



Mallarani Rural Municipality

The Office of the Rural Municipality

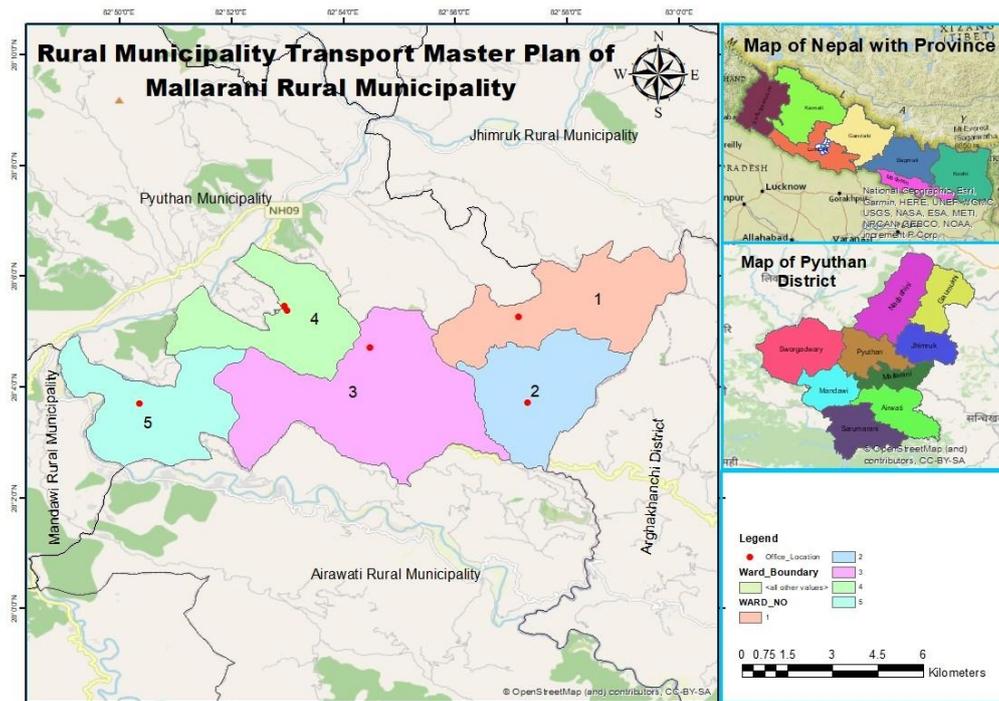
Khalanga, Mallarani-4, Pyuthan

Lumbini Province, Nepal

Rural Municipality Transport Master Plan

(RMTMP)

Final Report



Prepared By:

Human Development Consultancy and Research

Center Pvt. Ltd.

Mallarani-4, Khalanga, Pyuthan

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Acknowledgement

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Ultimately, the project team wishes to convey their gratitude to all staff and colleagues for their dedicated support throughout the study period, as well as for their collaboration and insightful feedback.

Human Development Consultancy and Research Center Pvt. Ltd.

Mallarani-4, Khalanga

Executive Summary

A Municipal Transport Master Plan (MTMP) refers to the procedure of determining, categorizing, and ranking roads within a municipality; the construction, upgrading, maintenance and rehabilitation of prioritized roads following specific prioritization criteria and budget calculations. The Mallarani Rural Municipality is divided into 5 wards, with Khalanga declared as the administrative center of the rural municipality. The rural municipality has spans of 80.09 square kilometers of area, with a total population of 20,664 according to Mallarani Rural Municipality Digital Profile. The geographical map of Nepal shows that its latitude lies on 2802 to 2807 and longitude lies on 82049 to 83011. It has Arghakhanchi district in the east, Jhimruk and Pyuthan municipality in the north, Mandawi rural municipality and Pyuthan municipality in the west and Airawati rural municipality in the south.

The total road length in the Mallarani Rural Municipality is 237.90 km. There are 29 Class A roads, 41 Class B roads, 32 Class C roads, 1 Class D roads, and 4 DRCN roads with lengths 117.20 km, 72 km, 25.60 km 0.20 km, and 22.90 km respectively. The length of the blacktop road is 19.50 km, and the earthen road is 208.40 km. The prioritization and ranking for different rural road linkages are calculated as per population served is 40 marks, road network unconnected with population is 20 marks, traffic flow is 20 marks and the rural municipality priority is 20 marks, altogether is 100 marks. The road which has obtained the highest mark is ranked first and lowest ranked last for different Classes of road.

The Khalanga-Chujathati-Jogitari road “503DR004” is ranked first for the DRCN road network. This road network has already been upgraded to blacktop standards, but it still needs emergency and routine maintenance to make road network serviceable during the rainy season, since it helps the road user to save travel time and increase the economic activities of the Mallarani Rural Municipality. Other roads are prioritized which only need to be upgraded from earthen to gravel road standards with single-lane road standards. Similarly in the case of the Class A road, Deurali-tham-solahalna-road “503RM07A007” is ranked first for the Class A road network. This road network needs a connection between the lower and

upper belt of Ward no 01, as there is no road access between them. The priority is new construction and later, upgrading from earthen to gravel road standards.

The total budget allocated for road construction and maintenance in FY 2081/82 is NRs. 86,054,000.00. It is necessary to allocate 70% of this budget for construction and 30% for the maintenance of roads over the next five fiscal years to ensure the smooth operation of the road network. The budget for the road construction sector will be divided further, with 40% dedicated to Class A roads, 30% to Class B, 20% to Class C, and 10% to Class D. Considering the budget available in the Mallarani Rural Municipality, the projected total cost by the end of FY 2086/87 is NRs. 753,293,000. In the same way, the total estimated cost for road construction by the end of FY 2086/87 is NRs. 121161000, which represents 70% of the total budget, while the projected total cost for road maintenance at the end of the fiscal year is NRs. 51924000, representing 30% of the total budget.

Based on the cost analysis and estimate, the calculated cost is only the tentative cost of the work activities as it is calculated upon the standard costs. To determine the actual cost, detailed project reports (DPR) need to be prepared for each road. The proposed interventions reflect the requirement of the Mallarani Rural Municipality to improve the accessibility of people's goods and services and are planned as per the current trend of financial resource availability.

Table of Contents

Acknowledgement	i
Executive Summary	ii
Table of Contents	iv
List of Tables	vii
List of Figure	ix
Abbreviations	x
Chapter-1: Introduction	1
1.1 Background	1
1.2 Objective of RMTMP	2
1.3 Scope and Limitation of RMTMP	3
1.3.1 Scope of RMTMP.....	3
1.3.2 Limitation of RMTMP	3
1.4 Approach and Methodology	4
1.5 Study Area.....	5
Chapter-2: Review of Existing Infrastructure Situation	7
2.1 Assessment of Existing Infrastructure Situation	7
2.2 Visionary City Development Plan.....	8
2.3 Constraints in the Implementation of RMTMP	9
Chapter-3: Indicative Development Potential Map	10
3.1 Rural Municipality Profile	10
3.2 Potential Development Areas.....	13

3.3 Indicative Development Potential Map (IDPM).....	14
Chapter-4: Rural Municipality Inventory Map of Road Network.....	15
4.1 Rural Municipal Roads	15
District Roads	24
4.3 Right of Way for Roads of Different Classes	26
4.4 Urban Road Classification	27
4.4.1 National Highways	28
4.4.2 Feeder Roads	28
4.4.3 Class A Roads	28
4.4.4 Class B Roads.....	29
4.4.5 Class C and Class D Roads	29
4.5 Typical Cross Sections of Municipal Roads	29
4.5.1 Road Class A (Main Collector).....	29
4.5.2 Road Class B (Other Collector Roads)	30
4.5.3 Road Class C (Tole Roads)	30
4.5.4 Road Class D (Other Tole Roads)	31
4.6 Coding of Rural Municipality Roads.....	31
Chapter -5: Perspective Plan of Rural Municipality Transport Network.....	33
5.1 Process and Procedure for Collection of Demand.....	33
5.2 Scoring System for Screening, Grading and Prioritization.....	33
5.2.1 Population Served.....	34
5.2.2 Population Unconnected	35
5.2.3 Traffic Category.....	35
5.2.4 Rural Municipality Priority	35
5.3 Perspective Plan Framework for the Rural Municipality Roads	43
5.4 Intervention Categories	49

5.4.1 Conservation	49
5.4.2 Improvement	54
5.4.3 New Construction	54
5.5 Cost Estimation	60
5.5.1 Conservation	60
5.5.2 Improvement	66
Chapter-6: First Five Year Rural Municipality Transport Master Plan.....	77
6.1 Prioritized Rural Municipality Road for RMTMP.....	77
6.2 Five year Projected Financial Plan	80
6.3 Sharing of Funds.....	81
6.4 Year-wise Targets.....	84
Chapter-7: Discussions and Conclusions.....	86
Annex - I: Rural Municipality Map.....	89
Annex - II: Minutes of Meeting	92
Annex - III: List of Roads in Mallarani Rural Municipality.....	103
Annex - IV: Photo	109

List of Tables

Table 1: Ward-wise Area, Population and Households within Rural Municipality.....	11
Table 2: Details of Temples and Monasteries in Mallarani Rural Municipality.....	14
Table 3: Summary of Road Class “A” Road	16
Table 4: Summary of Road Class “B” Road	18
Table 5: Summary of Road Class “C” Road	21
Table 6: Summary of Road Class “D” Road	24
Table 7: Summary of Road DRCN Road	25
Table 8: Road Class and Features	26
Table 9: Coding of Rural Municipality Roads	32
Table 10: Criteria for Prioritization for Ranking of Rural Road Linkage.....	34
Table 11: List of Roads for Rural Municipality Perspective Plan of DRCN.....	36
Table 12: List of Roads for Rural Municipality Perspective Plan of Class A Road.....	36
Table 13: List of Roads for Rural Municipality Perspective Plan of Class B Road	38
Table 14: List of Roads for Rural Municipality Perspective Plan of Class C Road	41
Table 15: List of Roads for Rural Municipality Perspective Plan of Class D Road.....	43
Table 16: Rural municipality transport perspective plan	45
Table 17: General summary according to road type	48
Table 18: General summary according to ward wise road class	48
Table 19: General summary according to ward wise road surface	48
Table 20: Conservation requirements for different roads	50
Table 21: Improvement requirements for different roads.....	55
Table 22: Standard unit costs for conservation	60
Table 23: Estimated conservation costs for the first year (NPR ‘000).....	61
Table 24: Standard unit costs for improvement and new construction.....	66
Table 25: Estimated improvement costs for the first year (NPR ‘000).....	68
Table 26: List of Prioritized Road for Rural Municipality Transport Plan for DRCN Road	77
Table 27: List of Prioritized Road for Rural Municipality Transport Plan for Class-A Road.....	77
Table 28: List of Prioritized Road for Rural Municipality Transport Plan for Class-B Road	78
Table 29: List of Prioritized Road for Rural Municipality Transport Plan for Class-C Road	79

Table 30: List of Prioritized Road for Rural Municipality Transport Plan for Class-D Road.....	80
Table 31: Budgeted Amount of Mallarani Rural Municipality for Road Sector	81
Table 32: Forecasted Financial Plan of Rural Municipality in Road Sector.....	83
Table 33: Forecasted Financial Plan for Intervention of Rural Municipality in Road Sector ...	83
Table 34: Forecasted Financial Plan of Rural Municipality in Road Construction	84
Table 35: Forecasted Financial Plan of Rural Municipality in Road Maintenance	84

List of Figure

Figure 1: Mallarani Rural Municipality.....	1
Figure 2: Flow chart of RMTMP preparation	5
Figure 3: Detail of Ward wise division of Mallarani Rural Municipality	6
Figure 4: Age-Group-Wise Population Distribution.....	11
Figure 5: Caste Wise Population Distribution	12
Figure 6: Literacy Rate in Rural Municipality	13
Figure 7: Population by Educational Attainment.....	13
Figure 8: Detail Description of Road Class	28
Figure 9: Typical Cross-section for Class A Roads (with RoW 15 m).....	30
Figure 10: Typical Cross-section for Class B Roads (with RoW 10 m).....	30
Figure 11: Typical Cross-section for Class C Roads (with RoW 8 m).....	31
Figure 12: Typical Cross-section for Class D Roads (with RoW 6 m)	31
Figure 13: Budget Allocation for Planning of Rural Municipal Road	82

Abbreviations

ARMP	Annual Road Maintenance Programme
DCC	District Coordination Committee
DoLIDAR	Department of Local Infrastructure Development and Agriculture Road
DoR	Department of Road
DTICC	District Transport Infrastructure Coordination Committee
RMTMP	Rural Municipality Transport Master Plan
DTMP	District Transport Master Plan
DTPP	District Transport Perspective Plan
DPR	Detailed Project Report
GIS	Geographical Information system
GPS	Global Positioning System
GoN	Government of Nepal
VDC	Village Development Committee
DRCN	District Road Core Network
RMTTP	Rural Municipality Transportation Perspective Plan
RMRCN	Rural Municipality Road Core Network

Chapter-1: Introduction

1.1 Background

Mallarani Rural Municipality is located within the Pyuthan District of the Lumbini Province of Nepal. The previous different VDCs were merged to established different wards after established to Provincial Government to form Mallarani Rural Municipality. Ward no 1 was established by merging Chunja VDC (ward no. 1-4). Ward no 2 was established by merging Chunja VDC (ward no. 5-9). Ward no 3 was established by merging Dharampani VDC (ward no. 1-9) and Raspurkot VDC (ward no 6-9). Ward no 4 was established by merging Pyuthan municipality (ward no 1,2,3 & 5) and Khalanga VDC (ward no 1-7 & 9) and Ward no 5 was established by merging Khaira VDC (ward no 1,2,4,5 & 9). Mallarani Rural Municipality is divided into 5 wards, with Khalanga declared as the administrative center of the rural municipality. The rural municipality has spans of 80.09 square kilometers of area, with a total population of 20,664 according to Mallarani Rural Municipality Digital Profile. The

geographical maps of Nepal shows that its latitude lies on 2802 to 2807 and longitude lies on 82049 to 83011. It has Arghakhanchi district in the east, Jhimruk and Pyuthan municipality in the north, Mandawi rural municipality and Pyuthan municipality in the west and Airawati rural municipality in the south, the detail is show in figure-1.

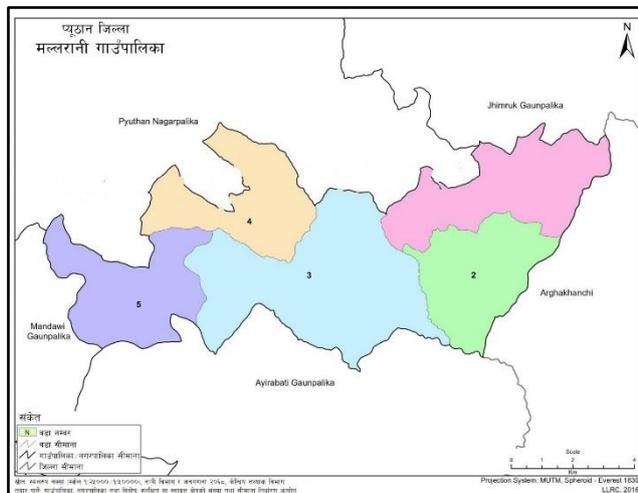


Figure 1: Mallarani Rural Municipality

According to Mallarani Rural Municipality Digital Profile as published in official webpage the mallarani rural municipality webpage (<https://mallaraniprofile.hamropalika.org/home>) it has total population of 20,664 population with 10,578 (51%) males, 10,083 (49%) females and 3 (0.01%) others. Out of total wards, ward number 4 had the largest population 5601, while ward number 1 had least number of populations with 3222. With respect to the number of households, the Mallarani Rural Municipality had total 3,468 households with average family

size is 5.96%. The ward number 5 had most households with total 945, while ward number 5 had least number of households with total 494 number of households. People of different caste and religion live in this rural municipality, and they celebrate different types of tradition festivals like Dashain, Tihar, Maghe, Holi, Krishna janmasthan etc.

Physical infrastructure development has been extremely in slow-moving especially in rural level in Nepal since long due to extended political condition and transition. Development of transportation infrastructure is one of the most essential groundworks for initiating other possibilities of development. Proper development of transportation system opens accessibility of the people to larger markets, service centers and overall economic sectors. Development of roads also leads to the development of urban centers with facilities like hospitals, schools, markets, services etc. Roads establishment makes a significant linkage with the large neighboring cities with increase in economy activities, human activities and transactions. This sort of linkage is key for the development of rural areas. Therefore, development of transportation basically through the development of road linkages is a fundamental necessity of the Rural Municipality. It must prioritize the development of sustainable Rural Municipal Transport Master Plan which requires inception of opportunities of all kinds of development in general through easy access to people's mobility.

RMTMP is a long-term visionary plan which aims to systematize the road and transport development processes within the Rural Municipality. It identifies the roads and creates a complete inventory of the roads. It categorizes the roads into four classes A, B, C, and D according to their importance. It prioritizes the interventions and allocates the estimated budget for the necessary interventions. Above all, it systematizes the process of road and transportation development according to the need of the Rural Municipality.

1.2 Objective of RMTMP

The main objective of the study is to prepare a comprehensive Rural Municipality Transport Master Plan (RMTMP) of Mallarani Rural Municipality, Pyuthan District, Lumbini Province for the integrated development of road transport and to improve its transport situation within the rural municipality. The specific objectives of the RMTMP are as follows.

- To assess the existing transport infrastructure within the Rural Municipality

- To identification, classification and prioritization of Rural Municipality Roads.
- To prepare Rural Municipality Transport Perspective Plan.
- To prepare Rural Municipality Transport Master Plan and Priority Investment Plan.

1.3 Scope and Limitation of RMTMP

1.3.1 Scope of RMTMP

The scope of the works and services of the consultant for this study are given below.

- Review of the existing RMTMP if any and other relevant information.
- Accessibility data collection and analysis.
- Prepare the Indicative Municipality Development Potential Map (IDPM).
- Collection of demands for new/upgrading/rehabilitation transport linkages from wards/settlements.
- Developing Scoring Criteria and ranking road network.
- Road classification and nomenclature.
- Analyze Fund Availability for Roads.
- Preparation of Perspective Plan of interventions of services and facilities.
- Preparation of the Municipal Transport Master Plan (MTMP).
- Prepare a realistic Physical and Financial Implementation Plan of prioritized roads for the MTMP period.

