



Letter of Submission

Paroha Municipality
Office of the Municipal Executive
Province No-2, Rautahat

Final Report

This document is the Final report prepared for the project, "Municipality Transport Master Plan (MTMP)" undertaken by Paroha Municipality, Office of the Municipal Executive, Rautahat. This document has been prepared by Bazar Bikas Kendra Pvt. Ltd. for Paroha Municipality Office of the Municipal Executive, Rautahat. The opinions, findings and conclusions expressed herein are those of the Consultant and do not necessarily reflect those of the Municipality.

Data Sources and Credits

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Preface/Acknowledgement

This MTMP Report for Paroha Municipality has been prepared on the basis of Municipality Transport Master Plan Preparation Guidelines and terms of reference prepared by the then Ministry of federal affairs and local development, Infrastructure Development Division, (IDD), Singhadurbar, Kathmandu, November 2014, and as per the ToR provided along with the contract agreement with the Paroha Municipality.

The job was entrusted to the Bazar Bikas Kendra Pvt. Ltd., Anamnagar, and Kathmandu. This report is prepared and submitted as Final report.

The consultants' team would like to express its appreciation to the officials from Paroha Municipality. We are highly grateful for their help and co-operation. We are very grateful to the Chairperson, Vice Chairperson and Chief Administrative Officer and other personnel's of the Municipality and local peoples who directly and indirectly contributed during this study and field survey.

Finally, the project team would like to express thanks to all staffs and colleagues for their anxious support for this study.



Declaration Letter

We hereby declare that we have conducted the study for Municipal Transport Master Plan (RMTMP) of Paroha Municipality professionally using the then MoFALD guideline and other acceptable standard methodologies. To the best of our knowledge, the findings of our study are correct. Municipality Transport Master Plan has been prepared as per standard engineering tools, norms and practices. The visionary city development has been finalized on the basis of the discussion with the stakeholders. We would like to assure you that the RMTMP is reliable, practicable and adequate to the overall development of Municipality transport system. We shall be accountable for any misleading information in any part of this report in respective area of study.

Expert:

1. Team Leader/planner:

Name:

Signature:

Cell Number:

Email:

Engineer/socio-economist:

Name:

Signature:

Cell Number:

Email:

3. GIS Expert:

Name:

Signature:

Cell Number:

Email:



Executive Summary

Paroha Municipality is located in Rautahat district, Province No. 2. This Municipality was established merging the then existing 6 VDCs namely Jingadawa(1-9), Tejapakad(1-9), Laukaha (1-9), Basantapatti(1-9), Narkatiya(1-9) and Rampurkhap(1-9). This Municipality now has been divided into 9 wards.

Paroha Municipality has no air transport service to complement the surface transport facilities. Inner mobility and other development activities fully depend on expansion of rural road network within the district. Paroha Municipality has no all-weather transport facilities as most of the municipal roads are earthen.

| s | | P | avemen | t Type (| Total | BO . B | |
|---|--|------|--------|-------------------------|--------------|--------|---------------|
| Ň | ROADNAME | | GR | вт | New Track | (KM) | ROAD CLASS |
| 1 | Bangkul-Narkatiya-Bhediyahi- Namnagada-Rajpur | | 6.63 | | | 6.63 | SRN |
| 2 | Rautahat Border-Bankul-Kopawa | | 3.66 | a 'S. dividing State of | | 3.66 | SRN |
| 3 | Postal Road | | 3.94 | | | 3.94 | SRN |
| 4 | Narkatiya-Motipur-Rampur- Khap-Ghuira | 4.90 | | | | 4.90 | DR |
| 5 | Basantapatti-Inarwari-Pataura | 3.30 | | | | 3.30 | DR |
| 6 | Basantapatti-Tejapakad | 2.92 | | July Hills | | 2.92 | DR |
| 7 | Sukdev Chowk (BHW)-Jingadiya | 2.18 | | | | 2.18 | DR |

Study and analysis show that Paroha Municipality has 120 municipal roads. Among those roads some of the roads are included in DRCN. Most of the roads are earthen. Generally earthen roads are in operations only in fair weather.

It is found that the quality of construction of road is very poor and most of the roads have to be upgraded to all weather roads to increase the accessibility of the people and improve the overall transport situation of the municipality.

The first five-year financial plan is prepared based on the assumption that each year budget will increase by 10% from previous year budget. MTPP cost of all road is around 0.875 billion and taking the budget of the current fiscal as the base and increasing the budget yearly by 10%, all road interventions is assumed to be completed in 27 years. The allocation of the budget for road sector in the upcoming five fiscal years with year wise target is tabulated below:





| Fiscal | Total Budget | Conservation | | Improvement | | New Construction | | Total |
|---------|--------------|--------------|--------------|-------------|--|------------------|------------|-------|
| Year | Total Buuget | Amount | % | Amount | % | Amount | % | % |
| 2075/76 | 80467 | 24140 | 30 | 44257 | 55 | 12070 | 15 | 100 |
| 2076/77 | 88514 | 26554 | 30 | 48683 | 55 | 13277 | 15 | 100 |
| 2077/78 | 97365 | 29210 | 30 | 53551 | 55 | 14605 | 15 | 100 |
| 2078/79 | 107102 | 32130 | 30 | 58906 | 55 | 16065 | 15 | 100 |
| 2079/80 | 117812 | 35344 | 30 | 64796 | 55 | 17672 | 15 | 100 |
| Total | 491259 | 147378 | · EXECUTE SE | 270192 | A STATE OF THE PARTY OF T | 73689 | n arrenter | |
| % | 100 | 30.0 | | 55.0 | | 15.0 | | aria. |



Acronyms/Abbreviations

BR Blacktopped Road

DOLIDAR Department of Local Infrastructure Development and Agricultural Roads

DTMP District Transport Master Plan

ER Earthen Road

GIS Geographic Information System
GPS Global Positioning System

GR Gravelled Road

Ha Hectare HH Household

IDPM Indicative Development Potential Map

Km. Kilometre

MIM Municipality Road Inventory Map

Min. Minute

MRCC Municipality Road Coordination Committee

MTMP Municipality Transport Master Plan

MTPP Municipality Transport Perspective Plan

NMT Non- Motorized Transport

NT New Track

OD Origin and Destination
PCU Passenger Car Unit
PT Public Transport

MTMP Municipality Transport Master Plan

Sq. km Square Kilometre
ToR Terms of Reference

VDC Village Development Committee



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CHAPTER 1: Introduction

Municipal Transport Master Plan (MTMP) shall be defined as the process of identification, classification and prioritization of roads within municipality; construction, upgrading, maintenance and rehabilitation of prioritized roads based on approved criteria with calculation of financial budget. The background for preparation of transport master plan along with the objectives and the scope of planning has stated in this chapter. The basic approach for the preparation of MTMP is the bottom up and participatory approach.

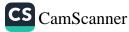
1.1 Background

This report on Municipality Transport Master Plan of Paroha Municipality is the outcome of study carried out by Bazar Bikas Kendra Pvt. Ltd. as per the agreement with the Office of Paroha Municipality. This report has been prepared abiding by the Term of Reference developed by the Office of Paroha Municipality based on the MTMP preparation norms and standards. This report has been prepared with intensive field visit of Urban/Transport planner, Civil Engineer, Social mobilizes, Enumerators and other professionals.

Nepal having least developed rural countryside communities, rural development is one of the main agendas for the overall development of the nation. The ultimate goal of rural development is attainment of sustainable livelihood and improved well-being of rural people. In the absence of better access to the goods and services; the people suffer. Rural people's needs for sustainable livelihood and improved well-being are possible only when they have better access to information, markets and opportunities; they need better access to health, education and other goods and services. The MTMP is designed to take account of the real needs of the rural population for easy access to infrastructure.

Integrated Rural Accessibility Planning (IRAP) could be an effective tool to assess the existing situation of the services and facilities in rural areas. The access situation of the services and facilities including the infrastructure for each settlement will indicate the interventions to improve the access situation. The interventisons derived from the Integrated Rural Accessibility Planning will represent the real needs and priorities of the local people. The planning approach should be participatory and Bottom-up, Demand Driven Approach from the settlement level. The implementations of such projects will certainly be more participatory and owned by the local communities. That makes the plan and project sustainable in the long run.





Local Governance Operation Act. 2074 has provisioned the local bodies for preparing and implementing the local level plans which includes the process of identifying, prioritizing and developing various sectorial plans and programs based on needs of the local units. Accordingly, the act has provisioned to formulate the periodic plan of the district with the visions, mission and strategy of the district vis-à-vis integrated plan of the various sectors and sub-sector agencies. Municipality Transport Master Plan (MTMP) is infrastructure development plan of the local bodies to identify the road interventions. This plan contains the perspective plan of municipal road and ranks the municipal roads so that the proper investment can be planned.

Municipality Transport Perspective Plan (MTPP) is a long-term transport plan of feasible rural linkages based on the socio-economic, geo-physical structure, development potentialities, as well as accessibility conditions of the district. The Rural Roads linkages are scored, graded and classified based on the Approach Manual prepared by for the DoLIDAR and the MTMP guideline prepared by the then MoFALD. A total road network is prepared to provide transport access to the settlements within the national standard of minimum hour to reach the all-weather roads.

1.2 Objective of MTMP

The overall objective of the consulting services is to prepare the Municipality Transport Master Plan (MTMP) of the Paroha Municipality. The specific objectives are:

- Finalize visionary city development plan if Comprehensive Town development plan is not prepared
- Analyze the accessibility situation.
- Identify and priorities the interventions based on the accessibility situation
- Prepare Indicative Developmental Potential Map (IDPM)
- Prepare the Municipality Inventory Map (MIM) of Road networks.
- Collection of demands for new/rehabilitation transport linkages from Municipalities / Settlements based on city development plan.
- Prepare the Perspective Plan of transport services and facilities;
- Synchronies the Final Perspective Plans of adjoining VDCs/Municipalities/districts
- Develop scoring criteria and its approval from Municipality.
- Prepare the five-year Municipality Transport Master Plan (MTMP)



- Prepare a realistic physical and financial implementation plan of prioritized roads for the MTMP period; and
- Prepare Municipal Transport Perspective Plan (MTPP)

1.3 Scope and Limitation of MTMP

The scope of works and services of the consultant for the project are given below:

- Assist for the formation of the Municipality roads coordination committee (MRCC)
- Secondary sources of information and review of the existing MTMP (if any)
- Accessibility data collection and analysis
- Prepare the Indicative Municipality Development Potential Map (IDPM)
- Prepare the Municipality Inventory Map (MIM) of Urban Road, Main Trails and Bridges
- Collection of Demands for New/Upgrading/Rehabilitation Transport Linkages from Wards/Settlements
- Developing Scoring Criteria and its Approval from Municipality
- Road Classification and Nomenclature
- Preparation of Perspective Plan of Interventions of Services and Facilities
- Analyze Fund Availability for Roads
- Preparation of the Municipality Transport Master Plan (MTMP)
- Prepare a Realistic Physical and Financial Implementation Plan of Prioritized Roads for the MTMP Period

1.4 Approach and Methodology

Municipal Transport Master Plan is prepared using participatory bottom-up approach from the settlement level. Techno-Political interface is incorporated in the planning process, where active participation from representatives of Chief of Municipality, Ward Member, political parties, line agencies, municipality officials is crucial. The Municipality Road Coordination Committee (MRCC) is constituted as an authorized legislative body of municipality.

1.4.1 General Approach

The Consultant has gone through the objective and ToR for Consultancy Services for preparation of the Municipal Transport Master Plan (MTMP). The ToR was itself sufficient for the execution of the work.



Integrated Rural Accessibility Planning (IRAP) is an integrated approach to solving problems by combining transport as well as non-transport interventions. It is participatory and bottom-up approach. Active involvement of community people and local authorities in every step is essential. The consultant facilitated the community people and local authorities in their need's identification, project prioritization and visionary development planning process.

The accessibility is function of distance and traveling time, frequency of travel, transport infrastructure difficulty factor, physical facilities of Socially Oriented and Responsibility (SOR), and management of SOR provision and viability of service provision. The degree of accessibility problem was assessed in terms of accessibility index of the settlements to concerned SOR sector. Accessibility Indicator is measurement of accessibility.

The required interventions shall be identified for improving accessibility of every settlements based on easing and reducing travel time, improving physical facilities for SOR and improving management of SOR provision in an integrated fashion.

1.4.2 Methodology

The methodology comprises with the Integrated Rural Accessibility Planning (IRAP) tools for the accessibility planning and DoLIDAR's Approach Manual for the roads and the MTMP Preparation Guidelines for the preparation of the MTMP with some modification as per Municipality situation and based on the ToR provided by the Municipality and as directed by the project in-charge of the client.

The Consultant's efforts were comprehensively streamlined to meet the objectives of the assignment by covering scope of services outlined in the prescribed Terms of Reference. The consultant has followed the following specific process to accomplish the assignment as specified in the objectives and scopes of work in the TOR.

Table 1: Methodology to be Involved during MTMP Preparation

| SN | List of Task | Activities | Outputs |
|-----|-------------------------|---|---|
| 1 | Data Collection | | |
| 1.1 | secondary | Collection of secondary information/Maps from the various agencies, I/NGOs and other regional and central level related institutions. | Obtain information about Municipality situation in general, ready to preceed further steps. |
| | Review of existing MTMP | Review of available existing MTMP if any Data collection about year wise budgeting for MTMP road and progress report of Municipality Interaction with Municipality technician and other officials | Trend of implementation of MTMP planning, constraint of implementation will be found out |





| 1.2 | Accessibility data collection | Through enumerators/field supervisor: Verification of secondary data in the field. Collection of road data using GPS Collection of access situation of every settlement in prescribed format. | Find out the access situation of every settlement, identification of gaps with the reference to Comprehensive City Development Plan |
|-----|-------------------------------|--|---|
| 2 | Analysis of Data | Data entry -storage of collected data in computer using MS Excel software. Base map preparation Calculation of accessibility index | Compilation of data, accessibility index of all wards of the Municipality |
| 3 | IDPM preparation | Assess the various potentiality of development of the Municipality Organized Municipality/MRCC meeting GIS map preparation | IDPM report, Finalization of Growth Centers, identification and ranking of existing/potential areas and services |
| 4 | MIM preparation | Assess the inventory of existing transportation linkage Reconnaissance survey Identification of required intervention Map preparation | MIM report, identify the existing transport situation, verification of MIM through discussion with the Municipality |
| 5 | Area workshop Ward | Participatory workshop in each wards Discussion about criteria of prioritization. Standardize the accessibility indicator Synchronize of interventions at Municipality level Validation of access data Prioritization of interventions. | Prioritization of interventions and projects. |
| 6 | Perspective Plan | Compile the result from O Accessibility analysis. O Area workshops Identify and prioritize the interventions in every services and facilities based on approved Municipality standard. Extract required interventions in transport linkage from the perspective plan of services and facilities | Perspective Plan of service and facilities including Municipality road network |
| 7 | MTMP Preparation | Assess the financial resources Priorities the perspective plan Preparation or updating MTMP | First five year municipality road planning |
| 8 | Approval of MTMP | Presentation of Final MTMP on Municipality council through MRCC and Municipality meetings. | Final MTMP report |



Task 1 Data Collection

Collection and Review of Secondary Information

The information about demographic data of Municipality, maps, service flow pattern, various maps showing service centers or transport infrastructure inventory, past plans and sectoral study reports, sectoral standards and policy targets were collected from the secondary sources like DoLIDAR, Municipality, other related agencies, Central Bureau of Statistics, Kathmandu, Topographical Survey Branch, Local NGOs. The details are given below:

List of documents/information collected and reviewed

- Previous reports of MTMP prepared by the Rural Municipalities (if any)
- MTMP of neighbouring Municipality (if available).
- District/Municipality periodic plan prepared by the DDC/Municipality
- Annual reports /publications of line agencies of Municipality
- District/Municipality profile of the DDC/Municipality
- Traffic data of the Municipality rural roads and strategic roads (if available)
- Annual plan, Programme and Budgetary allocations of last 5 years
- Expenditure in infrastructure development including roads in last 5 years
- Report on settlement pattern and market centers of the Municipality
- Rural road statistics of neighbouring Municipalities and strategic road Networks
- Financial and technical Data of ongoing rural road projects in the Municipalities and schedule including bilateral and multilateral funded projects.
- Demographic Statistics and socio-economic feature of the Municipality
- Other relevant reports

Collection of Maps

- Topo maps the 1:25000 scales, which will be used as base map.
- Municipality administrative map of Municipality
- Arial photographs
- Municipality Trail Map
- Map of strategic road Networks of Nepal
- Other Thematic maps

The main agencies for sources of information are

- District Development Committees (DDC),
- Municipality



- Line agencies/office of the district about road, Municipality, Soil Conservation office,
 Forest, Agriculture Development, Livestock Service, Irrigation, Health, Education,
 Water Supply and sanitation, cottage industries, etc.
- National or municipal Research Organizations,
- Local and national NGO and INGO's working in development fields,
- National Bureau of Statistics.
- Department of survey
- Other relevant office

The secondary information collected from above mentioned sources has been critically reviewed. The data were verified by and cross checking of information of various sources and discussion with informants and local community people at unofficial and official meetings, workshops on the process of primary data collection.

b) Primary Data collection

Primary information on present household and trip characteristics, traffic characteristics, existing accessibility and mobility level of settlements, prioritized road network required for each wards has been obtained via various reliable methods. Tracking of the existing road network along with detail information of its width, surface type and possible intervention required for the effectiveness of services is also carried out.

The primary data collection methods carried out in the field were:

- Origin and Destination (OD) Survey
- Road Inventory Survey
- · Demand Survey
- Classified Vehicle Count Survey
- Public Transport and Services Study

Questionnaire method has been used to conduct *Origin and destination survey* which gave number of information reflecting, personal, household and trip making characteristics. This survey has also helped to visualize the accessibility and mobility scenario of road network and to public transportation from the settlement/wards. As all the household can't be covered a realistic and statistically significant sample size was calculated based on probabilistic method.

Road inventory survey was conducted to collect data on its condition of road, road linkage, road safety status and issues that need to be highlight. It helped in field validation of base maps and assisted in the preparation of road inventory map, nomenclature and coding of the road linkages and proposed various interventions.





Road Demand survey comprised of interaction session with the members of *wards* followed by ward level workshop to fill up demand survey form, which included demand of new facility or interventions to improve existing roads based on priority.

Classified vehicle count was conducted to reflect the usage of various vehicles in the certain route, especially where maximum volume occurs. Twelve hour count has been done at required location and the vehicles have been classified to different types and finally traffic volume have been converted to passenger car unit (PCU) to visualize the exact condition.

Public Transport and Services Study highlighted the services provided by public transportation and location of various services and facilities. It was carried out by directly interviewing the route operators.

c) Municipality IRAP and MTMP Orientation

One-day orientation program has been carried out in the Municipality for the IRAP and MTMP preparation. The participants were Municipality body, line agencies, stakeholders, and representatives of national political parties and representatives from women, Dalit, local NGO. The field visit of enumerators has been arranged to:

- Verify the secondary data in the field.
- Collect data of access situation of every settlement in prescribed format.

Task 2 Analysis of Data

Compilation of data/Information collected from primary and secondary sources has been done by storing the data on computer. The data was entered in spreadsheet and prepare accessibility tables calculating the accessibility indicator approved by Municipality.

The analysis has been done on the basis of time and quality factors. Accessibility Maps of every SOR facilities has been prepared. Accessibility profiles and accessibility maps of various SOR sector at settlement level was prepared and compiled them at ward level.

Task 3 Indicative Development Potential Map (IDPM) preparation

The development potential of the Municipality in agriculture, horticulture, livestock, cottage and small industries, other potentiality of the Municipality has been compiled and prepared on the base map 1:25000 scale.

a) Municipality base map has been prepared showing:

- Administrative/political boundaries of Municipality/Ward.
- Large settlement
- National strategic roads, Municipality roads, rural roads, trails, bridges.
- Important historical, cultural, religious and preserved places
- Important water bodies, forest and other lands.





- The Consultant has analyzed the potentiality of the Municipality from secondary information collected from Municipality. The development potential area has been defined as:
 - Areas with extensive agriculture,
 - Areas with extensive horticulture.
 - Areas with extensive Livestock farming,
 - Areas with extensive fisheries.
 - Areas with extensive high value cash crops,
 - Areas with extensive business markets,
 - Potential Areas with tourism development,
 - Potential Areas with development of large industries like hydropower, mining develop,
 - Potential service centre
 - And other potential development areas
- Plotting of the development potential areas on the Municipality base map has been done and the finalized map was prepared on GIS.

Task 4 Preparation of MIM

The consultant has plotted the trail, bridge and road network of the Municipality in 1:25000 and GIS maps from Municipality level secondary sources. The consultant then carry out reconnaissance survey in the trails, bridges and roads with the help of checklist and update the map. The consultant has also prepared indicative cost estimates of improvements (Routine maintenance, recurrent maintenance & upgrading) and new construction of representative trails, bridges and road in the Municipality. The consultant has prepared a support document of MIM and validates the MIM and the document in MRCC.

The consultant has prepared list of all existing transport linkage under the category of routing maintenance, recurrent maintenance, periodic maintenance and upgrading. These lists have been prepared separately for various classes of roads. The consultant then prepared indicative cost estimate for improvement.

On the basis of linkage inventory and condition of the linkage, easy linkage has been subdivided into maximum four types of section i.e.

- Section requiring routine maintenance
- Section requiring periodic maintenance
- Section requiring rehabilitation
- Unordered section (new construction)



All roads have been plotted under separate legends category by intervention type in MIM. List of roads having graveled road street cars has been prepared separately. Information regarding inter municipality road /trails also be included and used drawing planning process.

Task 5 Perspective Plan

The required of interventions of services and facilities has been identified from the accessibility analysis and compilation of ward level workshops. During the final Municipality level workshop, the Municipality standard of time and quality accessibility for every service and facilities has been decided. The required intervention of every services and facilities has been identified and finalized on workshop on the basis of accessibility indicator. The Prioritized sector of services and prioritization of wards for every sector was done at Municipality level.

In transportation sector, list of roads, bridges and required interventions for respective roads and bridges has been identified to improve accessibility to goods and services within the Municipality. The perspective plan of Municipality road has been prepared for 20-25 years. All the identified interventions screened and graded on the basis of criteria 'B' of the approach manual. The interventions of services and facilities for the improvement of the access situation was discussed first with the Municipality technical team and the MRCC, and only upon their recommendation it was forwarded to Municipality council meetings, hence the final perspective plan of Municipality roads has been developed. The perspective plan has been shown in GIS maps also.

Task 6 MTMP Preparation

Considering the Perspective Plan, the prioritization of the Perspective Plan has been done according to the DoLIDAR Approach Manual. Subsequently, the updated five year MTMP of the Municipality was prepared by selecting interventions (maintenance, upgrading and new construction of main trails, trail bridges and roads) that have top priority in the Perspective Plan and that could be implemented in the next five years period, based on cost estimates of maintenance, upgrading, rehabilitation and new construction of main trails, trail bridges and roads and available financial resources.

