about the HTRV.

| Union | SI. No | Connected Villages | Population 2021 (Based on BBS 2011) | Hard-to-Reach Villages | Population 2021 (Based on BBS 2011) |
|--------|-----------|--------------------|--|---------------------------|--|
| | 1 | Barapusa | 2471 | Bekra | 4857 |
| 6 | 2 | Bhalkutia | 1129 | Bir Baratia | 852 |
| ra | 3 | Konabari | 520 | Musuria | 1000 |
| Bekra | 4 | | | Naogaon (Nabagram) | 926 |
| | | Sub Total= | 4120 | | 7635 |
| (27) | 1 | Arra Kumed | 576 | Ati Ulain | 2074 |
| _ | 2 | Bade Behali | 1142 | Balorampur | 865 |
| Bhadra | 3 | Badiajan | 446 | Dhalthopa | 385 |
| Bh | 4 | Behali Khamar | 2673 | Kaonhala | 1124 |

 Table 2: Union wise connected & Hard-to-Reach Villages and their population

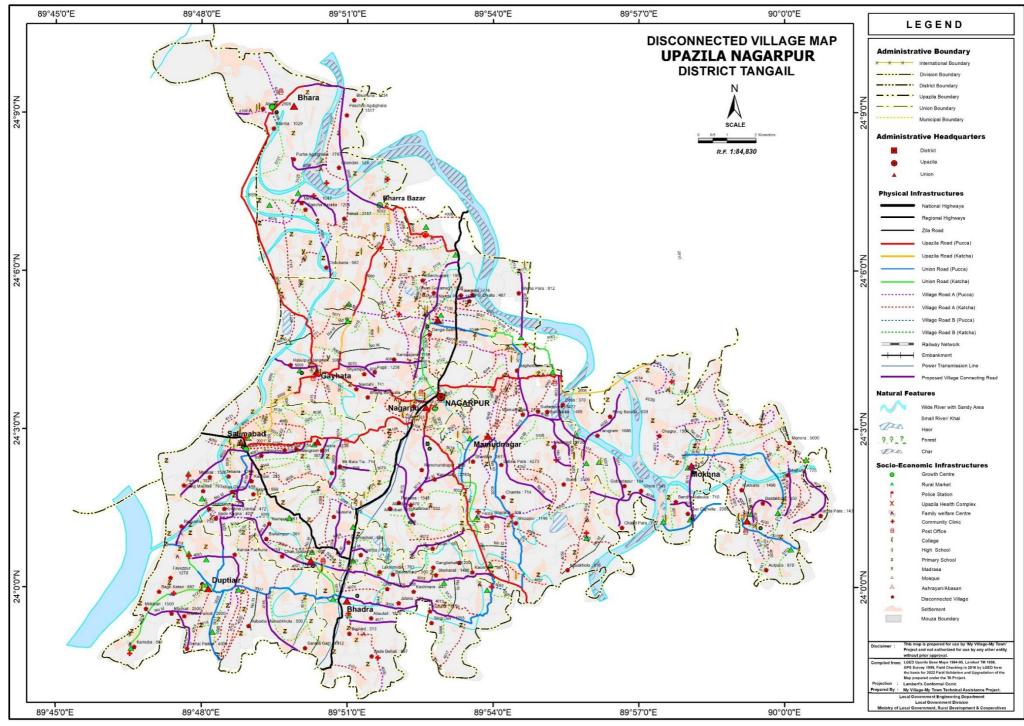
| Union | Sl. No | Connected Villages | Population 2021 (Based on BBS 2011) | Hard-to-Reach Villages | Population 2021 (Based on BBS 2011) |
|------------------|-----------|-----------------------|--|---------------------------|--|
| | 5 | Beta | 1646 | Kashinara | 505 |
| | 6 | Bhadra Bhikan | 934 | Khaguria | 815 |
| | 7 | Chasha Bhadra | 2640 | Lakshmidia | 897 |
| | 8 | Ichial Balarampur | 139 | Paishana | 1170 |
| | 9 | Jalalia | 646 | Panan | 1172 |
| | 10 | Kodalia | 1740 | Sherail | 1703 |
| | 11 | Panghadra | 831 | | |
| | 12 | Patal | 257 | | |
| | 13 | Patila Para | 637 | | |
| | 14 | Randhuni Para | 223 | | |
| | 15 | Seolaid | 359 | | |
| | 16 | Singdair | 1438 | | |
| | 17 | Tengri Para | 1320 | | |
| | | Sub Total= | 17647 | | 9540 |
| | 1 | Adajan | 235 | Atpara | 3332 |
| (25) | 2 | Arra | 1425 | Bhumuria | 1414 |
| ra (| 3 | Bharra | 2053 | Chandak | 600 |
| Bhara | 4 | Char Bharra | 2271 | Chaubaria | 1102 |
| щ | 5 | Char Chandal | 457 | Deojan Salil | 934 |
| | 6 | Dhalai | 779 | Marma | 1179 |
| | 7 | Khas Char Sutain | 440 | Mirkutia | 1194 |
| | 8 | Pachtara | 1096 | Pachasatia | 1379 |
| | 9 | Rangchhia Rangtala | 457 | Paschim Agdighalia | 1738 |
| | 10 | Saliara | 1074 | Purba Agdighalia | 3193 |
| | 11 | Shahajani | 3278 | Rehai Mirkutia | 580 |
| | 12 | Ulladah | 1746 | Sakail | 2471 |
| | 13 | | | Subarnatali | 795 |
| | | Sub Total= | 15311 | | 19911 |
| | 1 | Aronakhola | 585 | Bade Kagna | 458 |
| (17) | 2 | Bade Dhubaria | 15 | Balarampur | 868 |
| ia | 3 | Dahar Pachuria | 1155 | Bishampur | 451 |
| Dhubaria (17) | 4 | Dhubaria | 4955 | Chak Gadadhar | 1142 |
| nhC | 5 | Gangair | 330 | Kachpai | 643 |
| | 6 | Maguria | 761 | Krishna Diarkol | 541 |
| | 7 | Satgachha | 0 | Kushtia | 973 |
| | 8 | Tirchha | 720 | Sen Maijhali | 550 |
| | 9 | | 472 | | |
| | | Sub Total= | 8993 | | 5626 |
| iair | 1 | Bade Bhugolhat | 1150 | Baghkatari | 1011 |
| Duptiair (29) | 2 | Balia Bandar | 473 | Bazuartak | 863 |
| Du (29 | 3 | Baunialukai | 158 | Fayezpur | 1464 |

| Union | Sl. No | Connected Villages | Population 2021 (Based on BBS 2011) | Hard-to-Reach Villages | Population 2021 (Based on BBS 2011) |
|--------------|-----------|------------------------|--|---------------------------|--|
| | 4 | Char Amuria | 280 | Kamutia | 987 |
| | 5 | Char Jalai | 432 | Kanda Pachuria | 1322 |
| | 6 | Chhitkibari | 810 | Pang Myjhail | 909 |
| | 7 | Dhunail | 1202 | Rehai Paikali | 768 |
| | 8 | Duptair | 2801 | Saratiagazi | 2191 |
| | 9 | Gotabagh | 741 | | |
| | 10 | Haria | 78 | | |
| | 11 | Hatkana | 34 | | |
| | 12 | Jalai | 1485 | | |
| | 13 | Kadimkagna | 2385 | | |
| | 14 | Kash Bhugolhat | 1465 | | |
| | 15 | Khas Paikail | 844 | | |
| | 16 | Kumrakandi | 544 | | |
| | 17 | Nabadia Mahadikhola | 573 | | |
| | 18 | Nischintapur | 2829 | | |
| | 19 | Pachh Arra | 1064 | | |
| | 20 | Rehi Bhugolhat | 804 | | |
| | 21 | Tati Nischintapur | 506 | | |
| | | Sub Total= | 20658 | | 9515 |
| | 1 | Agakutia | 669 | Agar Gayhata | 2102 |
| 26) | 2 | Balainagar | 264 | Bhang Bangutia | 451 |
| Gayhata (26) | 3 | Binod Bangutia | 1088 | Deoakutia | 945 |
| vhat | 4 | Gayhata Naya Para | 1239 | Gopinathpur | 833 |
| Gay | 5 | Ghirokol | 2249 | Nardahi | 849 |
| | 6 | Ghuni | 1390 | Pangakutia | 420 |
| | 7 | Irta | 0 | Pugli | 1441 |
| | 8 | Kaitala | 592 | Rasulpur Bangram | 5804 |
| | 9 | Kalia | 1684 | Sarishajani | 1327 |
| | 10 | Kayarmara | 159 | Shympur | 697 |
| | 11 | Paschim Gayhata | 2203 | Singjora | 2908 |
| | 12 | Purba Gayhata | 2033 | Tehalia | 1233 |
| | 13 | Shantinagar | 1154 | | |
| | 14 | Swalpa Akutia | 1333 | | |
| | | Sub Total= | 16057 | | 19010 |
| (25) | 1 | Banagram | 795 | Bagherbari | 1751 |
| IL (; | 2 | Barigram | 2589 | Bhararia | 812 |
| aga | 3 | Beltail | 521 | Bhastala | 1853 |
| upn | 4 | Bhulkutia | 159 | Kalmaid | 3103 |
| Mamudnagar | 5 | Chamta | 818 | Kauakhola | 935 |
| Μ | 6 | Charbagh | 932 | Kolkushtia | 1376 |