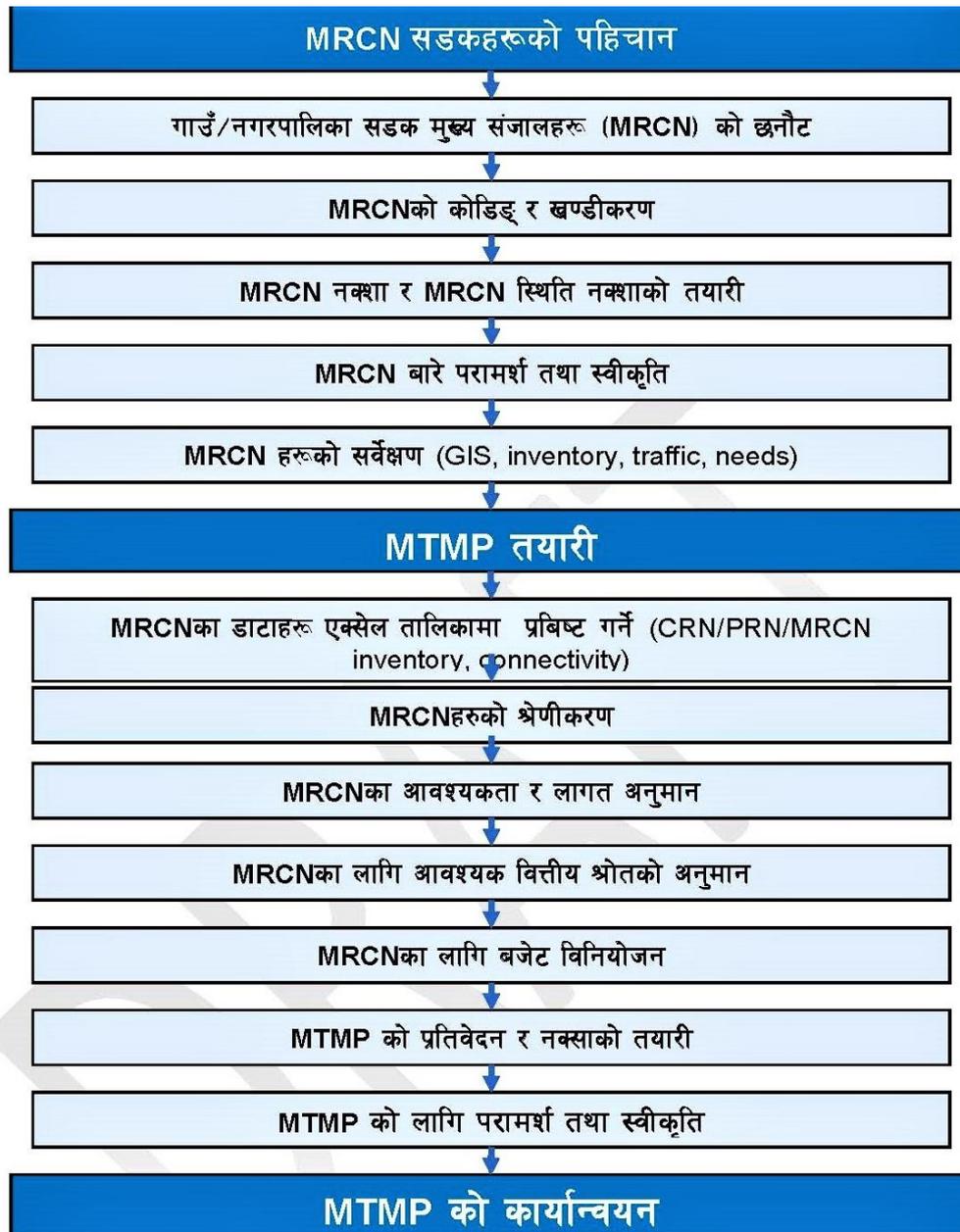
1.3.2 Limitation of RMTMP

This rural transport master plan is limited within the territory of this Rural Municipality. Since the data collected for the planning was based on the information provided by the local stakeholders in the ward levels. Although enumerators have attempted their best to reach all the roads for the necessary data, there are chances of missing the data to some extent. Misnaming of the road may occur due to pronunciation error or hearing problems by the respondent as well as enumerators. Chances of error may occur during data entry and tabulations too. The scale used to work on GIS is also likely to generate some errors. Though

such limitations and errors are obvious, attempts have been made to minimize such errors taking precautions in the error prone areas.

1.4 Approach and Methodology

Rural 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 political parties, line agencies, municipality officials is crucial. The Rural Municipality Road Coordination Committee (MRCC) is constituted as an authorized legislative body of municipality. The detail procedure for the preparation of rural municipality transport master plan is given in figure-2.



Source: MTMP Guidelines, 2019

Figure 2: Flow chart of RMTMP preparation

1.5 Study Area

Mallarani Rural Municipality lies in the Pyuthan District of the Lumbini Province of Nepal. The previous different VDCs were merged to established different wards after established to Provincial Government to form Mallarani Rural Municipality. Ward no 1 was established by merging Chunja VDC (ward no. 1-4). Ward no 2 was established by merging Chunja VDC (ward no. 5-9). Ward no 3 was established by merging Dharampani VDC (ward no. 1-9) and Raspurkot VDC (ward no 6-9). Ward no 4 was established by merging Pyuthan municipality

(ward no 1,2,3 & 5) and Khalanga VDC (ward no 1-7 & 9) and Ward no 5 was established by merging Khaira VDC (ward no 1,2,4,5 & 9). Mallarani Rural Municipality is divided into 5 wards, with Baraula declared as the administrative center of the rural municipality. The detailed information of study area of Mallarani Rural Municipality for RMTMP preparation is given in figure-3.

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३	धरमपानी	१-९	
	रस्पुरकोट	६-९	
४	प्यूठान	१-३,५	
५	प्यूठान	१८	

Source: Rajapatra, MoFALD, 2018

Figure 3: Detail of Ward wise division of Mallarani Rural Municipality

Chapter-2: Review of Existing Infrastructure Situation

2.1 Assessment of Existing Infrastructure Situation

The road inventory and GPS surveys conducted within Mallarani Rural Municipality have revealed that the overall transport infrastructure, primarily road network appears to be in weak condition in this Rural Municipality. Geographically Mallarani Rural Municipality is scattered in hilly terrain areas. Because of being in a geographically less accessible region, this Rural Municipality lags far behind in terms of road infrastructures due to inferior road quality characterized by muddy and dusty features.

These roads will ensure reliable access in terms of social services and livelihood measures and help contribute to opening up new avenues of micro enterprises and tourism promotion both from the long term and short-term perspectives. At present, except main road passing through Mallarani Rural Municipality office from starting Bagdula remaining roads are fair weather roads. These roads need an upgrading to blacktop standards. The remaining roads are difficult to pass through during the heavy rains and need excavation of earthwork to support passing the vehicles.

Most of the roads in this Rural Municipality do not have basic road furniture and lack basic structural components like culverts, cross structures (cause ways, pipe culvert, box culvert, slab culvert), check dams, chutes, side drains. The slope cutting of the roads is basically done through heavy equipment viz. dozers and excavators without proper management of the slopes though the Rural Municipality envisions environment friendly road construction practices. No balance of cut and fill was observed in the construction practices posing high risk of landslides and soil erosion in different road sections of the Rural Municipal roads. Provision of check dams, chutes, bioengineering etc. play a major role for mass balance which ultimately helps to maintain the essence of green road technology essential to be introduced in the municipal level road construction measures. All these facts indicate that the overall development of road transportation is at the elementary stage in Mallarani Rural Municipality that requires proper interventions along with prioritized and meaningful investment.

2.2 Visionary City Development Plan

Mallarani Rural Municipality, in its current policy and budget program, has focused on the physical infrastructures. 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.

In terms of transportation and road infrastructure, this Rural Municipality has given due focus on the road network up to the Rural Municipality center from other different places and municipalities/rural municipalities and roads linking the ward centers to link different wards within the rural municipality with road connection. Since the entire RM body is fully aware of the scope of sustainable development, it has given priority to making rural transport master plans for the planned development.

The following are the visionary city plan for the major development potential in following sector.

- Planned Settlement for development of settlement area
- To implement the land use policy in its territory by the establishment of a land use committee.
- To seek technical assistance from the partner agencies to enhance the skill development of the staff.
- Agriculture and agro-based industries produce perishable foods. Perishable foods are likely to spoil, decay or become unsafe to consume if not kept refrigerated at 40 °F or below, or frozen at 0 °F or below.
- Inter-linkages among neighboring districts and municipalities
- The Rural Municipality needs to be cautious on the part of the environmentally friendly sustainable development measures too.
- While developing and utilizing its physical infrastructure, including transport infrastructures, adequate attention should be given in terms of balancing or sustaining the local environment.
- RM intends to invest on agriculture, livestock, agro based and forest based industry, commerce and tourism sectors (religious, trekking, homestay, eco-tourism, agro-

tourism and others) to attain its long term goal of the safe, beautiful and prosperous Mallarani Rural Municipality.

2.3 Constraints in the Implementation of RMTMP

Road network is believed to be the lifeline of any infrastructure development. Since the existing condition of roads in the Rural Municipality is not that encouraging, large portion of budget is required to address the problem of road upgrade and maintenance. This budgetary problem is truly a major obstacle to the timely implementation of the RMTMP. Besides this, the other constraints are as follows:

- Problem of connecting the scatter settlements in hilly terrain with roads which is always expensive
- Natural hazard (Landslides and soil erosion) and manmade hazard triggered fuel and energy crisis
- Lack of technology and stability crisis in terms of working environment
- Lengthy procurement process for hiring construction work/contractors
- Lack of qualified manpower and accountability in terms of different level of stakeholder-ship.
- Lack of smooth supply of construction materials.
- The major constraint for the implementation of MTMP is to provide sufficient right of way of the roads.
- The budget is also the main constraint for the implementation of the RMTMP. In a year the available budget shall only be sufficient for a few (1 to 2) kilometers 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 Rural Municipality Profile

Geographic Location

Latitude	: 2802 to 2807 North
Longitude	: 82049 to 83011 Easting
Elevation	: 492 - 1882 meters above the sea level

Relative Location

East	: Arghakhanchi district
North	: Jhimruk Rural Municipality and Pyuthan Municipality
West	: Mandawi Rural Municipality and Pyuthan Municipality
South	: Airawati Rural Municipality

Administrative and Political Division

Province	: Lumbini Province
District	: Pyuthan
District Headquarter	: Khalanga
Rural Municipality	: Mallarani Rural Municipality
Number of Ward	: Five

Festivals

Dashin, Tihar, Chaita dashin, Holi, religious celebration, Gai jatra, Ghoda Jatra, Buddha jayanti, Krishna Jayanti etc.

Important Markets

Khalanga

Population and Population Density

Total Population	: 20,664
Male Population	: 10,578 (51%)
Female Population	: 10,083 (49%)
Number of Households	: 3,468
Average Family size %	: 5.96
Population Density	: 258 person/sq.km.

Ethnicity

Magar, Chettri, Brahamin Hilly, Saki, Kami, Gurung, Damai, Thakuri, Newari, Bhujel

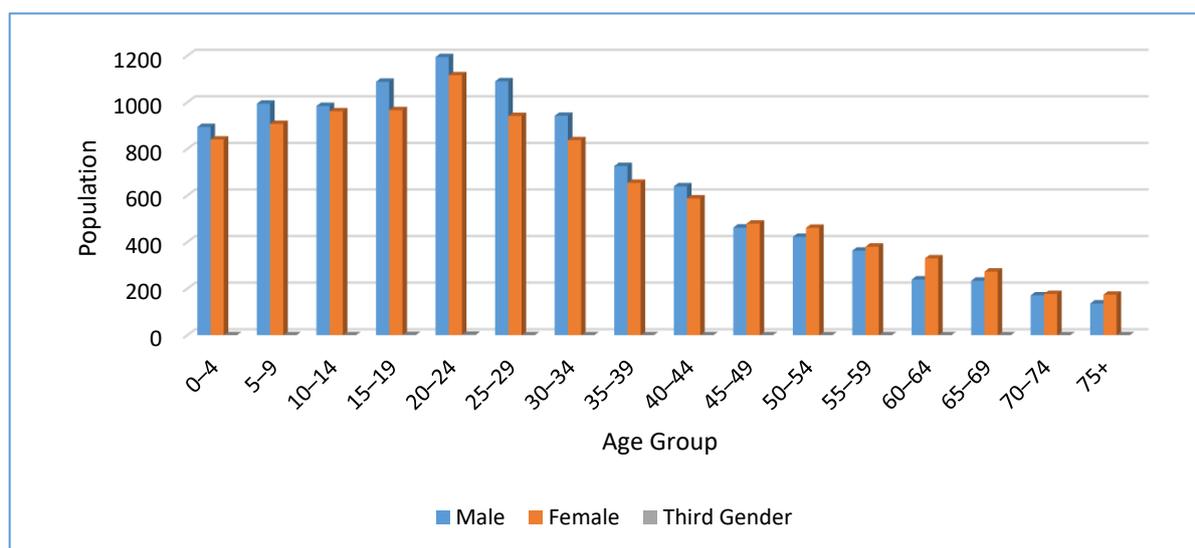
The ward-wise area, population and households within the Mallarani Rural Municipality are shown in table-1. The total population is 20,664 with total households 3,468 and average household per population is 5.96%

Table 1: Ward-wise Area, Population and Households within Rural Municipality

Ward No.	Total Area (sq.km)	Total Household size	Male	Female	Others	Total Population
1	15.53	597	1665	1557	0	3222
2	12.70	684	2031	1881	2	3914
3	26.08	748	2212	2122	0	4334
4	12.34	945	2839	2762	0	5601
5	13.44	494	1831	1761	1	3593

Source: Mallarani Rural Municipality Digital Profile

According to the data from Mallarani Rural Municipality digital profile, the number of age group aged 0-14 is 5,580 (27%), the population of age group 15-45 is 10,783 (52%) and the working age group is 15 to 65 years. 3,136 (15%). The Age-group-wise population distribution is shown in figure-4.

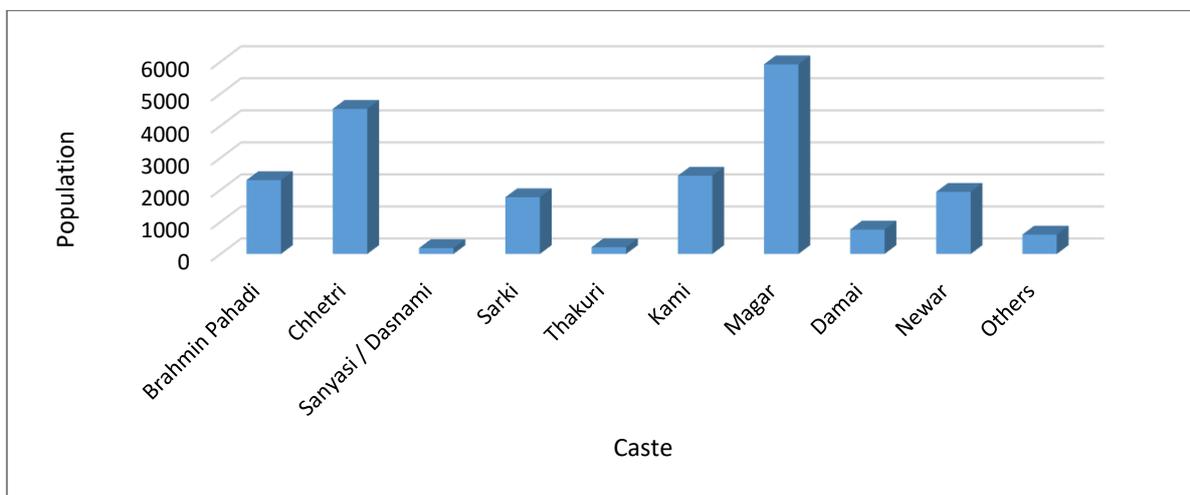


Source: Mallarani Rural Municipality Digital Profile

Figure 4: Age-Group-Wise Population Distribution

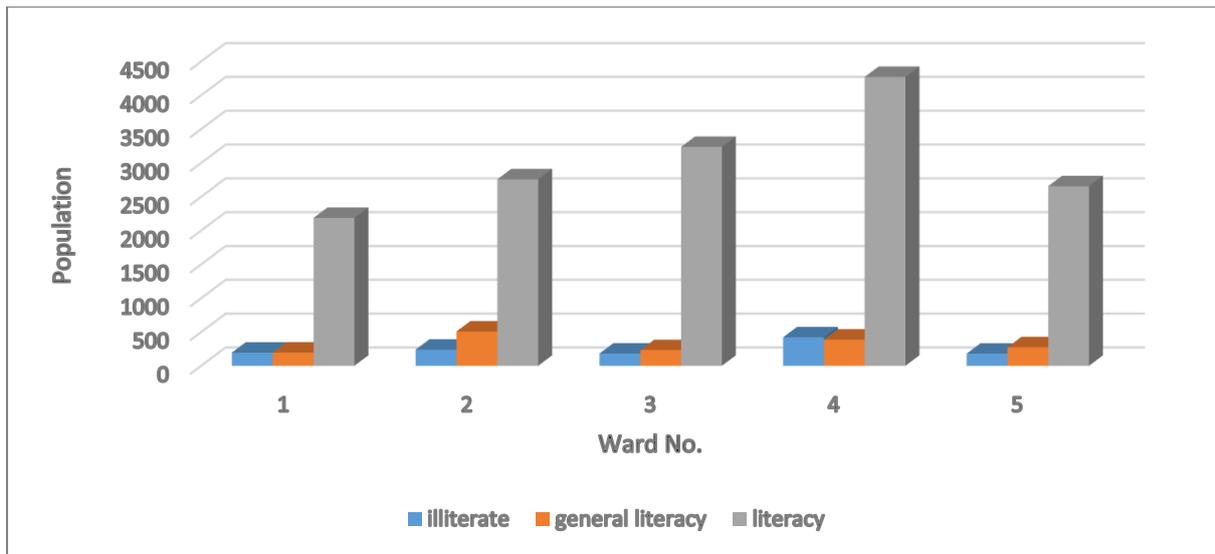
Based on gender, the male population is 10,578 (51%) and the female population is 10,083 (49%) and thus the gap between the female and male population is 495 (2%), and the number of over 64 age group is 1,165 (6%).