1.4.3 Desk Study

Project Sensitization to Team

After signing the contract, the consultant has arranged a meeting of the proposed team and orient towards the objectives and scope of the work along with the working and manning schedules so that all the personnel will work as a team. The consultant has proposed a study team consisting of Transport Planner as a Team Leader, Socio-economist, who are competent and established professionals in their field of work. The study team was mobilized for further study.





1.4.4 Process and Activities in detail hodology

The Consultant has listed out all transport linkages given in the Perspective Plan, under the following categories;

- a. New construction
- b. Upgrading
- c. Rehabilitation
- d. Recurrent maintenance
- e. Periodic maintenance
- These lists have been prepared separately for various road classes (Road Class A, B, C, D)
- On the basis of Criteria (for prioritization), the consultant has ranked all the above projects
- The financial resources of Municipality on road sector has been analysed first
- The Consultant has prepared next Five Year's Projected Financial Plan by accounting all possible financial resources of Municipality and concerned wards.
- The consultant has prepared Five Year Financial Plan of the Municipality based on likely availability of financial resources in next five year. (All consolidated financial resource has been projected based on the past 2-3 years data.
- The Consultant will determine the tentative lengths that could be under taken by each year, in each category and under each class. These lengths shall be documented and presented.
- The Consultant has prepared all ranked lists of transport linkages to the Municipality for the selection of year - wise priority lists which should be implemented in the first, second and fifth year.
- All ranked lists of transport linkages; the Consultant has selected the year-wise priority lists to be included in the "Five Year Master Plan".
- Based on the approved year-wise priority lists, the Consultant has prepared Five Year Municipal Road Master Plan.
- The Final report of MTMP was presented on Municipality and MRCC in a workshop. Incorporating the suggestions and recommendations from the Municipality and MRCC, the final report has been prepared. Subsequently, the Municipality will present the final MTMP report to the Municipality council for formal approval

1.4.5 Organization of Workshop

Following workshops were organized.

1) Municipality IRAP and MTMP Orientation

One day orientation program was carried out in the Municipality for the IRAP and MTMP preparation. The participants were Municipality bodies, line agencies, stakeholders, representatives of national political parties and representatives from women, Dalit, local NGO.

2) IRAP Data collection training

One day orientation training for enumerators was organized for them about efficient data collection using IRAP tools at the consultant's office.

3) Ward/cluster level workshop

The consultant has organized ward/ cluster level workshop in each ward in which ward members, ward secretaries, representatives of political parties, women. NGO's, disadvantaged peoples representations, davits, traders, industries were presented. The workshop primarily focused on following aspects.

- Access situation within the area
- Validation of accessibility data
- Identification of interventions of every services and facilities.
- Access situation within the area
- Assess the local prioritization

4) Final workshop at Municipality level

The final validation workshop at Municipality level was organized at Municipality. The workshop primarily focused on following aspects:

Verification and update of secondary information and data's

Finalizing IDPM, MIM, Accessibility profiles.

Standardize accessibility indicator.

Finalization of intervention required and prioritized at Municipality level.

Identifying new viable transportation linkages and standard.

Problem identification in the rural transport linkage and required intervention on this.

Identifying required intervention (i.e. routine maintenance, periodic maintenance, rehabilitation and upgrading length) for each transportation linkages and bridges.

Responsibility of ward and Municipality regarding maintenance, rehabilitation and upgrading works.

Financial recourse mobilization for the achievement of the set target.



CHAPTER 2: Review of Existing Infrastructure Situation

Before going through Municipal Transport Master Planning (MTMP), it is fundamental to know about the present condition transport infrastructure. This chapter includes the existing road and roadside infrastructure along with their current condition. The physical infrastructure which has indirect effect to the transportation system such as urbanization, apartment system has also been assessed.

The existing transportation network of Paroha Municipality was studied during this inventory survey. Condition of various structures of roads was also studied. Most of the roads were found to be fair weather road. All roads and cross drainage structures requires proper regular maintenance in order to keep them in full functioning state. It is required to upgrade all existing roads to all weather roads.

2.1 Assessment of Existing Infrastructure Situation

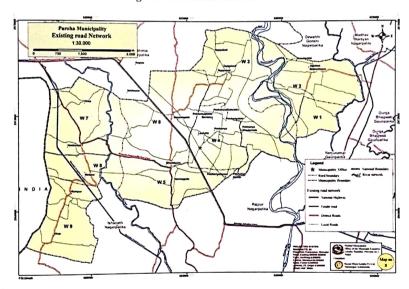


Figure 1 District Road Core NetworkRoad Network of Municipality

Paroha Municipality has no direct link with the national highway but it has two feeder roads and a postal road within its municipal boundary. The one of the feeder road, F205: Bangkul-Narkatiya-bhediyahi-Namnagada-Rajpur raod passes through ward no 7, 8 and 5 and connects



this municipality with Budhimai Municaplity and Ishannath Muncipality. The other feeder road F207: Rautahat Border-Bankul passes through ward no 6, 4, and 5 and connects this municipality with Budhimai Municaplity and Ishannath Muncipality. The postal road H17 also passes through ward no 6, 4, and 5. Similary there are 4 district roads within the municipal boundary of this municipality. The Narkatiya-motipur-rampur-khap-ghuira road passes through ward no. 7, 8, 9. The Basantapatti-Inarwari raod passes through ward 6. The Basantapatti-Tejapakad road passes through ward 6,3and the Sukdev Chowk- Jingaswa road passes through ward no 2. Most of the district are found to be earthen while the feeder roads are found to be gravelled.

Table 2: List of Non Municipal Roads in Municipality

| S. | | Pa | vement | | DO LD | | |
|----|--|------|--------|----|--------------|---------------|------------------|
| N. | ROADNAME | | GR | вт | New Track | Total (KM) | ROAD CLASS |
| 1 | Bangkul-Narkatiya-Bhediyahi-Namnagada- Rajpur | | 6.63 | | | 6.63 | SRN |
| 2 | Rautahat Border-Bankul | | 3.66 | | | 3.66 | SRN |
| 3 | Postal Road | | 3.94 | | | 3.94 | SRN |
| 4 | Narkatiya-Motipur-Rampur-Khap-Ghuira | 4.90 | | | | 4.90 | District Road |
| 5 | Basantapatti-Inarwari | 3.30 | | | | 3.30 | District Road |
| 6 | Basantapatti-Tejapakad | 2.92 | | | | 2.92 | District Road |
| 7 | Sukdev Chowk (BHW)-Jingaswa | 2.18 | | | | 2.18 | District Road |

2.2 Visionary City Development Plan

The definition of visionary is someone or something that thinks about the future or advancements in a creative and imaginative way. A person who is ahead of his time and who has a powerful plan for change in the future is an example of a visionary.

Municipal Development Plan includes the vision for land use and development over next five years. This master plan outlines the goals and objectives for the future and is the principal guide directing land use policy and decision making. It will help in growth of city and provides a reliable basis for public and private investment. This plan will present a vision for land use and development in coming years.

For the successful implementation of this plan following steps are to be included:

 Revision of municipal ordinances and bylaws in order to ensure the proper reflection of plan's goal and policies



- Development of a capital budget and program to outline long term public investments need and commitments
- To offer detail about the various area of the Municipality
- Continuing community involvement in the planning and governing

The main vision of this Municipality for the planning shall be outlined as;

" मुचना प्रविधिमैत्री एवं सवल स्थानिय सरकार !

पुर्वाधार निर्माण, कृषि, पर्यटन र सशक्तिकरण परोहाको आधार"!!

Guiding principal of this vision;

- Sustainable development of the city
- · Advancement in information and technology
- Infrastructure development
- Preservation of the cultural and religious monuments
- Qualitative economic development
- Encouraging the local people for the better accessibility in the services and facilities
- Encouraging the peoples participation in the development process
- Encouraging the disadvantaged and backwards peoples

Lead sector:

The lead sector of this Municipality for the overall development is the urban agriculture and to establish industries based on those agricultural products. The rural urban linkage is of the prime importance of the development sector. To promote this lead sector in this Municipality government should focus on the micro financing and cooperatives in the community level in the agriculture. Beside this village tourism may also be another sector for the overall upliftment of the economic sector in this Municipality.

Plan of various sectors should be included in the municipal plan

A. Land use Plan

- Various settlements will be linked to each other via a network of greens places, public transit
- Everyday services such as markets, medicines etc will be concentrated in higher density settlements
- Religious, educational and medical institutions will have respected place in the community



- There will be protection of natural areas from harmful and incompatible development and maintain the integrity of natural systems
- There will be support to the development of relationship between agriculture and industries

In this regard, this Municipality has the following type of existing land- use situation (refer land-use map). For further planning this Municipality should think for the probable settlement extension area.

Figure 2 Existing Land-use Map

Paroka Vinacipality
Existing Landers Map
(30,000)

No. 100

No. 10

Detoriation of Level of Service

Increased traffic conflict

Land use Cycle

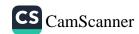
Increased traffic linereased accessibility

Land use Cycle

Landuse change

Figure 3 Transportation land use cycle





B. Natural environment

- Will work toward relationship with the natural environment
- Protection of natural resources from degradation
- Will preserve scenic viewpoints and insure public access to natural areas where appropriate

C. Transportation Plan

- Will offers a range of choices that are safe, affordable and convenient for residents
- Will use the roadway as efficiency as possible

D. Community facilities and services plan

- Will make the most effective and efficient use of existing services, buildings, utilities and facilities
- Will coordinate land use and development with the availability and capacity of public services, facilities and utilities
- Will concentrate city administrative functions and public services to the greatest extent possible
- Will ensure that existing public property, buildings will receive regular maintenance, upgrade and replacement or expansion based on approved standards

E. Economic development plan

- Will support sustainable development activities in target area so the character of the neighborhood
- Will promote and support locally owned and controlled small business including home occupation appropriate
- Will work with neighboring communities, regional agencies and government to promote land use and development policies

F. Educational Plan

- Will ensure excellent and diverse educational opportunities, services
- Will support and maintain schools where children live in close proximity and school serves wide range of community
- Will ensure safe access to school facilities



2.3 Constraints in Implementation of MTMP

The existing Right of Way (RoW) in this municipality and the carriageway width of the existing road are about 4-6 m. For the development of Municipality with efficient transportation system it is inherent to provide appropriate roadway width. Thus, the major constraint for the implementation of MTMP is to provide sufficient right of way of the roads. Again, the cost of Gravelling and blacktopping for a unit length of road (per kilometre) is very high compared to the yearly budget of the municipality allocated for the road construction. Thus, the budget constraint is also the main constraints for the implementation of the MTMP. In a year the available budget shall only be sufficient for a few kilometres only. For the implementation of the master plan the participation of local people is also quite often challenging for the municipality.



CHAPTER 3: Indicative Development Potential Map

3.1 Municipality Profile

3.1.1 Background

Paroha Municipality is located in Rautahat district, Province No. 2. This Municipality was established merging the then existing 6 VDCs namely Jingadawa (1-9), Tejapakad(1-9), Laukaha (1-9), Basantapatti(1-9), Narkatiya(1-9) and Rampurkhap(1-9). This Municipality now has been divided into 9 wards.

3.1.2 Physical location and geographical Characteristics

Geographic Location

Latitude 26°49'-26°53' N

Longitude 85°11'-85°17' E

Relative Location

East Yamunamai, Madhav Narayan, Durga Bhagwati RM

West India

North Rajpur, Ishnath Municipality

South Boudhimai, Devahi Muncipality

3.1.3 Socio Economic

The demographic features and other social characteristics of this Municipality have been presented here;

Table 3: Demographic data

| SN | Description | |
|----|------------------------------|-------|
| 1 | Total Population | 37845 |
| 2 | Female | 19394 |
| 3 | Male | 18451 |
| 4 | No. of household | 7072 |
| 5 | Total area in sq km | 37,45 |
| 6 | Population Density Per Sq.KM | 1011 |
| 7 | Average household size | 5.35 |



Table 4: Population in Poroha Municipality

| Ward No | | Population | 1 m 1 2 A | | | |
|---------|------|------------|-----------|-----------------------|------------------------|--|
| | Male | Female | Total | Total No of Household | Average household size | |
| 1 | 1099 | 1396 | 2495 | 454 | 5,50 | |
| 2 | 1884 | 2162 | 4046 | 724 | 5,59 | |
| 3 | 2347 | 2413 | 4760 | 996 | 4.78 | |
| 4 | 2524 | 2607 | 5131 | 849 | 6.04 | |
| 5 | 2050 | 2170 | 4220 | 695 | 6.07 | |
| 6 | 1928 | 1966 | 3894 | 742 | 5.25 | |
| 7 | 1820 | 1991 | 3811 | 637 | 5.98 | |
| 8 | 1960 | 1866 | 3826 | 758 | 5.05 | |
| 9 | 2839 | 2823 | 5662 | 1217 | 4.65 | |

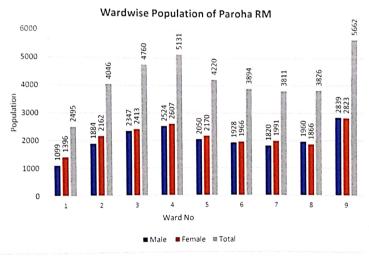


Figure 4 Population Distribution in different wards

Festivals

Id, Bakarid, Moharam, Chhat, Dashain, Holi, Deepawali, Teej, Krishna Janmaasthami, Bibah Panchami etc

Ethnic groups

Table 5: Population Distribution based on Ethnicity

| SIN | Ethnic Group | Population | Percentage |
|-----|--------------------|------------|------------|
| 1 | Muslim | 15795 | 41.74 |
| 2 | Kurmi | 5099 | 13.47 |
| 3 | Yadav | 2576 | 6.81 |
| 4 | Teli | 1714 | 4.53 |
| 5 | Nuniya | 1336 | 3.53 |
| 6 | Chamar/Harijan/Ram | 1168 | 3.09 |
| 7 | Kalawar | 922 | 2.44 |
| 8 | Dhobi | 842 | 2.23 |
| 9 | Kanu | 793 | 2.10 |
| 10 | Dushadha/Pashwan | 781 | 2.06 |
| 11 | Barai | 709 | 1.87 |
| 12 | Koiri/Kushwa | 700 | 1.85 |
| 13 | Mallaha | 660 | 1,74 |
| 14 | Lohar | 607 | 1.60 |
| 15 | Kumal | 490 | 1.29 |
| 16 | Tatma/tatwa | 480 | 1.27 |
| 17 | Hajam/Thakur | 416 | 1.10 |
| 18 | Thakuri | 308 | 0.81 |
| 19 | Sanayasi/Dashnami | 289 | 0.76 |
| 20 | Rajput | 256 | 0.68 |
| 21 | Brahmin Terai | 243 | 0.64 |
| 22 | Others | 1658 | 4.38 |

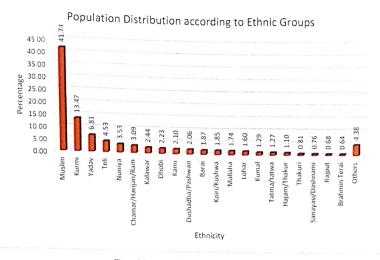


Figure 5 Population Distribution Based on Ethnicity

Literacy Rate

The literacy rate of this Municipality is 37.22%.

3.2 List of Potential Development Area's

3.2.1 Existing/Potential Area for Tourism, Religious and Historical Place

| .N. | Name | Address | Importance |
|-----|----------------------|-----------------|------------------------|
| 1 | Jume Masjid | Jingadawa 1 | Religious |
| 2 | Brahmasthan Mandir | Jingadawa Tol 2 | Religious |
| 3 | Jame Masjid | Jingadawa Tol 2 | Religious |
| 4 | Brahmasthan | Tejapakad 3 | Religious |
| 5 | Mahadevsthan | Tejapakad 3 | Religious |
| 6 | Masjid | Tejapakad 3 | Religious |
| 7 | Brahma Jyoti Mandir | Laukaha 4 | Religious |
| 8 | Masjid Kurba | Laukaha 4 | Religious |
| 9 | Ram Janaki Mandir | Laukaha 4 | Religious and Cultural |
| 10 | Shiva Mandir | Laukaha 4 | Religious and Cultural |
| 11 | Sahid Karwala Masjid | Laukaha 4 | Religious |

| s.N. | Name | Address | Importance |
|------|------------------------|-------------|------------------------|
| 12 | Yagyasala Mandir | Bhediyahi 7 | Religious |
| 13 | Ram Janaki Math | Namnagara 7 | Religious |
| 14 | Jame Masjid | Namnagara 7 | Religious |
| 15 | Pokhariya Jame Masjid | Damar 7 | Religious |
| 16 | Ram Janaki Mandir | Narkatiya 7 | Religious |
| 17 | Hanuman Mandir | Khanp Tol 7 | Religious |
| 18 | Jamiya Sahifaya Masjid | Narkatiya 7 | Religious |
| 19 | Jagannath Mandir | Narkatiya 8 | Religious |
| 20 | Chardham Mandir | Motipur 8 | Religious |
| 21 | Brahmasthan Mandir | Narkatiya 8 | Religious |
| 22 | Jyama Masjid | Narkatiya 8 | Religious |
| 23 | Tajwidulkuran Masjid | Narkatiya 8 | Religious |
| 24 | Ram Janaki Math | Narkatiya 8 | Religious |
| 25 | Ram Janaki Mandir | Rampur 9 | Religious and Cultural |
| 26 | Manakamana Baba Mandir | Khanp 9 | Religious and Cultural |
| 27 | Jame Masjid | Khanp 9 | Religious |
| 28 | Jame Masjid | Khanp 9 | Religious |
| 29 | Chathghat Pokhari | Rampur 9 | Religious and Cultural |

3.2.2 Potential Area for Cottage and Industries

| S.N. | Name of Industry | Type of Industry | Address |
|------|-------------------------------|------------------|-------------|
| 1 | Raj Brick Factory | Brick Factory | Jingadawa 1 |
| 2 | Sanjay Brick Factory | Brick Factory | Jingadawa 1 |
| 3 | Chand Animal Farm | Gharelu | Jingadawa 1 |
| 4 | Gauro Poultry Farm | Gharelu | Jingadawa 1 |
| 5 | Seikh Bali Ullah Poultry Farm | Gharelu | Jingadawa 1 |
| 6 | Aman Rice Mill | Gharelu | Tejapakad 3 |
| 7 | Rice Mill | Gharelu | Tejapakad 3 |
| 8 | Battery Factory | Battery Factory | Laukaha 4 |
| 9 | Aman Brick Factory | Brick Factory | Laukaha 4 |
| 10 | Chand Brick Factory | Brick Factory | Laukaha 4 |
| 11 | Aalam Brick Factory | Brick Factory | Laukaha 4 |

| S.N. | Name of Industry | Type of Industry | Address |
|------|-----------------------------|------------------|----------------------|
| 12 | Sahu Brick Factory | Brick Factory | Namnagara 5 |
| 13 | Sona Brick Factory | Brick Factory | Bhediyati 5 |
| 14 | Surya Brick Factory | Brick Factory | Bhediyati 5 |
| 15 | Rakesh Furniture Factory | Furniture | Bhediyati 5 |
| 16 | Anmol Brick Factory | Brick Factory | Namnagara 5 |
| 17 | Sky Brick Factory | Brick Factory | Namnagara 5 |
| 18 | Surya Brick Factory | Brick Factory | Bhediyahi 6 |
| 19 | Sona Brick Factory | Brick Factory | Across Bhakuwa River |
| 20 | Nepal Brick Factory | Brick Factory | Across Bhakuwa River |
| 21 | Shanti Brick Factory | Brick Factory | Way to Kopuwa 7 |
| 22 | Radhika Mill | Gharelu | Narkatiya 7 |
| 23 | Rabita Rice and Seller Mill | Gharelu | Narkatiya 7 |
| 24 | New Nepal Brick Factory | Brick Factory | Khanp Tol 9 |
| 25 | Khursid Furniture Factory | Furniture | Khanp Tol 9 |

3.2.3 Agriculture and Livestock Potential Area

This municipality has potential in agricultural and livestock farming. Some of them are listed below.

| S.N. | Main Crops | Area |
|------|------------|--|
| l | Rice | Jingadawa I and 2, Brahmasthan, Boudhimai 3, Pokhariya, Laukaha 4, Bhediyahi, Namnagara, Damar 5, Basantapatti Bhediyahi 6, Ghodar, Chauri, Pachiyari Tol, Dahiyard, Bakhum River Over 7, Purwari Tol, Pachari Tol, Dakshin Tol, Uttar Tol, All area 8, Rampur Khanp Tol 9 |
| 2 | Wheat | Jingadawa 1 and 2, Brahmasthan, Boudhimai 3, Pokhariya, Laukaha 4, Bhediyahi, Namnagara, Damar 5, Basantapatti Bhediyahi 6, Ghodar, Chauri, Pachiyari Tol, Dahiyard, Bakhum River Over 7, Purwari Tol, Pachari Tol, Dakshin Tol, Uttar Tol, All area 8, Rampur Khanp Tol 9 |
| 3 | Masuri Dal | Jingadawa 1 and 2, Brahmasthan, Boudhimai 3, Pokhariya, Laukaha 4, Basantapatti Bhediyahi 6,Ghodar, Chauri, Pachiyari Tol, Dahiyard, Bakhum River Over 7,Purwari Tol, Pachari Tol, Dakshin Tol, Uttar Tol, All area 8,Rampur Khanp Tol 9 |
| 4 | Sugarcane | Jingadawa 1 and 2, Brahmasthan, Boudhimai 3, Pokhariya, Laukaha 4, Bhediyahi, Namnagara, Damar 5,Basantapatti Bhediyahi 6,Rampur Khanp Tol 9 |
| 5 | Vegetables | Jingadawa 1, Brahmasthan, Boudhimai 3, Pokhariya, Laukaha 4, Bhediyahi, Damar 5, Rampur Khanp Tol 9 |





| S.N. | Main Crops | Area |
|------|-------------|--|
| 6 | Maize | Jingadawa 2, Brahmasthan, Boudhimai 3, Pokhariya, Laukaha 4, Bhediyahi 5,Purwari Tol, Pachari Tol, Dakshin Tol, Uttar Tol, All area 8 |
| 7 | Mustard Oil | Basantapatti Bhediyahi 6,Ghodar, Chauri, Pachiyari Tol, Dahiyard, Bakhum River Over 7,Purwari Tol, Pachari Tol, Dakshin Tol, Uttar Tol, All area 8 |

| S.N. | Livestock | Potential Pocket Area |
|------|---------------------|-----------------------|
| 1 | Cow/Buffalo Farming | Various places |
| 2 | Goat/Pig Farming | Various places |
| 3 | Fish Farming | Various places |
| 4 | Hen/duck Farming | Various places |

3.3 Service Centres and Growth Centres

3.3.1 Health

| S.N. | Name | Types | Address |
|------|---------------------------|----------------------------|-------------------|
| 1 | Samudayik Health Post | Health Post | Jingadawa 1 |
| 2 | Jingadawa Health Post | Health Post | Jingadawa 2 |
| 3 | Health Post, Tejapakad | Health Post, Prasuti Griha | Tejapakad 3 |
| 4 | Samudayik Health Post | Health Post | Pokhariya 4 |
| 5 | Sahari Health Center | Health Post | Bhediyahi Bazar 5 |
| 6 | Health Post, Basantapatti | Health Post | Bhediyahi 6 |
| 7 | Health Post, Narkatiya | Health Post | Narkatiya 8 |
| 8 | Health Post, Rampur Khanp | Health Post | Rampur 9 |

3.3.2 Market Centres

| S.N. | Trade Area | Types | Address |
|------|--------------------|---------------------------|----------------|
| 1 | School Chowk | Haat Bazar | School Tol 2 |
| 2 | Tejapakad Bazar | Haat Bazar, Bazar Chhetra | Tejapakad 3 |
| 3 | Laukaha Bazar | Haat Bazar | Laukaha 4 |
| 4 | Bhediyati Bazar | Haat Bazar | Bhediyati 5 |
| 5 | Basantapatti Bazar | Haat Bazar | Basantapatti 6 |
| 6 | Purano Bazar | Haat Bazar, Bazar Chhetra | Narkatiya 8 |
| 7 | Basir Chowk | Haat Bazar, Bazar Chhetra | Narkatiya 8 |





3.3.3 Security Post office

| S.N. | Name of Security Sevice | Address |
|------|-------------------------|---|
| 1 | Police Post | Jingadawa (Temporary) 1, Laukaha Bajar 4, Narkatiya Khanp Tol Center 7, Narkatiya 8, Rampur 9 |
| 2 | Armed Police Force Camp | Khanp 9 |

3.3.4 Telecommunication

Telephone facilities are available in most places of this Municipality. But the service is not satisfactory,

| S.N. | Communication | Quantity | Remarks |
|------|---------------|----------|---------|
| 1 | NCELL Tower | 3 | |

3.4 Traffic Volume Study

According to traffic survey conducted, walking is the most common mode of transportation. In case of short distance people preferred cycling. Bullock carts and tractors are used for the transportation of agricultural products. Due to lack of good roads, use of modes of public transport like bus for travelling purpose was found to be very less. Few number of trucks were found to be used for the purpose of transportation of goods, agricultural products etc. to and from the production area and market center.