| Union | Sl. No | Connected Villages | Population 2021 (Based on BBS 2011) | Hard-to-Reach Villages | Population 2021 (Based on BBS 2011) |
|----------|-----------|--------------------|--|---------------------------|--|
| | 7 | Danga Bausaid | 1420 | Mamudnagar | 8845 |
| | 8 | Dhukutia | 573 | Sreebartia | 1706 |
| | 9 | Gopalpur | 769 | Sudampara | 3921 |
| | 10 | Joybhog | 662 | Sunsi | 3559 |
| | 11 | Kedarpur | 912 | | |
| | 12 | Meghna | 2050 | | |
| | 13 | Mirzapur | 1313 | | |
| | 14 | Pakutia | 1037 | | |
| | 15 | Postkamari | 1586 | | |
| | | Sub Total= | 16136 | | 27861 |
| | 1 | Betuajani | 1776 | Abar Dighalia | 2389 |
| (19) | 2 | Dakaitmara | 629 | Bandha Jalsuka | 813 |
| Mokhna | 3 | Gajutia | 2422 | Chand Para | 885 |
| okh | 4 | Guhali | 3039 | Della | 424 |
| Μ | 5 | Jaktala | 1270 | Ghuni | 622 |
| | 6 | Karatia | 2144 | Gobindapur | 211 |
| | 7 | Konara | 3168 | Larugram | 1932 |
| | 8 | Mokhna | 463 | Pang Baratia | 732 |
| | 9 | Natang | 860 | | |
| | 10 | Pang Baijora | 568 | | |
| | 11 | Par Baijora | 769 | | |
| | | Sub Total= | 17108 | | 8008 |
| - | 1 | Char Kathuri | 607 | Alakdia | 1684 |
| (18) | 2 | Char Panan | 929 | Andhibari | 1122 |
| | 3 | Duajani | 5480 | Babna Para | 4896 |
| arp | 4 | Kamar Kathuri | 272 | Kalsibari | 610 |
| Nagarpur | 5 | Mirnagar | 1300 | Kasadaha | 3189 |
| • | 6 | Nagarpur | 3344 | Ramchandrapur | 683 |
| | 7 | Nagdha | 133 | | |
| | 8 | Nanginabari | 1115 | | |
| | 9 | Paisana | 1774 | | |
| | 10 | Panan | 2109 | | |
| | 11 | Senchikata | 637 | | |
| | 12 | Shib Kathuri | 1095 | | |
| | | Sub Total= | 18795 | | 12184 |
| \sim | 1 | Agtarail | 479 | Autpara | 1006 |
| (17) | 2 | Chhota Bagjan | 553 | Bastakhola | 401 |
| tia | 3 | Haraipara | 1001 | Ghagra | 1792 |
| Pakutia | 4 | Manara | 2751 | Kandapara | 851 |
| P | 5 | Pachh Tarail | 1432 | Majhutia | 831 |

| Union | Sl. No | Connected Villages | Population 2021 (Based on BBS 2011) | Hard-to-Reach Villages | Population 2021 (Based on BBS 2011) |
|------------|-----------|------------------------|--|---------------------------|--|
| | 6 | Paikpara | 379 | Pukharia | 1714 |
| | 7 | Pailsura | 526 | | |
| | 8 | Pakutia | 1910 | | |
| | 9 | Rahadanga | 313 | | |
| | 10 | Rautara | 2888 | | |
| | 11 | Seoil | 2006 | | |
| | | Sub Total= | 14238 | | 6595 |
| _ | 1 | Baddakar Para | 415 | Chechuajani | 2241 |
| (30) | 2 | Batra | 1854 | Chowbaria | |
| | 3 | Bhat Para | 776 | Shinjura | 1286 |
| atpı | 4 | Bir Salil | 1965 | Mirkutia | |
| Sahabatpur | 5 | Char Danga | 1102 | Danga Salin Para | 1192 |
| Sał | 6 | Chowdhuridanga | 1176 | Ghona Para | 930 |
| | 7 | Danga Dhala Para | 673 | Ghuni Gazmati | 1189 |
| | 8 | Irta | 1251 | Jangalia | 889 |
| | 9 | Khamar Dhalla | 1566 | Kokadair | 2344 |
| | 10 | Mailajani | 730 | Per Dhalla | 535 |
| | 11 | Nalsandhya | 778 | Purba Nanda Para | 2143 |
| | 12 | Noapara | 154 | | |
| | 13 | Pachhira | 796 | | |
| | 14 | Pachuria Kazi | 584 | | |
| | 15 | Palpara | 964 | | |
| | 16 | Paschim Nanda Para | 1406 | | |
| | 17 | Puratan Para | 1240 | | |
| | 18 | Sahabatpur | 1787 | | |
| | 19 | Tara Bari | 811 | | |
| | | Sub Total= | 20028 | | 12749 |
| | 1 | Char Ghuni Para | 3839 | Bekra | |
| 1 (20) | 2 | Tarafram Ghuni Para | 5387 | Mushuria | 4863 |
| bad | 3 | | | Nabogram | |
| Salimabad | 4 | | | Barotia | |
| Sali | 5 | | | Kachpai | 2184 |
| | 6 | | | Khas ghuni Para | 2104 |
| | 7 | | | Maijhail | 1726 |
| | 8 | | | Nagarpur | |
| | 9 | | | Selimabad | 8480 |
| | 10 | | | Goyhata | |
| | 11 | | | Paiksa | 1743 |
| | 12 | | | Salimabad | 7316 |
| | 13 | | | Tebaria | 4823 |
| | 14 | | | Tebaria | 3833 |

| Union | SI. No | Connected Villages | Population 2021 (Based on BBS 2011) | Hard-to-Reach Villages | Population 2021 (Based on BBS 2011) |
|-------|-----------|--------------------|--|---------------------------|--|
| | 15 | | | Ghunipara | |
| | 16 | | | Balorampur | |
| | 17 | | | Kakna | |
| | 18 | | | Duptiair | |
| | | Sub Total= | 922 | | 34968 |



4.3 MAP OF HARD-TO-REACH VILLAGES & PROPOSED ROADS

Figure 3: The Upazila Map

5 CONSULTATION MEETING & FIELD VISIT

5.1 UPAZILA LEVEL MEETING

The consultant arranged a meeting at Upazila conference room with the support of the UE office, Nagarpur that was participated by UNO, UE and all the UP Chairmen & their secretaries.



Figure 4: Upazila level Consultation Meeting

During the meeting, consultant team briefly discussed about the project and instructed the UP Chairmen and UE office for the database correction along with mapping procedure. The team worked on both the database and Upazila map and obtained the necessary outputs subsequently.

5.2 VISIT TO CASE STUDY UNION

The team visited 'Duptiar Union', the case study Union in Nagarpur Upazila, through the alignment of "Bhugul hat Bazar - Nischintopur via Kandapachuria road" having the Road ID: 393764083. The road was selected for the site visit considering the beneficiary population, educational institutes along the road and the recommendations of the UE Office as the road has a priority within the Union.

The consultant observed and collected necessary information for the study discussing inhabitants and UE office. Team recorded GPS data, interviewed road users and took photos of the alignment condition.



Figure 5: Condition of the visited road alignment at Case Study Union

The length of this submersible road is 5.5 km, totally earthen. The road connects a major village of the Union named Kanda Pachuria having the total population of approx. 1500. People living here doesn't have any good road network with the Upazila HQ due to having unpaved road communication. During monsoon, the road becomes submerged.

6 DATA COLLECTION & ANALYSIS

The consultant collected data from the field on hard to reach/ Hard-to-Reach Villages. Data were collected of those villages including population, road alignment information (*type, length, condition*), travel time, structure required on the alignment, potential riverine routes that can be used for multi-modal transport system etc. The data then analyzed, categorized and finally used to obtain a priority list along with a map (*Figure:3*) showing prioritized roads and Hard-to-Reach Villages. The proposed riverine & road connectivity by the UE office have been discussed in this section.

6.1 **PROPOSED RIVERINE ROUTES**

Nagarpur Upazila has plenty of chars. There are 3 (three) major rivers that dominate the ecosystem of the Upazila. That are Jamuna, Dhaleshwari & Nowai rivers. During monsoon, these rivers carry huge sediments as well as flood water. Though the Upazila has a number of rivers, riverine transport is not available in this Upazila.