Rural Municipality is found to be diverse from the point of view of social structure. According to the latest National Census, 2011 AD, there are more than 40 castes living in Pyuthan district. Thus, in Mallarani Rural Municipality, according to the population of different castes and groups, the highest number of 5,919 Magars (29%), followed by Chhetri 4,528 (22%), Kami 2,443 (12%) and Brahmin Pahadi 2,304 (11%). The details of caste-wise population distribution is shown in figure-5



Source: Mallarani Rural Municipality Digital Profile
Figure 5: Caste Wise Population Distribution

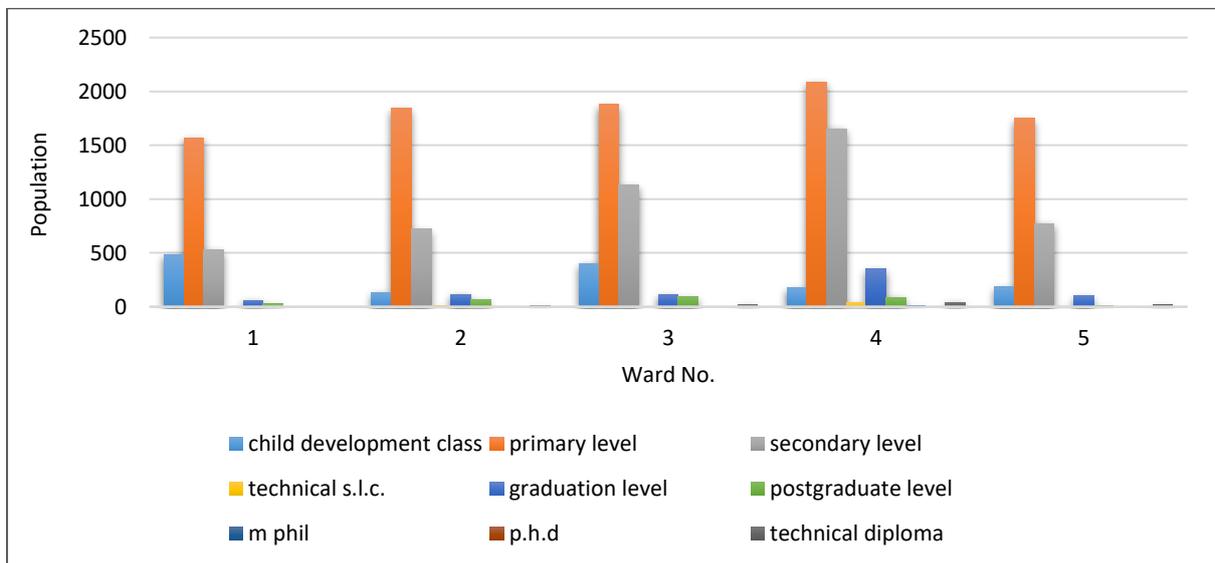
The highest literacy rate in ward no. 4 is 24%, similarly, the lowest literacy rate in ward no. 1 is 12%. The total literacy rate is 67.02 percent. The general literacy highest rate is in ward no. 2 with 3% whereas ward no. 1 & 3 lowest with 1%. The highest illiterate rate is in ward no. 4 with 2%, similarly ward no 1,2,3 & 5 have 1%. 84% of the total population of Mallarani rural municipality is literacy, similarly 9% is general literacy and 7% illiterate. The details of literacy rate is shown in figure-6



Source: Mallarani Rural Municipality Digital Profile

Figure 6: Literacy Rate in Rural Municipality

The various educational levels in Mallarani Rural Municipality of which, 55% of the total population of Mallarani rural municipality has attended the primary level education, whereas 29% have secondary education, similarly 8% have a child development class, and technical SLC is 0.3%. The details of which are shown in figure- 7.



Source: Mallarani Rural Municipality Digital Profile

Figure 7: Population by Educational Attainment

3.2 Potential Development Areas

Rich in natural beauty, abundant biodiversity, multi-ethnic, multi-lingual, multi-religious and social diversity, and rich in historical and cultural heritage, Nepal is well-known as a major

tourist destination on the world tourism map. The details of potential area for visiting different temples and monasteries within the Mallarani Rural Municipality is given in table-2.

Table 2: Details of Temples and Monasteries in Mallarani Rural Municipality

Major Places	Purpose of Visit	Address
Jhakrishthan Mandir	Religious	Jhakrishthan
Zipline	Eco-tourism	Mallarani danda
Thulochaur	Picnic Spot	Ward No - 04
Shivalaya	Religious	
Devi Kot	Religious	
Seismic Station	Earthquake Monitoring	Ward No - 01

3.3 Indicative Development Potential Map (IDPM)

Developing IDPM is a process of mapping potential developing zones where future growth of services and human activities are likely to increase. According to the nature of the zones and their growth trends, future forecasts of transport mechanism can be judged or estimated. This chapter has provided sufficient clues of the zones which are potential from future development prospects and strategically located. Basically, those zones include market centers, agriculture areas, historical and religious areas and so.

The ultimate target point for the development of the area shall be based on visionary plan of the city. The visionary plan, however, itself is insufficient to tell us about the land use plan and the development process. The development of rural municipalities shall be based on the potential of the area, their characteristics and the willingness of the residents. The elaborated form of the visionary plan shall be reflected in a potential map. The transportation system shall be such that, the inter link among these potential area should be efficient with high priority. The Mallarani Rural Municipality is an important destination for internal tourists, however the most of the area near to potential area need to developed with well-equipped facilities and hospitality.

Chapter-4: Rural Municipality Inventory Map of Road Network

4.1 Rural Municipal Roads

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, topography 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 15m. It is highly recommended to have a separate segment for pedestrian and cycle track. At the same time, these roads need to have adequate median strips to segregate vehicles coming from different directions. Altogether 29 roads of Class A have been identified in this RM with total length of 117.20 km. The details of the summary of class-A road are given in table-3.

Table 3: Summary of Road Class “A” Road

Code	Road Name	HHs	Ward Pass	Population	Average Width (m)	Existing Road (Km)				Road Condition		Settlement	Total Length (Km)
						BT	GR	ER	Total	AW	FW		
503RM07A001	Mallarani danda - paryatakiya marg	1234	1,4	3334	3	9.50		4.50	14.00	AW		Mallarani danda - paryatak	14.00
503RM07A002	Todke-sindure road	257	1	1385	3			2.30	2.30		FW	Todke-sidure	2.30
503RM07A003	Todke- budhathapla road	239	1	1289	3			1.30	1.30		FW	Todke- budhathapla	1.30
503RM07A004	Solahalna-sugure road	167	1	902	3			1.30	1.30		FW	Solahalna-sugure	1.30
503RM07A005	Thulachaur-anyar pokhari-alkabanjh-bange road	281	1	1514	3			2.00	2.00		FW	Thulachaur-ayar pokhari-aglabaja-bjabange	2.00
503RM07A006	Solahalna-padime-lukka road	191	1	1031	3			2.70	2.70		FW	Solahalna-padime-lukka	2.70
503RM07A007	Deurali-tham-solahalna-road	507	1	2739	3			0.90	0.90		FW	Deurali-tham-solahalna-	0.90
503RM07A008	Deurali-pani gaira road	227	1	1224	3			1.50	1.50		FW	Deurali-pani gaira	1.50
503RM07A009	Pipalneti-chundari khola-akrate-chuja road	364	1	1965	3			4.20	4.20		FW	Pipalneti-chadure khola-ekrate-chuja	4.20
503RM07A010	Sanilekh - saar ghar road	173	1	934	3			1.90	1.90		FW	Sanilekh saar ghar	1.90
503RM07A011	Chunjathati-kudara-banna-arbaang-deurali road	431	2	2466	3			8.70	8.70		FW	Chunjathati-kudara-baanana-arbaang-deurali	8.70
503RM07A012	Chunjathati-chauja-khauile pokhari road	445	2	2544	3			5.30	5.30		FW	Chunjathati-chauja-khauole	5.30
503RM07A013	Chunjathati-kharindanda-chedaa pokhari-goyalachhedi-solahalna road	568	2	3249	3			5.50	5.50		FW	Chujathati-kharidanda-chheda pokhari-goyalachhedi-solahalna	5.50

Code	Road Name	HHs	Ward Pass	Population	Average Width (m)	Existing Road (Km)				Road Condition		Settlement	Total Length (Km)
						BT	GR	ER	Total	AW	FW		
503RM07A014	Sirsegaira-mundanda-sahutola- barbot-chunjathathi road	636	3	3684	3			9.70	9.70		FW	Sirsegaira-mundanda sahutola- barbot-chunjathathi	9.70
503RM07A015	Dharampani-girichaur-sirkot-sarangkot road	449	3	2600	3			8.20	8.20		FW	Dharampani-girichaur-sirkot-khanidanda-sarangkot	8.20
503RM07A016	Chyantari-chaurpani-airawati-raspurkot road	337	3	1950	3			1.80	1.80		FW	Chyantari-chaurpani-airawati-raspurkot	1.80
503RM07A017	Chaurpani-danda kharka road	411	3	2384	3			2.70	2.70		FW	Chaurpani-danda kharka	2.70
503RM07A018	Airawati-bijuli road	187	3	1084	3			0.70	0.70		FW	Airawati-bijuli	0.70
503RM07A020	Khanepani chowk-tallo lambela-pipal danda road	454	4	2688	3			2.60	2.60		FW	Khanepani chowk-tallo lambela-pipal danda	2.60
503RM07A019	Kabardahall-lambela-Pipal danda road	548	4	3249	3			3.20	3.20		FW	Kabardahall-lambela-Pipal danda	3.20
503RM07A021	Okhararukh-Pokhari danda-Baskhola Road	416	4	2464	3			1.60	1.60		FW	Okhararukh-Pokhari danda-Baskhola	1.60
503RM07A022	Bhanjyang-pandedanda-jhimruk khola	765	4	4537	3			4.00	4.00		FW	Bhanjyang-pandedanda-jhimruk khola-patihalna-bhetipata	4.00
503RM07A023	Saribang khola- khalanga main road	737	4	4369	3			0.90	0.90		FW	Kabardahall-army byarek	0.90
503RM07A024	Jhakrishthan-Bungala Road	331	4	1960	3			2.90	2.90		FW	Jhakrishthan-Bungala	2.90
503RM07A025	Jhimruk-Jhakrishthan-Katrekhola-Guthakaseri Road	898	4	5321	3			3.90	3.90		FW	Jhimruk-Jhakrishthan-Katrekhola-Guthakaseri	3.90

Code	Road Name	HHs	Ward Pass	Population	Average Width (m)	Existing Road (Km)				Road Condition		Settlement	Total Length (Km)
						BT	GR	ER	Total	AW	FW		
503RM07A026	Khalanga-guthakaseri road	576	4	3417	3			1.30	1.30		FW	Khalanga-guthakaseri	1.30
503RM07A027	Khalanga-pipal danda road	709	4	4201	3			2.00	2.00		FW	Khalanga-pipal danda	2.00
503RM07A028	Mathillo Kaseri road	284	4	1680	3			0.70	0.70		FW	Mathillo Kaseri	0.70
503RM07A029	Kumikot- kantrekhola-ramche-jorpokhari-ghorthapa-dhundi-khaira-swasthachauki-kumikot khalanga road (Ringroad)	445	5	3234	3			19.40	19.40		FW	Kumikot- kandrakhola-ramche-jorpokhari-ghorthapa-dhundi-khaira-swasthachauki-kumikot khalanga	19.40

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 10m. The typical cross section of such roads is shown in the 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. Altogether 40 municipal roads have been identified under Road Class B and the total length of which is accounted as 72.0 km. The details of the summary of class-B road are given in table-4.

Table 4: Summary of Road Class “B” Road

Code	Road Name	HHs	Ward Pass	Population	Average Width (m)	Existing Road (Km)				Road Condition		Settlement	Total Length (Km)
						BT	GR	ER	Total	AW	FW		
503RM07B001	Lakuri rukh-majhpani tower-sunar dewauli road	137	1	741	3			1.00	1.00		FW	Lakuri rukh-majhpani tower-sunar dewauli	1.00
503RM07B002	Todke-kamdale road	185	1	999	3			0.50	0.50		FW	Todke-kamdale	0.50
503RM07B003	Aayar pokhari-daha danda road	215	1	1160	3			0.40	0.40		FW	Aayar pokhari-daha danda	0.40
503RM07B004	Aayar pokhari-domahe khola road	197	1	1063	3			0.60	0.60		FW	Aayar pokhari-domahe khola	0.60
503RM07B005	Todke-chadulee-harhunga road	310	1	1675	3			2.00	2.00		FW	Todke-chadulee-harhunga	2.00
503RM07B006	Harhunga-thapkot-deurali road	358	1	1933	3			0.30	0.30		FW	Harhunga-thapkot-deurali	0.30
503RM07B007	Padime-sallithum road	90	1	483	3			0.90	0.90		FW	Padime-sallithum	0.90
503RM07B008	Khacinee danda-pani gairaa road	131	1	709	3			0.80	0.80		FW	Khacinee danda-pani gairaa	0.80
503RM07B009	Chunja-naamreekot-kusundanda road	167	1	902	3			2.20	2.20		FW	Chunja-naamreekot-kusundanda	2.20
503RM07B010	Saar ghar-dewauli danda road	107	1	580	3			0.70	0.70		FW	Saar ghar-dewauli danda	0.70
503RM07B011	Chunja kharka-siute-cheda pokhari road	445	2	2544	3			4.80	4.80		FW	Chujakharka-siute-chhedapokhari .	4.80
503RM07B012	Kudara-bhaisamare-kharindanda road	342	2	1957	3			5.20	5.20		FW	Kudara-bhaisaamare-kharindada	5.20
503RM07B013	Chautara-buchena road	68	2	391	3			0.90	0.90		FW	Chautara-bucchena	0.90
503RM07B014	Kami pokhari-bastari-chitre danda road	274	2	1566	3			3.20	3.20		FW	Kami pokhari-bastari-chitre dada	3.20
503RM07B015	Jimur pani-ramche road	89	2	509	3			2.00	2.00		FW	Jimurpani-ramche	2.00
503RM07B016	Madhukare-bhakunde-Palukathan road	137	2	783	3			1.70	1.70		FW	Madhugare-bhakunde-Palukathan	1.70

Code	Road Name	HHs	Ward Pass	Population	Average Width (m)	Existing Road (Km)				Road Condition		Settlement	Total Length (Km)
						BT	GR	ER	Total	AW	FW		
503RM07B017	Kudara-siute-kharindanda road	96	2	548	3			2.00	2.00		FW	Kudara-siute-kharindanda	2.00
503RM07B018	Mundanda-chunja ward no.01	509	3	2947	3			2.00	2.00		FW	Mundanda-chunja ward no.01	2.00
503RM07B019	Mundanda-bukeni road	314	3	1820	3			0.70	0.70		FW	Mundanda-bukeni	0.70
503RM07B020	Chunjathati- budhdevi-krishi road	127	3	737	3			2.50	2.50		FW	Chunjathati- budhdevi-krishi	2.50
503RM07B021	Dharampani-raijanpani-chaurpani road	322	3	1864	3			5.50	5.50		FW	Dharampani- rajjanpani-chaurpani	5.50
503RM07B022	Girichaur- raspurkot road	284	3	1647	3			2.60	2.60		FW	Girichaur- raspurkot	2.60
503RM07B023	Mundanda-jebindanda-salthanti road	187	3	1084	3			3.30	3.30		FW	Mundanda-salthathi-jebindanda	3.30
503RM07B024	Tindhara-puntola road	198	4	1176	3			1.10	1.10		FW	Tindhara-puntola	1.10
503RM07B025	Bhattechaur-Newar tole road	180	4	1064	3			0.60	0.60		FW	Bhattechaur-Newar tole	0.60
503RM07B026	Lambela-Kota road	284	4	1680	3			1.30	1.30		FW	Lambela-Kota	1.30
503RM07B027	Toprekharka-Kaseri Road	255	4	1512	3			0.90	0.90		FW	Toprekharka-Kaseri	0.90
503RM07B028	Ranitola-army byarek road	151	4	896	3			0.70	0.70		FW	Ranitola-army byarek	0.70
503RM07B029	Sahid smarak park-Campus Road	633	4	3753	3			1.40	1.40		FW	Sahid smarak park-Campus	1.40
503RM07B030	Khalanga-Danda pasal-Gaira-Bazar road	387	4	2296	3			0.50	0.50		FW	Khalanga-Danda pasal-Gaira-Bazar	0.50
503RM07B031	Khalanga-thapa danda-Bijuwar road	321	4	1904	3			1.00	1.00		FW	Khalanga-Bijuwar-thapa danda	1.00
503RM07B032	Guthakaseri- Dhobikhola-Bhanjyang Road	246	4	1456	3			1.00	1.00		FW	Guthakaseri- Dhobikhola-Bhanjyang	1.00
503RM07B033	Guthakaseri-Jhakrishthan road	274	4	1624	3			1.40	1.40		FW	Guthakaseri-Jhakrishthan	1.40

Code	Road Name	HHs	Ward Pass	Population	Average Width (m)	Existing Road (Km)				Road Condition		Settlement	Total Length (Km)
						BT	GR	ER	Total	AW	FW		
503RM07B034	Kajuwa-Samsanghat-Jhakrishthan Road	331	4	1960	3			1.40	1.40		FW	Kajuwa-Samsanghat-Jhakrishthan	1.40
503RM07B035	Woda karyalaya-05-dhundi road	296	5	2156	3			3.90	3.90		FW	Woda karyalaya-05-dhundi	3.90
503RM07B036	Dandaghar-dalit basti road	109	5	790	3			0.80	0.80		FW	Dandaghar-dalit basti	0.80
503RM07B037	Kamerpani-rapchu-sima road	104	5	755	3			2.60	2.60		FW	Kamerpani-rapchu-sim	2.60
503RM07B038	Pipalneta-okhari road	119	5	862	3			1.20	1.20		FW	Pipalneta-okhari	1.20
503RM07B039	Ramche-rithekharka-sarangkot-jorpohari road	287	5	2084	3			3.20	3.20		FW	Ramche-rithikharka-sarangkot-jorpohari	3.20
503RM07B040	Rampani-woda karyalaya-05 road	306	5	2228	3			1.20	1.20		FW	Rampani-woda karyalaya-05	1.20
503RM07B041	patihalna-bhedipata road	247	4	1797	3			2.00	2.00				2.00

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 private transport. Therefore, RoW for this class is designed for single lane pavement. Minimum RoW for such class of roads is allocated as 8m.

The typical cross section of such roads is shown below. There are altogether 32 municipal roads which lie in road class C in this RM where the entire road length of Road Class C has been identified as 26.50km. The details of summary of Road Class “C” Road are given in table-5.