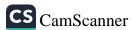
3.4.1 Mode Choice

People choose the mode of transportation as per their convenience and their requirement. Different factors affect the mode choice. Some of them are:

- Household characteristics
 - ✓ Income
 - ✓ Household structures
- Zone characteristics
 - ✓ Land use
 - ✓ Land price
- Residential density, rate of urbanization
- Accessibility
- Vehicle ownership
- Quality of local public transit
- Purpose of travel, nature of work
- Travel time, cost and distance







3.4.2 Future Traffic Forecast

Traffic forecasting is the process of estimating the number of vehicles or people that are likely to use different transportation facilities in the future. Forecasting and estimation of growth in vehicular population of any major transportation engineering development requires capturing the past trend and using it to predict the future trend based on qualified assumptions, simulations and models created using explanatory variables.

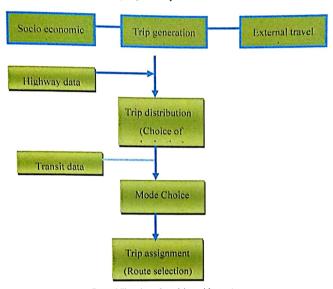


Figure 6 Flow chart of travel demand forecasting

From the traffic survey conducted at this Municipality following traffic data were collected and future traffic were forecasted taking growth rate 7% using following formulae:

 $F = P(1+r)^n$ Where; $F = Future \ traffic \qquad \qquad r = growth \ rate$ $n = number \ of \ years \qquad \qquad P = Present \ traffic$



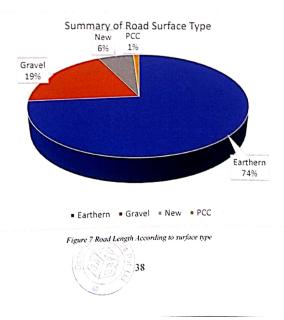


CHAPTER 4: Municipality Inventory Map of Road Network

Road Inventory Survey was done with the help of the earlier prepared GIS base map of the municipality and Road inventory form. Field verification of the base map was done with the help of GPS survey. Road inventory survey was done from one nodal point to another in each road sections collecting information related to road surface, crossing structure, road condition, and linkages to the large settlements, economically active spaces, existing service centres, potential growth centres, potential areas of development, areas of special considerations and direct link to another linkage. From data of the road inventory survey, MIM is prepared. And based on the earlier study of Potential areas and MIM, IDPM was prepared.

4.1 Overview of Road Inventory

The Study had identified 150.33 Km of road network with in the Muncipality. Most of the roads in this Municipality are Earthen (74%) followed by Gravelled (19%) road and only few km of road is Metallic. Further, demand for new construction was 9.2 Km that need to be carried out to meet the road access up to public access of road network. A few kilometres of road (14.17km) which was gravelled was constructed and maintained by DOR lying under SRN. Rest of roads including 4.88 km district roads are earthen. Again, about 73% of the roads are below 4 m wide. Only 25% of Road Section are wider than 6 meter and most of these roads fall under DRCN and SRN.





Summary of Road Width

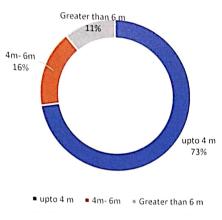
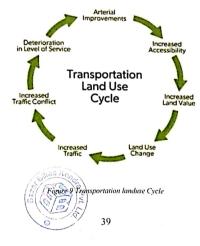


Figure 8 Percentage of Road distribution by Width

4.2 Land use and Road Density

4.2.1 Land use

Land use and transportation are interdependent. Mobility, especially in the form of motorized transport requires an increasing share of land. Long term sustainability should be considered by altering the urban structure itself. Like Transportation demands that are concentrated in down town areas can be dispersed to city sub centres which will help in relieving congestion and promoting development of a more balanced society.



Roads are often built or improved to allow greater access to new development. The road improvement makes other land along the road more accessible and attractive for further development. With more housing and services along the road, traffic volumes increase resulting in more congestion and decreased road capacity. Eventually the reduced efficiency of the road necessities more roadway improvements which can lead to additional development along the road and restart the land use transportation cycle.

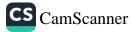
When the land use transportation cycle occurs over and over in a newly developed city or semi urban, the pressure of road capacity increases. The municipality transport master plan is one among the many planning efforts which will reflect the efforts to define where we work, play and how we move from one place to another. Both population and traffic volume forecasting are considered during the planning.

In this regard, this Municipality has the following type of existing land- use situation (refer land-use map. For further planning of this Rural municipality we should think for the probable settlement extension area.

Table 6: Ward wise landuse Pattern

| wards | Agriculture | Brick kiln area | builtup | Canal | Dugout area | ochard | Open space | puod | River | sand | Grand Total |
|-------|-------------|-----------------|---------|-------|-------------|--------|------------|------|-------|------|-------------|
| | ' | ā | | | - | | J | | | | ی |
| 1 | 3.07 | 0.01 | 0.20 | | 0.08 | 0.12 | | | 0.02 | | 3.50 |
| 2 | 1.47 | | 0.17 | | | 0.15 | | | 0.11 | 0.14 | 2.04 |
| 3 | 6.73 | | 0.31 | | | 0.34 | 0.04 | 0.00 | 0.21 | 0.50 | 8.14 |
| 4 | 2.53 | 0.03 | 0.29 | 0.01 | 0.13 | 0.12 | | 0.01 | | | 3.12 |
| 5 | 2.96 | 0.02 | 0.25 | 0.01 | 0.12 | 0.32 | | 0.04 | | | 3.72 |
| 6 | 5.51 | 0.01 | 0.19 | 0.03 | 0.06 | 0.22 | | 0.07 | | | 6.08 |
| 7 | 3.83 | 0.01 | 0.23 | 0.02 | 0.01 | 0.27 | | 0.03 | 0.03 | | 4.44 |
| 8 | 2.11 | 0.00 | 0.13 | 0.03 | 0.01 | 0.20 | 0.00 | 0.03 | 0.01 | | 2.53 |
| 9 | 3.22 | 0.00 | 0.26 | 0.01 | 0.03 | 0.25 | 0.00 | 0.11 | | | 3.87 |
| Total | 31.43 | 0.09 | 2.02 | 0.11 | 0.44 | 2.00 | 0.05 | 0.29 | 0.38 | 0.64 | 37.45 |





Details of Landuse Pattern

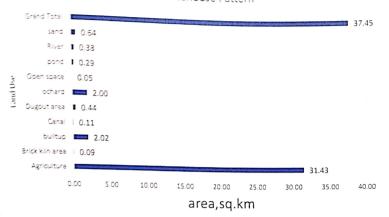
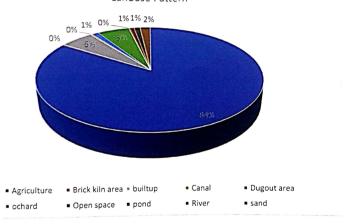


Figure 10 Landuse Pattern in Paroha Municipalitry

Landuse Pattern



4.2.2 Road Density

According to National urban strategy 2015, the target of urban road density is 7.5 km per square km land area. Paroha Municipality has 133.76 km of road network with its total area 37.45 sq.km. But most of the roads are earthen and are very narrow (<6.0 m) to address the trip generated from various area. The ward wise distribution of road over total area and



population pattern has been presented. The road density as observed for total area of municipality is found as 4.01 km road per square km area. Again, the Average density of road per 1000 population is found as 121.26 km. The varying level of density (based on area) shall be analysed by using density based on population served and area. The density based on population replicates that the density so high that most of population have access of road or either there is high road density on certain place only. In such condition, instead of construction of new roads the time has arrived to give attention over condition of road. However, with these finding the major challenge for the development of road is to make them more operational.

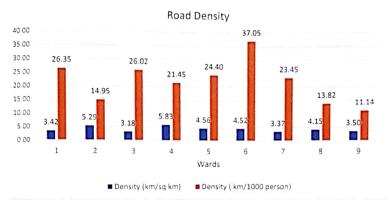


Figure 11 Road Density

Table 7: Ward-Wise Population, Area and Road Density

| Ward No | Total Population | Area sq.km | Road length km | Density (km/sq km) | Density (km/1000 person) |
|------------|---------------------|------------|-------------------|-----------------------|-----------------------------|
| 1 | 2495 | 3.50 | 11.96 | 3.42 | 26.35 |
| 2 | 4046 | 2.04 | 10.82 | 5.29 | 14.95 |
| 3 | 4760 | 8.14 | 25.92 | 3.18 | 26.02 |
| 4 | 5131 | 3.12 | 18.21 | 5.83 | 21.45 |
| 5 | 4220 | 3.72 | 16.96 | 4.56 | 24,40 |
| 6 | 3894 | 6.08 | 27.49 | 4.52 | 37.05 |
| 7 | 3811 | 4,44 | 14.94 | 3.37 | 23.45 |
| 8 | 3826 | 2.53 | 10.47 | 4.15 | 13.82 |
| 9 | 5662 | 3.87 | 13.56 | 3.50 | 11.14 |
| Total | 37845 | 37,45 | 150.33 | 4,20 | 22.07 |
| | | | | Ave | rage |



4.3 Grading and Nomenclature of Roads

Road network serve for direct access to the particular land-use by the provision of pedestrian footpaths, bicycle tracks, bus and vehicle routes and cater through traffic that is not related to immediate land uses. Functional provisions of passenger and goods movement mainly define the hierarchy of roads and their classification. On the basis of this concept, roads are classified as per their function. Road class is related to the technical standard and functional requirements. Therefore, road classification should be based on its functional hierarchy. It is important to distinguish roads in different class or type based on various criteria. A road hierarchy is a means of defining each roadway in terms of its function such that appropriate objectives for that roadway can be set and appropriate design criteria can be implemented. It is an important instrument of road network and land use planning.





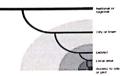


Figure 14A Conceptual Hierarchy

Figure 14B Road Network Hierarchy Figure 14C Urban Road Hierarchy

There are restrictions of direct linkage between various kinds of road-hierarchy. In other words, direct connections between certain types of road links should be reduced, for example residential streets and arterial roads. Connections between similar order streets should be made (e.g. arterial to arterial) or between street types that are separated by one level in the hierarchy (e.g. arterial to highway and collector to arterial.). This conceptual framework can be seen from Figure (A, B, C). These hierarchical distinctions of road types become clearer when considering the recommended design specifications for the number of through lanes, design speed, intersection spacing and driveway access.

A well-formed road hierarchy increases the performance and efficiency of the particular type of road as well as of the entire road network. Furthermore, it reduces overall impact of traffic by concentrating longer distance flow onto routes in less sensitive locations, ensuring land uses and activities that are incompatible with traffic flow are restricted from routes where traffic movement should predominate and preserving areas where through traffic is discouraged.

The concepts of road hierarchy assist in planning of overall road network and its transport services. Different hierarchy of road has different effect in surrounding areas and other roadways. Hierarchies of roads enable urban design principles such as accessibility,



connectivity, efficiency, amenity and safety. Further, it also identifies treatments such as barriers, buffers and landscaping to preserve amenity for adjacent land uses. Thus, a proper plan should accommodate all users of the urban streets in planning, designing and construction of the road infrastructure and furniture. Municipality road network can be conceptualized by considering the functional hierarchy as arterial, sub-arterial and urban roads of various categories such as Class A, Class B, Class C and Class D.

4.3.1 Right of Way for Roads of different Classes

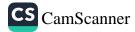
The DTMP guideline has expected roads under category of National Highway (NH), Feeder Roads (FR) and District Roads (DRCN) within the municipality area. The RoW of these roads are considered as per respective Guidelines. i.e the RoW of National Highways, Feeder Roads and District Roads are 50.0 m, 30.0 m and 20.0 m. The guideline has clearly stated about the setback distance for these roads (having $RoW \geq 20.0$) as 6.0 m on either side. All of these standards shall be applied to the municipality accordingly. On discussion with the MRCC, they have made consensus to reduce the right of way of the municipal roads than the minimum RoW that has been recommended by the MTMP guides as greater road width will be inconvenient to them as the greater RoW will create serious problems in road expansion in the major/market areas where there is dense settlement. Moreover, citing the same reason, the MRCC has made consensus on changing the class of the road than that the consultant team has suggested in its Final report. In this final report, there is only one road that has been included in class A road, the numbers of same class road were 5 in Final report.

Table 8: Urban Road Class and Features

| S.N. | Type of road | Class | RoW |
|------|----------------------|-------|-----|
| 1 | Main collector road | A | 15m |
| 2 | Other collector road | В | 10m |
| 3 | Main tole road | С | 8m |
| 4 | Other roads | D | 6m |

Based on DTMP guideline, the building line or setback shall be maintained 6.0 m for roads having RoW equal to or more than 20.0 m and 2.0 m for other roads. However, Nepal Road Standards-2070 has considered the setback distance at curved section only and that should be sufficient to provide the adequate sight distance. It is silent about the building line.





१४.३१ अब निर्माण हुने सडकको कुनै पनि बाटोको न्यूनतम चौडाई ६ मी. हुनु पर्नेछ र नापी तथा मालपोत कार्यालयहरूलाई सोही बिमिजिमले सेस्ता, नक्सा तथा अभिलेखहरूमा बाटो कायम गरी यस व्यवस्थाको कार्यन्वयन गर्न लेखि पठाउनु पर्नेछ। । यस्ता बाटोमा भवन निर्माण स्वीकृत दिंदा केन्द्रबाट किम्तमा ३ मीटर सडकको क्षेत्राधिकार (RoW) र सडक क्षेत्राधिकार सिमाबाट १.५ मीटर सेट ब्याक छाडेर मात्र निर्माण स्वीकृति दिनु पर्नेछ । तर हिमाली/पहाडी जिल्लाका उपत्यका (valley) एवं समथल भूभाग देखि बाहेकका भिरालो क्षेत्रमा प्राविधिकरूपमा उक्त ६ मिटर चौडाई कायम गर्न सम्भव नभएमा प्राविधिकको प्रतिवेदनको आधारमा सम्बन्धित स्थानीय निकायको परिषद्को निर्णयबाट ४ मिटरमा नघट्ने गरी निर्धारण गर्ने सक्नेछ।

१४.३६ नगरपालिका क्षेत्रमा सडक सम्बन्धी ऐन लगायत प्रचलित कानूनले तोकेमा सोही अनुसार र सो नभएमा नगर यातायात गुरुयोजनाले निर्धारण गरे अनुरुप सेटब्याक कायम हुनेछ। तर नगरपालिकाले यस्तो सेटब्याक सडक किनारबाट १.५ मिटर भन्दा कम हुने गरी निर्धारण गर्ने छैन।

१४.३८ नयाँ बाटोको घुम्ति वा मोडको न्यूनतम अर्थव्यास बाटोको चौडाई भन्दा २०% ते बढी चौडा भएको हुनु पर्नेछ।

(Source :- Fundamental Guidelines for Settlement Development, Urban Planning and Building Construction - 2072 (2015

However, according to Fundamental Guidelines for Settlement Development, Urban Planning and Building Construction-2072 (2015 AD), the minimum setback distance for urban roads as 1.5 m on either side. Again, the minimum of Row of roads has set as 6.0 m. i.e 3.0 m on either side form the centreline. A portion of this guideline has presented herewith.

4.3.2 Urban Road Classification

Roads under jurisdiction of Municipal authority are referred as urban roads. The classification practices of urban roads basically are guided by the functional hierarchy of roads. In the context of Nepal, Department of Roads (DoR) has classified urban roads as Arterial, Subarterial, Collector and Local/Residential Street in its Urban Road Standard 2068 (Final). The ToR provided for the preparation of MTMP has formulated the class of roads into A, B, C and D.



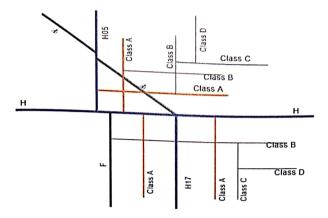


Figure 15 Detail description of Road class

The fundamental parameters of the urban road are shown in figure 13. Municipality has a complete road network hierarchy consisting of National Highways, Feeder Roads, District Roads and Urban Roads of all four classes. The conceptual layout based on the functional hierarchy of the entire road network is shown in Figure .

❖ National Highways

Arterial roads in Municipality are taken as the links of National Highways. The technical standards of these roads are taken from the DoR directives for Right of Way (RoW) and other features.

* Feeder Roads

Feeder roads are taken as the sub-arterial road in Municipality. The technical standards for this category are taken as mentioned by the DoR road Standard. These roads have relatively higher traffic with through movement of local vehicles.

Class A Roads

Class A roads serve as the major collector roads. These roads start either from the Arterial or Sub-Arterial road. These roads are of relatively long distance which connect big market or settlement areas or two or more wards centres within the Municipality.

* Class B Roads

Class B roads are of secondary type of collector roads. These may serve as the collector to the Class A roads with the relatively lower geometric standard. Intersection and other parameters may be taken as similar as Class A roads.



Class C and Class D Roads

Class C roads are residential street and they provide access to the private property and small low volume intensity. If these roads connect one or more residential blocks then they are taken as Class C. If they collect from or end to the single residential block then they are referred as Class D roads. These serve for internal traffic movement without through traffic movement.

4.3.3 Coding of Municipality Roads

Once the roads are finalized, each municipal roads are assigned a road code. Coding of road is done based on the guidelines of DTMP and MTMP. Provision of those guidelines have been slightly modified as per the restructuring of the nation into the federal system.

- First digit (1-7) represents the Province Number. Code 1 Stand for Province No. 1 and similarly for other provinces.
- Second and third digits represent particular district (1-77). Rautahat District is coded by 32.
- Fourth code M stands for Municipality
- Fifth and sixth digits represents the particular municipality in that district. Paroha RM is coded by 04.
- Seventh code indicates letter A-D for particular Class of road.
- Next three digits (000-999) represents the particular transport linkage.

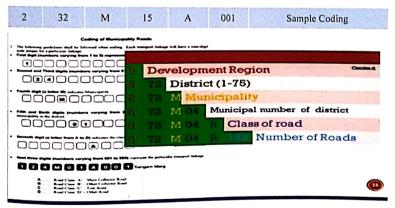


Figure 16 Coding of Municipal Roads



4.4 Summary of Road Class A

These roads are major transport corridors within the municipal territory. These roads are assumed to have higher traffic and they connect major settlements or market areas within the municipality. Functionally these roads carry the traffic from major settlements, tourist areas to the SRN linkages. As per the available RoW and land use pattern typical cross section may be selected as shown in figure below. Minimum Row for this class of road has been set to 15 m. It is highly recommended to have separate segment for pedestrian and cycle track. At the same time, these roads need to have adequate median strip to segregate vehicles coming from different directions.

There are altogether 11 Municipal roads that lie in road class A.

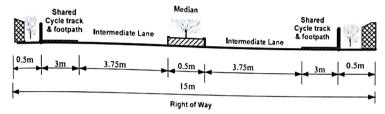


Figure 17 Typical Cross-section for Class A Roads

Table 9: List of Class A Roads

| Road Code | Road Name | HH served | Ward Pass | Road width | Existing bridge | New bridge proposed | Culvert | ВT | Earthern | Gravel | New | PCC | Grand Total |
|------------|---------------------------------|-----------|-----------|------------|--------------------|------------------------|---------|----|----------|--------|-----|-----|-------------|
| 232M15A001 | Bhediyahi-Laukaha- Pokhariya | 2177 | 4 | 3.5 | | | 0.023 | | 0.845 | | | | 0.868 |

4.5 Summary of Road Class B

These roads serve for the purpose of collectors from relatively small settlements and having less traffic flow. The RoW for such class of roads is minimum of 10 m. The typical cross section of such roads is shown in figure below. These roads serve as linkage to class A roads. These roads have been categorized based on public demand as well as keeping in view the future need of municipality. These roads will be served by smaller public transport modes.