6.2 **PROPOSED ROADWAY FOR HARD-TO-REACH VILLAGES:**

At present, roads are the most dominant mode of transportation. Most of the structures were built on the rivers to make the road communication effective. Yet, 10 (ten) bridges are needed to fulfil the purpose.

| Total Road Length of the Upazila (KM) | Paved Length (KM) | Unpaved Length (KM) | Length of unpaved roads of Hard-to-Reach Villages (KM) |
|--|----------------------|------------------------|--|
| 633.03 | 162.47 | 470.55 | 209 |

Table 3: Summary of the rural roads in the Upazila

6.2.1 **PROPOSED ALL WEATHER ROUTES:**

There are 50 all weather roads proposed to connect the HTRV within the Upazila. The road name, ID, road condition and the length of the unpaved roads are as bellow;

| Sl. No | Road Name | Road ID | Road Condition | Unpaved length (Km) |
|-----------|--|-----------|-------------------|------------------------|
| 1 | Nagarpur-Shahjani Road | 393762002 | All Weather | 0.5 |
| 2 | Bharah GC to Shahjani via Uladab | 393762008 | All Weather | 6.5 |
| 3 | Dhuburia UPC to Banagram Bazar via Shehrail | 393763003 | All Weather | 4.75 |
| 4 | Mamudnagar UPC-Jangalia Bazar | 393763013 | All Weather | 3.5 |
| 5 | Nagarpur Hospital - Panan Bazar via Miah Bari | 393763014 | All Weather | 3 |
| 6 | Mokna UPC-Dighulia Bazar | 393763015 | All Weather | 2.5 |

Table 4: Proposed all weather roads in the Upazila

| Sl. No | Road Name | Road ID | Road Condition | Unpaved length (Km) |
|-----------|---|-----------|-------------------|------------------------|
| 7 | Tebaria GC-Paiksha Bazar | 393764003 | All Weather | 2.64 |
| 8 | Nalsandha-Ghuni gojomoti | 393764012 | All Weather | 2 |
| 9 | Valkutia-Paisana via Alokdia | 393764015 | All Weather | 4.5 |
| 10 | Bekra UZRTebaria GC road (Shaid Gul Mohammod Bir protic) | 393764016 | all weather | 2.64 |
| 11 | Kandapara Barinda bazar via Shakkhipara | 393764026 | All Weather | 4.5 |
| 12 | Patchtarail-Nagarpur Mirzapur Road via Majhutia | 393764027 | All Weather | 2.5 |
| 13 | Pakutia Bazar -Outpara via bastokhola | 393764029 | All Weather | 2 |
| 14 | Pukuria pucca roadBagjan bazar(Pkhuria Satish Kormokar House- Bagjan Chowrastha via Rouhodanga Pukuria Play Ground Road.) | 393764031 | All Weather | 1.27 |
| 15 | Pongbaizora-Pongborotia via Larugram | 393764032 | All Weather | 4 |
| 16 | Larugram-Khamardhalla via Della | 393764033 | All Weather | 2 |
| 17 | Agdighulia Bazar-Chcitara Road | 393764038 | All Weather | 2.5 |
| 18 | Betuajani Kheyaghat-Pongborotia Road | 393764039 | All Weather | 2 |
| 19 | Vatsala UZR-Sunsi | 393764054 | All Weather | 4.2 |
| 20 | Pakutia UZR-Vararia | 393764058 | All Weather | 4 |
| 21 | Nagarpur RHD-Tabaria GC at Bekra UZR road Gayhata-Salimabad road via Purbapara road Primari Scool | 393764061 | All Weather | 2.5 |
| 22 | Bekra-Dhuburia via Musuria | 393764064 | All Weather | 3.5 |
| 23 | Shobatpur Bazar - Cecuajani | 393764067 | All Weather | 0.5 |
| 24 | Gangbehali to Taluknagar Bazar | 393764071 | All Weather | 2.5 |
| 25 | Salpakutia - Subornotoli via Rongsia | 393764076 | All Weather | 3.33 |
| 26 | Brac office RHD-Shoabatpur UPC | 393764078 | All Weather | |
| 27 | Chandok Madrasha -Subornatoli Madrasha via Agdighulia Bazar | 393764084 | All Weather | 4 |
| 28 | Batra bazar Chowbaria bazar | 393764085 | All Weather | 4 |
| 29 | Batra Bazar-Chowbaria Bazar | 393764085 | All Weather | 3.5 |
| 30 | Kolia-Shorishajani Road | 393764088 | All Weather | 4.25 |
| 31 | Jangalia Bazar-Ghonapara High School | 393764095 | All Weather | 3 |

| Sl. No | Road Name | Road ID | Road Condition | Unpaved length (Km) |
|-----------|---|-----------|-------------------|------------------------|
| 32 | Tangail-Aricha RHDNandapara river ghat | 393764096 | All Weather | 1 |
| 33 | Shakhail -Mirkutia Rongchia Bazar | 393764107 | All Weather | 2 |
| 34 | Duburia-Balarampur | 393764117 | All Weather | 3.73 |
| 35 | Bharrah Umeshchandra -Uladab Kheyaghat | 393764126 | All Weather | 1 |
| 36 | Bekra-satgacha Road | 393765003 | All Weather | 1.5 |
| 37 | Goyhata-Pukuria Road | 393765009 | All Weather | 1.75 |
| 38 | Betuajani-Chandpara | 393765011 | All Weather | 2.18 |
| 39 | Tebaria College Ghat Paiksha road | 393765039 | All Weather | 1.5 |
| 40 | Balarampur-Krisnodia akota hat | 393765050 | All Weather | 3 |
| 41 | Batra Bazar-Kokadair | 393765061 | All Weather | 1.5 |
| 42 | Kabi Nazrul Bazar-Pugli Road via Shympur | 393765070 | All Weather | 2 |
| 43 | Khas Shajani MA Karim High School-Marma Mosque | 393765088 | All Weather | 1 |
| 44 | OutparaDaragram Connecting road | 393765101 | All Weather | 2 |
| 45 | Shingjura - Sharishajani | No ID | All Weather | 2 |
| 46 | Mamudnagar Pucca Road - Kashadaha Pucca Road Via Kashadaha Nabopara | No ID | All Weather | 2 |
| 47 | Mamudnagar Pucca Road-Nagarpur Hospita via H/O Supply Shaheb | No ID | All Weather | 3 |
| 48 | Banagram-Kolkushia | No ID | All Weather | 1.5 |
| 49 | Pakutia - Pukuria River Ghat | No ID | All Weather | 1.5 |
| 50 | Kalmaid Bazar - Sanka | No ID | All Weather | 7 |

6.2.2 PROPOSED SUBMERSIBLE ROUTES:

There are 25 submersible roads proposed to connect the HTRV within the Upazila. The road name, ID, road condition and the length of the unpaved roads are as bellow;

| Sl. No | Road Name | Road ID | Road Condition | Unpaved length (Km) |
|-----------|---|-----------|-------------------|------------------------|
| 1 | Tebaria GCDoptair UPC office road | 393763002 | Submersible | 3.75 |
| 2 | Mamudnagar UZR Bawshaid via Sudampara road | 393764049 | Submersible | 4 |

 Table 5: Proposed submersible roads in the Upazila

| Sl. No | Road Name | Road ID | Road Condition | Unpaved length (Km) |
|-----------|---|-----------|-------------------|------------------------|
| 3 | Bhugul hat Bazar Nischintopur via Kandapachuria | 393764083 | Submersible | 5.5 |
| 4 | Shahjani High School Jamuna Ghat Via Atapara primary school | 393764108 | Submersible | 2.5 |
| 5 | Dhuburia Chowhali RHD road at KachpaiKhas Ghunipara kheya ghat | 393764109 | Submersible | 1.5 |
| 6 | Dhunail parchimpara mosque-Dulatpur Upazila road at Amtoli Via Sarutiagazi | 393764116 | Submersible | 4 |
| 7 | Bekra MadrashaBekra Sashan ghat road | 393765078 | Submersible | 2 |
| 8 | Mamudnagar Puratan Bazar - Kashadaha H/O Rabiul | No ID | Submersible | 2 |
| 9 | Mamudnagar H/O Azahar Doctor - Sunsi Via Surjapara | No ID | Submersible | 3 |
| 10 | Nabogram - Baropuisa Via Birbarotia | No ID | Submersible | 4.8 |
| 11 | Doptior Bazar - Kamutia Hat Via Taki Bagkatari | No ID | Submersible | 5 |
| 12 | Ichail - Bolarampur Via Lakkhidia GPS | No ID | Submersible | 2 |
| 13 | Kalmaid - Char Sunsi Via H/O Kajimuddin | No ID | Submersible | 3.5 |
| 14 | Tehalia - shinjura Madrasha Pucca Road | No ID | Submersible | 2 |
| 15 | Paishana - Panan Bazar Via Khaguria | No ID | Submersible | 3 |
| 16 | Dhuburia Bus stand - Senmaijhail Via Dhuburia Graveyard | No ID | Submersible | 4 |
| 17 | Kanda Pachuriya Bazar - Ekota Hat Via Balorampur | No ID | Submersible | 4 |
| 18 | Gopinathpur - Shalpo Akutia Pucca Road | No ID | Submersible | 1.5 |
| 19 | Deo Akutia - Ghuni Bazar | No ID | Submersible | 2 |
| 20 | Kodim Kakna - Nishcintopur Via Bazuartek | No ID | Submersible | 2 |
| 21 | Pang Akutia - Ghuni Bazar | No ID | Submersible | 2 |
| 22 | Khaguria - Kodalia Via Sehrail | No ID | Submersible | 2 |
| 23 | Tangail Aricha Hiway Robi Tower - Kushtia Noyapara Dhubria Barogram Road | No ID | Submersible | 3 |
| 24 | Kamutia bazar - bachamora bazar | No ID | Submersible | 3 |
| 25 | Daptiari Kol ghat - Paikail High School Via Rehaoi Paikail | No ID | Submersible | 3 |