Table 5: Summary of Road Class “C” Road

Code	Road Name	HHs	Ward Pass	Population	Average Width (m)	Existing Road (Km)				Road Condition		Settlement	Total Length (Km)
						BT	GR	ER	Total	AW	FW		
503RM07C001	Ratamata-deurali road	69	1	371	3			0.60	0.60		FW	Ratamata-deurali	0.60
503RM07C002	Chautara-tallo bheg road	99	2	568	3			1.00	1.00		FW	Thulakhet Chautara-tallatol	1.00
503RM07C003	Palukathan-khanni khola-ward office-02 road	144	2	822	3			1.10	1.10		FW	Palukathan-khannikhola-ward office-02	1.10
503RM07C004	Chunjathati-rati pokhari -upallo tole-takuri road	321	2	1840	3			2.10	2.10		FW	Chunjathati-rati pokhari -upallo tole-takuri	2.10
503RM07C005	Majhpokhara-chauramudkhola-ward no.02	191	3	1105	3			1.40	1.40		FW	Barbot-ward no.02-lakhola	1.40
503RM07C032	Dharampani-ammare road	52	3	303	3			2.00	2.00		FW	Dharampani-amare	2.00
503RM07C006	Dharampani- jhankristhan road	71	3	412	3			1.40	1.40		FW	Dharampani- jhakristhan	1.40
503RM07C007	Raspurkot-chaurpani road	75	3	433	3			2.00	2.00		FW	Raspurkot-chaurpani	2.00
503RM07C008	Saraswati Tole marg	99	4	588	3			0.30	0.30			Saraswati Tole marg	0.30
503RM07C009	Khalanga-IDO Road	80	4	476	3			1.50	1.50		FW	Khalanga-IDO	1.50
503RM07C010	Khalanga-Mallarani gaupalika road	132	4	784	3			0.40	0.40		FW	Khalanga-Mallarani gaupalika	0.40
503RM07C011	Toprekharaka-Samsanghat Road	47	4	280	3			0.70	0.70		FW	Toprekharaka-Samsanghat	0.70
503RM07C012	Guthakaseri-Roka Tole Road	85	4	504	3			0.20	0.20		FW	Guthakaseri-Roka Tole	0.20
503RM07C013	Pokhari danda-Samsanghat Road	38	4	224	3			0.60	0.60		FW	Pokhari danda-Samsanghat	0.60
503RM07C014	Salthanti-jebindanda-amilikhola-majhpokhara road	109	4	644	3			0.60	0.60		FW	Pathidanda-Bhuti	0.60
503RM07C015	Majha-Padhera-Khelmaindhan marga	57	4	336	3			0.20	0.20		FW	Majha-Padhera-Khelmaindhan marga	0.20

Code	Road Name	HHs	Ward Pass	Population	Average Width (m)	Existing Road (Km)				Road Condition		Settlement	Total Length (Km)
						BT	GR	ER	Total	AW	FW		
503RM07C016	Bagkhor-Ripa Road	19	4	112	3			0.20	0.20		FW	Bagkhor-Ripa	0.20
503RM07C017	Asharechaur-Picnic spot road	128	4	756	3			1.20	1.20		FW	Asharechaur-Picnic spot	1.20
503RM07C018	Lay khola-Kholabari Road	71	4	420	3			0.40	0.40		FW	Lay khola-Kholabari	0.40
503RM07C019	Ekley pipal-Thulochaur road	28	4	168	3			0.20	0.20		FW	Ekley pipal-Thulochaur	0.20
503RM07C020	Garinarukh-Devimandir road	217	4	1288	3			0.50	0.50		FW	Garinarukh-Devimandir	0.50
503RM07C021	Mallarani danda-Zipline Road	76	4	448	3			0.50	0.50		FW	Mallarani danda-Zipline	0.50
503RM07C022	Khalanga-Swasta Kendra Road	33	4	196	3			0.20	0.20		FW	Khalanga-Swasta Kendra	0.20
503RM07C023	Thapachautari-dalit basti road	104	5	755	3			0.60	0.60		FW	Thapachautari-dalit basti	0.60
503RM07C024	Milanchautari-hingkhola road	64	5	467	3			0.70	0.70		FW	Milanchautari-hingkhola	0.70
503RM07C025	Takura-padherachaur road	35	5	252	3			0.50	0.50		FW	Takura-padherachaur	0.50
503RM07C026	Takura- Baidhya Chaur Road	79	5	575	3			0.80	0.80		FW	Takura- Baidhya Chaur	0.80
503RM07C027	Bajabari-ghaidanda road	124	5	898	3			2.00	2.00		FW	Bajabari-ghaidanda	2.00
503RM07C028	Ghartitola-para road	84	5	611	3			0.40	0.40		FW	Ghartitola-para	0.40
503RM07C029	Darbhone budathoki tole-chautari road	89	5	647	3			0.60	0.60		FW	Darbhone budathoki tole-chautari	0.60
503RM07C030	Ward karyalaya-05-rana tole road	54	5	395	3			0.40	0.40		FW	Ward karyalaya-05-rana tole	0.40
503RM07C031	Bhadaure-panikhola road	32	5	234	3			0.30	0.30		FW	Bhadaure-panikhola	0.30

Summary of road class D

There are altogether 1 municipal road which lie in road class D in this RM where the entire road length of Road Class C has been identified as 0.20 km. The details of summary of Road Class “D” Road are given in table-6.

Table 6: Summary of Road Class “D” Road

Code	Road Name	HHs	Ward Pass	Population	Average Width (m)	Existing Road (Km)				Road Condition		Settlement	Total Length (Km)
						BT	GR	ER	Total	AW	FW		
503RM07D001	Dhundi-panighat road	25	5	180				0.2	0.2		FW	Dhundi-panighat	0.2

District Roads

A total of 22.90 km road falls under district road in this RM. In total there are 4 roads that fall under DCRN in this rural municipality. As per the new criteria, the minimum RoW for the DRCN has been proposed as 20m and is under the process of approval by the government. The details is given in table-7.

Table 7: Summary of Road DRCN Road

Code	Road Name	HHs	Ward Pass	Population	Average Width (m)	Existing Road (Km)				Road Condition		Settlement	Total Length (Km)
						BT	GR	ER	Total	AW	FW		
503DR001	Goyalchhedi- solahalna-markawang road	597	1	3222	3.5			5.30	5.30	AW	-	Goyalchhedi- solahalna-markawang	5.30
503DR002	Chunjathati -Arghakhachi road	684	2	3914	3.5			2.40	2.40	AW		Chunjathati -Arghakhachi	2.40
503DR003	Khaira-Khalanga road	1439	4,5	9194				3.70	3.70	AW		Khaira-Khalanga	3.70
503DR004	Khalanga-Chujathanti-Jogitari road	1693	3,4	9935		11.50			11.50	AW		Khalanga-Chujathati-Jogitari	11.50

4.3 Right of Way for Roads of Different Classes

The DTMP guideline (former DoLIDAR) has explained 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 respectively. The guidelines clearly stated about the setback distance for these roads (having RoW \geq 20.0) as 6.0 m on either side. All these standards shall be applied to the Municipality/Rural Municipality accordingly. The details for different road class and features is given in table-8.

Table 8: Road Class and Features

Road Class	Description	Min. Right of Way (m)	Min. Set-Back Distance (m)
NH	National Highways	As prescribed	As prescribed
FR	Feeder Roads	As prescribed	As prescribed
DRCN	District Roads	As prescribed	As prescribed
A	Main Collector	15.00	3.00
B	Other Collector	10.00	Minimum 2.50
C	Main Tole Road	8.00	Minimum 2.00
D	Other Tole Road	6.00	Minimum 2.00

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 3.0 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. The detail is given below as per Fundamental Guidelines for Settlement Development, Urban Planning and Building Construction-2072 (2015 AD).

१४.३१ अब निर्माण हुने सडकको कुनै पनि बाटोको न्यूनतम चौडाई ६ मी. हुनु पर्नेछ र नापी तथा मालपोत कार्यालयहरूलाई सोही बमिजिमले सेस्ता, नक्सा तथा अभिलेखहरूमा बाटो कायम गरी यस व्यवस्थाको कार्यन्वयन गर्न लेखि पठाउनु पर्नेछ। । यस्ता बाटोमा भवन निर्माण स्वीकृत दिँदा केन्द्रबाट कम्तिमा 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 भू-भाग 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 गर्न सक्नेछ।

१४.३६ नगरपालिका क्षेत्रमा सडक सम्बन्धी ऐन लगायत प्रचलित कानूनले तोकेमा सोही अनुसार र सो नभएमा नगर यातायात गुरुयोजनाले निर्धारण गरे अनुरूप 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 अर्धव्यास बाटोको चौडाई भन्दा २०% ले बढी चौडा भएको हुनु पर्नेछ।

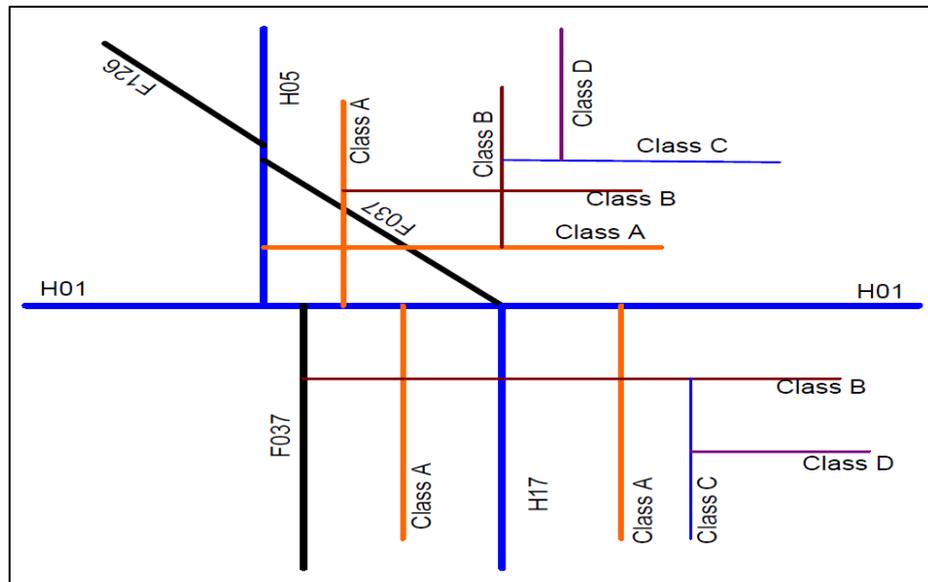
Source: Fundamental Guidelines for Settlement Development, Urban Planning and Building Construction-2072 (2015 AD)

4.4 Urban Road Classification

Roads under the jurisdiction of Municipal authority are referred to 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, Sub-arterial, Collector and Local/Residential Street in its Nepal Urban Road Standard-2076 BS. The ToR provided for the preparation of RMTMP has formulated the class of roads into A, B, C and D. For geometric design urban roads are classified into four categories considering function of the road and traffic level as per Nepal Urban Road Standard- 2076 BS.

- a) Arterial Roads (*Path*)
- b) Sub-Arterials Roads (*Sadak*)
- c) Collector Roads (*Marg*)
- d) Local Roads (*Upa-Marg*)

The fundamental parameters of the urban road are shown in Table 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 8.



Source: Nepal Urban Road Standard- 2076 BS

Figure 8: Detail Description of Road Class

4.4.1 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.

4.4.2 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 through the movement of local vehicles.

4.4.3 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 relatively long distances which connect big market or settlement areas or two or more wards' centers within the Municipality.

4.4.4 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.

4.4.5 Class C and Class D Roads

Class C roads are residential streets, and they provide access to private property and small industrial or public places. These roads serve mainly for small/light vehicular movement for 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 to as Class D roads. These serve for internal traffic movement without through traffic movement.

4.5 Typical Cross Sections of Municipal Roads

The existing transport linkages (except the Strategic Road Network (SRN) links) within the Municipality are referred to as Municipal Roads. These roads have been classified based on their functional hierarchy. Geometric features of these roads may vary as per the availability of right of way and roadside land-use pattern. Typical cross-sections of these roads have been described below.

4.5.1 Road Class A (Main Collector)

These roads are major transportation corridors within the municipal territory. These roads are assumed to have higher traffic, and they pass through along the east to west or north to south of the municipal area. Further, these roads connect major settlements or market areas within the municipality. Functionally, these roads collect the traffic from major settlements, tourist area to the SRN linkages. As per the available RoW and land-use pattern typical cross-sections may be selected as shown in Figure 9. Minimum RoW for class A road is 15 m.

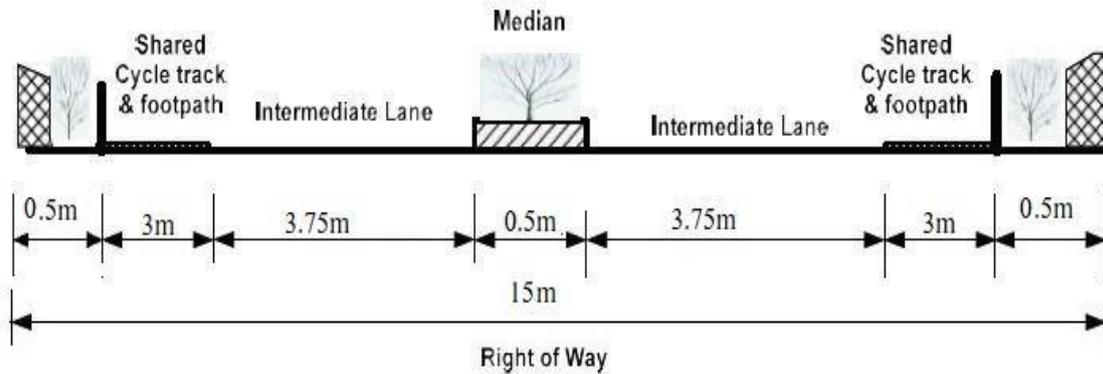


Figure 9: Typical Cross-section for Class A Roads (with RoW 15 m)

4.5.2 Road Class B (Other Collector Roads)

These roads serve as collector road from relatively small settlements and have less traffic flow. The minimum RoW for such class of roads is 10 m. The typical cross section with the minimum RoW is shown in figure-10.

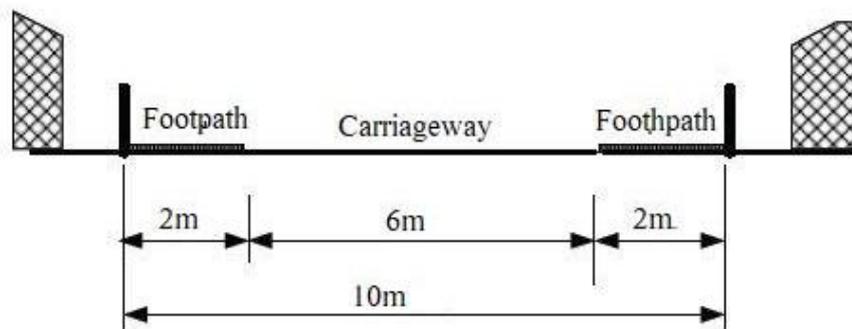


Figure 10: Typical Cross-section for Class B Roads (with RoW 10 m)

4.5.3 Road Class C (Tole Roads)

These types of urban roads are for the purpose of residential access. Residential streets are designed for the lower volume of traffic, especially private transport. Therefore, RoW for this class of roads is designed for single lane pavement. Minimum RoW strip for such class of road is 8 m. Typical cross-sections as per the available RoW are shown in Figure 11.

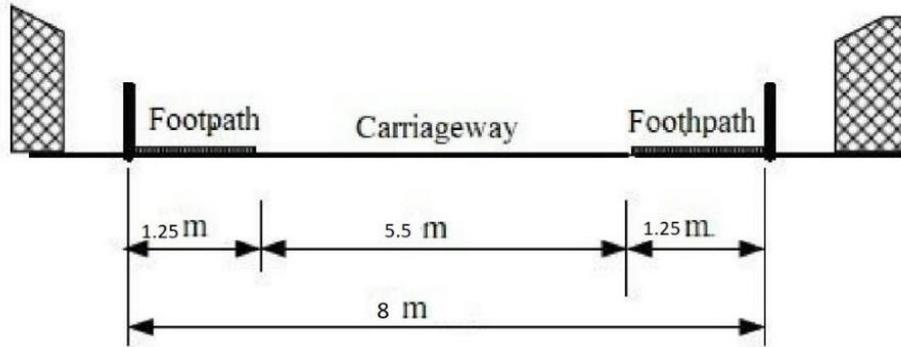


Figure 11: Typical Cross-section for Class C Roads (with RoW 8 m)

4.5.4 Road Class D (Other Tole Roads)

These types of roads are constructed only in residential areas. The minimum RoW for such roads is 4 m. However, the RoW for new or planned Class D roads (residential roads) should have at least 6 m RoW. A typical cross section for such road is shown in Figure 12.

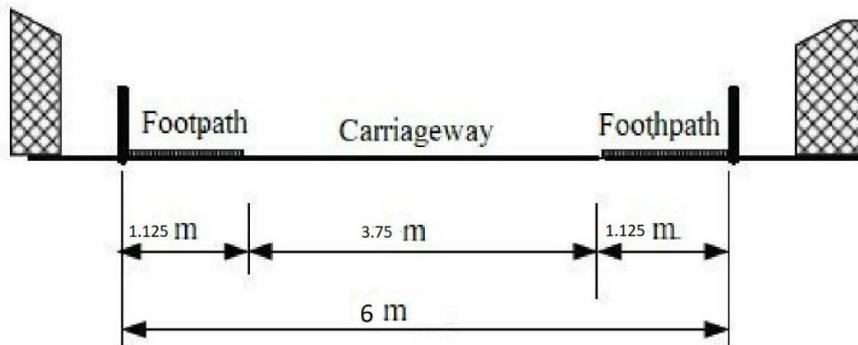


Figure 12: Typical Cross-section for Class D Roads (with RoW 6 m)

4.6 Coding of Rural Municipality Roads

All road links within the Rural Municipality are given unique code numbers consisting of ten digits based on DTMP guidelines along with MTMP guidelines, 2019. The coding system for particular road link is described below:

- First digit (1 to 7) represents the number of Province. Code 1 stands for Province-1, 2, 3, 4, 5, 6 and 7 indicate the Province-2, Province-3, Province-4, Province-5, Province-6 and Province-7 respectively. Lumbini Province is code by 5.
- Second two digits represent particular district (1 to 77). Pyuthan District is coded by 03. i.e. 503 for Pyuthan District of Lumbini Province.
- Third digit (i.e. RM) represents the RMRCM (Rural Municipality Road Core Network)

- Fourth two digits represent the Municipality. Mallarani Rural Municipality is code by 08.
- Fifth code indicates letter A to D for particular Class of road.
- Next three digits (000-999) represents the particular transport linkage.

After all the code numbers, road names are written. An example of the code number and road in Mallarani Rural Municipality is shown table-9, for example “503RM07A001”

Table 9: Coding of Rural Municipality Roads

Province with District	MRCN	Municipality	Road Class	Road Linkage
503	RM	07	A	001
i.e. “503RM07A001”				

Chapter -5: Perspective Plan of Rural Municipality Transport Network

5.1 Process and Procedure for Collection of Demand

Ward level meetings in every ward or ward cluster is done where information on RMTMP is collected. Demand form for each ward is provided which are later collected after the form are duly filled in given time. As road demand from the settlement level is collected, a bottom-up approach of planning is applied.

Analysis of data regarding the accessibility situation in each settlement, population forecasting for each sector, major road linkages are 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 guidelines provided are prepared and its approval from the municipality and Municipal Road Coordination Committee (MRCC) is accomplished during the first workshop meeting.

Transport linkage in an urban area has greater importance for its overall development. The development of road transport links to each plot of land or each residential unit is ideal approach for transport planner. Various types of land use patterns require different categories of road transport linkage. The development of road linkage requires a tremendous amount of public fund at the same time; however, the public authorities don't have adequate amount of funding. For better transportation infrastructure development, prioritization approach is only one approach to be adopted for the rational allocation of limited funds for all types covering the whole length. The investment activities are new construction, maintenance and rehabilitation of various categories of road linkage. Conventionally, each construction or maintenance project is justified based on cost-benefit ratio. This conventional approach disregards the benefit due to non-monetary aspects of transport projects. Therefore, a multi-criteria approach for the selection of transport linkage is adopted as a justified approach for the project selection.