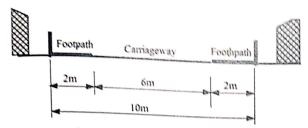


Figure 18 Typical Cross-section for Class B Roads

Table 10: List of Class B Roads

| Road Code | Road Name | Hil served | Ward Pass | Road width | Existing bridge | Vew bridge proposed | Culvert | BF | Earthern | Gravel | New PCC | irand Total |
|----------------|---|------------|-----------|------------|--------------------|------------------------|--------------------|-------|----------|------------|------------|-------------|
| 232M1 5B001 | Khap Bata Purba Dakshin Simana Hudai Bharatiya Simana Samma | 1097 | 9 | 6 | | | | | 0.529 | | | 0.529 |
| 232M1 5B002 | Raj Devi Mandir To Chhath Ghat Hudai Mansari Road Samma | 2158 | 9 | 3.5 | | | | | 0.943 | | | 0.943 |
| 232M1 5B003 | Mul Sadak Bata Mansuri Simana Sadak | 250 | 8,9 | 3 | | | | | 0,727 | 0.447 | | 1.174 |
| 232M1 5B004 | Khap - Badimasjid- Mansari | 2375 | 9 | 6 | | | | 1.413 | | | | 1.413 |
| 232M1 5B005 | Narkatiya Bata Nahar Ko Culvert Bata Bharatiya Simana Jane Bato | 2915 | 8 | 4 | | | 0.018 | | 1,266 | | | 1.284 |
| | Mul Sadak Bata Wada 8 Ko Karyalaya Hudai Bhkuwa Khola Hudai Rajmarga Jodne Sadak | 2363 | 7,8 | 6 | 0.020 | | | | | 0.920 | | 0.939 |
| 232M1 5B007 | Tejapakad-Lal Bakaiya- Jingadawa Belichawa | 2891 | 2,3 | 3 | | 0.196 | 0.008 | | 0.781 | 0.530 |) | 1.514 |
| 232M1 5B008 | Bhediyahi -Tejapakad | 1417 | 3,4,6 | 6 | | | 0.022 | | | 2.821 | l | 2.843 |
| 232M1 5B009 | | 11123 | 1 | 7 | | | | | 1.560 | | | 1.560 |
| 232M1 5B010 | | 4703 | 1,2,3 | 3.75 | 5 | | eng utaskingspilat | | 1.340 | id stronge | | 1.340 |
| 232M | Sheikh Id Ko Pokhari Bat Uttar-Shekh Islam Ko | n 1666 | 3,6 | 3 | | | | | | 0,94 | 2 | 0.942 |

| Road Code | Road Name | HII served | Wand Pass | Road width Existing | bridge Vew bridge proposed | Chilvert | Bit | Served Pines | and Rojal |
|----------------|--|------------|-----------|------------------------|----------------------------------|----------|-------|-----------------|-----------|
| \$B011 | Krishi Farm Jodne Sadak | | | and the second | | | | | |
| 232MI | Madarsa To Chhath Ghat | 663 | 7 | 3 | | | 0.442 | | 0.442 |
| | Lalbakaiya Badh Hudai Malhiniya Jane Sadak | 1552 | 1,2,3 | 3 | | | 4.434 | | 4.434 |
| 232M1 5B014 | Bhediyahi-Basantapatti | 3693 | 5,6 | 3 | | | 1.497 | | 1.497 |
| 232M1 5B015 | Bhediyahi-Bata Purba Wada 4 Ko Simana Samma Ko Sadak | 3058 | 4,5,6 | 6 | | | 0.570 | | 0.570 |
| 232M1 5B016 | Pokhariya Damar Bata Uttar-Pokhariya Mandir | 236 | 3,4 | 3 | | | 1.096 | | 1.096 |
| 232M1 5B017 | Battery Company Bata Purba Pokhariya Gahatoli Sadak | 2177 | 4,6 | 3 | | | 0.1 | 796 | 0.796 |
| 232M1 5B018 | Lalbakaiya Badh Sadak | 63 | ,3 | 4 | | | 6.467 | | 6.467 |
| | Tejpakad-Laukaha- Pokhariya | 6274 | 3,4 | 3 | | | 1.814 | | 1.814 |
| | Jidagawa belbichawa bata Uttar Falahull Muslimin Madarsa hudai dewahi gonahi na pa jane sadak | 300 | 1 | 4 | | | 0.409 | | 0.408 |

4.6 Summary of Road Class C

These types of urban roads are for the purpose of residential access. Residential streets are designed for lower traffic volumes for especially private transport. Therefore, RoW for this class is designed for single lane pavement. Minimum RoW for such class of roads is allocated as 8 m. Typical cross section of such roads is shown below.

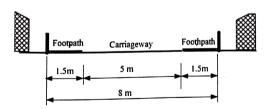


Figure 19 Typical Cross-section for Class C Roads



Table 11: List of Class C roads

| Road Code | Road Name | IIII served | WardPass | Rosa with | stating bridge | New bridge | broposed | Culvert | 111 | Sardheim | Gravel | New | PCC | Grand Total |
|----------------|--|-------------|----------|-----------|----------------|------------|----------|---------|-----|----------|--------|-------|------|-------------|
| 32M1 5C001 | Jugul Rautko Ghar-Prithvi Narayan Rautko Ghar Bata Kabrasthan Jane Bato | 3195 | 9 | 4 | | | | | | 1.18 | | 0.40 | | 1.58 |
| 132M1 5C002 | Swastha Chowki Bata Panitanki Chowk Bata Dasgaja | 85 | 9 | 2 | | | | | | 0.40 | | 0.00 | | 0.41 |
| 232M1 5C003 | Khap Tole bata Bikhardas Tatma Ko Ghar Samma Bato | 316 | 9 | 0 | | | | | | | | 0.78 | | 0.78 |
| 232M1 5C004 | Boudimai ko mandir bata purba uttar hudai Bikhardas tatma ko ghar jane bato | 1614 | 9 | 3 | | | | | | 0.71 | | | | 0.78 |
| 232M1 5C005 | Rampur,Dakshinwari Tole Bata Damar Hudai Rajpur Jane Bato | 2527 | 9 | 3 | | | | | | 0.59 | | | | 0.59 |
| 232M1 5C006 | Bramhathan Bata Rajdevi Mandir Jane Bato | 1088 | 9 | 3 | | | | | | 0.18 | | | | 0.18 |
| 232M1 5C007 | Sofi Mahat Ko Ghar Bata Purba Sikhardas Ko Ghar Hudaidakshinwari Tole- Rajdevi Mandir | 2877 | 9 | 3 | | | | | | 0.46 | | | | 0.46 |
| 232M1 5C008 | Rampur Gaun Jugal Raut Ko Ghar Bata Hanuman Mandir Bata Dasgaja | 2746 | 9 | 2 | | | | | | 0.66 | | 0.01 | | 0.67 |
| 232M1 5C009 | Rampur-Idgaha Bata Bharat Simana Samma | 3009 | 9 | 3 | | | | 0.00 | | 0.84 | | | | 0.84 |
| 232M1 5C010 | Mul Sadak Bata Wada Simana Hudai Bharatiya Simana Jane Bato | 150 | 9 | 5 | | | | 0.00 | | 0.98 | | ėnsi. | | 0.99 |
| 232M1 5C011 | Isanath Napa Ko Simana Sadak | 261 | 5,8 | 3.75 | 0.022 | 2 | | | | 2.33 | | | | 2.35 |
| 232M1 5C012 | Rampur Bata-Narkatiya Jane Bato | 2246 | 8 | 3 | | | | | | 0.93 | | | | 0.93 |
| 232MI 5C013 | Bata Uttar Hudai Mul Sadak Jodne Sadak | 4331 | 7,8 | 8 | | | | | | | | | 0.40 | 0.40 |
| 232M1 5C014 | Narkatiya- Gaun Bata-Idagah Bata Bharatiya Simana Samma | 4653 | 7,8 | 8 | | | | 0.01 | | | 1.2 | | | 1.21 |

| Road Code | Road Name | HHI served | Ward Pass | Road width | sisting bridge | New bridge proposed | Culvert | пп | Barthern | Gravel | New | PCC | Grand Total |
|----------------|---|------------|-----------|------------|----------------|------------------------|---------|--------------------|----------|--------|-----|-------------------------------|-------------|
| 232M1 5C015 | Mahendra Shahko Khet Dekhi-Narakatiya Simana Samma | | 6 | 3 | 2 | | Loa | | 1.37 | | | | 1.37 |
| 232M1 5C016 | Bhediyanhi,Satinder Patel Ko Ghar Bata Paschim Motipur Jane Bato | 1494 | 5 | 3 | | | | | 1.14 | | | | 1.14 |
| 232M1 5C017 | Basantapatti Ma Bi To Madan Shah Ko Ghar Samma | 6719 | 3,6 | 6 | | | | | 2.55 | | | | 2.55 |
| 232M1 5C018 | | 678 | 6 | 2 | | | | | 0.44 | | | | 0.44 |
| 232M1 5C019 | Ingrugeri Cimana Cadal. | | 3 | 3 | | | | | 0.79 | | | | 0.79 |
| 232M 5C020 | | 369 | 3 | 3 | | | | | | 1.03 | | | 1.03 |
| 232M 5C02 | lalandhar Ko Ghar Hudai | 2795 | 3 | 3 | | | | | 0.29 | 1.10 | | | 1.39 |
| 232M 5C02 | , | 1173 | 3 | 3.75 | | | | - HAVE DESCRIPTION | 0.43 | | | | 0.43 |
| 232M 5C02 | | 136 | 3 | 3 | | | | | 0.38 | | | 37 2 - 4 3 4 3 4 4 4 | 0.38 |
| 232M 5C02 | Pokhariya Ghadari-Sheikh II Abulesh Ko Ghar Hudai 4 Uttar-Lala Bakaiya Badh Jane Sadak | 763 | 3,4 | 4 | | | | | 1.05 | | | | 1.05 |
| 232M 5C02 | Rhatta Hudai I aukaha lane | 1782 | 4,5 | 3 | | | | | 1.08 | | | | 1.08 |
| 232N 5C02 | 11 Pokharia DamarLalbakaiya 26 Badh Jane Sadak | 246 | 3 | 3 | | | | | 1.31 | | | | 1.31 |
| 232N 5C02 | 11 Pokhariya Ghadari-Jigadawa 27 Belbichawa | 7685 | 1,2,3 | 3 5 | | 0.126 | 5 0.03 | 3 | 3.60 | | | | 3.75 |
| 232N 5C0 | Iona Kamdahi Nadi Hudai | 704 | 1 | 5 | 1, 1, | i ja | | | 1.33 | | | | 1.33 |
| 232N 5C0 | | | 1 | 3.7 | \$ | | | | 0.74 | | | | 0.74 |



| gundê Cadir | Rund Nume | Militarizad | Ward Pass | Burd willih | stilling bridge | New Bridge proposed | Culvert | 111 | Varillera | Gravel | Now of | and Taisl |
|-------------------------|--|-------------|-----------|-------------|-----------------|------------------------|---------|-------|-----------|----------|---------|-----------|
| SUNI SUNI | Jingadawa Nimab Bana Paschim-Nanak Mahara Ko Ghar Hudai Badh Samma Sadak | 4293 | 2 | 3 | | | | | 1.23 | | | 1.23 |
| SMI SMI | Satlal Ko Ghar -Bata Uttar Isha Mohammad Ko Ghar Bata Uttar-Nageswornath Mandir Hudai Nahar Ko Culvert Jodne Sadak | 1637 | 2 | 3.75 | | | | | 0.61 | | | 0.61 |
| 252M1 50052 | Sukhadi Ko Ghar Bata Paschim Jamir Akhtar Ko Ghar Hudai Nahar Ko Culvert Jodne Sadak | 3728 | 2 | 3.75 | | | 0.01 | | 0.72 | 0. | 26 | 0.98 |
| SCHES | Bipat Ko Ghar - Uttar Purba Hudai Bheiyahai Simana Sadak | 343 | l | 3.75 | | | | | 1.23 | | | 1.23 |
| 232M1 50034 | Jigadawa Belbichawa- Musaharitol | 3734 | ì | 3.75 | | | | | 0.41 | | | 0.41 |
| 232M1 50035 | Jidagawa Belbichawa Bata Masahartol Jane Bato | 792 | 1,2,3 | 3.75 | | | | | 0.85 | | | 0.85 |
| 232M1 50036 | Canal Road | 1806 | 7,8,9 | 1 | | | | | 3.97 | | | 3.97 |
| 232M1 50037 | Namnagada Bata Paschim Motopur Jane Bato | 2680 | 5,8 | 8 (| 0.023 | | | | 1.17 | 0.43 1. | 05 | 2.67 |
| 5/2 | Bhakuwa Nadi Ko Pul Bata Uttar Hudai Basantapatti Jane Bato | 2 | 6.7 | 3.75 | | | | | 2.40 | | | 2.40 |
| 232MI 50039 | Snrtp Bata Khap Tol Hudai Pokwa Bam Nahar Samma | 1289 | 7 | 4 (| 0.026 | | | | 1.13 | 0.73 | | 1.88 |
| 232MI | Narkatiya Bata Ita Udhyog Hudai Sekhauna Jodne Sadak | 4360 | 7 | 3.75 | | | | Elen. | 1.51 | 0.41 | 0.0 | 9 2.01 |
| 232MI 5C04I | Bangkul Simana Sadak | 47 | 7 | 3 | | | | | 0.57 | | | 0.57 |
| 232MI 5C042 | Basantapatti-Sekhauna | 276 | 6 | 6 | | | | | 0.93 | | | 0.93 |
| 232MI 5C043 | Basantapatti-Inarwari | 1183 | 6 | 6 | | | | | 1.80 | | | 1.80 |
| 232MI 50044 232MI | Bhediyahi Bazaar-Pokhariya Damar Tole | 5248 | 5 | 6 | | | 0.02 | | 1.76 | STATE OF | STOK CO | 1.78 |
| 5C045 | Rajpur Simana Bata Nahar Jodne Sadak | 612 | 5 | 3 | | | | | 1.56 | | | 1.56 |

| Road Code | Road Name | HINSOFAL | Ward Pass | Road width | existing bridge | New bridge proposed | Culvert | E | Earthern | Gravel | New | PCC | Grant Notel |
|----------------|--|----------|-----------|------------|-----------------|------------------------|---------|---|----------|--------|------|-----|-------------|
| 232M1 5C046 | Pokhariya Damar-Nahar Jodne Sadak | 1944 | 5 | 3 | 5 | | | | 0.71 | | | | |
| 232M1 5C047 | Laukaha-Pokhariya-Lal Bakaiya Badh | 3977 | 3,4 | 3 | | | 0.02 | | 1.49 | 1 27 | 0.02 | | 0.73 |
| 232M1 5C048 | Bijaya Sadak(Pokharia- Laukaha-Hulak Sadak- Bhediyahi Bazaar | 1636 | 4,5 | 3 | | | | | 1.08 | 1.37 | | | 1.08 |
| 232M1 5C049 | Tejpakad,Ramananda Ko Mill,Bata Paschim-Inarwari Jane Bato | 2177 | 3 | 3 | | | | | 0.73 | | | | 0.73 |
| 232M1 5C050 | Jigadawa Belbichawa Bypass Road | 3756 | 1 | 3.75 | | | | | 1.28 | | | | 1.28 |

4.7 Summary of Road Class D

Table 12: List of Class D Roads

| Road Code | Road Name | HH served | Ward Pass | Road width | Existing | bridge | New bridge | broposed | Culvert | BI | Earthern | Gravel | New | PCC | Grand | Total |
|----------------|---|-----------|-----------|------------|----------|--------|------------|----------|---------|----|----------|----------|------|-----|-------|-------|
| 232M1 5D001 | Ramdharko Ghar,Chadah Mandir Chowk-Bindasaha Sonarko Ghar-Bharatiya Simana Samma | 2857 | 9 | 3 | | | | | | | 0.56 | | | | 0.5 | 5 |
| 232M1 5D002 | Hanuman Mandir Chowk Bata Purba Mul Sadak Jane Bato | 2586 | 9 | 3 | | | | | | | 0.13 | | | | 0.13 | 3 |
| 232M1 5D003 | Rampur Bata Paschim Jane Sadak | 2898 | 9 | 3 | | | | | | | 0.24 | | | | 0.2 | 4 |
| 232M1 5D004 | | 3030 | 9 | 3 | | | | 22 5 | | | 0.18 | | | | 0.1 | 8 |
| 232M1 5D005 | Rampur Chhatghat Dekhi | 1320 | 8,9 | 0 | | | | | | | | | 0.57 | | 0.5 | 7 |
| | Culvert D | 1402 | 8 | 3 | | | | | | | 0.27 | g agent. | | | 0,2 | 7 |
| 232M1 5D007 | | 1174 | 8 | 3.75 | | | | | | | 0.04 | | | | 0.0 | 4 |



| Road | Road Name | HII senset | Ward Pass | Road width | Existing bridge | New bridge | Culvert | E. | Parthern | Gravel | Pec | Grand Total |
|------------------------|--|------------|-----------|------------|--------------------|------------|-----------|---------|----------|----------|----------------|----------------|
| 32M1 5D08 | Motipur Gaun,Birendra Patel Ko Ghar Hudai Uttar Jognai Ko Dura Hudai Purba Mul Sadak Jodne Bato | 1640 | 8 | 3 | | | | | 0.34 | | | 0.34 |
| 12M1 5D009 | Sachindra Patel Ko Ghar Hudal Chunilala Ko Ghar - Jimdar Ko Dura Jane Bato | 1522 | 8 | 3 | | | | | 0.15 | | | 0.15 |
| 232M1 5D010 | Ramnagar Math Dekhi Paschim | 1421 | 5,8 | 0 | | | | | | 1.88 | | 1.88 |
| 32M1 50011 | Mansik Raut Ko Ghar- Ramananda Ko Ghar Jane Bato | 4426 | 8 | 3 | | | | | | | 3.17 | 0.17 |
| 232M1 5D012 | Ramananda Ko Ghar Jane Bato | 4211 | 8 | 3.75 | | | | | 0.15 | | B | 0.15 |
| 232M1 50013 | Shekh Nathuni Ko Ghar Dekhi Uttar Bhola Neta Ko Ghar Samma | 3999 | 8 | 3.75 | | | | | 0.08 | | | 0.08 |
| 232M1 5D014 | Mul Sadak Bata-Mansik Raut Ko Ghar Bata Dinesh Thakur Ko Ghar Hudai Pramod Raut Ko Ghar Jodne Sadak | 4737 | 7,8 | 2 | | | | | 0.19 | | | 0.19 |
| 232M1 SD015 | Rajmarga Bata-Sheikh Dukha Ko Ghar -Satindar Ko Ghar Jane Bato | 5184 | 7 | 3 | | | | | 0.30 | | | 0.30 |
| 232M1 5D016 | Sheikh Dukha Ko Ghar- Anawa Rul Dewan Ko Ghar | 3206 | 7 | 2 | | | | | 0.19 | | | 0.19 |
| 232M1 5D017 | Narkatiya-Masaar Rautko Ghar Bata Laganshil Sahakari Jane Bato | 3385 | 7 | 2 | | | | | 0.16 | | | 0.16 |
| 232M1 5D018 | Mul Sadak Bata Bharatiya Simana Jodne Sadak | | 7 | 3 | | | 0.01 | | 0.34 | 31 (III) | | 0.35 |
| WHITE THE PARTY OF | Hanuman Mandir Dekhi Ram Janaki Dharmasala Samma | 1213 | 7 | 3.75 | | | | | 0.75 | | | 0.75 |
| 5D020 | Khap Tole Bata Janta Pr Abi | 1289 | 7 | 4 | BIOLOGIA. | | i Marie 1 | Nebet 2 | 0.63 | | 3.27 | 0.91 |
| D021 | Ram Adhar Ko Ghar Dekhi Umesh Ko Ghar Samma | 1257 | 7 | 3.75 | | | | | 0.12 | | 6.07 (1.07) | 0.12 |
| 232M1 5D022 32M1 | Canal Road | 2604 | 4,5,6 | 2 | | | DATE ! | | 3.68 | | | 3.68 |
| 10023 | Basantapatti Nahar Chowk Dekhi Chaur Garaiya Hudai | 1414 | 6 | 3.75 | | | | | 0.85 | | | 0.85 |

| Road Code | Road Name | HH served | Ward Pass | Road width | Balating | bridge | tew bridge | pasodoud | Culvert | B | Earthern | Gravel | New | PCC | Grand Total |
|----------------|--|-----------|-----------|------------|----------|--------|------------|----------|---------|---|----------|--------|-------|------|----------------|
| 232M1 5D024 | Bhediyahi-Sirifal Raut Ko Khet Hudai Basantapatti Simana | 942 | 6 | 3 | | | | | | | 1.63 | | | | 1.63 |
| 232M1 5D025 | Hari Chandra Sah Ko Ghar Batajai Govinda Ko Ghar Hudai Snrtp Sadak Samma | 2782 | 6 | 3 | | | | | | | 0.17 | | | | 0.17 |
| 232M1 5D026 | Anchit Prasad Ko Ghar Dekhi Jai Govinda Ko Ghar Hudai Snrtp Sadak Samma | 2855 | 6 | 3.75 | | | | | | | 0.18 | | | | 0.18 |
| 232M1 5D027 | Bhediyahi Naya Bato 1 | 1564 | 6 | 3 | | | | | | | | .00 | .10 | | 0.18 |
| 232M1 5D028 | Bhediyahi Naya Bato 2 | 102 | 6 | 0 | | | | | | | | C | .15 | 9.04 | 0.15 |
| 232M1 5D029 | Babulal Sah Ko Ghar Dekhi Nirgun Ko Khet Hudai Mul Sadak Samma | 632 | 6 | 0 | | | | | | | | 0 | .40 | | 0.40 |
| 232M1 5D030 | Siudhari Mahto Ko Ghar Dekhi Bhirkhu Das Ko Ghar Samma | 2627 | 6 | 3.75 | | | | | | | 0.08 | | | | 0.08 |
| 232M1 5D031 | Ram Bilas Sah Ko Ghar Dekhi Uttar Hari Chandra Sah Ko Ghar Samma | 2873 | 5,6 | 3.75 | | | | | | | 0.11 | | | | 0.11 |
| 232M1 5D032 | Laxmi Sah Ko Ghar Dekhi Kapil Deo Ko Ghar Hudai Snrtp Sadak Samma | 2164 | 5 | 3.75 | | | | | | | 0.16 | | 82200 | | 0.16 |
| 232M1 5D033 | Paras Raut Ko Ghar Dekhi Rama Kant Ko Ghar Hudai Snrtp Sadak Jane | 2809 | 5,6 | 3.75 | | | | | | | 0.23 | | | | 0.23 |
| 232M1 5D034 | Badri Chowk- Uttar Namagada Hudai Ramsingh Patel Ko Ghar Jodne Sadak | 4964 | 5 | 3 | | | | | | | 0.61 | | | 0.31 | 0.91 |
| 232M1 5D035 | Inus Ansari Ko Ghar Dekhi Snrtp Sadak Samma | 1273 | 5 | 3.75 | | | | | | | 0.10 | | | | 0.10 |
| 232M1 5D036 | Enus Ko Ghar Dekhi Paschim Jane Bato Ishrafi Ko Ghar Hudai Asin Ko Ghar Samma | 1742 | 5 | 3.75 | 1 | | | | man. | | 0.15 | | | | 0.15 |
| 232M1 5D037 | Id Mohammad Ko Ghar Dekhi Paschim Snrpt Bata Snrtp Dekhi Paschim Namnagada Pra Vi | 2160 | 5 | 3.75 | | | | | | | 0.12 | | | | 0,12 |