6.2.3 PROPOSED ROADS FOR HARD-TO-REACH VILLAGES HAVING NO ID:

There are 24 roads proposed to connect the HTRV within the Upazila that have no ID yet. The road name, ID and the length of the unpaved part are as bellow;

| SI. No | Road Name | Road ID | Unpaved length (Km) |
|-----------|---|---------|------------------------|
| 1 | Shingjura - Sharishajani | No ID | 2 |
| 2 | Mamudnagar Pucca Road - Kashadaha Pucca Road Via Kashadaha Nabopara | No ID | 2 |
| 3 | Mamudnagar Pucca Road-Nagarpur Hospita via H/O Supply Shaheb | No ID | 3 |
| 4 | Banagram-Kolkushia | No ID | 1.5 |
| 5 | Pakutia - Pukuria River Ghat | No ID | 1.5 |
| 6 | Kalmaid Bazar - Sanka | No ID | 7 |
| 7 | Mamudnagar Puratan Bazar - Kashadaha H/O Rabiul | No ID | 2 |
| 8 | Mamudnagar H/O Azahar Doctor - Sunsi Via Surjapara | No ID | 3 |
| 9 | Nabogram - Baropuisa Via Birbarotia | No ID | 4.8 |
| 10 | Doptior Bazar - Kamutia Hat Via Taki Bagkatari | No ID | 5 |
| 11 | Ichail - Bolarampur Via Lakkhidia GPS | No ID | 2 |
| 12 | Kalmaid - Char Sunsi Via H/O Kajimuddin | No ID | 3.5 |
| 13 | Tehalia - shinjura Madrasha Pucca Road | No ID | 2 |
| 14 | Paishana - Panan Bazar Via Khaguria | No ID | 3 |
| 15 | Dhuburia Bus stand - Senmaijhail Via Dhuburia Graveyard | No ID | 4 |
| 16 | Kanda Pachuriya Bazar - Ekota Hat Via Balorampur | No ID | 4 |
| 17 | Gopinathpur - Shalpo Akutia Pucca Road | No ID | 1.5 |
| 18 | Deo Akutia - Ghuni Bazar | No ID | 2 |
| 19 | Kodim Kakna - Nishcintopur Via Bazuartek | No ID | 2 |
| 20 | Pang Akutia - Ghuni Bazar | No ID | 2 |
| 21 | Khaguria - Kodalia Via Sehrail | No ID | 2 |
| 22 | Tangail Aricha Hiway Robi Tower - Kushtia Noyapara Dhubria Barogram Road | No ID | 3 |
| 23 | Kamutia bazar - bachamora bazar | No ID | 3 |
| 24 | Daptiari Kol ghat - Paikail High School Via Rehaoi Paikail | No ID | 3 |

Table 6: Proposed roads for Hard-to-Reach Villages having No ID

6.2.4 **PRIORITY FOR ROAD DEVELOPMENT**

Considering resources constraint, benefited group of people, time required to travel & road hierarchy, a priority list has been developed (<u>Annexure-2</u>) for the HTRV (Hard to Reach Villages). The priority score has been determined according to following

| Criteria | Weightage |
|--------------------------|-----------|
| Population | 30 |
| Travel Time | 20 |
| Cost per 1000 Population | 25 |
| Road Type | 25 |
| Total= | 100 |

 Table 7: Considered weightage values for the prioritization

It has been observed that, there are a number of roads that bear same score. At these cases, the minimum budget required for providing connectivity to thousand people- will get more priority compared to more budget required roads. The roads bearing ID will have the higher priority than the roads without ID.

7 CONCLUSION & RECOMMENDATIONS

- Nagarpur Upazila is located within the *Brahmaputra River Basin* that has plenty of chars, topographically low land in the dry season but submerged during monsoon. The Upazila has enormous agricultural potential due to highly fertile soil gains from heavy sedimentation. There are 3 (three) major rivers dominate the ecosystem of the Upazila, that are Jamuna, Dhaleshwari & Nowai. Though the Upazila has a number of rivers, riverine transport is not available in this Upazila.
- The Upazila faces extensive flood and river erosion during monsoon, rural roads and structures are highly vulnerable in this Upazila.
- The Upazila has a total number of 114 Hard-to-Reach Villages. To develop rural connectivity, there are proposals for both all weather & submersible roads. This report contains a list of roads with their priority. The priority has been determined based on Population, Travel Time, Cost per KM/1000 people & Road Hierarchy.
- This Upazila is highly vulnerable to flood. Due to climate change, the vulnerability is getting intense.
- Case by case design of roads in this Upazila considering different aspects such as exposure to flood, erosion etc. is highly recommended. A special study regarding the road and structure design of the Upazila Nagarpur in Tangail District is highly recommended.

DETAILS OF GROWTH CENTER & HATBAZAR

| | | çory | 42 | gory | gory | | | | | Lano | l Area (A | Acre) | T | T |
|----------|---------------------------|---|-----------------------------|---|--|---------|---------------------------|-------------------------|-------------------------|------|------------------|---------|---|---|
| Union | Market Name | Market Category (GC=Growth Center, HB=Hat Bazar) | Market Listed? (Yes/ No) | Market Category (General/ Special/ Collection center) | Market Category (Wholesale/ Retail/both) | Hat Day | Chandina Viti (Number) | Chandina Viti (Land) | Chandina Viti (Shop) | Toha | Khas | Private | Lease/ Khas Collection BDT (2020) | Lease/ Khas Collection BDT (2019) |
| Bhadra | Bhadra Hat | HB | Yes | General Market | Both | 1 | 115 | 0.56 | 60 | 1.42 | 1.98 | 1.05 | 268200 | 257200 |
| Bhadra | Beto Hat | HB | No | | | | | | | | | | | |
| Bhadra | Bihuli Khamar | HB | No | | | | | | | | | | | |
| Bhadra | Shewrail Hat | HB | No | | | | | | | | | | | |
| Bharara | Shahajani hat | GC | Yes | General Market | Both | 2 | 190 | 0.95 | 95 | 1.05 | 2.00 | 1.18 | 4601225 | 2861225 |
| Bharara | Bharrah hat | GC | Yes | General Market | Both | 1 | 81 | 0.37 | 43 | 0.52 | 0.89 | 0.00 | 65500 | 56999 |
| Bharara | Rangchhia Bazar | HB | No | | | | | | | | | | | |
| Bharara | Chowbaria Bazar | HB | No | | | | | | | | | | | |
| Bharara | Bir Salil Bazar | НВ | No | | | | | | | | | | | |
| Bharara | Khorshed Market | HB | No | | | | | | | | | | | |
| Dhubaria | Kachpai Hat | НВ | No | | | | | | | | | | | |
| Dhubaria | Dhubaria Hat | HB | No | | | | | | | | | | | |
| Dhubaria | Dhuburia Terasta Bazar | НВ | No | | | | | | | | | | | |
| Dhubaria | Tirchha Hat | HB | No | | | | | | | | | | | |
| Doptiair | Duptair Hat | НВ | Yes | General Market | Both | 2 | 62 | 0.30 | 21 | 1.40 | 2.70 | 0.00 | 354100 | 268000 |
| Doptiair | Kamutia Hat | НВ | Yes | General Market | Wholesale | 1 | 48 | 0.24 | 30 | 0.25 | 0.49 | 0.00 | 710 | 800 |
| Doptiair | Janata Hat | НВ | Yes | General Market | Wholesale | 1 | 0 | 0.00 | 0 | 0.00 | 0.29 | 0.00 | 635 | 0 |