Transportation services are highly demanded infrastructure for urban as well as rural areas. The objective of the transport linkage is to provide accessibility for the given degree of mobility. Accessibility and mobility requirements are guided by the people’s demand for better living standards and economic opportunities. The objectives and importance of individual roads should guide the development of scoring criteria for the project selection for implementation. A term of Reference (ToR) for the preparation of RMTMP has formulated the criteria and their respective weights for the evaluation. The consultant has worked out the following weights for the criteria for the prioritization of road links. These scores for the particular criteria need to be discussed and approved by MRCC. The detailed criteria for prioritization for ranking of rural road linkage is given in table-10. These criteria are described in brief below:

Table 10: Criteria for Prioritization for Ranking of Rural Road Linkage

SN	Criteria	Scoring Unit	Score
1	Population served	Population served/Km	40
2	Population unconnected	Population unconnected/Km	20
3	Traffic category	Traffic count	20
4	Rural Municipality priority	Ward level meeting	20
Total			100

Source: MTMP Guidelines, 2019

5.2.1 Population Served

This criterion is based on the population of a ward whose center is directly or indirectly connected by a road segment. The number given for each road segment depends on the population of the ward connected by that road segment. When calculating the score obtained by a road segment under this criterion, first the population of the ward connected by that road segment is multiplied by the quotient obtained by dividing the population by the maximum population added by the simple road segments in that town / village. Due to this, road sections connecting large wards or more than one ward get higher priority than roads connecting small wards or only one ward. This criterion is mainly aimed at the roads connecting the ward centers.

5.2.2 Population Unconnected

This criterion looks at the number of people living in a ward that has not yet been connected to the ward centers by road. Roads are defined here as roads that are at least 1 km under construction or in a planned condition. The number given for each road section depends on the population of the ward to be connected by that road section in future. Under this criterion, when the number obtained by a road segment is calculated, the population of the ward to be connected by that road section in the future will be multiplied by the quotient of the result divided by the maximum population to be connected by the future road segment in that town / village. The purpose of this criterion is to give priority to the road sections connecting the ward centers which do not yet have road access. Therefore, this standard is targeted at unpaved roads.

5.2.3 Traffic Category

This criterion looks at the number of vehicles (traffic) plying on a smooth road section. It uses the traffic category specified in the schedule. The score obtained by each road segment depends on the traffic category of that road. For example, T3 gets maximum marks, T2 gets half marks of maximum marks, and T1 gets zero marks. This criterion gives high priority to roads with high traffic volume, as the number of traffic on the road indicates the importance of the road. Generally, the required number of traffic on the roads which require new construction is less and as a result those roads get less marks in this criterion.

5.2.4 Rural Municipality Priority

This criterion allows municipalities to prioritize specific road sections for whatever reason. The score of a road depends on the priority of the road. Therefore, the first priority road gets maximum points, the second priority road gets half of the maximum points, and the non-priority road section gets zero points. This criterion also helps to include other existing criteria of priority that are not reflected in the classification table. The List of Roads for Rural Municipality Perspective Plan of DRCN is given in table-11.

Table 11: List of Roads for Rural Municipality Perspective Plan of DRCN

Code	Road Name	Ward Pass	Population Served		Population Unconnected		Traffic Category		Palika Priority		Total	Rank
			40		20		20		20			
			#	Score	#	Score	#	Score	#	Score		
503DR004	Khalanga-Chujathanti-Jogitari road	3,4	9935	123.34	-	0	T1	20	1	20	163.34	1
503DR003	Khaira-Khalanga road	4,5	9194	114.14	-	0	T1	20	1	20	154.14	2
503DR002	Chunjathati - Arghakhachi road	2	3914	48.59	-	0	T1	20	1	20	88.59	3
503DR001	Goyalchhedi-solahalna-markawang road	1	3222	40.00	-	0	T1	20	1	20	80.00	4

List of Roads for Rural Municipality Perspective Plan of Class A Road for is given in table-12.

Table 12: List of Roads for Rural Municipality Perspective Plan of Class A Road

Code	Road Name	Ward Pass	Population Served		Population Unconnected		Traffic Category		Palika Priority		Total	Rank
			40		20		20		20			
			#	Score	#	Score	#	Score	#	Score		
503RM07A007	Deurali-tham-solahalna-road	1	2739	34.00	1611	10	T1	20	1	20	84.00	1
503RM07A001	Mallarani danda-paryatakiya marg	1,4	3334	41.39	-	0	T1	20	1	20	81.39	2
503RM07A025	Jhimruk-Jhakrishthan-Katrekhola-Guthakaseri Road	4	5321	38.00	-	0	T1	20	1	20	78.00	3
503RM07A029	Kumikot-kantrekholaramche-jorpokhari-ghorthapadhundi-khaira-swasthachauki-kumikot khalanga road (Ringroad)	5	3234	36.00	-	0	T1	20	1	20	76.00	4
503RM07A014	Sirsegairamundanda-	3	3684	34.00	-	0	T1	20	1	20	74.00	5

Code	Road Name	Ward Pass	Population Served 40		Population Unconnected 20		Traffic Category 20		Palika Priority 20		Total	Rank
			#	Score	#	Score	#	Score	#	Score		
	sahutola-barbot-chunjathathi road											
503RM07A013	Chunjathati-kharindanda-chedaa pokhari-goyalachhedi-solahalna road	2	3249	33.20	-	0	T1	20	1	20	73.20	6
503RM07A022	Bhanjyang-pandedanda-jhimruk khola	4	4537	32.40	-	0	T1	20	1	20	72.40	7
503RM07A023	Saribang khola-khalanga main road	4	4369	31.20	-	0	T1	20	1	20	71.20	8
503RM07A027	Khalanga-pipal danda road	4	4201	30.00	-	0	T1	20	1	20	70.00	9
503RM07A012	Chunjathati-chauja-khauri pokhari road	2	2544	26.00	-	0	T1	20	1	20	66.00	10
503RM07A011	Chunjathati-kudara-banna-arbaang-deurali road	2	2466	25.20	-	0	T1	20	1	20	65.20	11
503RM07A026	Khalanga-guthakaseri road	4	3417	24.40	-	0	T1	20	1	20	64.40	12
503RM07A009	Pipalneti-chundari khola-akrate-chuja road	1	1965	24.39	-	0	T1	20	1	20	64.39	13
503RM07A015	Dharampani-girichaur-sirkot-sarangkot road	3	2600	24.00	-	0	T1	20	1	20	64.00	14
503RM07A019	Kabardahall-lambela-Pipal danda road	4	3249	23.20	-	0	T1	20	1	20	63.20	15
503RM07A017	Chaurpani-danda kharka road	3	2384	22.00	-	0	T1	20	1	20	62.00	16
503RM07A020	Khanepani chowk-tallo lambela-pipal danda road	4	2688	19.20	-	0	T1	20	1	20	59.20	17
503RM07A005	Thulachaur-anyar pokhari-alkabanjh-bange road	1	1514	18.80	-	0	T1	20	1	20	58.80	18

Code	Road Name	Ward Pass	Population Served 40		Population Unconnected 20		Traffic Category 20		Palika Priority 20		Total	Rank
			#	Score	#	Score	#	Score	#	Score		
503RM07A016	Chyantari-chaurpani-airawati-raspurkot road	3	1950	18.00	-	0	T1	20	1	20	58.00	19
503RM07A021	Okhararukh-Pokhari danda-Baskhola Road	4	2464	17.60	-	0	T1	20	1	20	57.60	20
503RM07A002	Todke-sindure road	1	1385	17.19	-	0	T1	20	1	20	57.19	21
503RM07A003	Todke-budhathapla road	1	1289	16.00	-	0	T1	20	1	20	56.00	22
503RM07A008	Deurali-pani gaira road	1	1224	15.20	-	0	T1	20	1	20	55.20	23
503RM07A024	Jhakrishthan-Bungala Road	4	1960	14.00	-	0	T1	20	1	20	54.00	24
503RM07A006	Solahalna-padime-lukka road	1	1031	12.80	-	0	T1	20	1	20	52.80	25
503RM07A028	Mathillo Kaseri road	4	1680	12.00	-	0	T1	20	1	20	52.00	26
503RM07A010	Sanilekh - saar ghar road	1	934	11.60	-	0	T1	20	1	20	51.60	27
503RM07A004	Solahalna-sugure road	1	902	11.20	-	0	T1	20	1	20	51.20	28
503RM07A018	Airawati-bijuli road	3	1084	10.00	-	0	T1	20	1	20	50.00	29

List of Roads for Rural Municipality Perspective Plan of Class B Road for is given in table-13.

Table 13: List of Roads for Rural Municipality Perspective Plan of Class B Road

Code	Road Name	Ward Pass	Population Served 40		Population Unconnected 20		Traffic Category 20		Palika Priority 20		Total	Rank
			#	Score	#	Score	#	Score	#	Score		
503RM07B006	Harthunga-thapkot-deurali road	1	1933	24.00	1611	10	T1	20	1	20	74.00	1
503RM07B018	Mundanda-chunja ward no.01	3	2947	27.20	-	0	T1	20	1	20	67.20	2
503RM07B029	Sahid smarak park-Campus Road	4	3753	26.80	-	0	T1	20	1	20	66.80	3

Code	Road Name	Ward Pass	Population Served 40		Population Unconnected 20		Traffic Category 20		Palika Priority 20		Total	Rank
			#	Score	#	Score	#	Score	#	Score		
			503RM07B011	Chunja kharkasiute-cheda pokhari road	2	2544	26.00	-	0	T1		
503RM07B040	Rampani-woda karyalaya-05 road	5	2228	24.80	-	0	T1	20	1	20	64.80	5
503RM07B035	Woda karyalaya-05-dhundi road	5	2156	24.00	-	0	T1	20	1	20	64.00	6
503RM07B039	Ramche-rithekharkasarangkot-jorpohari road	5	2084	23.20	-	0	T1	20	1	20	63.20	7
503RM07B041	patihalna-bhedipata road	4	1797	20.01	-	0	T1	20	1	20	61.01	8
503RM07B005	Todke-chadulee-harthunga road	1	1675	20.79	-	0	T1	20	1	20	60.79	9
503RM07B012	Kudara-bhaisamare-kharindanda road	2	1957	20.00	-	0	T1	20	1	20	60.00	10
503RM07B021	Dharampani-raijanpani-chaurpani road	3	1864	17.20	-	0	T1	20	1	20	57.20	11
503RM07B019	Mundanda-bukeni road	3	1820	16.80	-	0	T1	20	1	20	56.80	12
503RM07B030	Khalanga-Danda pasal-Gaira-Bazar road	4	2296	16.40	-	0	T1	20	1	20	56.40	13
503RM07B014	Kami pokhari-bastari-chitre danda road	2	1566	16.00	-	0	T1	20	1	20	56.00	14
503RM07B022	Girichaur-raspurkot road	3	1647	15.20	-	0	T1	20	1	20	55.20	15
503RM07B003	Aayar pokhari-daha danda road	1	1160	14.40	-	0	T1	20	1	20	54.40	16
503RM07B034	Kajuwa-Samsanghat-Jhakrishthan Road	4	1960	14.00	-	0	T1	20	1	20	54.00	17
503RM07B031	Khalanga-thapa danda-Bijuwar road	4	1904	13.60	-	0	T1	20	1	20	53.60	18
503RM07B004	Aayar pokhari-domahe khola road	1	1063	13.20	-	0	T1	20	1	20	53.20	19
503RM07B002	Todke-kamdale road	1	999	12.40	-	0	T1	20	1	20	52.40	20

Code	Road Name	Ward Pass	Population Served 40		Population Unconnected 20		Traffic Category 20		Palika Priority 20		Total	Rank
			#	Score	#	Score	#	Score	#	Score		
			503RM07B026	Lambela-Kota road	4	1680	12.00	-	0	T1		
503RM07B033	Guthakaseri-Jhakrishthan road	4	1624	11.60	-	0	T1	20	1	20	51.60	22
503RM07B009	Chunja-naamreekot-kusundanda road	1	902	11.20	-	0	T1	20	1	20	51.20	23
503RM07B027	Toprekharka-Kaseri Road	4	1512	10.80	-	0	T1	20	1	20	50.80	24
503RM07B032	Guthakaseri-Dhobikhola-Bhanjyang Road	4	1456	10.40	-	0	T1	20	1	20	50.40	25
503RM07B023	Mundanda-jebindanda-salthanti road	3	1084	10.00	-	0	T1	20	1	20	50.00	26
503RM07B038	Pipalnetta-okhari road	5	862	9.60	-	0	T1	20	1	20	49.60	27
503RM07B001	Lakuri rukh-majhpani tower-sunar dewauli road	1	741	9.20	-	0	T1	20	1	20	49.20	28
503RM07B008	Khacinee dandapani gairaa road	1	709	8.80	-	0	T1	20	1	20	48.80	29
503RM07B036	Dandaghar-dalit basti road	5	790	8.79	-	0	T1	20	1	20	48.79	30
503RM07B037	Kamerpani-rapchu-sima road	5	755	8.41	-	0	T1	20	1	20	48.41	31
503RM07B024	Tindhara-puntola road	4	1176	8.40	-	0	T1	20	1	20	48.40	32
503RM07B016	Madhukare-bhakunde-Palukathan road	2	783	8.00	-	0	T1	20	1	20	48.00	33
503RM07B025	Bhattechaur-Newar tole road	4	1064	7.60	-	0	T1	20	1	20	47.60	34
503RM07B010	Saar ghar-dewauli danda road	1	580	7.20	-	0	T1	20	1	20	47.20	35
503RM07B020	Chunjathati-budhdevi-krishi road	3	737	6.80	-	0	T1	20	1	20	46.80	36
503RM07B028	Ranitola-army byarek road	4	896	6.40	-	0	T1	20	1	20	46.40	37

Code	Road Name	Ward Pass	Population Served 40		Population Unconnected 20		Traffic Category 20		Palika Priority 20		Total	Rank
			#	Score	#	Score	#	Score	#	Score		
503RM07B007	Padime-sallithum road	1	483	6.00	-	0	T1	20	1	20	46.00	38
503RM07B017	Kudara-siute-kharindanda road	2	548	5.60	-	0	T1	20	1	20	45.60	39
503RM07B015	Jimur pani-ramche road	2	509	5.20	-	0	T1	20	1	20	45.20	40
503RM07B013	Chautara-buchena road	2	391	4.00	-	0	T1	20	1	20	44.00	41

List of Roads for Rural Municipality Perspective Plan of Class C Road is given in table-14.

Table 14: List of Roads for Rural Municipality Perspective Plan of Class C Road

Code	Road Name	Ward Pass	Population Served 40		Population Unconnected 20		Traffic Category 20		Palika Priority 20		Total	Rank
			#	Score	#	Score	#	Score	#	Score		
503RM07C004	Chunjathati-rati pokhari -upallo tole-takuri road	2	1840	18.80	-	0	T1	20	1	20	58.80	1
503RM07C005	Majhpokhara-chaura-mudkhola-ward no.02	3	1105	10.20	-	0	T1	20	1	20	50.20	2
503RM07C027	Bajabari-ghaidanda road	5	898	10.00	-	0	T1	20	1	20	50.00	3
503RM07C020	Garinarukh-Devimandir road	4	1288	9.20	-	0	T1	20	1	20	49.20	4
503RM07C023	Thapachautari-dalit basti road	5	755	8.41	-	0	T1	20	1	20	48.41	5
503RM07C003	Palukathan-khanni khola-ward office-02 road	2	822	8.40	-	0	T1	20	1	20	48.40	6
503RM07C029	Darbhane budathoki tole-chautari road	5	647	7.20	-	0	T1	20	1	20	47.20	7
503RM07C028	Ghartitola-para road	5	611	6.80	-	0	T1	20	1	20	46.80	8
503RM07C026	Takura- Baidhya Chaur Road	5	575	6.40	-	0	T1	20	1	20	46.40	9
503RM07C002	Chautara-tallo bheg road	2	568	5.80	-	0	T1	20	1	20	45.80	10

Code	Road Name	Ward Pass	Population Served 40		Population Unconnected 20		Traffic Category 20		Palika Priority 20		Total	Rank
			#	Score	#	Score	#	Score	#	Score		
503RM07C010	Khalanga-Mallarani gaupalika road	4	784	5.60	-	0	T1	20	1	20	45.60	11
503RM07C017	Asharechaur-Picnic spot road	4	756	5.40	-	0	T1	20	1	20	45.40	12
503RM07C024	Milanchautari-hingkhola road	5	467	5.20	-	0	T1	20	1	20	45.20	13
503RM07C001	Ratamata-deurali road	1	371	4.61	-	0	T1	20	1	20	44.61	14
503RM07C014	Salthanti-jebindanda-amilikhola-majhpokhara road	4	644	4.60	-	0	T1	20	1	20	44.60	15
503RM07C030	Ward karyalaya-05-rana tole road	5	395	4.40	-	0	T1	20	1	20	44.40	16
503RM07C008	Saraswati Tole marg	4	588	4.20	-	0	T1	20	1	20	44.20	17
503RM07C007	Raspurkot-chaurpani road	3	433	4.00	-	0	T1	20	1	20	44.00	18
503RM07C006	Dharampani-jhankristhan road	3	412	3.80	-	0	T1	20	1	20	43.80	19
503RM07C012	Guthakaseri-Roka Tole Road	4	504	3.60	-	0	T1	20	1	20	43.60	20
503RM07C009	Khalanga-IDO Road	4	476	3.40	-	0	T1	20	1	20	43.40	21
503RM07C021	Mallarani danda-Zipline Road	4	448	3.20	-	0	T1	20	1	20	43.20	22
503RM07C018	Lay khola-Kholabari Road	4	420	3.00	-	0	T1	20	1	20	43.00	23
503RM07C025	Takura-padherachaur road	5	252	2.81	-	0	T1	20	1	20	42.81	24
503RM07C032	Dharampani-ammare road	3	303	2.80	-	0	T1	20	1	20	42.80	25
503RM07C031	Bhadaure-panikhola road	5	234	2.61	-	0	T1	20	1	20	42.61	26
503RM07C015	Majha-Padhera-Khelmaindhan marga	4	336	2.40	-	0	T1	20	1	20	42.40	27
503RM07C011	Toprekharka-Samsanghat Road	4	280	2.00	-	0	T1	20	1	20	42.00	28

Code	Road Name	Ward Pass	Population Served 40		Population Unconnected 20		Traffic Category 20		Palika Priority 20		Total	Rank
			#	Score	#	Score	#	Score	#	Score		
503RM07C013	Pokhari danda-Samsanghat Road	4	224	1.60	-	0	T1	20	1	20	41.60	29
503RM07C022	Khalanga-Swasta Kendra Road	4	196	1.40	-	0	T1	20	1	20	41.40	30
503RM07C019	Ekley pipal-Thulochaur road	4	168	1.20	-	0	T1	20	1	20	41.20	31
503RM07C016	Bagkhor-Ripa Road	4	112	0.80	-	0	T1	20	1	20	40.80	32

List of Roads for Rural Municipality Perspective Plan of Class C Road is given in table-15.