| Road Code | Road Name | HHEserved | Ward Pass | Road width | Existing bridge New bridge proposed Culvert | BT Egrthern | Gravel New PCC | Grand Total |
|----------------|--|-----------|-----------|------------|--|----------------|---------------------------|----------------|
| 232M1 5D038 | Farmudko Ghar-Nahid Ansariko Ghar-Rajpur Simana Samma | 2301 | 5 | 0 | training of the second | | 0.49 | 0.49 |
| 232M1 5D039 | Mohammed Sadik Ko Ghar Dekhi Purba Jane Rajpur Simana Samma | 1908 | 5 | 3.75 | | 0.47 | | 0.47 |
| 232M1 5D040 | Mul Bato Mojahid Ko Ghar Dekhi Uttar Safad Dewan Ko Ghar Samma | 1897 | 5 | 3.75 | | 0.12 | | 0.12 |
| 232M1 5D041 | Mul Bato Monib Ko Ghar Dekhi Uttar Jainoon Ko Ghar Samma | 1958 | 5 | 3.75 | | 0.09 | | 0.09 |
| 232M1 5D042 | Masjid Dekhi Uttar Ishraf Ko Ghar Samma | 2022 | 5 | 3.75 | | 0.07 | -sec discrete accept | 0.07 |
| 232M1 5D043 | Jalandhar Daktar Ko Ghar Bata Purba Bijaiya Jane Sadak | 2427 | 4 | 6 | | 0.36 | 0.20 | 0.56 |
| 232M1 5D044 | Basanpatti-Laukaha-Pokhariya | 5334 | 4,6 | 3 | | 1.28 | .21 | 1.48 |
| 232M1 5D045 | Bramha Jyoti Mandir Bata Dakshin Trasnfomer Chowk | 2498 | 4 | 3 | | 0.31 | | 0.31 |
| 232M1 5D046 | Garib Saha Ko Ghar Dekhi Hari Ray Ko Khaliyan Samma | 1954 | 4 | 3.75 | | 0.11 | | 0.11 |
| 232M1 5D047 | Bramajyti Mandir Bata Purba Rajdev Shah Ko Pasal Jodne Sadak | 2331 | 4 | 3 | | 0.20 | | 0.20 |
| | Mahendra Jyoti Ko Ghar Deki Birnda Ray Ko Ghar Samma | 2086 | 4 | 3.75 | | 0.09 | | 0.09 |
| 232M1 5D049 | Ram Agaiya Yadav Ko Ghar Dekhi Raj Mangal Ko Ghar Samma | 2108 | 4 | 3.75 | | 0.07 | | 0.07 |
| 232M1 5D050 | Bishwanath Ko Ghar Dekhi Ram Chandra Ko Ghar Samma | 1969 | 4 | 3.75 | ALLEGATION OF COLUMN TO CONTROL OF COLUMN TO C | 0.05 | The analysis with windows | 0.05 |
| 232M1 5D051 | Laukaha Bhitri Sadak | 2925 | 4 | 3.75 | on the second | 0.24 | | 0.24 |
| 232M1 5D052 | Moti Rahaman Ko Ghar Dekhi Masjid Samma | 1892 | 4 | 3.75 | and the state of t | 0.05 | NA displaced agreement | 0.05 |
| 232M1 5D053 | Laxman rautko ghar bata- uttar purba -shekg samsul ko jane sadak | 600 | 4 | 3 | | 0.43 | | 0.43 |



| Road Code | Road Name | IIII served | Wand Pas | Road wietth | Existing bridge New bridge proposed | Canning Fairtheim | PRY PRINCE |
|-------------------------|---|-------------|----------|-------------|--|----------------------|------------|
| eMI | Milat Pra Vi Bata Laxman Raut Ghar Samma | 2575 | 4 | 3.75 | | 0.31 | 0.10 |
| 50054 112MI 50055 | Milat School Bat Purba Pani Tanki Hudai Madarsa Jane Bato | 2282 | 4 | 3.75 | | 0.36 | 0.26 |
| | Mul Sadak Yar Muhammed Ko Ghar Dekhi Madarsa Jane Bato | 1986 | 4 | 3.75 | | 0.14 | 0.54 |
| 132MI 10057 | Pokhariya Ghadariya Tole- Bata Paschim Sheikh Samsul Ko Ghar Jane Sadak | 2998 | 4 | 3 | | 4.81 | 5.80 |
| 111MI 10058 | Batoko Chowk Samma | 347 | 4 | 3.75 | | 0.30 | 0.30 |
| moss | Ghadari Dekhi Pokhariya Jane Mod Samma | 606 | 4 | 3.75 | | 0.30 | 6.30 |
| 132M1 50060 | Mul Sadak Pokhariya Tol Bata Purba Lal Bakaiya Badh Jane Sadak | 2132 | 3,4 | 3 | | | 6 0.56 |
| 132MI 50061 | Ablesh Sheth Ko Ghar Dekhi Paschim Jane Bato Sundar Shako Ghar Samma | 1907 | 4 | 3.75 | | 0.26 | 0.26 |
| 132M1 10062 | Khaliyan Samma | 1969 | 4 | 3.75 | | 0.15 | 0.25 |
| DOMI DOMI | Jogindar Thakur Bari Dekhi State Boarding Jane Bat | 1684 | 4 | 3.75 | | 0.06 | 0.55 |
| DOMI SDI64 | Hudai Tulsi Ray Ko Ghar Samma | 2949 | 4 | 3.75 | | 1.39 | 0.39 |
| (1)X55 | Purha Mostle to Dekits | 2313 | 4 | 3.75 | | 0.17 | 4.17 |
| 132500 | Pokhariya Gahatol Bata Purba Purwa Badh Jane Sadak | 1865 | 3,4 | 3.5 | 44 | E 5.17 | 2.38 |
| | Bilasi Roy Ko Ghar Dehki Sabir Hajra Ko Ghar Samma | 2102 | 4 | 3 | | em | e= |
| | Dharmendra Prasad Ko Ghar Dekhi Ma Bi Basantapatti Samma | 1958 | £ | 3.75 | | 4.20 | (12) |

| Road Code | Road Name | Fill Gelwer | WONTER | Road Wirds | Briting Printer | New bridge | pesodoud | Culver | E | Barthern | Grave | DEC | Gand |
|------------------------|--|-------------|--------|------------|--------------------|------------|--------------|----------|--------|----------|--------------|----------|------|
| 3:2Ml | Hari Shankar Ray Ko Ghar Dekhi Raghunath Ray Ko Ghar Samma | 2216 | 4 | 2 | | | | | | 0.14 | | | 0.14 |
| 50009 | Umarbin Ulkhatan Masjid Jane Bato | 2164 | 3,4 | 0 | | | | | | | 0.22 | | 0.22 |
| 5D070 32M1 5D071 | Mul Sadak Bata Purba Dakshin Hudai Sano Kabrastan Jane Sadak | 2343 | 4 | 3 | | | | | | 0.35 | | | 0.35 |
| 232M1 5D072 | Shekh Ablesh Hatawa Ko Ghar Dekhi Ishrapu Ko Ghar Hudai Shekh Gafur Ko Ghar Samma | 2194 | 4 | 3.75 | | | | | | 0.07 | an areas | | 0.07 |
| 232M1 5D073 | Toshi Akhthar Ko Ghar Dekhi Jamil Akhatar Ko Ghar Samma | 2114 | 4 | 3.75 | | | | | | 80.0 | | | 0.08 |
| 232M1 5D074 | Basantapatti-Sekhauna | 2661 | 6 | 5 | | \$500E | 0.0 | 02 | | 0.28 | | | 0.30 |
| 232M1 5D075 | Basantapatti Naya Bato 1 | 989 | 6 | 0 | | | | | | | 0.52 | | 0.52 |
| 232M1 5D076 | Basantapatti Naya Bato 1 | 1759 | 6 | 0 | | | total wall | | | | 0.19 | | 0.19 |
| 232M1 5D077 | Indar Dev Raut Ko Ghar Dekhi Hari Narayan Ko Ghar Hudai Ra Jai Mangal Ko Ghar Hudai Mogal Raut Ko Ghar Samma | 1352 | 6 | 3.75 | | | | | (| 0.17 | | | 0.17 |
| 232M1 5D078 | Basantapatti Mab I Ko Pokhari Jane Bato | 1689 | 6 | 3.75 | | | OFFICE STATE | agai di | est ui | 80.0 | | | 0.08 |
| D079 | Tejapakad Aa Bi Dekhi Baiju Singh Ko Khet Hudai Samsul Ko Ghar Samma | 2911 | 3 | 9 | | | | | (| 0.78 | | | 0.78 |
| 232M1 5D080 | Purba Banarasi Pd Ko Ghar | 2452 | 6 | 2 | | | ines with | epor 480 | (| 0.15 | nie seasonia | 125 4742 | 0.15 |
| 50ZM1 | Uttar Purba Hudai Banarasi Pd Ko Ghar | 2035 | 6 | 3 | | | | | (|).25 | | | 0.25 |
| 3D082 | Inarwari-Pataura | 3541 | 6 | 6 | | | 0.0 | 01 | (|),53 | | The Same | 0.54 |
| 2D083 | Babisaheb Ko Ghar Bhar Bata Dakshin Bramhthanmandir Jane Sadak | 2533 | 6 | 3 | | | | | (|).23 | | | 0.23 |

| Road Code | Road Name | III serva | The Paris | Road width | T CE | <u>.</u> | 1 | | |
|----------------|--|-----------|-----------|------------|------|----------|------|------------|------|
| 232M1 5D084 | Basantapatti Gaun Nul Sadak Bata Dakshin Kedar Jaiswal Ko Ghar | 2072 | ō | 3 | | kana kan | 0.09 | I M SULA N | 0.09 |
| 232M1 5D085 | Tejpakad Bata Paschim Jane Naya Sadak | | 6 | 0 | | | | 0.67 | 0.67 |
| 232M1 5D086 | Tejapakad Baiju Singh Khet Dekhi Paschim Haraiya Inarwari Jane Sadak | 606 | 3.6 | 3 | | | 0.74 | | 0.74 |
| 232M1 5D087 | Tejapakad Aa Bi Dekhi Baiju Singh Ko Khet Hudai Samsul Ko Ghar Samma | 1512 | 3 | 3 | | | 0,12 | | 0.12 |
| 232M1 5D088 | Bhagat Ko Ghar-Mukesh Ko Ghar-Jalandhar Ko Ghar | 3293 | 3 | 2 | | | 0.24 | | 0.24 |
| 232M1 5D089 | Shekh Shahid Ko Ghar Bata Paschim Sahakari Jane Bato | 2341 | 3 | 2 | | | 0.27 | | 0.27 |
| 232M1 5D090 | Eampd Paswan Ko Ghar Hudai Daskhin Sheikh Shahi Ko Ghar Jodne Bato | 3866 | 3 | 3 | | | 0.30 | | 0.30 |
| 232M1 5D091 | Ram Pd Paswan Ko Ghar Bata Daskhin Pashim Bata Jayprakash Paswan Ko Ghar Jane Bato | 3954 | 3 | 3 | | | 0.36 | | 0.36 |
| 232M1 5D092 | Tejapakad Dekhi Uttar Jyutahi Jane Bato | 858 | 3 | 3 | | | 0.47 | A . | 0.66 |
| 232M1 5D093 | Moktar Ko Ghar Bata Dakshin ,Madarsa Jane Sadak | 1670 | 3 | 3 | | | 0.30 | | 0.39 |
| 232M1 5D094 | | 1801 | 3 | 3 | | | 0.49 | | 0.49 |
| 232M1 5D095 | | 1104 | 3 | 3.75 | | | 0,25 | | 0.25 |
| 232M1 5D096 | | 136 | 2 | 3.75 | | | 0.10 | | 0.10 |
| 232M1 5D097 | | 2050 | 1 | 0 | | | | 0.06 | 0.06 |
| 232M1 5D098 | Ram Suresh Ko Ghar Dekhi Paschim Shekh Mati Ullahako Ghar Samma | 1729 | 2 | 3.75 | | | 0.45 | 0.09 | 0.54 |
| 232M1 5D099 | Radhe Shyam Ko Ghar Ko Mod Bata Rama Kanta Ko Khet Hudai Paschi Nageshwor Nath Mandir Samma | 1638 | 2 | 0 | | | | 0,12 | 0.12 |

| ad ode | Road Name | III serve | Ward Pale | Road width | Existing | bridge | ew bridge | pesodore | Culvert | ВТ | Sarthern | Gravel | 2 0 | T _ |
|--------------|---|-----------|-----------|------------|----------|--------|-----------|----------|---------|----|-----------|--------|-----|-------|
| M1 100 | Bidhyanand Shah Ko Ghar Bata Paschim Bramhathan Mandir Hudai Ramchandra Giriko Ghar Jane Sadak | 2908 | 2 | 5 | | | M) | a l | 0 | | 0.60 | Grav |)Ja | Grand |
| A1 | Lalbakaiya Badh Bata Purba Kamdehi Nadi Jane Bato | 413 | 1,2 | 3.75 | | | | | | | (Mariana) | | | 0.60 |
| 2M1 S | kukhadi Ko Ghar Dekhi Purba Bypass Sadak Jane Bato | 3646 | 1,2 | 3.75 | | | | | | | 0.83 | | | 0.83 |
| | Jamir Akhtar Ko Ghar Bata Nahar Ko Culvert Hudai Dakshin Nanak Maharko Ghar Jodne Sadak | 3568 | 2 | 3.75 | | | | | 0.00 | | 0.92 | | | 0.92 |
| 2M1 0104 | Darbariya Kopasal Dekhi Jadha Shah Ko Ghar Jodne Sadak | 4366 | 2 | 3.75 | | | | | | | 0.52 | | | 0.25 |
| 2M1 0105 | Jadha Shah Ko Ghar Bata Nahar Jodne Sadak | 200 | 2 | 0 | | | | | | | | | | 0.52 |
| D106 | Darbariya Ko Pasal Bata Bata Purba Hospital | 4667 | 1,2 | 3.75 | | | | | | | 0.42 | 0.1 | 25 | 0.25 |
| 2M1 D107 | Samin Ko Ghar Hudai Purba Bypass Sadak | 4435 | 1,2 | 3.75 | | | | | | | | | | 0.42 |
| 0108 | Sakir Mukhiya Ko Ghar Dekhi Paschim Kasim Ko Ghar Samma | 3538 | 2 | 3.75 | | | | | | | 0.32 | | | 0.32 |
| D109 | Latif Ko Dokan Dekhi Purba Chamar Toli Dekhi Dakshin Hudai Ram Ekbal Ko Gachi Samma | 4039 | 1 | 0 | | | | | | | | 0.: | 23 | 0,23 |
| | Ramlal Ko Ghar Bata Rajai Ko Ghar Jodne Sadak | 4188 | I | 3.75 | | | | | | | 0.23 | | | 0.2 |
| EZMI Dill | Daskhin Purba Hudai Rajai | 4795 | 1 | 3.75 | | | | | | | 0.26 | | | 0.2 |
| | Jafir Ahmad Ko Ghar-Ramalal Ko Ghar Hudai Purba Jane Sadak | 3643 | 1 | 3.75 | | | | | | | 0.26 | | | 0,2 |
| MI MI | Mul Sadak Sali Muhammad Ko Ghar Dekhi Dakshin Hamid Ko Ghar Hudai Purba Jane Bato | 3873 | 1 | 3.75 | | | | | | | 0.07 | | | 0.0 |

| Road Name | IIII server | Water Pass | Road with | Existing bridge New bridge | proposed | Culvert | BI | vareneen | Gravel | PCC | Grand |
|--|-------------|------------|-----------|----------------------------------|----------|---------|-----|----------|--------|-----|-------|
| _{Shekh} Dinaliko Ghar Dekhi _{urba} Baraila Tol Hudai Ram Lal Ko Ghar Samma | 3959 | 1 | 3.75 | | | | | 09 | | | 0.09 |
| Masjid Dekhi Paschim Shekh Musain Ko Ghar Dekhi Uttar Mul Sadak Jane Bato | 3759 | 2 | 3.75 | | | | 0. | 12 | | | 0.12 |
| _{Shekh} Rakib Ko Ghar Dekhi Uttar Shekh Ekramun Ko Ghar Samma | 4391 | 2 | 3.75 | | | | 0. | 10 | | | 0.10 |
| Nuniya Tole Road | 2026 | 1 | 3.75 | | | | 0.2 | 20 | | | 0.00 |
| Mul Sadak Muslim Ko Ghar Hudai Rudhal Baitha Samma | 2336 | 1 | 3.75 | | | | 0.2 | | | | 0.20 |
| Falahull Muslimin Madarsa Dekhi Purba Nuniya Tol Hudai Mul Sadak Jane Bato | 1967 | 1 | 0 | | | | | | 0.69 | | 0.69 |

3 Municipality Inventory Map of Road Network

and inventory survey was conducted through the municipality as far as possible except the swonstruction considered. In the inventory survey, the surface condition, width of road, admittervention required were collected. These data are presented in municipality inventory up of road by surface condition, by width and invention needed. Similarly, the map of road instructure is also prepared. Refer annex of this report for map in detail.

Table 13: Present Road Condition

| | - Hole 13.17e | sent Road Conditio | n | |
|-----------|--------------------|---------------------------------------|------|-------------|
| load Type | Municipality Roads | SRN Roads | DRCN | Grand Total |
| Metalled | 1.41 | - | | 1.41 |
| Earthern | 104.87 | • • • • • • • • • • • • • • • • • • • | 4.89 | 109.76 |
| Gravel | 13.80 | 14.15 | | 27.95 |
| Total | 120.08 | 14.15 | 4.89 | 139.12 |



18 14: Summary of Different Road Classification and Planning for new Road

| c. the | Base year(2017/2018) | | | | | | | | | | | |
|------------------------|----------------------|-----------|---|---------------------|--------|--|--|--|--|--|--|--|
| tuad Type for the Work | Earthen | Gravelled | Blacktop | New Construction | Total | | | | | | | |
| "A" Roads | 0.85 | | - | and action | | | | | | | | |
| "B" Roads | 19.36 | 6.41 | 1.41 | • | 0.85 | | | | | | | |
| ns "C" Roads | 48.25 | 6.25 | 7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - | 2.25 | 27.18 | | | | | | | |
| "D" Roads | 24.94 | 1.14 | - | 0.49 | 26.57 | | | | | | | |
| CN | 4.89 | | <u> </u> | - | 4.89 | | | | | | | |
| N in the second | - a | 14.13 | | - | 14.13 | | | | | | | |
| nd . | 98.29 | 27.93 | 1.41 | 2.74 | 130.37 | | | | | | | |



CHAPTER 5: Perspective Plan of Municipal Transport Network

5.1 Process and Procedure for collecting demands from wards

Ward level meeting were held in each wards and demand forms were filled as per the demand and priority of the local people. From the discussion held in wards, various demands of people regarding requirement or upgrading of infrastructures were listed out and were prioritized. The hearings from public play a major role in planning the transportation network in future.

Data Analysis and Field Verification of the Roads from Demand Form

Analysis of data regarding the accessibility situation in each settlement, population forecasting for each sector, major road linkages will be done. Similarly, all the roads demanded in demand form are verified in field by the survey team.

5.2 Scoring System for Screening, Grading and Prioritization

Development of the scoring criteria and prioritization criteria based on the provided guidelines are prepared and its approval from the municipality and MRCC is done.

Transport linkage in an urban area has greater importance for its overall development. The development of road transport linkages to each plot of land or each residential unit is ideal approach for transport planner. Various types of land use pattern require different category of road transport linkage. The development of road linkage requires tremendous amount of public fund. However, the public authorities don't have adequate amount of funding. Therefore, a prioritization approach should be adopted for the rational allocation of limited funds for the construction, maintenance and rehabilitation of various categories of road linkage. Conventionally, each construction or maintenance projects are justified on the basis of cost-benefit ratio. This conventional approach disregards the benefit due to non-monetary aspects of the transport projects. Therefore, a multi-criteria approach for the selection of transport linkage is adopted as an justified approach for the project selection.

A network consists of several links. It is not possible to construct all roads at a time due to resource gap, time constraint and limited management capacity. Therefore, each link in a network should be prioritized. Each road link is then allocated the number of points corresponding to the fulfillment of the particular criteria. The aggregate number of points that each intervention receives is computed by simple adding the points allocated per indicator.

The result of this process leads to a ranking of the investment options. The following criteria are used for prioritization of new transport linkages:

Table 15: Criteria for Prioritization

| S.N. | Criteria Company | | Score |
|------|--|--|-------|
| 1 | Link providing service to large settlement areas/population | Scoring Unit Population served/km | 30 |
| 2 | Link providing service to existing Service centers, a) Recreation b) Agriculture c) Market Centre d) Service Centre | Discretely based on existence. Each facility is given 25% weightage. | 40 |
| 3 | Ward Demand | P1- 20 P2-16 P3- 12 P4-8 P5-4 Others: 2 | 20 |
| 4 | Linkages with other transport Linkages | National Highway- 10 Feeder Road- 8 District Road- 6 Neighboring Municipality/District-4 | 10 |
| | Total | | 100 |

These criteria are described in brief below:

1. Population Served

Population served by the road link is one of the important indicator of prioritization. Higher the population served by the road, higher will be its necessity or importance. Thus, such road road need to be upgraded/maintained/constructed first. Scoring is done relatively. Highest score is assigned for the road link serving highest population and is relatively reduced. Thus the score for road based on population served lies within zero to full score.

2. Access to services and facilities

It is one of the main governing prioritization indicator as it outlines the specific services provided to the locals. The road link may provide access to Recreation (picnic spot, historical

place, park, einema hall, and playground). Agricultural land, Market center and Service center (School, Health Centers, government offices etc.). A single road link can serve just a single higher importance and given highest score. Each facility is given 25% weightage. Thus a road link serving all four facilities will get full score and the road link serving three facilities will get 75% and so on.

3. Demand Priority of wards

It is one of the important criteria of prioritization. Demand with priority order was collected from each ward during field surveys. These priorities are based on present need as perceived by the locals. Higher the priority of intervention, higher is the score share. Thus if a road intervention received first priority in any ward, then it will get full marks. Road with corresponding priority are scored accordingly, score is reduced by 20% for each lower level priority, ie second priority will receive 80% score and so on. 5th prioritzed road will receive 20% score. Other remaining roads will receive score equivalent to 10% of total.

4. Linkages with other transport linkages

It is also one of the criteria for prioritization. Road linkages reflects the importance of the road in the municipality. Road linking with higher class road will be more important and immediate the intervention required. Road linking with National highways will receive full score. Road linking with feeder road will receive 80% score and road linking with district road will receive 60% score. Similarly road linking with neighboring district or municipal will receive 40% score and remaining others road will be scored zero.

5.3 Possible Inter-Municipality/District Linkage

In this municipality, there are some roads which in future will be possible inter-district link roads. After completing the target of planned roads, there will be good transport facilities for the people of this municipality. Municipality should give priority for constructing the planned road which will be inter-district linkage and DTMP/MTMP should be updated regularly.

5.4 Perspective Plan of Municipal Transport Network with Respective Score and Ranking

Perspective plan of the Municipality is the development plan that includes the plan of development of all roads hierarchy within the Municipality. MTMP is short term Municipality Transportation Master Plan generally of 5 years which includes the prioritized road demands whereas perspective plan is a long term plan which includes the overall road demand of the Municipality.

perspective plan identifies all the infrastructure demands of the Municipality. The proposed road networks and road infrastructure will helps to enhance the overall transportation network of the Municipality which will eventually result in increased accessibility and mobility. The visionary development plan i.e. the municipal development plan will help to develop other sectors of the Municipality along with the development of transportation sector. The well facilitated and well connected road will facilitate safe, comfortable and efficient trips to the road user. Moreover increase in transportation facility will help to boost the economic development of that particular Municipality which will eventually contribute to overall economic development of the nation.