| | | gory | 42 | gory | gory | | | | | Lano | d Area (A | Acre) | T | L |
|------------|-------------------|---|-----------------------------|---|--|---------|---------------------------|-------------------------|-------------------------|------|-----------|---------|---|---|
| Union | Market Name | Market Category (GC=Growth Center, HB=Hat Bazar) | Market Listed? (Yes/ No) | Market Category (General/ Special/ Collection center) | Market Category (Wholesale/ Retail/both) | Hat Day | Chandina Viti (Number) | Chandina Viti (Land) | Chandina Viti (Shop) | Toha | Khas | Private | Lease/ Khas Collection BDT (2020) | Lease/ Khas Collection BDT (2019) |
| Doptiair | Nishchintapur Hat | HB | No | | | | | | | | | | | |
| Doptiair | Kakna Hat | HB | No | | | | | | | | | | | |
| Doptiair | Khashpaikal Hat | HB | No | | | | | | | | | | | |
| Doptiair | Bhagol Hat | HB | No | | | | | | | | | | | |
| Gayhata | Gayhata Hat | НВ | Yes | General Market | Both | 1 | 260 | 1.24 | 150 | 2.34 | 4.09 | 0.00 | 476500 | 430120 |
| Gayhata | Banagram Hat | HB | Yes | General Market | Wholesale | 1 | 10 | 0.05 | 6 | 0.05 | 0.10 | 0.00 | 550 | 1000 |
| Gayhata | Singora Hat | HB | No | | | | | | | | | | | |
| Mamudnagar | Mahmud Nagar Hat | HB | No | | | | | | | | | | | |
| Mamudnagar | Meghna Hat | HB | No | | | | | | | | | | | |
| Mamudnagar | Kalmaid Hat | HB | No | | | | | | | | | | | |
| Mamudnagar | Banagram Bazar | НВ | No | | | | | | | | | | | |
| Mokna | Kedarpur Hat | НВ | Yes | General Market | Both | 1 | 201 | 1.00 | 79 | 1.57 | 2.57 | 0.00 | 100300 | 149000 |
| Mokna | Larugram Hat | НВ | No | | | | | | | | | | | |
| Mokna | Pongbaizora Hat | НВ | No | | | | | | | | | | | |
| Mokna | Betuazani Bazar | НВ | No | | | | | | | | | | | |
| Nagarpur | Babnapara Hat | НВ | Yes | General Market | Both | 1 | 83 | 0.40 | 35 | 1.89 | 4.19 | 1.90 | 956100 | 887500 |
| Nagarpur | Panan Hat | НВ | Yes | General Market | Both | 1 | 130 | 0.62 | 70 | 0.62 | 1.24 | 0.00 | 221000 | 200500 |
| Pakutia | Pakutia Hat | НВ | Yes | General Market | Both | 1 | 300 | 1.50 | 125 | 1.53 | 3.03 | 0.00 | 47200 | 37350 |
| Pakutia | Rathura Hat | HB | Yes | General Market | Both | 1 | 245 | 1.20 | 110 | 1.34 | 2.54 | 0.00 | 800 | 3200 |

| | | gory | 42 | gory | gory | | | | | Land | l Area (A | Acre) | L | L |
|------------|--------------------------|---|-----------------------------|---|--|---------|---------------------------|-------------------------|-------------------------|------|------------------|---------|---|---|
| Union | Market Name | Market Category (GC=Growth Center, HB=Hat Bazar) | Market Listed? (Yes/ No) | Market Category (General/ Special/ Collection center) | Market Category (Wholesale/ Retail/both) | Hat Day | Chandina Viti (Number) | Chandina Viti (Land) | Chandina Viti (Shop) | Toha | Khas | Private | Lease/ Khas Collection BDT (2020) | Lease/ Khas Collection BDT (2019) |
| Pakutia | Barinda Hat | HB | Yes | General Market | Both | 1 | 0 | 0.00 | 0 | 0.00 | 2.00 | 0.00 | 51500 | 54500 |
| Pakutia | Agdighulia Bazar | HB | No | | | | | | | | | | | |
| Pakutia | Kederpur Bazar | HB | No | | | | | | | | | | | |
| Mokna | Larugram Hat | HB | No | | | | | | | | | | | |
| Mokna | Pongbaizora Hat | HB | No | | | | | | | | | | | |
| Mokna | Betuazani Bazar | HB | No | | | | | | | | | | | |
| Nagarpur | Babnapara Hat | HB | Yes | General Market | Both | 1 | 83 | 0.40 | 35 | 1.89 | 4.19 | 1.90 | 956100 | 887500 |
| Nagarpur | Panan Hat | HB | Yes | General Market | Both | 1 | 130 | 0.62 | 70 | 0.62 | 1.24 | 0.00 | 221000 | 200500 |
| Pakutia | Pakutia Hat | HB | Yes | General Market | Both | 1 | 300 | 1.50 | 125 | 1.53 | 3.03 | 0.00 | 47200 | 37350 |
| Pakutia | Rathura Hat | HB | Yes | General Market | Both | 1 | 245 | 1.20 | 110 | 1.34 | 2.54 | 0.00 | 800 | 3200 |
| Pakutia | Barinda Hat | HB | Yes | General Market | Both | 1 | 0 | 0.00 | 0 | 0.00 | 2.00 | 0.00 | 51500 | 54500 |
| Pakutia | Agdighulia Bazar | HB | No | | | | | | | | | | | |
| Pakutia | Kederpur Bazar | HB | No | | | | | | | | | | | |
| Pakutia | Dimukha Hat | HB | No | | | | | | | | | | | |
| Sahabatpur | Shahabatpur Hat | HB | Yes | General Market | Both | 1 | 40 | 0.20 | 17 | 0.22 | 0.42 | 0.00 | 971999 | 576100 |
| Sahabatpur | Batra Hat | HB | Yes | General Market | Both | 1 | 108 | 0.53 | 45 | 0.64 | 1.17 | 0.00 | 92000 | 201550 |
| Sahabatpur | Khamar Dhalla Hat | HB | Yes | General Market | Wholesale | 1 | 0 | 0.00 | 0 | 0.03 | 0.03 | 0.00 | 1700 | 1950 |
| Sahabatpur | Jangalia Hat | HB | No | | | | | | | | | | | |
| Salimabad | Tebaria chandgonj Hat | GC | Yes | General Market | Both | 1 | 270 | 1.62 | 155 | 1.96 | 3.58 | 0.00 | 1560000 | 1290000 |

| | | gory | 42 | ategory | ategory le/ th) | | iti | ti | | Land | l Area (A | Acre) | T | υT |
|-----------|-------------------|---|-----------------------------|--|---|---------|---------------------------|-------------------------|-------------------------|------|-----------|---------|--|---|
| Union | Market Name | Market Category (GC=Growth Cetter, HB=Hat Bazar) | Market Listed? (Yes/ No) | Market Categ (General/ Special/ Collection center) | Market Categ (Wholesale/ Retail/both) | Hat Day | Chandina Viti (Number) | Chandina Viti (Land) | Chandina Viti (Shop) | Toha | Khas | Private | Lease/ Khas Collection BD (2020) | Lease/ Khas Collection BDT (2019) |
| Salimabad | Salimabad Hat | HB | Yes | General Market | Both | 1 | 254 | 1.26 | 80 | 0.70 | 1.96 | 0.00 | 3860 | 3800 |
| Salimabad | Paikshamaijal Hat | HB | No | | | | | | | | | | | |
| Salimabad | Katua Hat | HB | No | | | | | | | | | | | |
| Salimabad | Bekra Bazar | HB | No | | | | | | | | | | | |
| | Nagarpur Hat | GC | | | | | | | | | | | | |
| | Lauhati hat | GC | | | | | | | | | | | | |