Table 15: List of Roads for Rural Municipality Perspective Plan of Class D Road

Code	Road Name	Ward Pass	Population Served 40		Population Unconnected 20		Traffic Category 20		Palika Priority 20		Total	Rank
			#	Score	#	Score	#	Score	#	Score		
503RM07D001	Dhundi-panighat road	5	180	2.00	-	0	T1	20	1	20	42.00	1

5.3 Perspective Plan Framework for the Rural Municipality Roads

The prospective plan of the Rural Municipality is the development plan that includes the plan of development of all road's hierarchy within the Rural Municipality. RMTMP is short term Rural 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 Rural Municipality.

Perspective plan identifies all the transport infrastructure demands of the Rural Municipality. The proposed road networks and road infrastructure will help to enhance the overall transportation network of the Rural 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 Rural 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 Rural 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 each year's budget will increase by 10% from the previous year's budget. All the roads included in perspective plan along with their score, rank and class. The framework of the perspective plan of the rural municipal roads has been presented below which is been categorized according to the scoring system mentioned before. List of roads for Rural Municipality Perspective Plan is given in table-16.

Table 16: Rural municipality transport perspective plan

SN	Road Section Code	Emergency Maintenance (Km)	Routine Maintenance (Km)	Recurrent Maintenance (Km)	Periodic Maintenance (Km)	Rehabilitation (Km)	Blacktopping (Km)	Widening (Km)	Gravelling (Km)	Bridge (m)	Drain (Rm)
1	503DR001	5.30	5.30	5.30	-	-	5.30	-	-	-	-
2	503DR002	2.40	2.40	2.40	-	-	2.40	-	-	-	-
3	503DR003	3.70	3.70	3.70	-	-	3.70	-	-	-	-
4	503DR004	11.50	11.50	11.50	-	-	11.50	-	-	-	-
5	503RM07A001	14.00	14.00	14.00	-	-	14.00	-	-	-	-
6	503RM07A002	2.30	2.30	2.30	2.30	-	-	-	2.30	-	2.30
7	503RM07A003	1.30	1.30	1.30	1.30	-	-	-	1.30	-	1.30
8	503RM07A004	1.30	1.30	1.30	1.30	-	-	-	1.30	-	1.30
9	503RM07A005	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00
10	503RM07A006	2.70	2.70	2.70	2.70	-	-	-	2.70	-	2.70
11	503RM07A007	0.90	0.90	0.90	0.90	-	-	-	0.90	-	0.90
12	503RM07A008	1.50	1.50	1.50	1.50	-	-	-	1.50	-	1.50
13	503RM07A009	4.20	4.20	4.20	4.20	-	-	-	4.20	-	4.20
14	503RM07A010	1.90	1.90	1.90	1.90	-	-	-	1.90	-	1.90
15	503RM07A011	8.70	8.70	8.70	8.70	-	-	-	8.70	-	8.70
16	503RM07A012	5.30	5.30	5.30	5.30	-	-	-	5.30	-	5.30
17	503RM07A013	5.50	5.50	5.50	5.50	-	-	-	5.50	-	5.50
18	503RM07A014	9.70	9.70	9.70	9.70	-	-	-	9.70	-	9.70
19	503RM07A015	8.20	8.20	8.20	8.20	-	-	-	8.20	-	8.20
20	503RM07A016	1.80	1.80	1.80	1.80	-	-	-	1.80	-	1.80
21	503RM07A017	2.70	2.70	2.70	2.70	-	-	-	2.70	-	2.70
22	503RM07A018	0.70	0.70	0.70	0.70	-	-	-	0.70	-	0.70
23	503RM07A020	2.60	2.60	2.60	2.60	-	-	-	2.60	-	2.60
24	503RM07A019	3.20	3.20	3.20	3.20	-	-	-	3.20	-	3.20
25	503RM07A021	1.60	1.60	1.60	1.60	-	-	-	1.60	-	1.60
26	503RM07A022	4.00	4.00	4.00	4.00	-	-	-	4.00	-	4.00
27	503RM07A023	0.90	0.90	0.90	0.90	-	-	-	0.90	-	0.90
28	503RM07A024	2.90	2.90	2.90	2.90	-	-	-	2.90	-	2.90
29	503RM07A025	3.90	3.90	3.90	3.90	-	-	-	3.90	-	3.90
30	503RM07A026	1.30	1.30	1.30	1.30	-	-	-	1.30	-	1.30
31	503RM07A027	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00
32	503RM07A028	0.70	0.70	0.70	0.70	-	-	-	0.70	-	0.70
33	503RM07A029	19.40	19.40	19.40	19.40	-	-	-	19.40	-	19.40
34	503RM07B001	1.00	1.00	1.00	1.00	-	-	-	1.00	-	1.00
35	503RM07B002	0.50	0.50	0.50	0.50	-	-	-	0.50	-	0.50
36	503RM07B003	0.40	0.40	0.40	0.40	-	-	-	0.40	-	0.40

SN	Road Section Code	Emergency Maintenance (Km)	Routine Maintenance (Km)	Recurrent Maintenance (Km)	Periodic Maintenance (Km)	Rehabilitation (Km)	Blacktopping (Km)	Widening (Km)	Gravelling (Km)	Bridge (m)	Drain (Rm)
37	503RM07B004	0.60	0.60	0.60	0.60	-	-	-	0.60	-	0.60
38	503RM07B005	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00
39	503RM07B006	0.30	0.30	0.30	0.30	-	-	-	0.30	-	0.30
40	503RM07B007	0.90	0.90	0.90	0.90	-	-	-	0.90	-	0.90
41	503RM07B008	0.80	0.80	0.80	0.80	-	-	-	0.80	-	0.80
42	503RM07B009	2.20	2.20	2.20	2.20	-	-	-	2.20	-	2.20
43	503RM07B010	0.70	0.70	0.70	0.70	-	-	-	0.70	-	0.70
44	503RM07B011	4.80	4.80	4.80	4.80	-	-	-	4.80	-	4.80
45	503RM07B012	5.20	5.20	5.20	5.20	-	-	-	5.20	-	5.20
46	503RM07B013	0.90	0.90	0.90	0.90	-	-	-	0.90	-	0.90
47	503RM07B014	3.20	3.20	3.20	3.20	-	-	-	3.20	-	3.20
48	503RM07B015	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00
49	503RM07B016	1.70	1.70	1.70	1.70	-	-	-	1.70	-	1.70
50	503RM07B017	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00
51	503RM07B018	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00
52	503RM07B019	0.70	0.70	0.70	0.70	-	-	-	0.70	-	0.70
53	503RM07B020	2.50	2.50	2.50	2.50	-	-	-	2.50	-	2.50
54	503RM07B021	5.50	5.50	5.50	5.50	-	-	-	5.50	-	5.50
55	503RM07B022	2.60	2.60	2.60	2.60	-	-	-	2.60	-	2.60
56	503RM07B023	3.30	3.30	3.30	3.30	-	-	-	3.30	-	3.30
57	503RM07B024	1.10	1.10	1.10	1.10	-	-	-	1.10	-	1.10
58	503RM07B025	0.60	0.60	0.60	0.60	-	-	-	0.60	-	0.60
59	503RM07B026	1.30	1.30	1.30	1.30	-	-	-	1.30	-	1.30
60	503RM07B027	0.90	0.90	0.90	0.90	-	-	-	0.90	-	0.90
61	503RM07B028	0.70	0.70	0.70	0.70	-	-	-	0.70	-	0.70
62	503RM07B029	1.40	1.40	1.40	1.40	-	-	-	1.40	-	1.40
63	503RM07B030	0.50	0.50	0.50	0.50	-	-	-	0.50	-	0.50
64	503RM07B031	1.00	1.00	1.00	1.00	-	-	-	1.00	-	1.00
65	503RM07B032	1.00	1.00	1.00	1.00	-	-	-	1.00	-	1.00
66	503RM07B033	1.40	1.40	1.40	1.40	-	-	-	1.40	-	1.40
67	503RM07B034	1.40	1.40	1.40	1.40	-	-	-	1.40	-	1.40
68	503RM07B035	3.90	3.90	3.90	3.90	-	-	-	3.90	-	3.90
69	503RM07B036	0.80	0.80	0.80	0.80	-	-	-	0.80	-	0.80
70	503RM07B037	2.60	2.60	2.60	2.60	-	-	-	2.60	-	2.60
71	503RM07B038	1.20	1.20	1.20	1.20	-	-	-	1.20	-	1.20
72	503RM07B039	3.20	3.20	3.20	3.20	-	-	-	3.20	-	3.20
73	503RM07B040	1.20	1.20	1.20	1.20	-	-	-	1.20	-	1.20
74	503RM07B041	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00

SN	Road Section Code	Emergency Maintenance (Km)	Routine Maintenance (Km)	Recurrent Maintenance (Km)	Periodic Maintenance (Km)	Rehabilitation (Km)	Blacktopping (Km)	Widening (Km)	Gravelling (Km)	Bridge (m)	Drain (Rm)
75	503RM07C001	0.60	0.60	0.60	0.60	-	-	-	0.60	-	0.60
76	503RM07C002	1.00	1.00	1.00	1.00	-	-	-	1.00	-	1.00
77	503RM07C003	1.10	1.10	1.10	1.10	-	-	-	1.10	-	1.10
78	503RM07C004	2.10	2.10	2.10	2.10	-	-	-	2.10	-	2.10
79	503RM07C005	1.40	1.40	1.40	1.40	-	-	-	1.40	-	1.40
80	503RM07C032	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00
81	503RM07C006	1.40	1.40	1.40	1.40	-	-	-	1.40	-	1.40
82	503RM07C007	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00
83	503RM07C008	0.30	0.30	0.30	0.30	-	-	-	0.30	-	0.30
84	503RM07C009	1.50	1.50	1.50	1.50	-	-	-	1.50	-	1.50
85	503RM07C010	0.40	0.40	0.40	0.40	-	-	-	0.40	-	0.40
86	503RM07C011	0.70	0.70	0.70	0.70	-	-	-	0.70	-	0.70
87	503RM07C012	0.20	0.20	0.20	0.20	-	-	-	0.20	-	0.20
88	503RM07C013	0.60	0.60	0.60	0.60	-	-	-	0.60	-	0.60
89	503RM07C014	0.60	0.60	0.60	0.60	-	-	-	0.60	-	0.60
90	503RM07C015	0.20	0.20	0.20	0.20	-	-	-	0.20	-	0.20
91	503RM07C016	0.20	0.20	0.20	0.20	-	-	-	0.20	-	0.20
92	503RM07C017	1.20	1.20	1.20	1.20	-	-	-	1.20	-	1.20
93	503RM07C018	0.40	0.40	0.40	0.40	-	-	-	0.40	-	0.40
94	503RM07C019	0.20	0.20	0.20	0.20	-	-	-	0.20	-	0.20
95	503RM07C020	0.50	0.50	0.50	0.50	-	-	-	0.50	-	0.50
96	503RM07C021	0.50	0.50	0.50	0.50	-	-	-	0.50	-	0.50
97	503RM07C022	0.20	0.20	0.20	0.20	-	-	-	0.20	-	0.20
98	503RM07C023	0.60	0.60	0.60	0.60	-	-	-	0.60	-	0.60
99	503RM07C024	0.70	0.70	0.70	0.70	-	-	-	0.70	-	0.70
100	503RM07C025	0.50	0.50	0.50	0.50	-	-	-	0.50	-	0.50
101	503RM07C026	0.80	0.80	0.80	0.80	-	-	-	0.80	-	0.80
102	503RM07C027	2.00	2.00	2.00	2.00	-	-	-	2.00	-	2.00
103	503RM07C028	0.40	0.40	0.40	0.40	-	-	-	0.40	-	0.40
104	503RM07C029	0.60	0.60	0.60	0.60	-	-	-	0.60	-	0.60
105	503RM07C030	0.40	0.40	0.40	0.40	-	-	-	0.40	-	0.40
106	503RM07C031	0.30	0.30	0.30	0.30	-	-	-	0.30	-	0.30
107	503RM07D001	0.20	0.20	0.20	0.20	-	-	-	0.20	-	0.20
	Total	237.90	237.90	237.90	201.00	0.00	36.90	0.00	201.00	0.00	201.00

There are altogether 277.90 km road networks in Mallarani Rural Municipality. Class A road is 115.20 km, class B road 68.00 km, class C road is 21.60 km and DRCN road is 22.90 Km. The detailed summary according to road types is given in table-17.

Table 17: General summary according to road type

SN	Road Category	Black Top	Gravel	Earthen	New Demand	Total Length (Km)
1	Class A	9.50	0.00	107.70	0.00	117.20
2	Class B	0.00	0.00	72.00	0.00	72.00
3	Class C	0.00	0.00	25.60	0.00	25.60
4	Class D	0.00	0.00	0.20	0.00	0.20
5	DRCN	11.50	0.00	11.40	0.00	22.90
Total (Km)		21.00	0.00	216.90	0.00	237.90

In ward no-1 there are 39.40 km road, ward no-2 has 43.90 km road, ward no-3 has 42.50 km road, ward no-4 has 40.10 km road and ward no-5 has 38.80 km road. The details summary according to ward wise road networks is given in table-18.

Table 18: General summary according to ward wise road class

SN	Ward No.	Class A	Class B	Class C	Class D	DRCN	Total Length (Km)
1	1	22.60	9.40	0.60	0.00	5.30	37.90
2	2	19.50	19.80	4.20	0.00	2.40	45.90
3	3	23.10	16.60	6.80	0.00	6.90	53.40
4	4	32.60	13.30	7.70	0.00	6.45	60.05
5	5	19.40	12.90	6.30	0.20	1.85	40.65
Total (Km)		117.20	72.00	25.60	0.20	22.90	237.90

In Mallarani Rural Municipality there are 8.00 km blacktop road, no gravel road and 204.70 km earthen road, while 13 km road is needed for new construction. The details of the summary according to ward wise road surface is given in table-19.

Table 19: General summary according to ward wise road surface

SN	Ward No.	Black Top	Gravel	Earthen	New Demand	Total Length (Km)
1	1	0.00	0.00	37.90	0.00	37.90
2	2	0.00	0.00	45.90	0.00	45.90
3	3	6.90	0.00	46.50	0.00	53.40

SN	Ward No.	Black Top	Gravel	Earthen	New Demand	Total Length (Km)
4	4	14.10	0.00	45.95	0.00	60.05
5	9.50	0.00	0.00	40.65	0.00	40.65
Total (Km)		21.00	0.00	216.90	0.00	237.90

5.4 Intervention Categories

5.4.1 Conservation

Conservation refers to the actions required to repair a road and keep it in good and passable condition. The different types of conservation are as follows.

a) Emergency maintenance

Basic repairs aimed at removing landslides and repairing damage to the road that inhibit the proper use of the road and make it impassable. This mainly takes place during and after the rainy season. A provisional lump sum is reserved for the entire district road core network based on the network length. Allocation to specific road sections is based on the actual need for clearing landslides or repairing washouts and cuts in the road.

b) Routine maintenance

General maintenance of the road is aimed at preventing damage by ensuring the proper working of the different road elements (retaining walls, drainage system, carriageway, etc.) and cutting vegetation. This is carried out each year on a continuous basis. Routine maintenance is required for the entire district road core network. The specific requirements for routine maintenance are determined on an annual basis through the road condition survey and defined in the ARMP.

c) Recurrent maintenance

Repairs of minor damage to the road surface and road structures to bring them back to good condition. This is generally carried out once or twice a year. Recurrent maintenance is required for the entire district road core network, whereby distinction is made according to the surface type. The specific requirements for recurrent

maintenance are determined on an annual basis through the road condition survey and defined in the ARMP.

d) Periodic maintenance

Larger repairs to the road are largely aimed at renewing the road surface through re-gravelling, resealing or overlays. It is generally carried out with several years interval. Although periodic maintenance is only required for specific sections of the district road core network, a lump sum allocation is made for the entire district road core network based on average annual requirements, distinguishing between different surface types. The specific periodic maintenance requirements are determined on an annual basis through the annual road condition survey and defined in the ARMP.

There are altogether 227.60 km road which needs emergency maintenance, similarly 227.60 km needs routine maintenance, 227.60 km needs recurrent maintenance, and 190.70 km needs periodic maintenance. The length of roads to be included under each conservation type is given in table- 20. This is basically the entire road network of the Mallarani Rural Municipality.