The first five year financial plan is prepared based on the assumption that the each year budget will increase by 10% from previous year budget. All the roads included in perspective plan along with their score, rank and class are given below:

Table 16: List of Road for Municipality Perspective Plan

| Road Class | Road Code | Road Name | Ward Pass | Total Score | Rank |
|---------------|------------|--|--------------|----------------|------|
| В | 232M15B014 | Bhediyahi-Basantapatti | 5,6 | 74 | 1 |
| C | 232M15C044 | Bhediyahi Bazaar-Pokhariya Damar Tole | 5 | 72 | 2 |
| В | 232M15B019 | Tejpakad-Laukaha-Pokhariya | 3,4 | 70 | 3 |
| С | 232M15C017 | Basantapatti Ma Bi To Madan Shah Ko Ghar Samma | 3,6 | 69 | 4 |
| С | 232M15C037 | Namnagada Bata Paschim Motopur Jane Bato | 5,8 | 66 | 5 |
| С | 232M15C014 | Narkatiya- Gaun Bata-Idagah Bata Bharatiya Simana Samma | 7,8 | 63 | 6 |
| С | 232M15C027 | Pokhariya Ghadari-Jigadawa Belbichawa | 1,2,3 | 63 | 7 |
| D | 232M15D082 | Bhediyahi-Basantapatti-Inarwari-Pataura | 6 | 60 | 8 |
| D | 232M15D034 | Badri Chowk- Uttar Namagada Hudai Ramsingh Patel Ko Ghar Jodne Sadak | 5 | 55 | 9 |
| В | 232M15B010 | Sukdev Chowk -Jarlnel Ko Ghar Bata Nahar Hudai Badh Jane Sadak | 1,2,3 | 53 | 10 |
| D | 232M15D015 | Rajmarga Bata-Sheikh Dukha Ko Ghar -Satindar Ko Ghar Jane Bato | 7 | 53 | n |
| D | 232M15D044 | Basanpatti-Laukaha-Pokhariya | 4,6 | 53 | 12 |
| D | 232M15D001 | Ramdharko Ghar, Chadah Mandir Chowk- Bindasaha Sonarko Ghar-Bharatiya Simana Samma | 9 | 52 | 13 |
| С | 232M15C050 | Jigadawa Belbichawa Bypass Road | 1 | 51 | 14 |
| С | 232M15C040 | Narkatiya Bata Ita Udhyog Hudai Sekhauna Jodne Sadak | 7 | 50 | 15 |

| 100 100 100 100 | Read Code | Road Name | Ward | Toal | T _a n |
|--------------------------|------------|---|-------|------|------------------|
| В | 232M15B006 | Mul Sadak Bata Wada 8 Ko Karyalaya Hudai Bhkuwa Khola Hudai Rajmarga Jodne Sadak | 7.8 | 46 | 16 |
| С | 232M15C047 | Laukana-Pokhariya-Lal Bakaiya Badh | 3.4 | 45 | 17 |
| c | 232M15C001 | Jugul Rautko Ghar-Prithvi Narayan Rautko Ghar Bata Kabrasthan Jane Bato | 9 | 44 | 18 |
| С | 232M15C030 | Jingadawa Nimab Bata Paschim-Nanak Mahara Ko Ghar Hudai Badh Samma Sadak | 2 | 44 | 19 |
| В | 232M15B004 | Khap - Badimasjid-Mansari | 9 | 42 | 20 |
| D | 232M15D014 | Mul Sadak Bata-Mansik Raut Ko Ghar Bata Dinesh Thakur Ko Ghar Hudai Pramod Raut Ko Ghar Jodne Sadak | 7,8 | 41 | 21 |
| В | 232M15B005 | Narkatiya Bata Nahar Ko Culvert Bata Bharatiya Simana Jane Bato | 8 | 40 | 22 |
| D | 232M15D024 | Bhediyahi-Sirifal Raut Ko Khet Hudai Basantapatti Simana | 6 | 39 | 23 |
| D | 232M15D025 | Hari Chandra Sah Ko Ghar Batajai Govinda Ko Ghar Hudai Snrtp Sadak Samma | 6 | 38 | 24 |
| c | 232M15C038 | Bhakuwa Nadi Ko Pul Bata Uttar Hudai Basantapatti Jane Bato | 6,7 | 36 | 25 |
| D | 232M15D011 | Mansik Raut Ko Ghar-Ramananda Ko Ghar Jane Bato | 8 | 35 | 26 |
| D | 232M15D019 | Hanuman Mandir Dekhi Ram Janaki Dharmasala Samma | 7 | 35 | 27 |
| c | 232M15C048 | Bijaya Sadak(Pokharia-Laukaha-Hulak Sadak- Bhediyahi Bazaar | 4,5 | 34 | 28 |
| В | 232M15B007 | Tejapakad-Lal Bakaiya-Jingadawa Belichawa | 2,3 | 33 | 29 |
| c | 232M15C021 | Shiva Mandir Chowk Bata Jalandhar Ko Ghar Hudai Uttar Baudimai Chowk | 3 | 33 | 30 |
| D | 232M15D022 | Canal Road | 4,5,6 | 32 | 31 |
| C | 232M15C046 | Pokhariya Damar-Nahar Jodne Sadak | 5 | 32 | 32 |
| c | 232M15C013 | Purano Bazaar-Bramhathan Bata Uttar Hudai Mul Sadak Jodne Sadak | 7,8 | 31 | 33 |
| A | 232M15A001 | Bhediyahi-Laukaha-Pokhariya | . 4 | 30 | 34 |
| D | 232M15D106 | Darbariya Ko Pasal Bata Bata Purba Hospital | 1,2 | 30 | 35 |
| C | 232M15C009 | Rampur-Idgaha Bata Bharat Simana Samma | 9 | 30 | 36 |
| D | 232M15D012 | Ramananda Ko Ghar Jane Bato | 8 | 29 | 37 |
| c | 232M15C011 | Bhakuwa Khola Jholunge Pul Isanath Napa Ko Simana Sadak | 5,8 | 29 | 38 |
| c | 232M15C025 | Pokharriya Damar Bata Ita Bhatta Hudai Laukaha Jane Sadak | 4,5 | 29 | 39 |



| lass | Road Code | Road Name | Ward Pass | Total Score | Rank |
|------|------------|---|--------------|----------------|------|
| В | 232M15B015 | Bhediyahi-Bata Purba Wada 4 Ko Simana Samma Ko Sadak | 4,5,6 | 29 | 40 |
| В | 232M15B009 | Sukdev Chowk Bata Purba Highway Jodne Mul Sadak Belbichawa | 1 | 28 | 41 |
| С | 232M15C033 | Bipat Ko Ghar - Uttar Purba Hudai Bheiyahai Simana Sadak | 1 | 28 | 42 |
| С | 232M15C002 | Swastha Chowki Bata Panitanki Chowk Bata Dasgaja | 9 | 28 | 43 |
| D | 232M15D033 | Paras Raut Ko Ghar Dekhi Rama Kant Ko Ghar Hudai Snrtp Sadak Jane | 5,6 | 28 | 44 |
| В | 232M15B008 | Bhediyahi -Tejapakad | 3,4,6 | 28 | 45 |
| D | 232M15D020 | Khap Tole Bata Janta Pr Abi Hudai Rajmarga Jodne Sadak | 7 | 27 | 46 |
| D | 232M15D038 | Farmudko Ghar-Nahid Ansariko Ghar-Rajpur Simana Samma | 5 | 27 | 47 |
| C | 232M15C012 | Rampur Bata-Narkatiya Jane Bato | 8 | 27 | 48 |
| C | 232M15C043 | Basantapatti-Inarwari | 6 | 27 | 49 |
| С | 232M15C032 | Sukhadi Ko Ghar Bata Paschim Jamir Akhtar Ko Ghar Hudai Nahar Ko Culvert Jodne Sadak | 2 | 27 | 50 |
| C | 232M15C020 | Tejpakad Chowk-Bramhathan- Baudimai Chowk | 3 | 26 | 51 |
| С | 232M15C028 | Jhingdwa Aa Bi To Purba Jane Kamdehi Nadi Hudai Main Road Jane | 1 | 26 | 52 |
| С | 232M15C004 | Boudimai ko mandir bata purba uttar hudai Bikhardas tatma ko ghar jane bato | 9 | 25 | 53 |
| D | 232M15D004 | Wwada Karyalaya Bata Chhatghat Pokhari- Mansuri | 9 | 25 | 54 |
| В | 232M15B012 | Narkatiya Purbari Madarsa To Chhath Ghat | 7 | 25 | 55 |
| C | 232M15C045 | Rajpur Simana Bata Nahar Jodne Sadak | 5 | 24 | 56 |
| C | 232M15C035 | Jidagawa Belbichawa Bata Masahartol Jane Bato | 1,2,3 | 24 | 57 |
| С | 232M15C039 | Snrtp Bata Khap Tol Hudai Pokwa Bam Nahar Samma | 7 | 24 | 58 |
| С | 232M15C008 | Rampur Gaun Jugal Raut Ko Ghar Bata Hanuman Mandir Bata Dasgaja | 9 | 24 | 59 |
| D | 232M15D026 | Anchit Prasad Ko Ghar Dekhi Jai Govinda Ko Ghar Hudai Snrtp Sadak Samma | 6 | 23 | 60 |
| D | 232M15D002 | Hanuman Mandir Chowk Bata Purba Mul Sadak Jane Bato | 9 | 23 | 61 |
| В | 232M15B013 | Lalbakaiya Badh Hudai Malhiniya Jane Sadak | 1,2,3 | 23 | 62 |
| D | 232M15D010 | Ramnagar Math Dekhi Paschim | 5,8 | 23 | 63 |

| ad ass | Road Code | Road Name | Ward Pass | Total Score | Rank |
|-----------|------------|---|--------------|----------------|------|
| D | 232M15D074 | Basantapatti-Sekhauna | 6 | 22 | 64 |
| В | 232M15B001 | Khap Bata Purba Dakshin Simana Hudai Bharatiya Simana Samma | 9 | 22 | 65 |
| D | | Jamir Akhtar Ko Ghar Bata Nahar Ko Culvert Hudai Dakshin Nanak Maharko Ghar Jodne Sadak | 2 | 22 | 66 |
| В | 232M15B002 | Raj Devi Mandir To Chhath Ghat Hudai Mansari Road Samma | 9 | 21 | 67 |
| В | 232M15B020 | Jidagawa belbichawa bata Uttar Falahull Muslimin Madarsa hudai dewahi gonahi na pa jane sadak | 1 | 21 | 68 |
| D | 232M15D104 | Darbariya Kopasal Dekhi Jadha Shah Ko Ghar Jodne Sadak | 2 | 21 | 69 |
| D | 232M15D111 | Salim Ahamed Ko Ghar -Daskhin Purba Hudai Rajai Ko Ghar | 1 | 21 | 70 |
| В | 232M15B017 | Battery Company Bata Purba Pokhariya Gahatoli Sadak | 4,6 | 20 | 71 |
| D | 232M15D037 | Id Mohammad Ko Ghar Dekhi Paschim Snrpt Bata Snrtp Dekhi Paschim Namnagada Pra Vi | 5 | 20 | 72 |
| С | 232M15C036 | Canal Road | 7,8,9 | 20 | 73 |
| D | 232M15D039 | Mohammed Sadik Ko Ghar Dekhi Purba Jane Rajpur Simana Samma | 5 | 19 | 74 |
| D | 232M15D008 | Motipur Gaun,Birendra Patel Ko Ghar Hudai Uttar Jognai Ko Dura Hudai Purba Mul Sadak Jodne Bato | 8 | 19 | 75 |
| D | 232M15D003 | Rampur Bata Paschim Jane Sadak | 9 | 19 | 76 |
| D | 232M15D107 | 7 Samin Ko Ghar Hudai Purba Bypass Sadak | 1,2 | 19 | 77 |
| С | 232M15C00 | Sofi Mahat Ko Ghar Bata Purba Sikhardas Ko Ghar Hudaidakshinwari Tole-Rajdevi Mandir | 9 | 19 | 78 |
| D | 232M15D11 | Ekramun Ko Gnar Sainina | 2 | 19 | 79 |
| С | 232M15C01 | Simana Jane Bato | 9 | 19 | 80 |
| D | 232M15D09 | Sadak | 3 | 19 | 81 |
| Г | 232M15D00 | Jodne Bato | 8 | 18 | 82 |
| Ι | 232M15D07 | Tejapakad Aa Bi Dekhi Baiju Singh Ko Khet Hudai Samsul Ko Ghar Samma | 3 | 18 | 83 |



| oad lass | Road Code | Road Name | Ward Page | Total Score | Ran |
|-------------|------------|--|--------------|----------------|-----|
| D | 232M15D100 | Bidhyanand Shah Ko Ghar Bata Paschim Bramhathan Mandir Hudai Ramchandra Giriko Ghar Jane Sadak | 2 | 18 | 84 |
| D | 232M15D110 | Ramlal Ko Ghar Bata Rajai Ko Ghar Jodne Sadak | 1 | 18 | 85 |
| D | 232M15D027 | Bhediyahi Naya Bato 1 | 6 | 18 | 86 |
| С | 232M15C042 | Basantapatti-Sekhauna | 6 | 18 | 87 |
| С | 232M15C026 | Pokharia DamarLalbakaiya Badh Jane Sadak | 3 | 18 | 88 |
| В | 232M15B016 | Pokhariya Damar Bata Uttar-Pokhariya Mandir | 3.4 | 18 | 89 |
| С | 232M15C005 | Rampur, Dakshinwari Tole Bata Damar Hudai Rajpur Jane Bato | 9 | 18 | 90 |
| С | 232M15C016 | Bhediyanhi,Satinder Patel Ko Ghar Bata Paschim Motipur Jane Bato | 5 | 18 | 91 |
| D | 232M15D109 | Latif Ko Dokan Dekhi Purba Chamar Toli Dekhi Dakshin Hudai Ram Ekbal Ko Gachi Samma | 1 | 18 | 92 |
| D | 232M15D013 | Shekh Nathuni Ko Ghar Dekhi Uttar Bhola Neta Ko Ghar Samma | 8 | 18 | 93 |
| D | 232M15D023 | Basantapatti Nahar Chowk Dekhi Chaur Garaiya Hudai | 6 | 18 | 94 |
| D | 232M15D114 | Shekh Dinaliko Ghar Dekhi Purba Baraila Tol Hudai Ram Lal Ko Ghar Samma | 1 | 17 | 95 |
| D | 232M15D091 | Ram Pd Paswan Ko Ghar Bata Daskhin Pashim Bata Jayprakash Paswan Ko Ghar Jane Bato | 3 | 17 | 96 |
| D | 232M15D113 | Mul Sadak Sali Muhammad Ko Ghar Dekhi Dakshin Hamid Ko Ghar Hudai Purba Jane Bato | 1 | 17 | 97 |
| D | 232M15D090 | Eampd Paswan Ko Ghar Hudai Daskhin Sheikh Shahi Ko Ghar Jodne Bato | 3 | 17 | 98 |
| D | 232M15D083 | Babisaheb Ko Ghar Bhar Bata Dakshin Bramhthanmandir Jane Sadak | 6 | 17 | 99 |
| D | 232M15D115 | Masjid Dekhi Paschim Shekh Hussain Ko Ghar Dekhi Uttar Mul Sadak Jane Bato | 2 | 17 | 100 |
| С | 232M15C018 | Pokhariya Sabik Ward 9 To Paschim Battery Factory Hudai Gramin Sakakari Chowk | 6 | 17 | 101 |
| С | 232M15C022 | Pokhariya Ram Janaki Math Dekhi Badh Samma | 3 | 17 | 102 |
| С | 232M15C034 | Jigadawa Belbichawa-Musaharitol | 1 | 17 | 103 |
| С | 232M15C003 | Khap Tole bata Bikhardas Tatma Ko Ghar Samma Bato | 9 | 16 | 104 |
| D | 232M15D102 | Sukhadi Ko Ghar Dekhi Purba Bypass Sadak Jane Bato | 1,2 | 16 | 105 |
| D | 232M15D112 | Jafir Ahmad Ko Ghar-Ramalal Ko Ghar Hudai Purba Jane Sadak | ı | 16 | 106 |

| Road Class | Road Code | Road Name | Ward | Total | |
|---------------|------------|---|--------|-------|------|
| D | 232M15D089 | Shekh Shahid Ko Ghar Bata Paschim Sahakari Jane Bato | tions. | Score | Rank |
| | 232M15D108 | Sakir Mukhiya Ko Glyss D. Luss | 3 | 16 | 107 |
| D | 23#M13D100 | Sakir Mukhiya Ko Ghar Dekhi Paschim Kasim Ko Ghar Samma | 2 | 16 | 108 |
| D | 232M15D057 | Pokhariya Ghadariya Tole-Bata Paschim Sheikh Samsul Ko Ghar Jane Sadak | 4 | 16 | 109 |
| c | 232M15C049 | Tejpakad,Ramananda Ko Mill,Bata Paschim- Inarwari Jane Bato | 3 | 15 | 110 |
| D | 232M15D017 | Narkatiya-Masaar Rautko Ghar Bata Laganshil Sahakari Jane Bato | 7 | 15 | 111 |
| D | 232M15D067 | Bilasi Roy Ko Ghar Dehki Sabir Hajra Ko Ghar Samma | 4 | 15 | 112 |
| С | 232M15C024 | Pokhariya Ghadari-Sheikh Abulesh Ko Ghar Hudai Uttar-Lala Bakaiya Badh Jane Sadak | 3,4 | 15 | 113 |
| D | 232M15D088 | Bhagat Ko Ghar-Mukesh Ko Ghar-Jalandhar Ko Ghar | 3 | 15 | 114 |
| D | 232M15D016 | Sheikh Dukha Ko Ghar-Anawa Rul Dewan Ko Ghar | 7 | 15 | 115 |
| D | 232M15D094 | Laukaha Bata Uttar Moktar Ko Ghar Jane Sadak | 3 | 14 | 116 |
| В | 232M15B003 | Mul Sadak Bata Mansuri Simana Sadak | 8,9 | 14 | 117 |
| D | 232M15D009 | Sachindra Patel Ko Ghar Hudai Chunilala Ko Ghar -Jimdar Ko Dura Jane Bato | 8 | 14 | 118 |
| D | 232M15D098 | Ram Suresh Ko Ghar Dekhi Paschim Shekh Mati Ullahako Ghar Samma | 2 | 14 | 119 |
| D | 232M15D064 | Ram Jaan Ko Ghar Dekhi Uttar State Boardin School Hudai Tulsi Ray Ko Ghar Samma | 4 | 14 | 120 |
| В | 232M15B011 | Sheikh Id Ko Pokhari Bata Uttar-Shekh Islam Ko Krishi Farm Jodne Sadak | 3,6 | 14 | 121 |
| D | 232M15D051 | Laukaha Bhitri Sadak | 4 | 13 | 122 |
| D | 232M15D099 | Radhe Shyam Ko Ghar Ko Mod Bata Rama Kanta Ko Khet Hudai Paschi Nageshwor Nath Mandir Samma | 2 | 13 | 123 |
| D | 232M15D031 | Ram Bilas Sah Ko Ghar Dekhi Uttar Hari Chandra Sah Ko Ghar Samma | 5,6 | 13 | 124 |
| D | 232M15D005 | Rampur Chhatghat Dekhi Rampukar Sing Ko Khet Ra Binod Patel Ko Khet Hudai Mul Sadak Samm | 8,9 | 13 | 125 |
| D | 232M15D030 | Siudhari Mahto Ko Ghar Dekhi Bhirkhu Das Ko Ghar Samma | 6 | 12 | 126 |
| D | 232M15D054 | Milat Pra Vi Bata Laxman Raut Ghar Samma | 4 | 12 | 127 |
| D | 232M15D018 | Mul Sadak Bata Bharatiya Simana Jodne Sadak | 7 | 12 | 128 |

| Road Class | Road Code | Road Name | Ward | Total | Rank |
|---------------|------------|--|----------------|----------------------------|------|
| D | 232M15D045 | Bramha Jyoti Mandir Bata Dakshin Trasnfomer Chowk | 4 | Score 12 | 129 |
| D | 232M15D080 | Rajendra Pd Ko Ghar Bata Purba Banarasi Pd Ko Ghar | 6 | 12 | 130 |
| D | 232M15D043 | Jalandhar Daktar Ko Ghar Bata Purba Bijaiya Jane Sadak | 4 | 11 | 131 |
| D | 232M15D071 | Mul Sadak Bata Purba Dakshin Hudai Sano Kabrastan Jane Sadak | 4 | 11 | 132 |
| D | 232M15D118 | Mul Sadak Muslim Ko Ghar Hudai Rudhal Baitha Samma | 1 | 11 | 133 |
| D | 232M15D047 | Bramajyti Mandir Bata Purba Rajdev Shah Ko Pasal Jodne Sadak | 4 | 11 | 134 |
| D | 232M15D065 | Babu Jaan Ko Ghar Dekhi Purba Masjit Jane Bato | and the second | the one of the other lates | 125 |
| D | 232M15D055 | Milat School Bat Purba Pani Tanki Hudai Madarsa Jane Bato | 4 | 11 11 | 135 |
| D | 232M15D069 | Hari Shankar Ray Ko Ghar Dekhi Raghunath Ray Ko Ghar Samma | 4 | 1.1 | 137 |
| D | 232M15D072 | Shekh Ablesh Hatawa Ko Ghar Dekhi Ishrapu Ko Ghar Hudai Shekh Gafur Ko Ghar Samma | 4 | 11 | 138 |
| D | 232M15D070 | Umarbin Ulkhatan Masjid Jane Bato | 3,4 | 10 | 139 |
| D | 232M15D032 | Laxmi Sah Ko Ghar Dekhi Kapil Deo Ko Ghar Hudai Snrtp Sadak Samma | 5 | 10 | 140 |
| D | 232M15D092 | Tejapakad Dekhi Uttar Jyutahi Jane Bato | 3 | 10 | 141 |
| D | 232M15D060 | Mul Sadak Pokhariya Tol Bata Purba Lal Bakaiya Badh Jane Sadak | 3,4 | 10 | 142 |
| D | 232M15D073 | Toshi Akhthar Ko Ghar Dekhi Jamil Akhatar Ko Ghar Samma | 4 | 10 | 143 |
| D | 232M15D049 | Ram Agaiya Yadav Ko Ghar Dekhi Raj Mangal Ko Ghar Samma | 4 | 10 | 144 |
| D | 232M15D048 | Mahendra Jyoti Ko Ghar Deki Birnda Ray Ko Ghar Samma | 4 | 10 | 145 |
| D | 232M15D084 | Basantapatti Gaun Nul Sadak Bata Dakshin Kedar Jaiswal Ko Ghar | 6 | 10 | 146 |
| D | 232M15D097 | Bramasthan Mandri Dekhe Purba Ram Ashre Mahato Ko Ghar Samma | 1 | 10 | 147 |
| D | 232M15D081 | Kedar Jasiwal Ko Ghar Bata Uttar Purba Hudai Banarasi Pd Ko Ghar | 6 | 10 | 148 |
| D | 232M15D117 | Nuniya Tole Road | 1 | 10 | 149 |
| D | 232M15D042 | Masjid Dekhi Uttar Ishraf Ko Ghar Samma | 5 | 10 | 150 |