PRIORITY LIST FOR ROAD DEVELOPMENT

| Priority | Connecting Union | connecting Village | Population 2021 (Based on BBS 2011) | r Road Name | > Road ID | م Road Type | Road Type by Surface Condition | C Total Road Length (10+11+12) | 0 Paved length (km) | HBB Length (km) | 1 Unpaved length (km) | HBB + Unpaved(11+12) in (km) | Approx. Cost of Road (lac) | Cructure/ Gap (meter) | Cost of Structure (in Lac) | Total Cost (in lac) (Roads + Structures) | ► Population /KM ∞ (4÷13) | Tentative Budget/1000 Population (in lac) | 02 Travel Time (in min) | Veightage for Population | 75 Weightage for Travel Time | Weightage for Cost per 1000 Population | Weightage for Road Type | C Total Weightage (21+22+23+24) |
|----------|--------------------------------------|---|--|---|-----------|-------------|---|-----------------------------------|---------------------|-----------------|-----------------------------|------------------------------|-------------------------------|--------------------------|-------------------------------|---|------------------------------|---|----------------------------|-----------------------------|---------------------------------|---|----------------------------|------------------------------------|
| 1 | 2 Mamudnagar | Mamudnagar, Sreebartia, Sudampara | 4 14472 | Mamudnagar UZR Bawshaid via Sudampara road | 393764049 | VRA | Submersible | 9 | 10 | 11 | 12 | 15 | 720 | 30 | 270 | 990 | 3618 | 68 | 20 60 | 30 | 16 | 25 | 15 | <u>25</u> 86 |
| 2 | Salimabad | Tebaria, Ghunipara, Khas ghuni Para, Balorampur, Kakna, Duptiair | 10860 | Tebaria GCDoptair UPC office road | 393763002 | UNR | Submersible | 6.35 | 2.6 | | 3.75 | 3.75 | 675 | 30 | 270 | 945 | 2896 | 87 | 56 | 30 | 10 | 25 | 20 | 85 |
| 3 | Bhadra | Dhalthopa, Kaonhala, Sherail | 3212 | Dhuburia UPC to Banagram Bazar via Shehrail | 393763003 | UNR | All Weather | 5.75 | 1 | | 4.75 | 4.75 | 570 | 70 | 630 | 1200 | 676 | 374 | 71 | 20 | 16 | 25 | 20 | 81 |
| 4 | Gayhata | Bhang Bangutia, Agar Gayhata, Nardahi | 3403 | Nagarpur-Shahjani Road | 393762002 | UZR | All Weather | 17.9 | 17.4 | | 0.5 | 0.5 | 60 | | 0 | 60 | 6806 | 18 | 8 | 20 | 10 | 25 | 25 | 80 |
| 5 | Salimabad | Nagorpur, Selimabad, Goyhata | 15825 | Nagarpur RHD-Tabaria GC at Bekra UZR road Gayhata-Salimabad road via Purbapara road Primari Scool | 393764061 | VRA | All Weather | 2.5 | | | 2.5 | 2.5 | 300 | | 0 | 300 | 6330 | 19 | 38 | 30 | 10 | 25 | 15 | 80 |
| 6 | Nagarpur | Alakdia, Andhibari, Kalsibari, Paisana | 5261 | Valkutia-Paisana via Alokdia | 393764015 | VRA | All Weather | 4.5 | | | 4.5 | 4.5 | 540 | | 0 | 540 | 1169 | 103 | 68 | 20 | 16 | 25 | 15 | 76 |
| 7 | Mamudnagar | Sunsi | 3559 | Vatsala UZR-Sunsi | 393764054 | VRA | All Weather | 4.2 | | | 4.2 | 4.2 | 504 | | 0 | 504 | 847 | 142 | 63 | 20 | 16 | 25 | 15 | 76 |
| 8 | Bhara | Purba Agdighalia | 3193 | Chandok Madrasha -Subornatoli Madrasha via Agdighulia Bazar | 393764084 | VRA | All Weather | 4 | | | 4 | 4 | 480 | | 0 | 480 | 798 | 150 | 60 | 20 | 16 | 25 | 15 | 76 |
| 9 | Mokhna | Larugram, Pang Baratia | 2664 | Pongbaizora-Pongborotia via Larugram | 393764032 | VRA | All Weather | 4 | | | 4 | 4 | 480 | 85 | 765 | 1245 | 666 | 467 | 60 | 20 | 16 | 25 | 15 | 76 |
| 10 | Bhara | Paschim Agdighalia, Chandak | 2339 | Bharah GC to Shahjani via Uladab | 393762008 | UZR | All Weather | 8 | 1.5 | | 6.5 | 6.5 | 780 | 280 | 2520 | 3300 | 360 | 1411 | 98 | 20 | 16 | 15 | 25 | 76 |
| 11 | Mokhna | Abar Dighalia | 2389 | Mokna UPC-Dighulia Bazar | 393763015 | UNR | All Weather | 2.5 | | | 2.5 | 2.5 | 300 | | 0 | 300 | 956 | 126 | 38 | 20 | 10 | 25 | 20 | 75 |
| 12 | Bhara | Bhumuria, Deojan Salil, Pachasarutia, Mirkutia, Subarnatali | 5716 | Salpakutia - Subornotoli via Rongsia | 393764076 | VRA | All Weather | 6.33 | 3 | | 3.33 | 3.33 | 399.6 | 95 | 855 | 1254.6 | 1717 | 219 | 50 | 25 | 10 | 25 | 15 | 75 |
| 13 | Gayhata | Sarishajani | 1327 | Kolia-Shorishajani Road | 393764088 | VRA | All Weather | 4.25 | | | 4.25 | 4.25 | 510 | | 0 | 510 | 312 | 384 | 64 | 18 | 16 | 25 | 15 | 74 |
| 14 | Mamudnagar | Bagherbari | 1751 | Mamudnagar UPC-Jangalia Bazar | 393763013 | UNR | All Weather | 5.5 | 2 | | 3.5 | 3.5 | 420 | | 0 | 420 | 500 | 240 | 53 | 18 | 10 | 25 | 20 | 73 |
| 15 | Gayhata | Rasulpur Bangram | 5804 | Goyhata-Pukuria Road | 393765009 | VRB | All Weather | 3.5 | 1.75 | | 1.75 | 1.75 | 210 | 20 | 180 | 390 | 3317 | 67 | 26 | 25 | 10 | 25 | 12 | 72 |
| 16 | Duptiair | Saratiagazi | 2191 | Dhunail parchimpara mosque-Dulatpur upazila road at Amtoli Via Sarutiagazi | 393764116 | VRA | Submersible | 4 | | | 4 | 4 | 720 | 65 | 585 | 1305 | 548 | 596 | 60 | 20 | 16 | 20 | 15 | 71 |
| 17 | Sahabatpur | Chechuajani | 2241 | Shobatpur Bazar - Cecuajani | 393764067 | VRA | All Weather | 2.2 | 1.7 | | 0.5 | 0.5 | 60 | | 0 | 60 | 4482 | 27 | 8 | 20 | 10 | 25 | 15 | 70 |
| 18 | Bhara | Sakail | 2471 | Bharrah Umeshchandra -Uladab Kheyaghat | 393764126 | VRA | All Weather | 2 | 1 | | 1 | 1 | 120 | | 0 | 120 | 2471 | 49 | 15 | 20 | 10 | 25 | 15 | 70 |
| 19 | Sahabatpur | Jangalia, Nandopara Purba, Per dhalla | 2089 | Tangail-Aricha RHDNandapara river ghat | 393764096 | VRA | All Weather | 1 | | | 1 | 1 | 120 | | 0 | 120 | 2089 | 57 | 15 | 20 | 10 | 25 | 15 | 70 |
| 20 | Salimabad | Maijhail, Paiksa | 3468 | Tebaria GC-Paiksha Bazar | 393764003 | VRA | All Weather | 2.64 | | | 2.64 | 2.64 | 316.8 | | 0 | 316.8 | 1314 | 91 | 40 | 20 | 10 | 25 | 15 | 70 |
| 21 | Salimabad | Bekra, Mushuria, Nabogram, Barotia | 4863 | Bekra UZRTebaria GC road (Shaid Gul Mohammod Bir protic) | 393764016 | VRA | all weather | 2.64 | | | 2.64 | 2.64 | 316.8 | 30 | 270 | 586.8 | 1842 | 121 | 40 | 20 | 10 | 25 | 15 | 70 |
| 22 | Bhadra | Atia Ulail | 2074 | Gangbehali to Taluknagar Bazar | 393764071 | VRA | All Weather | 2.5 | | | 2.5 | 2.5 | 300 | | 0 | 300 | 830 | 145 | 38 | 20 | 10 | 25 | 15 | 70 |
| 23 | Bhara | Atapara | 3332 | Shahjani High School Jamuna Ghat Via Atapara primary school | 393764108 | VRA | Submersible | 2.5 | | | 2.5 | 2.5 | 450 | 15 | 135 | 585 | 1333 | 176 | 38 | 20 | 10 | 25 | 15 | 70 |
| 24 | Bhara | Chowbaria, Mirkutia | 2296 | Batra bazar - Chowbaria bazar | 393764085 | VRA | All Weather | 3.5 | 1.12 | | 2.38 | 2.38 | 285.6 | 15 | 135 | 420.6 | 965 | 183 | 36 | 20 | 10 | 25 | 15 | 70 |
| 25 | Salimabad | Kachpai, Khas ghuni Para, Maijhail | 3916 | Dhuburia Chowhali RHD road at KachpaiKhas Ghunipara kheya ghat | 393764109 | VRA | Submersible | 1.5 | | | 1.5 | 1.5 | 270 | 50 | 450 | 720 | 2611 | 184 | 23 | 20 | 10 | 25 | 15 | 70 |
| 26 | Dhubaria | Bade Kagna, Balarampur, Bishampur, Chak Gadadhar | 2966 | Duburia-Balarampur | 393764117 | VRA | All Weather | 5.23 | 1.5 | | 3.73 | 3.73 | 447.6 | 30 | 270 | 717.6 | 795 | 242 | 56 | 20 | 10 | 25 | 15 | 70 |
| 27 | Duptiair | Kanda Pachuria | 1322 | Bhugul hat Bazar Nischintopur via Kandapachuria | 393764083 | VRA | Submersible | 5.5 | | | 5.5 | 5.5 | 990 | | 0 | 990 | 240 | 749 | 83 | 18 | 16 | 20 | 15 | 69 |
| 28 | Pakutia | Ghagra | 1792 | Pukuria pucca roadBagjan bazar(Pkhuria Satish Kormokar House- Bagjan Chowrastha via Rouhodanga Pukuria Play Ground Road.) | 393764031 | VRA | All Weather | 1.27 | | | 1.27 | 1.27 | 152.4 | | 0 | 152.4 | 1411 | 85 | 19 | 18 | 10 | 25 | 15 | 68 |
| 29 | Sahabatpur | Danga Salin Para | 1192 | Brac office RHD-Shoabatpur UPC | 393764078 | VRA | All Weather | 1 | | 1 | | 1 | 120 | | 0 | 120 | 1192 | 101 | 0 | 18 | 10 | 25 | 15 | 68 |
| 30 | Sahabatpur | Ghuni Gazmati | 1189 | Nalsandha-Ghuni gojomoti | 393764012 | VRA | All Weather | 2 | | | 2 | 2 | 240 | | 0 | 240 | 595 | 202 | 30 | 18 | 10 | 25 | 15 | 68 |
| 31 | Bekra | Musuria | 1000 | Bekra-Dhuburia via Musuria | 393764064 | VRA | All Weather | 3.5 | | | 3.5 | 3.5 | 420 | | 0 | 420 | 286 | 420 | 53 | 18 | 10 | 25 | 15 | 68 |