Table 20: Conservation requirements for different roads

SN	Road Section Code	Road Name	Maintenance			
			Emergency	Routine	Recurrent	Periodic
1	503DR001	Goyalchhedi- solahalna-markawang road	5.30	5.30	5.30	-
2	503DR002	Chunjathati -Arghakhachi road	2.40	2.40	2.40	-
3	503DR003	Khaira-Khalanga road	3.70	3.70	3.70	-
4	503DR004	Khalanga-Chujathanti-Jogitari road	11.50	11.50	11.50	-
5	503RM07A001	Mallarani danda -paryatakiya marg	14.00	14.00	14.00	-
6	503RM07A002	Todke-sindure road	2.30	2.30	2.30	2.30
7	503RM07A003	Todke- budhathapla road	1.30	1.30	1.30	1.30
8	503RM07A004	Solahalna-sugure road	1.30	1.30	1.30	1.30
9	503RM07A005	Thulachaur-anyar pokhari-alkabanjh-bange road	2.00	2.00	2.00	2.00
10	503RM07A006	Solahalna-padime-lukka road	2.70	2.70	2.70	2.70
11	503RM07A007	Deurali-tham-solahalna-road	0.90	0.90	0.90	0.90
12	503RM07A008	Deurali-pani gaira road	1.50	1.50	1.50	1.50
13	503RM07A009	Pipalneti-chundari khola-akrate-chuja road	4.20	4.20	4.20	4.20
14	503RM07A010	Sanilekh - saar ghar road	1.90	1.90	1.90	1.90

SN	Road Section Code	Road Name	Maintenance			
			Emergency	Routine	Recurrent	Periodic
15	503RM07A011	Chunjathati-kudara-banna- arbaang-deurali road	8.70	8.70	8.70	8.70
16	503RM07A012	Chunjathati-chauja-khauri pokhari road	5.30	5.30	5.30	5.30
17	503RM07A013	Chunjathati-kharindanda-chedaa pokhari-goyalachhedi-solahalna road	5.50	5.50	5.50	5.50
18	503RM07A014	Sirsegaira-mundanda-sahutola- barbot-chunjathathi road	9.70	9.70	9.70	9.70
19	503RM07A015	Dharampani-girichaur-sirkot- sarangkot road	8.20	8.20	8.20	8.20
20	503RM07A016	Chyantari-chaurpani- airawati- raspurkot road	1.80	1.80	1.80	1.80
21	503RM07A017	Chaurpani-danda kharka road	2.70	2.70	2.70	2.70
22	503RM07A018	Airawati-bijuli road	0.70	0.70	0.70	0.70
23	503RM07A020	Khanepani chowk-tallo lambela- pipal danda road	2.60	2.60	2.60	2.60
24	503RM07A019	Kabardahall-lambela-Pipal danda road	3.20	3.20	3.20	3.20
25	503RM07A021	Okhararukh-Pokhari danda- Baskhola Road	1.60	1.60	1.60	1.60
26	503RM07A022	Bhanjyang-pandedanda-jhimruk khola	4.00	4.00	4.00	4.00
27	503RM07A023	Saribang khola- khalanga main road	0.90	0.90	0.90	0.90
28	503RM07A024	Jhakrishthan-Bungala Road	2.90	2.90	2.90	2.90
29	503RM07A025	Jhimruk-Jhakrishthan- Katrekhola-Guthakaseri Road	3.90	3.90	3.90	3.90
30	503RM07A026	Khalanga-guthakaseri road	1.30	1.30	1.30	1.30
31	503RM07A027	Khalanga-pipal danda road	2.00	2.00	2.00	2.00
32	503RM07A028	Mathillo Kaseri road	0.70	0.70	0.70	0.70
33	503RM07A029	Kumikot- kantrekhola-ramche- jorpokhari-ghorthapa-dhundi- khaira-swasthachauki-kumikot khalanga road (Ringroad)	19.40	19.40	19.40	19.40
34	503RM07B001	Lakuri rukh-majhpani tower- sunar dewauli road	1.00	1.00	1.00	1.00
35	503RM07B002	Todke-kamdale road	0.50	0.50	0.50	0.50
36	503RM07B003	Aayar pokhari-daha danda road	0.40	0.40	0.40	0.40
37	503RM07B004	Aayar pokhari-domahe khola road	0.60	0.60	0.60	0.60
38	503RM07B005	Todke-chadulee-harthunga road	2.00	2.00	2.00	2.00
39	503RM07B006	Harthunga-thapkot-deurali road	0.30	0.30	0.30	0.30
40	503RM07B007	Padime-sallithum road	0.90	0.90	0.90	0.90
41	503RM07B008	Khacinee danda-pani gairaa road	0.80	0.80	0.80	0.80
42	503RM07B009	Chunja-naamreekot-kusundanda road	2.20	2.20	2.20	2.20

SN	Road Section Code	Road Name	Maintenance			
			Emergency	Routine	Recurrent	Periodic
43	503RM07B010	Saar ghar-dewauli danda road	0.70	0.70	0.70	0.70
44	503RM07B011	Chunja kharka-siute-cheda pokhari road	4.80	4.80	4.80	4.80
45	503RM07B012	Kudara-bhaisamare-kharindanda road	5.20	5.20	5.20	5.20
46	503RM07B013	Chautara-buchena road	0.90	0.90	0.90	0.90
47	503RM07B014	Kami pokhari-bastari-chitre danda road	3.20	3.20	3.20	3.20
48	503RM07B015	Jimur pani-ramche road	2.00	2.00	2.00	2.00
49	503RM07B016	Madhukare-bhakunde-Palukathan road	1.70	1.70	1.70	1.70
50	503RM07B017	Kudara-siute-kharindanda road	2.00	2.00	2.00	2.00
51	503RM07B018	Mundanda-chunja ward no.01	2.00	2.00	2.00	2.00
52	503RM07B019	Mundanda-bukeni road	0.70	0.70	0.70	0.70
53	503RM07B020	Chunjathati- budhdevi-krisi road	2.50	2.50	2.50	2.50
54	503RM07B021	Dharampani-raijanpani-chaurpani road	5.50	5.50	5.50	5.50
55	503RM07B022	Girichaur- raspurkot road	2.60	2.60	2.60	2.60
56	503RM07B023	Mundanda-jebindanda-salthanti road	3.30	3.30	3.30	3.30
57	503RM07B024	Tindhara-puntola road	1.10	1.10	1.10	1.10
58	503RM07B025	Bhattechaur-Newar tole road	0.60	0.60	0.60	0.60
59	503RM07B026	Lambela-Kota road	1.30	1.30	1.30	1.30
60	503RM07B027	Toprekharika-Kaseri Road	0.90	0.90	0.90	0.90
61	503RM07B028	Ranitola-army byarek road	0.70	0.70	0.70	0.70
62	503RM07B029	Sahid smarak park-Campus Road	1.40	1.40	1.40	1.40
63	503RM07B030	Khalanga-Danda pasal-Gaira-Bazar road	0.50	0.50	0.50	0.50
64	503RM07B031	Khalanga-thapa danda-Bijuwar road	1.00	1.00	1.00	1.00
65	503RM07B032	Guthakaseri- Dhobikhola-Bhanjyang Road	1.00	1.00	1.00	1.00
66	503RM07B033	Guthakaseri-Jhakrishthan road	1.40	1.40	1.40	1.40
67	503RM07B034	Kajuwa-Samsanghat-Jhakrishthan Road	1.40	1.40	1.40	1.40
68	503RM07B035	Woda karyalaya-05-dhundi road	3.90	3.90	3.90	3.90
69	503RM07B036	Dandaghar-dalit basti road	0.80	0.80	0.80	0.80
70	503RM07B037	Kamerpani-rapchu-sima road	2.60	2.60	2.60	2.60
71	503RM07B038	Pipalneta-okhari road	1.20	1.20	1.20	1.20
72	503RM07B039	Ramche-rithekharka-sarangkot-jorpohari road	3.20	3.20	3.20	3.20
73	503RM07B040	Rampani-woda karyalaya-05 road	1.20	1.20	1.20	1.20
74	503RM07B041	patihalna-bhedipata road	2.00	2.00	2.00	2.00
75	503RM07C001	Ratamata-deurali road	0.60	0.60	0.60	0.60

SN	Road Section Code	Road Name	Maintenance			
			Emergency	Routine	Recurrent	Periodic
76	503RM07C002	Chautara-tallo bheg road	1.00	1.00	1.00	1.00
77	503RM07C003	Palukathan-khanni khola-ward office-02 road	1.10	1.10	1.10	1.10
78	503RM07C004	Chunjathati-rati pokhari -upallo tole-takuri road	2.10	2.10	2.10	2.10
79	503RM07C005	Majhpokhara-chaure-mudkhola-ward no.02	1.40	1.40	1.40	1.40
80	503RM07C032	Dharampani-ammare road	2.00	2.00	2.00	2.00
81	503RM07C006	Dharampani- jhankristhan road	1.40	1.40	1.40	1.40
82	503RM07C007	Raspurkot-chaurepani road	2.00	2.00	2.00	2.00
83	503RM07C008	Saraswati Tole marg	0.30	0.30	0.30	0.30
84	503RM07C009	Khalanga-IDO Road	1.50	1.50	1.50	1.50
85	503RM07C010	Khalanga-Mallarani gaupalika road	0.40	0.40	0.40	0.40
86	503RM07C011	Toprekharika-Samsanghat Road	0.70	0.70	0.70	0.70
87	503RM07C012	Guthakaseri-Roka Tole Road	0.20	0.20	0.20	0.20
88	503RM07C013	Pokhari danda-Samsanghat Road	0.60	0.60	0.60	0.60
89	503RM07C014	Salthanti-jebindanda-amilikhola-majhpokhara road	0.60	0.60	0.60	0.60
90	503RM07C015	Majha-Padhera-Khelmaindhan marga	0.20	0.20	0.20	0.20
91	503RM07C016	Bagkhor-Ripa Road	0.20	0.20	0.20	0.20
92	503RM07C017	Asharechaur-Picnic spot road	1.20	1.20	1.20	1.20
93	503RM07C018	Lay khola-Kholabari Road	0.40	0.40	0.40	0.40
94	503RM07C019	Ekley pipal-Thulochaur road	0.20	0.20	0.20	0.20
95	503RM07C020	Garinarukh-Devimandir road	0.50	0.50	0.50	0.50
96	503RM07C021	Mallarani danda-Zipline Road	0.50	0.50	0.50	0.50
97	503RM07C022	Khalanga-Swasta Kendra Road	0.20	0.20	0.20	0.20
98	503RM07C023	Thapachautari-dalit basti road	0.60	0.60	0.60	0.60
99	503RM07C024	Milanchautari-hingkhola road	0.70	0.70	0.70	0.70
100	503RM07C025	Takura-padherachaur road	0.50	0.50	0.50	0.50
101	503RM07C026	Takura- Baidhya Chaur Road	0.80	0.80	0.80	0.80
102	503RM07C027	Bajabari-ghaidanda road	2.00	2.00	2.00	2.00
103	503RM07C028	Ghartitola-para road	0.40	0.40	0.40	0.40
104	503RM07C029	Darbhane budathoki tole- chautari road	0.60	0.60	0.60	0.60
105	503RM07C030	Ward karyalaya-05-rana tole road	0.40	0.40	0.40	0.40
106	503RM07C031	Bhadaure-panikhola road	0.30	0.30	0.30	0.30
107	503RM07D001	Dhundi-panighat road	0.20	0.20	0.20	0.20
Total			237.90	237.90	237.90	201.00

5.4.2 Improvement

Improvement refers to actions required to improve a road to bring it to a maintainable all-weather standard. The different types of improvement are as follows;

a) Rehabilitation

Significant repairs required to bring a very poor road back to a maintainable standard. This does not include any changes to the original surface type.

b) Graveling

Placement of a gravel layer to make it all-weather and ensure that the road remains passable during the rainy season.

c) Cross drainage

Placement of suitable cross-drainage structures with the aim of making the road all-weather and ensuring that the road remains passable even during the rainy season

d) Protective structures

Placement of retaining walls and lined side drains to avoid excessive damage to the road during the rainy season and bring it to a maintainable standard.

e) Blacktopping

Placement of a blacktop layer in roads with traffic volumes exceeding 50 passenger car units (PCU) to reduce damage to the road surface.

f) Widening

Increase of the road width in roads with traffic volumes exceeding 500 passenger car units (PCU) to ensure the proper flow of traffic.

5.4.3 New Construction

New construction refers to construction of new road linkage according to the necessity of the Rural Municipality especially in those places where roads have not linked. This includes opening of new track and establishment connectivity to the new area.

There are 36.90 km road which needs to be blacktop, 190.70 km road needs graveling. None of the roads need any rehabilitation, widening and bridge construction works. 190.70 km length line drain is needed and 13km new construction & details in table-21.

Table 21: Improvement requirements for different roads

SN	Code	Road Name	Rehabilitation (Km)	Blacktopping (Km)	Widening (Km)	Gravelling (Km)	Bridge (m)	Drain (Rm)	New Construction (Km)
1	503DR001	Goyalchhedi- solahalna-markawang road	-	5.30	-	-	-	-	-
2	503DR002	Chunjathati -Arghakhachi road	-	2.40	-	-	-	-	-
3	503DR003	Khaira-Khalanga road	-	3.70	-	-	-	-	-
4	503DR004	Khalanga-Chujathanti-Jogitari road	-	11.50	-	-	-	-	-
5	503RM07A001	Mallarani danda -paryatakiya marg	-	14.00	-	-	-	-	-
6	503RM07A002	Todke-sindure road	-	-	-	2.30	-	2.30	-
7	503RM07A003	Todke- budhathapla road	-	-	-	1.30	-	1.30	-
8	503RM07A004	Solahalna-sugure road	-	-	-	1.30	-	1.30	-
9	503RM07A005	Thulachaur-anyar pokhari-alkabanjh-bange road	-	-	-	2.00	-	2.00	-
10	503RM07A006	Solahalna-padime-lukka road	-	-	-	2.70	-	2.70	-
11	503RM07A007	Deurali-tham-solahalna-road	-	-	-	0.90	-	0.90	-
12	503RM07A008	Deurali-pani gaira road	-	-	-	1.50	-	1.50	-
13	503RM07A009	Pipalneti-chundari khola-akrate-chuja road	-	-	-	4.20	-	4.20	-
14	503RM07A010	Sanilekh - saar ghar road	-	-	-	1.90	-	1.90	-
15	503RM07A011	Chunjathati-kudara-banna-arbaang-deurali road	-	-	-	8.70	-	8.70	-
16	503RM07A012	Chunjathati-chauja-khauri pokhari road	-	-	-	5.30	-	5.30	-
17	503RM07A013	Chunjathati-kharindanda-chedaa pokhari-goyalachhedi-solahalna road	-	-	-	5.50	-	5.50	-
18	503RM07A014	Sirsegaira-mundanda-sahutola- barbot-chunjathathi road	-	-	-	9.70	-	9.70	-
19	503RM07A015	Dharampani-girichaur-sirkot-sarangkot road	-	-	-	8.20	-	8.20	-
20	503RM07A016	Chyantari-chaurpani- airawati-raspurkot road	-	-	-	1.80	-	1.80	-
21	503RM07A017	Chaurpani-danda kharka road	-	-	-	2.70	-	2.70	-

SN	Code	Road Name	Rehabilitation (Km)	Blacktopping (Km)	Widening (Km)	Gravelling (Km)	Bridge (m)	Drain (Rm)	New Construction (Km)
22	503RM07A018	Airawati-bijuli road	-	-	-	0.70	-	0.70	-
23	503RM07A020	Khanepani chowk-tallo lambela-pipal danda road	-	-	-	2.60	-	2.60	-
24	503RM07A019	Kabardahall-lambela-Pipal danda road	-	-	-	3.20	-	3.20	-
25	503RM07A021	Okhararukh-Pokhari danda-Baskhola Road	-	-	-	1.60	-	1.60	-
26	503RM07A022	Bhanjyang-pandedanda-jhimruk khola	-	-	-	4.00	-	4.00	-
27	503RM07A023	Saribang khola- khalanga main road	-	-	-	0.90	-	0.90	-
28	503RM07A024	Jhakrishthan-Bungala Road	-	-	-	2.90	-	2.90	-
29	503RM07A025	Jhimruk-Jhakrishthan-Katrekhola-Guthakaseri Road	-	-	-	3.90	-	3.90	-
30	503RM07A026	Khalanga-guthakaseri road	-	-	-	1.30	-	1.30	-
31	503RM07A027	Khalanga-pipal danda road	-	-	-	2.00	-	2.00	-
32	503RM07A028	Mathillo Kaseri road	-	-	-	0.70	-	0.70	-
33	503RM07A029	Kumikot- kantrekhola-ramche-jorpokhari-ghorthapa-dhundi-khaira-swasthachauki-kumikot khalanga road (Ringroad)	-	-	-	19.40	-	19.40	-
34	503RM07B001	Lakuri rukh-majhpani tower-sunar dewauli road	-	-	-	1.00	-	1.00	-
35	503RM07B002	Todke-kamdale road	-	-	-	0.50	-	0.50	-
36	503RM07B003	Aayar pokhari–daha danda road	-	-	-	0.40	-	0.40	-
37	503RM07B004	Aayar pokhari-domaaha khola road	-	-	-	0.60	-	0.60	-
38	503RM07B005	Todke-chadulee-harthunga road	-	-	-	2.00	-	2.00	-
39	503RM07B006	Harthunga-thapkot-deurali road	-	-	-	0.30	-	0.30	-
40	503RM07B007	Padime-sallithum road	-	-	-	0.90	-	0.90	-
41	503RM07B008	Khacinee danda-pani gairaa road	-	-	-	0.80	-	0.80	-
42	503RM07B009	Chunja-naamreekot-kusundanda road	-	-	-	2.20	-	2.20	-
43	503RM07B010	Saar ghar-dewauli danda road	-	-	-	0.70	-	0.70	-

SN	Code	Road Name	Rehabilitation (Km)	Blacktopping (Km)	Widening (Km)	Gravelling (Km)	Bridge (m)	Drain (Rm)	New Construction (Km)
44	503RM07B011	Chunja kharka-siute-cheda pokhari road	-	-	-	4.80	-	4.80	-
45	503RM07B012	Kudara-bhaisamare-kharindanda road	-	-	-	5.20	-	5.20	-
46	503RM07B013	Chautara-buchena road	-	-	-	0.90	-	0.90	-
47	503RM07B014	Kami pokhari-bastari-chitre danda road	-	-	-	3.20	-	3.20	-
48	503RM07B015	Jimur pani-ramche road	-	-	-	2.00	-	2.00	-
49	503RM07B016	Madhukare-bhakunde- Palukathan road	-	-	-	1.70	-	1.70	-
50	503RM07B017	Kudara-siute-kharindanda road	-	-	-	2.00	-	2.00	-
51	503RM07B018	Mundanda-chunja ward no.01	-	-	-	2.00	-	2.00	-
52	503RM07B019	Mundanda-bukeni road	-	-	-	0.70	-	0.70	-
53	503RM07B020	Chunjathati- budhdevi-krishi road	-	-	-	2.50	-	2.50	-
54	503RM07B021	Dharampani-raijanpani-chaurpani road	-	-	-	5.50	-	5.50	-
55	503RM07B022	Girichaur- raspurkot road	-	-	-	2.60	-	2.60	-
56	503RM07B023	Mundanda-jebindanda-salthanti road	-	-	-	3.30	-	3.30	-
57	503RM07B024	Tindhara-puntola road	-	-	-	1.10	-	1.10	-
58	503RM07B025	Bhattechaur-Newar tole road	-	-	-	0.60	-	0.60	-
59	503RM07B026	Lambela-Kota road	-	-	-	1.30	-	1.30	-
60	503RM07B027	Toprekharka-Kaseri Road	-	-	-	0.90	-	0.90	-
61	503RM07B028	Ranitola-army byarek road	-	-	-	0.70	-	0.70	-
62	503RM07B029	Sahid smarak park-Campus Road	-	-	-	1.40	-	1.40	-
63	503RM07B030	Khalanga-Danda pasal-Gaira-Bazar road	-	-	-	0.50	-	0.50	-
64	503RM07B031	Khalanga-thapa danda-Bijuwar road	-	-	-	1.00	-	1.00	-
65	503RM07B032	Guthakaseri- Dhobikhola-Bhanjyang Road	-	-	-	1.00	-	1.00	-

SN	Code	Road Name	Rehabilitation (Km)	Blacktopping (Km)	Widening (Km)	Gravelling (Km)	Bridge (m)	Drain (Rm)	New Construction (Km)
66	503RM07B033	Guthakaseri-Jhakrishthan road	-	-	-	1.40	-	1.40	-
67	503RM07B034	Kajuwa-Samsanghat-Jhakrishthan Road	-	-	-	1.40	-	1.40	-
68	503RM07B035	Woda karyalaya-05-dhundi road	-	-	-	3.90	-	3.90	-
69	503RM07B036	Dandaghar-dalit basti road	-	-	-	0.80	-	0.80	-
70	503RM07B037	Kamerpani-rapchu-sima road	-	-	-	2.60	-	2.60	-
71	503RM07B038	Pipalneta-okhari road	-	-	-	1.20	-	1.20	-
72	503RM07B039	Ramche-rithekharka-sarangkot-jorpohari road	-	-	-	3.20	-	3.20	-
73	503RM07B040	Rampani-woda karyalaya-05 road	-	-	-	1.20	-	1.20	-
74	503RM07B041	patihalna-bhedipata road	-	-	-	2.00	-	2.00	0.00
75	503RM07C001	Ratamata-deurali road	-	-	-	0.60	-	0.60	-
76	503RM07C002	Chautara-tallo bheg road	-	-	-	1.00	-	1.00	-
77	503RM07C003	Palukathan-khanni khola-ward office-02 road	-	-	-	1.10	-	1.10	-
78	503RM07C004	Chunjathati-rati pokhari -upallo tole-takuri road	-	-	-	2.10	-	2.10	-
79	503RM07C005	Majhpokhara-chaure-mudkhola-ward no.02	-	-	-	1.40	-	1.40	-
80	503RM07C032	Dharampani-ammare road	-	-	-	2.00	-	2.00	-
81	503RM07C006	Dharampani- jhankrishthan road	-	-	-	1.40	-	1.40	-
82	503RM07C007	Raspurkot-chaurepani road	-	-	-	2.00	-	2.00	-
83	503RM07C008	Saraswati Tole marg	-	-	-	0.30	-	0.30	-
84	503RM07C009	Khalanga-IDO Road	-	-	-	1.50	-	1.50	-
85	503RM07C010	Khalanga-Mallarani gaupalika road	-	-	-	0.40	-	0.40	-
86	503RM07C011	Toprekharaka-Samsanghat Road	-	-	-	0.70	-	0.70	-
87	503RM07C012	Guthakaseri-Roka Tole Road	-	-	-	0.20	-	0.20	-