| 4 | Road Code | Road Name | Ward | Total | |
|---|------------|--|------|-------|--------------|
| | 232M15D056 | Mul Sadak Yar Muhammed Ko Ghar Dekhi Madarsa Jane Bato | Laze | Score | Linn Linn |
| | 232M15D050 | Bishwanath Ko Ghar Dekhi Ram Chandra Ko Ghar Samma | 4 | 10 | 151 |
|) | | Mul Bato Rajindra Shah K | 4 | 10 | 152 |
|) | 232M15D062 | | 4 | 10 | 153 |
| , | 232M15D119 | Falahull Muslimin Madarsa Dekhi Purba Nuniya Tol Hudai Mul Sadak Jane Bato | 1 | 10 | 154 |
|) | 232M15D041 | Mul Bato Monib Ko Ghar Dekhi Uttar Jainoon Ko Ghar Samma | 5 | 10 | Marin |
|) | 232M15D068 | Dharmendra Prasad Ko Ghar Dekhi Ma Bi Basantapatti Samma | 4 | | 155 |
|) | 232M15D046 | Garib Saha Ko Ghar Dekhi Hari Ray Ko Khaliyan Samma | | 10 | 156 |
|) | 232M15D061 | Ablesh Sheth Ko Ghar Daliki B | 4 | 10 | 157 |
| | 232M15D040 | Mul Bato Mojahid Ko Ghar Dakki Uku Go | 4 | 9 | 158 |
|) | | Dewall Ro Ghar Samma | 5 | 9 | 159 |
|) | 232M15D052 | Moti Rahaman Ko Ghar Dekhi Masjid Samma | 4 | 9 | 160 |
|) | 232M15D086 | Tejapakad Baiju Singh Khet Dekhi Paschim Haraiya Inarwari Jane Sadak | 3,6 | 9 | 161 |
|) | 232M15D066 | Pokhariya Gahatol Bata Purba Purwa Badh Jane Sadak | 3,4 | 9 | 162 |
|) | 232M15D076 | Basantapatti Naya Bato 1 | 6 | 9 | 163 |
|) | 232M15D036 | Enus Ko Ghar Dekhi Paschim Jane Bato Ishrafi Ko Ghar Hudai Asin Ko Ghar Samma | 5 | 9 | 164 |
|) | 232M15D078 | Basantapatti Mab I Ko Pokhari Jane Bato | 6 | 9 | 165 |
|) | 232M15D063 | Jogindar Thakur Bari Dekhi State Boarding Jane Bat | 4 | 9 | 166 |
| 0 | 232M15C031 | Satlal Ko Ghar -Bata Uttar Isha Mohammad Ko Ghar Bata Uttar-Nageswornath Mandir Hudai Nahar Ko Culvert Jodne Sadak | 2 | 8 | 167 |
|) | 232M15D087 | Tejapakad Aa Bi Dekhi Baiju Singh Ko Khet Hudai Samsul Ko Ghar Samma | 3 | 8 | 168 |
|) | 232M15D077 | Indar Dev Raut Ko Ghar Dekhi Hari Narayan Ko Ghar Hudai Ra Jai Mangal Ko Ghar Hudai Mogal Raut Ko Ghar Samma | 6 | 7 | 169 |
| 3 | 232M15B018 | Lalbakaiya Badh Sadak | 3 | 7 | 170 |
| 2 | 232M15C015 | Mahendra Shahko Khet Dekhi-Narakatiya Simana Samma | 6 | 7 | 171 |
| С | 232M15C029 | Bandh Bata Uttar Nahar Ko Culvert Jodne Sadak | 1 | 7 | 172 |



| Road | Road Code | Road Name | Ward | Total Score | Rank |
|--------|------------|--|------|----------------|------|
| Class | 232M15D085 | Tejpakad Bata Paschim Jane Naya Sadak | 6 | 7 | 173 |
| D D | 232M15D035 | Inus Ansari Ko Ghar Dekhi Snrtp Sadak Samma | 5 | 7 | 174 |
| D | 232M15D021 | Ram Adhar Ko Ghar Dekhi Umesh Ko Ghar Samma | 7 | 7 | 175 |
| D | 232M15D007 | Babulal Ko Ghar Dekhi Sikindar Pattel Ko Ghar Samma Jane Bato | 8 | 7 | 176 |
| D | 232M15D095 | Koktar Ko Ghar Bata Purba Lalbakiya Badh Jane Sadak | 3 | 6 | 177 |
| C | 232M15C006 | Bramhathan Bata Rajdevi Mandir Jane Bato | 9 | 6 | 178 |
| D | 232M15D075 | Basantapatti Naya Bato 1 | 6 | 6 | 179 |
| D | 232M15D029 | Babulal Sah Ko Ghar Dekhi Nirgun Ko Khet Hudai Mul Sadak Samma | 6 | 4 | 180 |
| D | 232M15D059 | Ghadari Dekhi Pokhariya Jane Mod Samma | 4 | 4 | 181 |
| D | 232M15D053 | Laxman rautko ghar bata- uttar purba -shekg samsul ko jane sadak | 4 | 4 | 182 |
| D | 232M15D101 | Lalbakaiya Badh Bata Purba Kamdehi Nadi Jane Bato | 1,2 | 4 | 183 |
| D | 232M15D058 | Dhopkat Dekhi Mauwa Ko Rukh Hudai Ghadariya Jane Batoko Chowk Samma | 4 | 3 | 184 |
| D | 232M15D105 | Jadha Shah Ko Ghar Bata Nahar Jodne Sadak | 2 | 3 | 185 |
| С | 232M15C023 | Mul Sadak Pokhariya Tol Bata Purba Lal Bakaiya Badh Jane Sadak | 3 | 3 | 186 |
| D | 232M15D096 | Musahartol Road | 2 | 3 | 187 |
| D | 232M15D028 | Bhediyahi Naya Bato 2 | 6 | 2 | 188 |
| С | 232M15C041 | Bangkul Simana Sadak | 7 | 2 | 189 |
| С | 232M15C019 | Inarwari Simana Sadak | 3 | 2 | 190 |

5.5 Road Interventions

Strategic Roads and District Roads are excluded for determining the cost of interventions, as the road standard and per unit cost of it also quite different than local level roads. The cost for the construction has determined based on these interventions. The interventions has categorized into two parts: one is road geometry while the other one is the road surface interventions. The road geometry interventions includes requirement of widening while the surface type interventions includes all interventions other than widening. The total cost of all the road interventions has been determined. All the cost associated has been adopted from the "standard cost for different interventions" given in the MTMP Preparation Guidelines.



MTPP cost of all road is around 0.875 billion and taking the budget of the current fiscal as the base and increasing the budget yearly by 10%, all road interventions is assumed to be completed in 27 years.

Table 1

| Code | Conservation | Improvement | New construction | Total |
|------------|--------------|-------------|---|---------|
| 232M15A001 | 1,268 | 5,312 | | 6,579 |
| 232M15B001 | 794 | 1,165 | a in the second | 1,959 |
| 232M15B002 | 1,414 | 2,074 | | 3,489 |
| 232M15B003 | 2,655 | 4,148 | | 6,804 |
| 232M15B004 | 3,886 | | | 3,886 |
| 232M15B005 | 1,898 | 5,493 | a tanan na sana ka | 7,392 |
| 232M15B006 | 3,219 | 17,093 | | 20,311 |
| 232M15B007 | 3,026 | 5,936 | 117,426 | 126,387 |
| 232M15B008 | 9,875 | 19,382 | | 29,257 |
| 232M15B009 | 2,340 | 3,432 | | 5,772 |
| 232M15B010 | 2,010 | 2,948 | | 4,957 |
| 232M15B011 | 3,296 | 5,367 | - | 8,663 |
| 232M15B012 | 663 | 972 | | 1,634 |
| 232M15B013 | 6,651 | 9,754 | - | 16,405 |
| 232M15B014 | 2,245 | 3,293 | | 5,538 |
| 232M15B015 | 854 | 1,253 | - | 2,108 |
| 232M15B016 | 1,643 | 2,410 | | 4,054 |
| 232M15B017 | 2,787 | 4,539 | • | 7,326 |
| 232M15B018 | 9,701 | 14,228 | | 23,930 |
| 232M15B019 | 2,720 | 3,990 | - | 6,710 |
| 232M15B020 | 613 | 899 | | 1,513 |
| 232M15C001 | 1,765 | 2,589 | 2,481 | 6,836 |
| 232M15C002 | 604 | 885 | 20 | 1,509 |
| 232M15C003 | - | - | 4,806 | 4,806 |
| 232M15C004 | 1,069 | 1,568 | • | 2,637 |
| 232M15C005 | 885 | 1,299 | | 2,184 |
| 232M15C006 | 272 | 399 | | 672 |
| 232M15C007 | 689 | 1,011 | · | 1,700 |
| 232M15C008 | 988 | 1,449 | 83 | 2,520 |
| 232M15C009 | 1,254 | 2,572 | was more than 15.50 because an | 3,826 |
| 232M15C010 | 1,477 | 2,697 | | 4,174 |
| 232M15C011 | 3,498 | 18,326 | | 21,823 |



| Code | Conservation | Improvement | 1 | |
|--------------------------|--------------|---|--|--------|
| 232M15C012 | 1,398 | 2,051 | New construction | loct |
| 232M15C013 | - | -,051 | | 3,449 |
| 232M15C014 | 4,222 | 8,012 | N 4500 CO CONTRACTOR OF CONTRA | - 1 |
| 232M15C015 | 2,049 | 3,005 | | 12,234 |
| 232M15C016 | 1,706 | 2,502 | H Propose wo many | 5,054 |
| 232M15C017 | 3,827 | 5,613 | | 4,208 |
| 232M15C018 | 661 | 970 | D SALKS STATE OF THE LAND OF THE LAND | 9,440 |
| 232M15C019 | 1,190 | 1,745 | | 1,631 |
| 232M15C020 | 3,613 | STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN | A Marketina and a second | 2,934 |
| 232M15C021 | 4,284 | 5,885 | • | 9,498 |
| 232M15C022 | 638 | 6,906 | T CANADA MANAGAMANA | 11,189 |
| 232M15C023 | 563 | 935 | | 1,573 |
| 232M15C024 | 1,579 | 825 | et Protection | 1,388 |
| 232M15C024 232M15C025 | 1,627 | 2,316 | | 3,895 |
| 232M15C025 | 1,962 | 2,386 | - | 4,013 |
| | | 2,878 | | 4,840 |
| 232M15C027 | 5,397 | 11,960 | 75,340 | 92,697 |
| 232M15C028 | 1,990 | 2,919 | | 4,908 |
| 232M15C029 | 1,113 | 1,632 | • | 2,745 |
| 232M15C030 | 1,849 | 2,712 | 2 (5) | 4,562 |
| 232M15C031 | 908 | 1,332 | - | 2,241 |
| 232M15C032 | 1,078 | 2,420 | 1,608 | 5,105 |
| 232M15C033 | 1,841 | 2,699 | - | 4,540 |
| 232M15C034 | 613 | 899 | | 1,512 |
| 232M15C035 | 1,279 | 1,876 | - | 3,155 |
| 232M15C036 | 5,948 | 8,723 | | 14,671 |
| 232M15C037 | 3,267 | 18,610 | 6,496 | 28,373 |
| 232M15C038 | 3,599 | 5,278 | | 8,877 |
| 232M15C039 | 4,231 | 21,975 | - , | 26,207 |
| 232M15C040 | 3,685 | 5,634 | | 9,318 |
| 232M15C041 | 862 | 1,264 | - " | 2,127 |
| 232M15C042 | 1,398 | 2,050 | | 3,448 |
| 232M15C043 | 2,704 | 3,966 | - " | 6,669 |
| 232M15C044 | 2,635 | 7,053 | | 9,688 |
| 232M15C045 | 2,339 | 3,431 | | 5,770 |
| 232M15C046 | 1,071 | 1,570 | 119 | 2,760 |
| 232M15C047 | 7,046 | 13,817 | | 20,862 |
| 232M15C048 | 1,626 | 2,385 | | 4,011 |

| Code | Conservation | Improvement | New construction | Total |
|------------|--------------|-------------|--|--------|
| 232M15C049 | 1,096 | 1,607 | - | 2,703 |
| 32M15C050 | 1,914 | 2,807 | | 4,721 |
| 32M15D001 | 834 | 1,223 | | 2,056 |
| 232M15D002 | 202 | 296 | | 497 |
| 232M15D003 | 365 | 536 | - | 901 |
| 232M15D004 | 271 | 398 | | 669 |
| 232M15D005 | - | - | 3,525 | 3,525 |
| 232M15D006 | 404 | 593 | PERMIT | 997 |
| 232M15D007 | 64 | 94 | - Celvinde Oncollaten, pri chyle ie | 158 |
| 232M15D008 | 509 | 746 | | 1,255 |
| 232M15D009 | 231 | 338 | | 569 |
| 232M15D010 | | • | 11,628 | 11,628 |
| 232M15D011 | - | - | | - |
| 232M15D012 | 227 | 332 | | 559 |
| 232M15D013 | 126 | 184 | • | 310 |
| 232M15D014 | 289 | 424 | | 713 |
| 232M15D015 | 455 | 667 | • | 1,122 |
| 232M15D016 | 292 | 428 | | 720 |
| 232M15D017 | 239 | 351 | - | 590 |
| 232M15D018 | 509 | 2,737 | Part - Till | 3,247 |
| 232M15D019 | 1,122 | 1,645 | - | 2,767 |
| 232M15D020 | 949 | 1,391 | ************************************** | 2,340 |
| 232M15D021 | 180 | 264 | - | 444 |
| 232M15D022 | 5,523 | 8,101 | | 13,624 |
| 232M15D023 | 1,274 | 1,868 | | 3,142 |
| 232M15D024 | 2,439 | 3,577 | | 6,016 |
| 232M15D025 | 259 | 380 | | 640 |
| 232M15D026 | 272 | 398 | | 670 |
| 232M15D027 | 298 | 486 | 593 | 1,377 |
| 232M15D028 | | - 10 | 937 | 937 |
| 232M15D029 | | - | 2,503 | 2,503 |
| 232M15D030 | 124 | 182 | • | 307 |
| 232M15D031 | 163 | 238 | | 401 |
| 232M15D032 | 246 | 360 | | 606 |
| 232M15D033 | 346 | 508 | | 854 |
| 232M15D034 | 910 | 1,335 | | 2,246 |
| 232M15D035 | 150 | 219 | | 369 |

| | Conservation | Improvement | Newcome | |
|------------|---|--------------|--|-------|
| Code | 220 | 322 | New construction | Total |
| 232M15D036 | 185 | 271 | | 541 |
| 232M15D037 | <u>.</u> | TO ASSOCIATE | | 455 |
| 232M15D038 | 710 | 1,042 | 3,011 | 3,011 |
| 232M15D039 | 183 | 269 | - | 1,752 |
| 232M15D040 | 138 | 202 | | 452 |
| 232M15D041 | 110 | | 3 WAS STORY TO STORY | 340 |
| 232M15D042 | 539 | 161 | • | 271 |
| 232M15D043 | 2,621 | 791 | - Contraction of the Contraction | 1,330 |
| 232M15D044 | And Contraction of the Contract of the Con- | 3,957 | | 6,578 |
| 232M15D045 | 471 | 691 | - | 1,162 |
| 232M15D046 | 167 | 245 | | 412 |
| 232M15D047 | 303 | 444 | - | 747 |
| 232M15D048 | 128 | 188 | | 316 |
| 232M15D049 | 107 | 158 | - | 265 |
| 232M15D050 | 70 | 103 | | 172 |
| 232M15D051 | 356 | 522 | - | 878 |
| 232M15D052 | 78 | 114 | | 192 |
| 232M15D053 | 647 | 949 | - | 1,597 |
| 232M15D054 | 466 | 684 | | 1,150 |
| 232M15D055 | 393 | 576 | • | 969 |
| 232M15D056 | 204 | 299 | | 502 |
| 232M15D057 | 1,218 | 1,786 | - | 3,004 |
| 232M15D058 | 445 | 653 | | 1,098 |
| 232M15D059 | 451 | 661 | - | 1,112 |
| 232M15D060 | 2,314 | 3,768 | | 6,082 |
| 232M15D061 | 385 | 565 | - | 950 |
| 232M15D062 | 229 | 336 | - | 565 |
| 232M15D063 | 94 | 137 | - | 231 |
| 232M15D064 | 578 | 847 | - | 1,425 |
| 232M15D065 | 252 | 369 | - | 621 |
| 232M15D066 | 1,754 | 2,572 | | 4,326 |
| 232M15D067 | 329 | 482 | - | 811 |
| 232M15D068 | 296 | 434 | | 730 |
| 232M15D069 | 210 | 308 | - | 518 |
| 232M15D070 | | | 1,343 | 1,343 |
| 232M15D071 | 519 | 761 | · | 1,279 |
| 232M15D072 | 108 | 159 | | 267 |



| Code | | Improvement | New construction | Total |
|------------|----------------|-------------|--|-------|
| 232M15D073 | 117 | 172 | - | 289 |
| 232M15D074 | 421 | 618 | | 1,039 |
| 232M15D075 | - | - | 3,204 | 3,204 |
| 232M15D076 | and the second | | 1,175 | 1,175 |
| 232M15D077 | 250 | 367 | e maraka a kalendara mengan seba | 617 |
| 232M15D078 | 118 | 173 | | 290 |
| 232M15D079 | 1,168 | 1,713 | | 2,881 |
| 232M15D080 | 231 | 338 | | 569 |
| 232M15D081 | 373 | 547 | • ** ********************************* | 921 |
| 232M15D082 | 798 | 1,171 | | 1,969 |
| 232M15D083 | 346 | 507 | - Consideration Conference Confer | 853 |
| 232M15D084 | 139 | 204 | | 343 |
| 232M15D085 | - | - | 4,158 | 4,158 |
| 232M15D086 | 1,110 | 1,627 | - 1 | 2,737 |
| 232M15D087 | 182 | 268 | - | 450 |
| 232M15D088 | 359 | 527 | | 886 |
| 232M15D089 | 404 | 593 | - | 997 |
| 232M15D090 | 446 | 654 | | 1,101 |
| 232M15D091 | 537 | 788 | - | 1,325 |
| 232M15D092 | 1,375 | 2,124 | | 3,500 |
| 232M15D093 | 591 | 867 | - | 1,459 |
| 232M15D094 | 733 | 1,075 | | 1,808 |
| 232M15D095 | 373 | 546 | - | 919 |
| 232M15D096 | 150 | 220 | | 370 |
| 232M15D097 | <u> </u> | | 400 | 400 |
| 232M15D098 | 675 | 989 | 567 | 2,231 |
| 232M15D099 | - · | - | 716 | 716 |
| 232M15D100 | 902 | 1,323 | | 2,225 |
| 232M15D101 | 1,239 | 1,817 | | 3,056 |
| 232M15D102 | 1,383 | 2,028 | | 3,411 |
| 232M15D103 | 365 | 535 | | 899 |
| 232M15D104 | 782 | 1,147 | | 1,929 |
| 232M15D105 | - | - | 1,550 | 1,550 |
| 232M15D106 | 625 | 917 | | 1,542 |
| 232M15D107 | 477 | 700 | | 1,177 |
| 232M15D108 | 61 | 89 | | 150 |
| 232M15D109 | | | 1,424 | 1,424 |



| | Conservation | Improvement | | T with part of the last of the |
|----------------------------|--------------|-------------|---------------|--|
| Code | 338 | 495 | New Comments | |
| 10MI5D110 | 390 | 572 | Salara Salara | 833 |
| 32MI5DI I I 32MI5DI I 2 | 387 | 567 | * | 961 |
| 32M15D113 | 110 | 161 | | 954 |
| 33MI5DI14 | 138 | 203 | | 271 |
| DIMI5D115 | 180 | 264 | | 341 |
| 132MISD116 | 143 | 209 | | 443 352 |
| 132M15D117 | 305 | 448 | | 753 |
| 132M15D118 | 299 | 438 | • | 737 |
| 212M15D119 | • | 4 | 4,251 | 4,251 |
| Total | 220,429 | 405,259 | 249,363 | 875,652 |



CHAPTER 6: First Five Year Municipal Transport Master Plan

The previous year budget of the municipality shall be collected and the growth rated shall be then determined. Then short term and long term financial plan shall be forecasted. The projected financial plan for five year shall be prepared.

6.1 Five year Projected Financial Plan

The current budget plan of the municipality allocred for the road sector as per the municipal documents is NRs 80467000. Based on the growth pattern, the growth factor is determined and the budget for coming year has forecasted as shown in below. The composition of source of budget in municipality shows heterogeneous in nature. The very high amount of budget is granted by the central government and federal government. So, if there is any changes occurred in granted amount by government, there result will be significant change in the municipality budget. The government of Nepal has intended to increase the total budget of each local bodies by 10-15% each year to meet the physical development of these bodies. Hence, Incase of thisMunicipality the growth rate that has been used in all the calculations is 10%, as it is used for general purpose when we don't have precise growth rate.

6.2 Sharing of Fund

The financial plan and the finalization of the MTMP shall be done based on terms of reference as given by ministry. During preparation of MTMP, the investment from total available resources under road sector for different classes of the road can be distributed as portion 30% for maintenance at first and remaining 70% shall be distributed.

On discussion with local authorities based on local condition and requirement of this Muncipality sharing of budget was adjusted as 55% in improvement, 15% for new construction and 30% in Maintenance of road for next 5 fiscal years.

The estimate of budget required for the five years is prepared based on the assumption that the Class A road is to be made two lanes, Class B road is to be made intermediate lane and Class C and Class D road is to be made single lane and lane considered are assumed to be gravelled. Due to limitation of budget, the roads are assumed to have simple cross drainage structures within this period whereas cross drainage structures such as Bridges are not included in this budget and expected to be completed within this time period by external sources. For approximate costing, the construction rate of road appurtenances is assumed to be equal to that of gravelling cost and for short term the minimum width of 3m is assumed if existing road width doesn't exist. Similarly, longitudinal drainage on both side of roadway is considered in this plan.

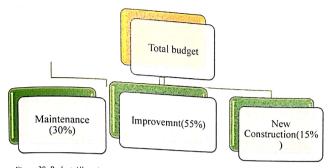


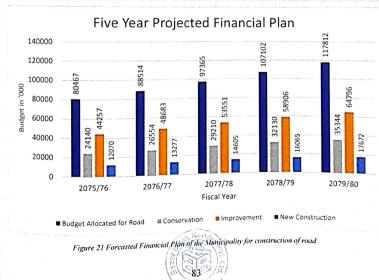
Figure 20 Budget Allocation as Per Interest of Local Authorities over Planning of Municipal Road

6.3 Year Wise Target

Year wise target shall be developed based on available budgets.

Table 17: Five year projected financial project

| Fiscal Year | 2075/76 | 2076/77 | 2077/78 | 2078/79 | 2079/80 |
|---------------------------|---------|---------|---------|---------|---------|
| Budget Allocated for Road | 80467 | 88514 | 97365 | 107102 | 117812 |
| Conservation | 24140 | 26554 | 29210 | 32130 | 35344 |
| Improvement | 44257 | 48683 | 53551 | 58906 | 64796 |
| New Construction | 12070 | 13277 | 14605 | 16065 | 17672 |



prioritized Municipality road for MTMP

6.4 Prioritized Transport master Plan (MTMP) of this Municipality includes following prioritized roads for upcoming five years.