*** Cost for Roads & Structures; (All Weather Rd= 120 lac/km, Submersible= 180 lac/km, Structure= 9 lac/m) *** Weightage Values; (Population = 30, Travel Time= 20, Cost per1000 people= 25, Road Hierarchy= 25)

| Priority | Connecting Union | Connecting Village | Population 2021 (Based on BBS 2011) | Road Name | Road ID | Road Type | Road Type by Surface Condition | Total Road Length (10+11+12) | Paved length (km) | HBB Length (km) | Unpaved length (km) | HBB + Unpaved (11+12) in (km) | Approx. Cost of Road (lac) | Structure/ Gap (meter) | Cost of Structure (in Lac) | Total Cost (in lac) (Roads + Structures) | Population /KM (4÷13) | Tentative Budget/1000 Population (in lac) | Travel Time (in min) | Weightage for Population | Weightage for Travel Time | Weightage for Cost per 1000 Population | Weightage for Road Type | Total Weightage (21+22+23+24) |
|----------|------------------|-----------------------------------|--|--|-----------|-----------|-----------------------------------|---------------------------------|-------------------|-----------------|------------------------|----------------------------------|-------------------------------|---------------------------|-------------------------------|---|--------------------------|---|-------------------------|-----------------------------|------------------------------|---|----------------------------|----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 32 | Salimabad | Tebaria | 4823 | Tebaria College Ghat Paiksha road | 393765039 | VRB | All Weather | 1.5 | | | 1.5 | 1.5 | 180 | | 0 | 180 | 3215 | 37 | 23 | 20 | 10 | 25 | 12 | 67 |
| 33 | Bekra | Bekra | 4857 | Bekra MadrashaBekra Sashan ghat road | 393765078 | VRB | Submersible | 2 | | | 2 | 2 | 360 | | 0 | 360 | 2428 | 74 | 30 | 20 | 10 | 25 | 12 | 67 |
| 34 | Sahabatpur | Kokadair | 2344 | Batra Bazar-Kokadair | 393765061 | VRB | All Weather | 1.5 | | | 1.5 | 1.5 | 180 | | 0 | 180 | 1563 | 77 | 23 | 20 | 10 | 25 | 12 | 67 |
| 35 | Gayhata | Pugli, Shympur | 2138 | Kabi Nazrul Bazar-Pugli Road via Shympur | 393765070 | VRB | All Weather | 2 | | | 2 | 2 | 240 | | 0 | 240 | 1069 | 112 | 30 | 20 | 10 | 25 | 12 | 67 |
| 36 | Mamudnagar | Bhararia | 812 | Pakutia UZR-Vararia | 393764058 | VRA | All Weather | 4 | | | 4 | 4 | 480 | | 0 | 480 | 203 | 591 | 60 | 15 | 16 | 20 | 15 | 66 |
| 37 | Pakutia | Kandapara | 851 | Kandapara Barinda bazar via Shakkhipara | 393764026 | VRA | All Weather | 4.5 | | | 4.5 | 4.5 | 540 | | 0 | 540 | 189 | 634 | 68 | 15 | 16 | 20 | 15 | 66 |
| 38 | Bhara | Marma | 1179 | Khas Shajani MA Karim High School-Marma Mosque | 393765088 | VRB | All Weather | 2.1 | 1.1 | | 1 | 1 | 120 | | 0 | 120 | 1179 | 102 | 15 | 18 | 10 | 25 | 12 | 65 |
| 39 | Bekra | Bir Baratia, Naogaon (Nabagram) | 1778 | Bekra-satgacha Road | 393765003 | VRB | All Weather | 2.5 | | 1 | 1.5 | 2.5 | 300 | | 0 | 300 | 711 | 169 | 23 | 18 | 10 | 25 | 12 | 65 |
| 40 | Pakutia | Autpara | 1006 | OutparaDaragram Connecting road | 393765101 | VRB | All Weather | 2 | | | 2 | 2 | 240 | | 0 | 240 | 503 | 239 | 30 | 18 | 10 | 25 | 12 | 65 |
| 41 | Mokhna | Chand Para, Gobindapur | 1095 | Betuajani-Chandpara | 393765011 | VRB | All Weather | 2.18 | | | 2.18 | 2.18 | 261.6 | | 0 | 261.6 | 502 | 239 | 33 | 18 | 10 | 25 | 12 | 65 |
| 42 | Pakutia | Majhutia | 831 | Patchtarail-Nagarpur Mirzapur Road via Majhutia | 393764027 | VRA | All Weather | 2.5 | | | 2.5 | 2.5 | 300 | | 0 | 300 | 332 | 361 | 38 | 15 | 10 | 25 | 15 | 65 |
| 43 | Mokhna | Bandha Jalsuka | 813 | Agdighulia Bazar-Chcitara Road | 393764038 | VRA | All Weather | 2.5 | | | 2.5 | 2.5 | 300 | | 0 | 300 | 325 | 369 | 38 | 15 | 10 | 25 | 15 | 65 |
| 44 | Bhara | Rehai Mirkutia | 580 | Shakhail -Mirkutia Rongchia Bazar | 393764107 | VRA | All Weather | 2 | | | 2 | 2 | 240 | | 0 | 240 | 290 | 414 | 30 | 15 | 10 | 25 | 15 | 65 |
| 45 | Nagarpur | Ramchandrapur | 683 | Nagarpur Hospital - Panan Bazar via Miah Bari | 393763014 | UNR | All Weather | 3 | | | 3 | 3 | 360 | | 0 | 360 | 228 | 527 | 45 | 15 | 10 | 20 | 20 | 65 |
| 46 | Pakutia | Bastakhola | 401 | Pakutia Bazar -Outpara via bastokhola | 393764029 | VRA | All Weather | 2 | | | 2 | 2 | 240 | | 0 | 240 | 201 | 598 | 30 | 15 | 10 | 20 | 15 | 60 |
| 47 | Dhubaria | Krishna Diarkol | 541 | Balarampur-Krisnodia akota hat | 393765050 | VRB | All Weather | 3 | | | 3 | 3 | 360 | | 0 | 360 | 180 | 666 | 45 | 15 | 10 | 20 | 12 | 57 |
| 48 | Mokhna | Ghuni | 622 | Betuajani Kheyaghat-Pongborotia Road | 393764039 | VRA | All Weather | 2 | | | 2 | 2 | 240 | 85 | 765 | 1005 | 311 | 1615 | 30 | 15 | 10 | 12 | 15 | 52 |
| 49 | Mokhna | Della | 424 | Larugram-Khamardhalla via Della | 393764033 | VRA | All Weather | 2 | | | 2 | 2 | 240 | 85 | 765 | 1005 | 212 | 2371 | 30 | 15 | 10 | 10 | 15 | 50 |
| 50 | Sahabatpur | Ghona Para | 930 | Jangalia Bazar-Ghonapara High School | 393764095 | VRA | All Weather | 3 | | | 3 | 3 | 360 | 500 | 4500 | 4860 | 310 | 5224 | 45 | 15 | 10 | 10 | 15 | 50 |
| 51 | Mamudnagar | Mamudnagar, Bhastala | 8845 | Mamudnagar Puratan Bazar - Kashadaha H/O Rabiul | No ID | VRB | Submersible | 2 | | | 2 | 2 | 360 | | 0 | 360 | 4423 | 41 | 30 | 30 | 10 | 25 | 12 | 77 |
| 52 | Mamudnagar | Mamudnagar, Bhastala, Sunsi | 8845 | Mamudnagar H/O Azahar Doctor - Sunsi Via Surjapara | No ID | VRB | Submersible | 3 | | | 3 | 3 | 540 | 17 | 153 | 693 | 2948 | 78 | 45 | 30 | 10 | 25 | 12 | 77 |
| 53 | Duptiair | Baghkatari, Kamutia, Fayezpur | 3461 | Doptior Bazar - Kamutia Hat Via Taki Bagkatari | No ID | VRA | Submersible | 5 | | | 5 | 5 | 900 | 200 | 1800 | 2700 | 692 | 780 | 75 | 20 | 16 | 20 | 15 | 71 |
| 54 | Nagarpur | Babnapara | 4896 | Mamudnagar Pucca Road-Nagarpur Hospita via H/O Supply Shaheb | No ID | VRB | All Weather | 3 | | | 3 | 3 | 360 | | 0 | 360 | 1632 | 74 | 45 | 20 | 10 | 25 | 12 | 67 |
| 55 | Nagarpur | Kasadaha | 3189 | Mamudnagar Pucca Road - Kashadaha Pucca Road Via Kashadaha Nabopara | No ID | VRB | All Weather | 2 | | | 2 | 2 | 240 | | 0 | 240 | 1594 | 75 | 30 | 20 | 10 | 25 | 12 | 67 |
| 56 | Gayhata | Shinjora | 2908 | Shingjura - Sharishajani | No ID | VRB | All Weather | 2 | | | 2 | 2 | 240 | | 0 | 240 | 1454 | 83 | 30 | 20 | 10 | 25 | 12 | 67 |
| 57 | Mamudnagar | Kalmaid | 3103 | Kalmaid - Char Sunsi Via H/O Kajimuddin | No ID | VRB | Submersible | 3.5 | | | 3.5 | 3.5 | 630 | 5 | 45 | 675 | 886 | 218 | 53 | 20 | 10 | 25 | 12 | 67 |
| 58 | Bhadra | Balorampur, Lakshmidia, Kashinath | 2272 | Ichail - Bolarampur Via Lakkhidia GPS | No ID | VRB | Submersible | 2 | | | 2 | 2 | 360 | 60 | 540 | 900 | 1136 | 396 | 30 | 20 | 10 | 25 | 12 | 67 |
| 59 | Pakutia | Pukharia | 1714 | Pakutia - Pukuria River Ghat | No ID | VRB | All Weather | 1.5 | | | 1.5 | 1.5 | 180 | | 0 | 180 | 1143 | 105 | 23 | 18 | 10 | 25 | 12 | 65 |
| 60 | Mamudnagar | Kolkushtia | 1376 | Banagram-Kolkushia | No ID | VRB | All Weather | 1.5 | | | 1.5 | 1.5 | 180 | | 0 | 180 | 917 | 131 | 23 | 18 | 10 | 25 | 12 | 65 |
| 61 | Gayhata | Tehalia | 1233 | Tehalia - shinjura Madrasha Pucca Road | No ID | VRB | Submersible | 2 | | | 2 | 2 | 360 | | 0 | 360 | 616 | 292 | 30 | 18 | 10 | 25 | 12 | 65 |
| 62 | Gayhata | Gopinathpur | 833 | Gopinathpur - Shalpo Akutia Pucca Road | No ID | VRB | Submersible | 1.5 | | | 1.5 | 1.5 | 270 | | 0 | 270 | 555 | 324 | 23 | 15 | 10 | 25 | 12 | 62 |
| 63 | Gayhata | Deo Akutia | 945 | Deo Akutia - Ghuni Bazar | No ID | VRB | Submersible | 2 | | | 2 | 2 | 360 | | 0 | 360 | 473 | 381 | 30 | 15 | 10 | 25 | 12 | 62 |
| 64 | Duptiair | Bazuartak | 863 | Kodim Kakna - Nishcintopur Via Bazuartek | No ID | VRB | Submersible | 2 | | | 2 | 2 | 360 | | 0 | 360 | 431 | 417 | 30 | 15 | 10 | 25 | 12 | 62 |
| 65 | Bekra | Bir Boratia | 852 | Nabogram - Baropuisa Via Birbarotia | No ID | VRD | Submersible | 4.8 | | | 4.8 | 4.8 | 864 | 30 | 270 | 1134 | 178 | 1330 | 72 | 15 | 16 | 15 | 12 | 61 |
| 66 | Bhadra | Paishana, Panan | 1172 | Paishana - Panan Bazar Via Khaguria | No ID | VRA | Submersible | | | | 4.0 | 3 | 540 | 50 | 450 | 990 | 391 | 845 | 45 | 13 | 10 | 20 | 13 | 60 |
| 00 | Bilaula | i aisiiaiia, i aiidii | 11/2 | | | VND | Submersible | 3 | | | 3 | 3 | 540 | 50 | 430 | 590 | 371 | 043 | 43 | 18 | 10 | 20 | 12 | 00 |

*** Cost for Roads & Structures; (All Weather Rd= 120 lac/km, Submersible= 180 lac/km, Structure= 9 lac/m) *** Weightage Values; (Population = 30, Travel Time= 20, Cost per1000 people= 25, Road Hierarchy= 25)

| Priority | Connecting Union | Connecting Village | Population 2021 (Based on BBS 2011) | Road Name | Road ID | Road Type | Road Type by Surface Condition | Total Road Length (10+11+12) | Paved length (km) | HBB Length (km) | Unpaved length (km) | HBB + Unpaved (11+12) in (km) | Approx. Cost of Road (lac) | Structure/ Gap (meter) | Cost of Structure (in Lac) | Total Cost (in lac) (Roads + Structures) | Population /KM (4÷13) | Tentative Budget/1000 Population (in lac) | Travel Time (in min) | Weightage for Population | Weightage for Travel Time | Weightage for Cost per 1000 Population | Weightage for Road Type | Total Weightage (21+22+23+24) |
|----------|------------------|--------------------|--|---|---------|-----------|-----------------------------------|---------------------------------|-------------------|-----------------|------------------------|----------------------------------|-------------------------------|---------------------------|-------------------------------|---|--------------------------|---|-------------------------|-----------------------------|------------------------------|---|----------------------------|----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 67 | Mamudnagar | Kauakhola | 935 | Kalmaid Bazar - Sanka | No ID | VRB | All Weather | 7 | | | 7 | 7 | 840 | 35 | 315 | 1155 | 134 | 1235 | 105 | 15 | 16 | 15 | 12 | 58 |
| 68 | Dhubaria | Senmaijhail | 550 | Dhuburia Bus stand - Senmaijhail Via Dhuburia Graveyard | No ID | VRB | Submersible | 4 | | | 4 | 4 | 720 | 5 | 45 | 765 | 137 | 1391 | 60 | 15 | 16 | 15 | 12 | 58 |
| 69 | Dhubaria | Kachpai | 643 | Kanda Pachuriya Bazar - Ekota Hat Via Balorampur | No ID | VRB | Submersible | 4 | | | 4 | 4 | 720 | 20 | 180 | 900 | 161 | 1400 | 60 | 15 | 16 | 15 | 12 | 58 |
| 70 | Dhubaria | Kushtia | 973 | Tangail Aricha Hiway Robi Tower - Kushtia Noyapara Dhubria Barogram Road | No ID | VRB | Submersible | 3 | | | 3 | 3 | 540 | | 0 | 540 | 324 | 555 | 45 | 15 | 10 | 20 | 12 | 57 |
| 71 | Duptiair | Pang Myjhail | 909 | Kamutia bazar - bachamora bazar | No ID | VRB | Submersible | 3 | | | 3 | 3 | 540 | | 0 | 540 | 303 | 594 | 45 | 15 | 10 | 20 | 12 | 57 |
| 72 | Duptiair | Rehai Paikail | 768 | Daptiari Kol ghat - Paikail High School Via Rehaoi Paikail | No ID | VRB | Submersible | 3 | | | 3 | 3 | 540 | | 0 | 540 | 256 | 703 | 45 | 15 | 10 | 20 | 12 | 57 |
| 73 | Gayhata | Pang Akutia | 420 | Pang Akutia - Ghuni Bazar | No ID | VRB | Submersible | 2 | | | 2 | 2 | 360 | | 0 | 360 | 210 | 856 | 30 | 15 | 10 | 20 | 12 | 57 |
| 74 | Bhadra | Khaguria | 917 | Khaguria - Kodalia Via Sehrail | No ID | VRB | Submersible | 2 | | | 2 | 2 | 360 | 60 | 540 | 900 | 458 | 982 | 30 | 15 | 10 | 20 | 12 | 57 |

*** Cost for Roads & Structures; (All Weather Rd= 120 lac/km, Submersible= 180 lac/km, Structure= 9 lac/m) *** Weightage Values; (Population = 30, Travel Time= 20, Cost per1000 people= 25, Road Hierarchy= 25)