Table 18: List of prioritized raods for MTMP

| 0ad 1ass | Road Code | Road Name | Ward | Total Score | |
|-------------|--|---|----------------|-------------------|-------|
| В | Committee and the second of th | Bhediyahi-Basantapatti | Pass | | |
| C | 232M15C044 | Bhediyahi Bazaar-Pokhariya Damar Tole | 5,6 | 74 | 1 |
| В | 232M15B019 | Tejpakad-Laukaha-Pokhariya | 5 | 72 | 2 |
| С | 232M15C017 | Basantapatti Ma Bi To Madan Shah Ko Ghar Samma | 3,4 | 70 69 | 3 |
| С | 232M15C037 | Namnagada Bata Paschim Motopur Jane Bato | ALCOHOLD STATE | PROPERTY CONTRACT | 7 |
| C | 232M15C014 | Narkatiya- Gaun Bata-Idagah Bata Bharatiya Simana Samma | 5,8 7,8 | 66 | 6 |
| C | 232M15C027 | Pokhariya Ghadari-Jigadawa Belbichawa | 100 | 7770777777 | LONGE |
| D | 232M15D082 | Bhediyahi-Basantapatti-Inarwari-Pataura | 1,2,3 | 63 | 7 |
| D | 232M15D034 | Badri Chowk- Uttar Namagada Hudai Ramsingh Patel Ko Ghar Jodne Sadak | 6 5 | 60 55 | 9 |
| В | 232M15B010 | Sukdev Chowk -Jarlnel Ko Ghar Bata Nahar Hudai Badh Jane Sadak | 1,2,3 | 53 | 10 |
| D | 232M15D015 | Rajmarga Bata-Sheikh Dukha Ko Ghar -Satindar Ko Ghar Jane Bato | 7 | 53 | 11 |
| D | 232M15D044 | Basanpatti-Laukaha-Pokhariya | 4,6 | 53 | 12 |
| D | 232M15D001 | Ramdharko Ghar,Chadah Mandir Chowk- Bindasaha Sonarko Ghar-Bharatiya Simana Samma | 9 | 52 | 13 |
| С | 232M15C050 | Jigadawa Belbichawa Bypass Road | 1 | 51 | 14 |
| С | 232M15C040 | CANNEL CANADA CA | 7 | 50 | 15 |
| В | 232M15B006 | Mul Sadak Bata Wada 8 Ko Karyalaya Hudai Bhkuwa Khola Hudai Rajmarga Jodne Sadak | 7,8 | 46 | 16 |
| С | 232M15C047 | Laukaha-Pokhariya-Lal Bakaiya Badh | 3,4 | 45 | 17 |
| С | 232M15C001 | Jugul Rautko Ghar-Prithvi Narayan Rautko Ghar Bata Kabrasthan Jane Bato | 9 | 44 | 18 |
| C | 232M15C030 | Jingadawa Nimab Bata Paschim-Nanak Mahara Ko Ghar Hudai Badh Samma Sadak | 2 | 44 | 19 |
| В | 232M15B004 | Khap - Badimasjid-Mansari | 9 | 42 | 20 |
| D | | Mul Sadak Bata-Mansik Raut Ko Ghar Bata Dinesh Thakur Ko Ghar Hudai Pramod Raut Ko Ghar Jodne Sadak | 7,8 | 41 | 21 |

| | Road Code | Road Yamp | Waku | ENGINE I | i yan |
|-----|--|--|-------|------------|-------|
| 124 | 232M15B005 | Narkatiya Bata Nahar Ko Culvert Data Bharatiya Simana Jano Dato | Pari | Loted Sent | |
| ß | A CONTRACTOR AND A STATE OF THE | | 8 | 40 | 33 |
| D | 232M15D024 | Bhediyahi-Sirifal Raut Ko Khet Hudai Basantapatti Simana | 6 | 10 | 23 |
| p | 232M15D025 | Hari Chandra Sah Ko Ghar Datajai Govinda Ko Ghar Hudai Surtp Sadak Samuna | 6 | 38 | 34 |
| C | 232M15C038 | Bhakuwa Nadi Ko Pul Bata Uttar Hudai Basantapatti Jane Bato | 6,7 | 36 | 25 |
| р | 232M15D011 | Mansik Raut Ko Char-Ramananda Ko Ghar Jane Bato | N | 15 | 26 |
| D | 232M15D019 | Hanuman Mandir Dekhi Ram Janaki Dharmasala Samma | 7 | 35 | 27 |
| c | 232M15C048 | Bijaya Sadak(Pokharia-Laukaha-Hulak Sadak- Bhediyahi Bazaar | 4,5 | 34 | 28 |
| 8 | 232M15B007 | Tejapakad-Lal Bakaiya-Jingadawa Belichawa | 2,3 | 33 | 30 |
| c | 232M15C021 | Shiya Mandir Chowk Bata Jalandhar Ko Ghar Hudai Uttar Baudimai Chowk | 3 | 33 | 30 |
| D | 232M15D022 | | 4,5,6 | 32 | 31 |
| C | 232M15C046 | Pokhariya Damar-Nahar Jodne Sadak | 5 | 32 | 32 |
| c | 232M15C013 | Purano Bazaar-Bramhathan Bata Uttar Hudai Mul Sadak Jodne Sadak | 7,8 | 31 | 33 |
| ٨ | 232M15A001 | Hhediyahi-Laukaha-Pokhariya | 4 | 30 | 34 |
| D | 232M15D106 | Darbariya Ko Pasal Bata Bata Purba Hospital | 1,2 | 30 | 35 |
| C | | Rampur-Idgaha Bata Bharat Simana Samma | 9 | 30 | 16 |
| D | 232M15D012 | Ramananda Ko Ghar Jane Bato | 8 | 20 | 37 |
| c | 232M15C011 | Bhakuwa Khola Jholunge Pul Isanath Napa Ko Simana Sadak | 5,8 | 20 | 38 |
| c | 232M15C025 | Pokharriya Damar Bata Ita Bhatta Hudai Laukaha Jane Sadak | 4,5 | 29 | 39 |
| В | 232M15B015 | Bhediyahi-Bata Purba Wada 4 Ko Simana Samma Ko Sadak | 4,5,6 | 50 | 40 |
| B | 232M15B009 | Sadak Belbienawa | 1 | 28 | 41 |
| c | 232M15C033 | Simana Sadak | ١ | 28 | 42 |
| c | 232M15C002 | Swastha Chowki Bata Panitanki Chowk Bata Dasgaja | 0 | 28 | 43 |
| D | 232M15D033 | Paras Raut Ko Ghar Dekhi Rama Kant Ko Ghar Hudai Surtp Sadak Jane | 5,6 | 28 | 44 |
| B | 232M15B008 | Bhediyahi -Tejapakad | 3,4,6 | 28 | 45 |

| | Road Code | - Road Name | Ward | Total Sco | |
|----------|--|--|-------|-----------|----|
| | - | Khap Tole Bata Janta Pr Abi Hudai Rajmarga Jodne Sadak | 7 | 27 | 46 |
| | 232M15D038 | Farmudko Ghar-Nahid Ansariko Ghar-Rajpur Simana Samma | 5 | 27 | 47 |
| | 232M15C012 | Rampur Bata-Narkatiya Jane Bato | | | |
| | | Basantapatti-Inarwari | 8 | 27 | 48 |
| | With the same of t | Sukhadi Ko Ghar Bata Paschim Jamir Akhtar Ko | 6 | 27 | 49 |
| | 232M15C032 | Ghar Hudai Nahar Ko Culvert Jodne Sadak | 2 | 27 | 50 |
| | | Tejpakad Chowk-Bramhathan- Baudimai Chowk | 3 | 26 | 51 |
| | (15C028 | Jhingdwa Aa Bi To Purba Jane Kamdehi Nadi Hudai Main Road Jane | I | 26 | 52 |
| | 232M15C004 | Boudimai ko mandir bata purba uttar hudai Bikhardas tatma ko ghar jane bato | 9 | 25 | 53 |
| | 232M15D004 | Wwada Karyalaya Bata Chhatghat Pokhari- Mansuri | 9 | 25 | 54 |
| | 232M15B012 | Narkatiya Purbari Madarsa To Chhath Ghat | 7 | 25 | 55 |
| | 232M15C045 | Rajpur Simana Bata Nahar Jodne Sadak | 5 | 24 | 56 |
| | 232M15C035 | Jidagawa Belbichawa Bata Masahartol Jane Bato | 1,2,3 | 24 | 57 |
| S. C. S. | 232M15C039 | Snrtp Bata Khap Tol Hudai Pokwa Bam Nahar Samma | 7 | 24 | 58 |
| | 232M15C008 | Rampur Gaun Jugal Raut Ko Ghar Bata Hanuman Mandir Bata Dasgaja | 9 | 24 | 59 |
|) | 232M15D026 | Anchit Prasad Ko Ghar Dekhi Jai Govinda Ko Ghar Hudai Snrtp Sadak Samma | 6 | 23 | 60 |

6.5 First Five Year Transport Implementation Plan

First funding is allocated to conservation as far as the budget allows for this, giving priority in the order emergency - routine - recurrent blacktop - recurrent gravel - recurrent earthen - periodic blacktop - periodic gravel.

Second any remaining funding after allocation to conservation is allocated to improvement of the different roads, giving priority to the roads with higher score. Road sections for which there is insufficient budget in a specific year are delayed till the subsequent year.

Third any remaining funding after allocation to conservation and improvement is allocated to new construction, whereby priority is again given to the roads with higher score. Road sections for which there is insufficient budget in a specific year are delayed till the subsequent year.

Fourth - any remaining funding after conservation, improprement and new construction is indicated at the bottom of the table.



| | llem | | | | | | | | | Year | | | | | | | |
|--------------------------|--------------|------|------|--------|---------|------|--------|----------------|-----------|------|---------|--------|-----------|---------|--------|---------|-----|
| Fis | Fiscal year | | | 20 | 2075/76 | | 20 | TL19107 | | 20 | 2077/78 | | 2078/79 | 8779 | | 2079/80 | 0 |
| Tota | Total budget | | | 8 | 80,467 | | õõ | 88,514 | | 6 | 97,365 | | 107, | 107,102 | | 117,812 | 7 |
| Core network length (km) | ength (km | • | | 7 | 127.29 | | 1 | 127.29 | | I | 127.29 | | 127 | 127.29 | | 127.29 | 6 |
| Blacktop (km) | | | | - | 1.41 | | | 3.05 | | | 4.62 | | 7. | 7.58 | | 9.61 | |
| Gravel (km) | | | | | 13.86 | | 2 | 22.00 | | | 30.50 | | 41. | 41.59 | | 51.97 | 1 |
| Earthen (km) | | | | - | 112.01 | | 1 | 102.24 | | 5 | 92.16 | | 78. | 78.12 | | 65.70 | 0 |
| Conservation (NRs) | NRs) | | | 7 | 24,140 | | 21 | 26,554 | | 2 | 29,210 | | 32,130 | 130 | | 35,344 | 4 |
| Emergency | | | | 3 | 3,819 | | 3 | 3,819 | | 3 | 3,819 | | 3,819 | 19 | | 3,819 | |
| Routine | | | | 2 | 2,546 | | 2 | 2,546 | | 2 | 2,546 | | 2,546 | 46 | | 2,546 | |
| Recurrent (blacktop) | ktop) | | | | 902 | | _ | 1,525 | | 2 | 2,312 | | 3,788 | 88 | | 4.806 | |
| Recurrent (gravel) | /el) | | | 5 | 5,545 | | 80 | 8,801 | | 12 | 12,201 | | 16,637 | 37 | | 20,789 | |
| Recurrent (earthen) | hen) | | | 1 | 11,524 | | 6 | 9,864 | | φ´ | 8,331 | | 5,341 | - | | 3,383 | |
| Periodic (blacktop) | top) | | | | | | | | | | | | , | | | 1 | |
| Periodic (gravel) | - | | | | | | | | | | | | ' | | | | |
| Improvement | Cost | BT | GR | 40,234 | BT | GR | 44,257 | BT | GR 48,683 | | BT G | GR 53, | 53,551 BT | r GR | 58,906 | BT | GR |
| 232M15B014 | 6,745 | ٠, | 1.50 | 6,745 | • | 1.50 | , | | | | | | | , | , | , | |
| 232M15C044 | 3,864 | | 1.76 | 3,864 | | 1.76 | | | | | | | | | | | . ' |
| D 232M15B019 | 3,990 | | 1.81 | 3,990 | • | 1.81 | | | | | | | | | | | |
| 232M15C017 | 5,613 | | 2.55 | 5,613 | | 2.55 | | | | | | | | | | , | |
| 232M15C037 | 5,035 0 | 0.43 | 1.17 | 5,035 | 0.43 | 1.17 | | ÷ | ÷ | | | | | | | | |
| 232M15C014 9,584 | - | 1.21 | | 9.584 | 1.21 | | | | | | | | | | | | |

| | - | 1 | | | I seems of the see | | | | 1 | | | • | | | - | | - | | 1 | | |
|--|------------|------------|--|------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | - Company | 1 | - Control of the Cont | 1 | | | | | | | 1 | | | , | | - | | | | | |
| 1 | - | | - Controller and Control | | • | • | | • | | | | | | | | | | | | | |
| | | • | - Total surface settle | • | | • | • | | | | 1 | | | | | | | | | | • |
| | | 1 | | | 1 | | | | 1.44 | 1.18 | 1.23 | | 0.19 | 1.27 | 1.63 | 0.17 | 2.40 | 0.75 | 1.08 | 0.78 | 0.29 |
| | ١ | | . 1 | | • | | 1 - | | 1.32 | . 6 | 61 | | ٠ | • | | | | | | 0.53 | 1.10 |
| 04.1 04.1 04.1 04.1 04.1 04.1 04.1 04.1 | | + | - (| - 8 | - 5 | - 8 | | | 5 10,701 | 2,589 | 2,712 | | 424 | 2,784 | 3,577 | 380 | 5,278 | 1,645 | 2,385 | 4,738 | 7,639 |
| 0.53 | 0.61 | 1.34 | 0:30 | 0 1.28 | 0.56 | 1.28 | 11.51 | - 2 | 90.0 50 | | • | | 1 | | ٠ | | | | • | | |
| | 5 | | • | 7 0.20 | | | 4 0.4] | 2 0.92 | 0.05 | | | | ٠ | | | | ' | | • | | |
| 2,369 | 4,635 | 2,948 | <i>L</i> 99 | 3,957 | 1,223 | 2,807 | 5,634 | 5,242 | 411 | | | | • | | • | | • | | | | 1 |
| 0.90 | - | | • | | | | | | | | | | • | | 1 | | ٠ | | | | |
| | | | ٠ | | ٠ | | • | • | ٠. | | | | • | | | | • | | • | | |
| 5,402 | - | | -1 | • | • | • | | • | | | | | • | • | | • | | | • | • | |
| 3.60 | 19.0 | 1.34 | 0.30 | 1.28 | 0.56 | 1.28 | 1.51 | | 1.49 | 1.18 | 1.23 | • | 0.19 | 1.27 | 1.63 | 0.17 | 2.40 | 0.75 | 1.08 | 0.78 | 0.29 |
| | | | | 0.20 | | | 0.41 | 0.92 | 1.37 | | • | | | | ı | | | | • | 0.53 | 1.10 |
| 7369 | 4,635 | 2,948 | 299 | 3,957 | 1,223 | 2,807 | 5,634 | 5,242 | 11,112 | 2,589 | 2,712 | | 424 | 2,784 | 3,577 | 380 | 5,278 | 1,645 | 2,385 | 4,738 | 7,639 |
| 232M15C027 19,767 | 232M15D034 | 232M15B010 | 232M15D015 | 232M15D044 | 232M15D001 | 232M15C050 | 232M15C040 | 232M15B006 | 232M15C047 | 232M15C001 | 232M15C030 | 232M15B004 | 232M15D014 | 232M15B005 | 232M15D024 | 232M15D025 | 232M15C038 | 232M15D019 | 232M15C048 | 232M15B007 | 232M15C021 |

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| Sw. | | CI | 4 | स | 23 | 23 | F | J | ы | en e | 4 |
|-----------|----------------|------------|------------|------------|------------|--|-------------------|--------------|------------|--|---------------|
| 232MISDOO | 232MISB012 972 | 232M15C045 | 232M15C035 | 232M15C039 | 232M15C008 | 232M15D026 | Total improvement | Construction | 232M15D082 | Total new co | F Remaining b |
| 308 | 972 | 3,431 | 1,876 | | 1,449 | 15,757 | ment | Cost | 117,4 | construction | g budget |
| | • | | | | | • | | 5 | | E . | |
| 0.18 | 0.44 | 1.56 | 0.85 | 1.13 | 99.0 | 0.18 | | GR | | | |
| 4 | | Ī | | | • | The second secon | 40,234 | 16,093 | 16,093 | 16,093 | |
| | | • | • | | | 1 | 1.64 | G | | · | |
| • | | | | | | | 9.78 | GR | | | |
| | | , | | | | | 44,257 | 17,703 | 17,703 | 17,703 | |
| | | | 1 | • | | , . | 8 8 | 5 | | • | |
| | | | • | -1 | • | | 10. 4 | GR 1 | 3 | 31 6 | |
| 1 | | | | i | | ı | 48,68 2 | 19,47 | 19,47 3 | 19,47 3 | |
| | | er Pi | | | | | 2.95 14.0 | GR | | | |
| • | | | | | | | 4.0 53, 1 | 21,42 0 | 21,42 | 21,42 | |
| • | | | | | | | 53,55 2.1 1 | 2 | 7 | 7 | |
| | • | • | | • | | | 2.04 12.4 | GR | | , | |
| 398 | 972 | 3,431 | 1,876 | 20,192 | 1,449 | 1,869 | 4 58,90 | 23,56 2 | 23,56 | 23,56 2 | |
| 81.0 - | - 0.44 | • | | 0.73 | | ' | 2.5 | GR | | | |



CHAPTER 7: Conclusion

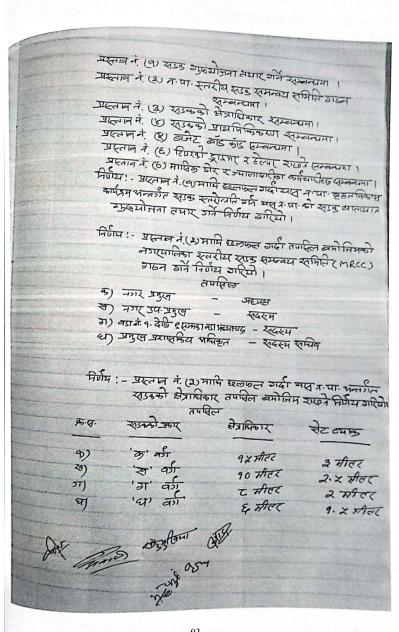
Road transportation is most crucial for socio-economic development of district. Municipality should give more emphasis on resource collection and its proper allocation and efficient mobilization. This MTMP will guide for this purpose. The MTMP is the result of studies considering socio-economic, environmental analysis and potentiality of various sectors as well as the accessibility to transport facilities in the Municipality, which will draw the future scenario of the Municipality and rural road development. MTMP focuses on existing transportation situation, expected future road network accessibility and socio-economic benefits. It provides directives on utilization of the local resources by local institutions as well as other development agencies in line with the decentralization and local self-government act. In addition, it will provide Government and other donor agencies a rational basis on which to decide on future investments efficiently that will improve district transport accessibility situation.

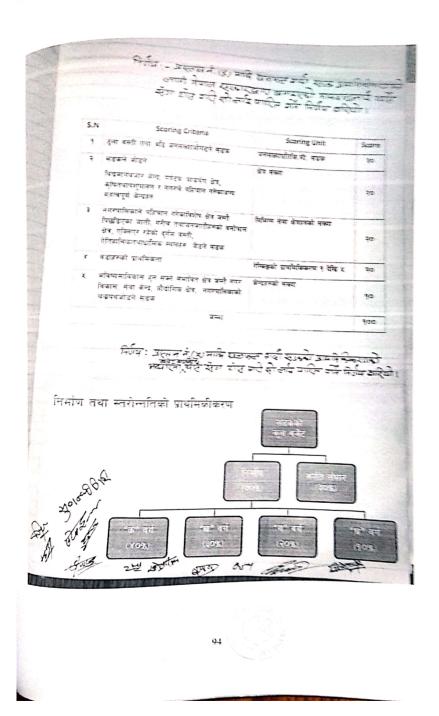
The proposed interventions are reflection of the requirement of Municipality to improve accessibility of people on goods and services and planned on current trend of financial resource availability.

It is strongly recommended that Municipality shall strictly follow the MTMP particularly in the Perspective Plan of Municipality Road Network in deciding the sub-projects to be undertaken for development for future even beyond the five-year period. Strong commitment from all stakeholders is necessary for its implementation. It is also suggested that the MTMP shall be revised at the end of every fifth year evaluating the previous planning and implementation. Municipality should go ahead with required revisions if the Municipality development potentials have changed tremendously.



Minutes आज फिलि २०७४ वाल माद्य वक्षातिकारका दिन दिनदेश्या वन यत परोहत न पान्या नगर् प्रमुख श्री होत्य वित्र वहरी। अध्यसतामा तपातिल्या वदाविद्यारीस म्या स्त्रीकारमास को उपस्थितियां केटह क्षिया। न भी बोस निका नगर छात 2- अभी खुगन्धी जिले नगर उप-अपुल वे भी मोल जिम्हलाह बरा कट्यहाबरार १ ४. भी मो. एनणु रहमान न्या भव्यसन्यारं १ ४. भी महेबा सिंह बडा ऋसस बडा रं ३ Sande GATE ६. भी जनास्य राष्ट्र याद्व वडा प्रस्पा वडा रे 6.9दी मो. नेजामुहित व्या अस्यस्वा रं.४ ८. भी जिलेल्ड कुमार वडा अस्यस्वा रं.६ ८. भी रपुनाय प्रकारना वडामामा वडा में ६ १०. भी खेंदु मुख्या नित्र वत भग्नाम वडारं र रकेड मिनिय ११. भी ब्रोल इनुए वडा महम्म वडा रंड 元 92. भी ब्रामला हमत क्षिपालिका प्रदेश 001 93. भी मोहरलान सम कार्यपामिश (बिस्म १४. भी राम प्रजाद हाकु (जीहा " 1x. श्री रामाणाते देवी पालवान "1 " भाभावती 96. अरी राजकलीया देनी 98. भी अनिखन एएन 20. श्री देवनाय यादव पु. प. प्रायहत २व. भी अळदुल ख भेलपे नाज २२. , दीर्जेन न्याप थार्यन अंजीनेका १३. अमेम प्रकार प्रवाड - रूव-रेजिनियर ४४ " राज श राज भाइत ट्याहित ४४ १ जिस्स अस्ट जनीतीया २६ " स्ट्यी मान थापा सक्रपोठा ई. ४६, " राज्यन किर्दो पर्योज गांच







Ward level meeting



Exiting road condition at municipality area



Exiting road condition at municipality area



Initial orientation workshop



Municiapl representatives



Initial orientation workshop