SN	Code	Road Name	Rehabilitation (Km)	Blacktopping (Km)	Widening (Km)	Gravelling (Km)	Bridge (m)	Drain (Rm)	New Construction (Km)
88	503RM07C013	Pokhari danda-Samsanghat Road	-	-	-	0.60	-	0.60	-
89	503RM07C014	Salthanti-jebindanda-amilikhola-majhpokhara road	-	-	-	0.60	-	0.60	-
90	503RM07C015	Majha-Padhera-Khelmaindhan marga	-	-	-	0.20	-	0.20	-
91	503RM07C016	Bagkhor-Ripa Road	-	-	-	0.20	-	0.20	-
92	503RM07C017	Asharechaur-Picnic spot road	-	-	-	1.20	-	1.20	-
93	503RM07C018	Lay khola-Kholabari Road	-	-	-	0.40	-	0.40	-
94	503RM07C019	Ekley pipal-Thulochaur road	-	-	-	0.20	-	0.20	-
95	503RM07C020	Garinarukh-Devimandir road	-	-	-	0.50	-	0.50	-
96	503RM07C021	Mallarani danda-Zipline Road	-	-	-	0.50	-	0.50	-
97	503RM07C022	Khalanga-Swasta Kendra Road	-	-	-	0.20	-	0.20	-
98	503RM07C023	Thapachautari-dalit basti road	-	-	-	0.60	-	0.60	-
99	503RM07C024	Milanchautari-hingkhola road	-	-	-	0.70	-	0.70	-
100	503RM07C025	Takura-padherachaur road	-	-	-	0.50	-	0.50	-
101	503RM07C026	Takura- Baidhya Chaur Road	-	-	-	0.80	-	0.80	-
102	503RM07C027	Bajabari-ghaidanda road	-	-	-	2.00	-	2.00	-
103	503RM07C028	Ghartitola-para road	-	-	-	0.40	-	0.40	-
104	503RM07C029	Darbhan budathoki tole-chautari road	-	-	-	0.60	-	0.60	-
105	503RM07C030	Ward karyalaya-05-rana tole road	-	-	-	0.40	-	0.40	-
106	503RM07C031	Bhadaure-panikhola road	-	-	-	0.30	-	0.30	-
107	503RM07D001	Dhundi-panighat road	-	-	-	0.20	-	0.20	-
Total			0.00	36.90	0.00	201.00	0.00	201.00	0.00

5.5 Cost Estimation

5.5.1 Conservation

The costs of the required conservation measures have been calculated using the following standard costs. These standard costs have been applied to the entire rural municipal road core network, whereby distinction is made based on the surface type in the case of recurrent and periodic maintenance. It must be noted here that the standard costs for periodic maintenance are the average annual costs, but that the cost for applying periodic maintenance in a specific section every several years will be higher (the cumulative cost of several years). The estimated costs for the first year are presented below, while the costs for subsequent years will vary slightly as road surface types change as a result of improvements. Detailed cost estimations for the actual maintenance needs in any given year will be presented in the Annual Road Maintenance Plan (ARMP). The standard unit cost for conservation is given in table-22.

Table 22: Standard unit costs for conservation

Activity	Unit	Unit Cost (NPR/km)
Emergency maintenance	km	26,000
Routine maintenance	km	32,500
Recurrent maintenance (blacktop)	km	260,000
Recurrent maintenance (gravel)	km	195,000
Recurrent maintenance (earthen)	km	130,000
Periodic maintenance (blacktop)	km	260,000
Periodic maintenance (gravel)	km	325,000

The conservation cost for emergency maintenance is NRs. 6,185.40, routine maintenance is NRs. 7,731.75, and recurrent maintenance (earthen) is NRs. 30,927.00 and periodic maintenance is NRs. 65,325.00. The total first year estimated cost required is NRs. 110,169.15, while total cost for five years is NRs. 550,845.75. The detailed estimated conservation cost is given in table-23.

Table 23: Estimated conservation costs for the first year (NPR '000)

SN	Road Section Code	Length (Km)	Emergency Maintenance (NRs.)	Routine Maintenance (NRs.)	Recurrent Maintenance Earthen (NRs.)	Periodic Maintenance Gravel (NRs.)	Total First Year (NRs.)	Total Five Year (NRs.)
1	503DR001	5.30	137.80	172.25	689.00	-	999.05	4,995.25
2	503DR002	2.40	62.40	78.00	312.00	-	452.40	2,262.00
3	503DR003	3.70	96.20	120.25	481.00	-	697.45	3,487.25
4	503DR004	11.50	299.00	373.75	1,495.00	-	2,167.75	10,838.75
5	503RM07A001	14.00	364.00	455.00	1,820.00	-	2,639.00	13,195.00
6	503RM07A002	2.30	59.80	74.75	299.00	747.50	1,181.05	5,905.25
7	503RM07A003	1.30	33.80	42.25	169.00	422.50	667.55	3,337.75
8	503RM07A004	1.30	33.80	42.25	169.00	422.50	667.55	3,337.75
9	503RM07A005	2.00	52.00	65.00	260.00	650.00	1,027.00	5,135.00
10	503RM07A006	2.70	70.20	87.75	351.00	877.50	1,386.45	6,932.25
11	503RM07A007	0.90	23.40	29.25	117.00	292.50	462.15	2,310.75
12	503RM07A008	1.50	39.00	48.75	195.00	487.50	770.25	3,851.25
13	503RM07A009	4.20	109.20	136.50	546.00	1,365.00	2,156.70	10,783.50
14	503RM07A010	1.90	49.40	61.75	247.00	617.50	975.65	4,878.25
15	503RM07A011	8.70	226.20	282.75	1,131.00	2,827.50	4,467.45	22,337.25
16	503RM07A012	5.30	137.80	172.25	689.00	1,722.50	2,721.55	13,607.75
17	503RM07A013	5.50	143.00	178.75	715.00	1,787.50	2,824.25	14,121.25
18	503RM07A014	9.70	252.20	315.25	1,261.00	3,152.50	4,980.95	24,904.75
19	503RM07A015	8.20	213.20	266.50	1,066.00	2,665.00	4,210.70	21,053.50

SN	Road Section Code	Length (Km)	Emergency Maintenance (NRs.)	Routine Maintenance (NRs.)	Recurrent Maintenance Earthen (NRs.)	Periodic Maintenance Gravel (NRs.)	Total First Year (NRs.)	Total Five Year (NRs.)
20	503RM07A016	1.80	46.80	58.50	234.00	585.00	924.30	4,621.50
21	503RM07A017	2.70	70.20	87.75	351.00	877.50	1,386.45	6,932.25
22	503RM07A018	0.70	18.20	22.75	91.00	227.50	359.45	1,797.25
23	503RM07A020	2.60	67.60	84.50	338.00	845.00	1,335.10	6,675.50
24	503RM07A019	3.20	83.20	104.00	416.00	1,040.00	1,643.20	8,216.00
25	503RM07A021	1.60	41.60	52.00	208.00	520.00	821.60	4,108.00
26	503RM07A022	4.00	104.00	130.00	520.00	1,300.00	2,054.00	10,270.00
27	503RM07A023	0.90	23.40	29.25	117.00	292.50	462.15	2,310.75
28	503RM07A024	2.90	75.40	94.25	377.00	942.50	1,489.15	7,445.75
29	503RM07A025	3.90	101.40	126.75	507.00	1,267.50	2,002.65	10,013.25
30	503RM07A026	1.30	33.80	42.25	169.00	422.50	667.55	3,337.75
31	503RM07A027	2.00	52.00	65.00	260.00	650.00	1,027.00	5,135.00
32	503RM07A028	0.70	18.20	22.75	91.00	227.50	359.45	1,797.25
33	503RM07A029	19.40	504.40	630.50	2,522.00	6,305.00	9,961.90	49,809.50
34	503RM07B001	1.00	26.00	32.50	130.00	325.00	513.50	2,567.50
35	503RM07B002	0.50	13.00	16.25	65.00	162.50	256.75	1,283.75
36	503RM07B003	0.40	10.40	13.00	52.00	130.00	205.40	1,027.00
37	503RM07B004	0.60	15.60	19.50	78.00	195.00	308.10	1,540.50
38	503RM07B005	2.00	52.00	65.00	260.00	650.00	1,027.00	5,135.00
39	503RM07B006	0.30	7.80	9.75	39.00	97.50	154.05	770.25
40	503RM07B007	0.90	23.40	29.25	117.00	292.50	462.15	2,310.75

SN	Road Section Code	Length (Km)	Emergency Maintenance (NRs.)	Routine Maintenance (NRs.)	Recurrent Maintenance Earthen (NRs.)	Periodic Maintenance Gravel (NRs.)	Total First Year (NRs.)	Total Five Year (NRs.)
41	503RM07B008	0.80	20.80	26.00	104.00	260.00	410.80	2,054.00
42	503RM07B009	2.20	57.20	71.50	286.00	715.00	1,129.70	5,648.50
43	503RM07B010	0.70	18.20	22.75	91.00	227.50	359.45	1,797.25
44	503RM07B011	4.80	124.80	156.00	624.00	1,560.00	2,464.80	12,324.00
45	503RM07B012	5.20	135.20	169.00	676.00	1,690.00	2,670.20	13,351.00
46	503RM07B013	0.90	23.40	29.25	117.00	292.50	462.15	2,310.75
47	503RM07B014	3.20	83.20	104.00	416.00	1,040.00	1,643.20	8,216.00
48	503RM07B015	2.00	52.00	65.00	260.00	650.00	1,027.00	5,135.00
49	503RM07B016	1.70	44.20	55.25	221.00	552.50	872.95	4,364.75
50	503RM07B017	2.00	52.00	65.00	260.00	650.00	1,027.00	5,135.00
51	503RM07B018	2.00	52.00	65.00	260.00	650.00	1,027.00	5,135.00
52	503RM07B019	0.70	18.20	22.75	91.00	227.50	359.45	1,797.25
53	503RM07B020	2.50	65.00	81.25	325.00	812.50	1,283.75	6,418.75
54	503RM07B021	5.50	143.00	178.75	715.00	1,787.50	2,824.25	14,121.25
55	503RM07B022	2.60	67.60	84.50	338.00	845.00	1,335.10	6,675.50
56	503RM07B023	3.30	85.80	107.25	429.00	1,072.50	1,694.55	8,472.75
57	503RM07B024	1.10	28.60	35.75	143.00	357.50	564.85	2,824.25
58	503RM07B025	0.60	15.60	19.50	78.00	195.00	308.10	1,540.50
59	503RM07B026	1.30	33.80	42.25	169.00	422.50	667.55	3,337.75
60	503RM07B027	0.90	23.40	29.25	117.00	292.50	462.15	2,310.75
61	503RM07B028	0.70	18.20	22.75	91.00	227.50	359.45	1,797.25

SN	Road Section Code	Length (Km)	Emergency Maintenance (NRs.)	Routine Maintenance (NRs.)	Recurrent Maintenance Earthen (NRs.)	Periodic Maintenance Gravel (NRs.)	Total First Year (NRs.)	Total Five Year (NRs.)
62	503RM07B029	1.40	36.40	45.50	182.00	455.00	718.90	3,594.50
63	503RM07B030	0.50	13.00	16.25	65.00	162.50	256.75	1,283.75
64	503RM07B031	1.00	26.00	32.50	130.00	325.00	513.50	2,567.50
65	503RM07B032	1.00	26.00	32.50	130.00	325.00	513.50	2,567.50
66	503RM07B033	1.40	36.40	45.50	182.00	455.00	718.90	3,594.50
67	503RM07B034	1.40	36.40	45.50	182.00	455.00	718.90	3,594.50
68	503RM07B035	3.90	101.40	126.75	507.00	1,267.50	2,002.65	10,013.25
69	503RM07B036	0.80	20.80	26.00	104.00	260.00	410.80	2,054.00
70	503RM07B037	2.60	67.60	84.50	338.00	845.00	1,335.10	6,675.50
71	503RM07B038	1.20	31.20	39.00	156.00	390.00	616.20	3,081.00
72	503RM07B039	3.20	83.20	104.00	416.00	1,040.00	1,643.20	8,216.00
73	503RM07B040	1.20	31.20	39.00	156.00	390.00	616.20	3,081.00
74	503RM07B041	2.00	52.00	65.00	260.00	650.00	1,027.00	5,135.00
75	503RM07C001	0.60	15.60	19.50	78.00	195.00	308.10	1,540.50
76	503RM07C002	1.00	26.00	32.50	130.00	325.00	513.50	2,567.50
77	503RM07C003	1.10	28.60	35.75	143.00	357.50	564.85	2,824.25
78	503RM07C004	2.10	54.60	68.25	273.00	682.50	1,078.35	5,391.75
79	503RM07C005	1.40	36.40	45.50	182.00	455.00	718.90	3,594.50
80	503RM07C032	2.00	52.00	65.00	260.00	650.00	1,027.00	5,135.00
81	503RM07C006	1.40	36.40	45.50	182.00	455.00	718.90	3,594.50
82	503RM07C007	2.00	52.00	65.00	260.00	650.00	1,027.00	5,135.00

SN	Road Section Code	Length (Km)	Emergency Maintenance (NRs.)	Routine Maintenance (NRs.)	Recurrent Maintenance Earthen (NRs.)	Periodic Maintenance Gravel (NRs.)	Total First Year (NRs.)	Total Five Year (NRs.)
83	503RM07C008	0.30	7.80	9.75	39.00	97.50	154.05	770.25
84	503RM07C009	1.50	39.00	48.75	195.00	487.50	770.25	3,851.25
85	503RM07C010	0.40	10.40	13.00	52.00	130.00	205.40	1,027.00
86	503RM07C011	0.70	18.20	22.75	91.00	227.50	359.45	1,797.25
87	503RM07C012	0.20	5.20	6.50	26.00	65.00	102.70	513.50
88	503RM07C013	0.60	15.60	19.50	78.00	195.00	308.10	1,540.50
89	503RM07C014	0.60	15.60	19.50	78.00	195.00	308.10	1,540.50
90	503RM07C015	0.20	5.20	6.50	26.00	65.00	102.70	513.50
91	503RM07C016	0.20	5.20	6.50	26.00	65.00	102.70	513.50
92	503RM07C017	1.20	31.20	39.00	156.00	390.00	616.20	3,081.00
93	503RM07C018	0.40	10.40	13.00	52.00	130.00	205.40	1,027.00
94	503RM07C019	0.20	5.20	6.50	26.00	65.00	102.70	513.50
95	503RM07C020	0.50	13.00	16.25	65.00	162.50	256.75	1,283.75
96	503RM07C021	0.50	13.00	16.25	65.00	162.50	256.75	1,283.75
97	503RM07C022	0.20	5.20	6.50	26.00	65.00	102.70	513.50
98	503RM07C023	0.60	15.60	19.50	78.00	195.00	308.10	1,540.50
99	503RM07C024	0.70	18.20	22.75	91.00	227.50	359.45	1,797.25
100	503RM07C025	0.50	13.00	16.25	65.00	162.50	256.75	1,283.75
101	503RM07C026	0.80	20.80	26.00	104.00	260.00	410.80	2,054.00
102	503RM07C027	2.00	52.00	65.00	260.00	650.00	1,027.00	5,135.00
103	503RM07C028	0.40	10.40	13.00	52.00	130.00	205.40	1,027.00

SN	Road Section Code	Length (Km)	Emergency Maintenance (NRs.)	Routine Maintenance (NRs.)	Recurrent Maintenance Earthen (NRs.)	Periodic Maintenance Gravel (NRs.)	Total First Year (NRs.)	Total Five Year (NRs.)
104	503RM07C029	0.60	15.60	19.50	78.00	195.00	308.10	1,540.50
105	503RM07C030	0.40	10.40	13.00	52.00	130.00	205.40	1,027.00
106	503RM07C031	0.30	7.80	9.75	39.00	97.50	154.05	770.25
107	503RM07D001	0.20	5.20	6.50	26.00	65.00	102.70	513.50
Total NRs.			6,185.40	7,731.75	30,927.00	65,325.00	110,169.15	550,845.75

5.5.2 Improvement

The costs of the required improvement measures have been calculated using the following standard costs. The standard unit costs for improvement activities are given in table-24.

Table 24: Standard unit costs for improvement and new construction

Activity	Unit	Unit cost (NPR/km)
Rehabilitation	km	156,000
Widening	m	2,600
Gravelling	km	1,750,000
Blacktopping	km	7,400,000
Bridge construction	m	780,000
Slab culvert construction	m	195,000
CC Causeway construction	m	130,000
Stone Causeway construction	m	19,500
Pipe culvert placement	unit	130,000
Masonry wall construction	m ³	10,400
Gabion wall construction	m ³	5,900
Lined drain construction	m	5,900
Track opening	km	1,300,000

The total improvement cost for blacktopping is NRs. 273,060,000, gravelling is NRs. NRs. 351,750.00 and there are no any rehabilitation, widening and bridge construction works. The

line drain construction is NRs. 1,185.90 and for new construction is NRs. 13,000,000. The total estimated improvement cost is NRs. 607910130. The details for improvement cost are given in table-23.

Table 25: Estimated improvement costs for the first year (NPR '000)

SN	Road Section Code	Length (Km)	Rehabilitation (NRs.)	Blacktopping (NRs.)	Widening (NRs.)	Gravelling (NRs.)	Bridge (NRs.)	Drain (NRs.)	New Construction (NRs.)
1	503DR001	5.30	-	39,220.00	-	-	-	-	-
2	503DR002	2.40	-	17,760.00	-	-	-	-	-
3	503DR003	3.70	-	27,380.00	-	-	-	-	-
4	503DR004	11.50	-	85,100.00	-	-	-	-	-
5	503RM07A001	14.00	-	103,600.00	-	-	-	-	-
6	503RM07A002	2.30	-	-	-	4,025.00	-	13.57	-
7	503RM07A003	1.30	-	-	-	2,275.00	-	7.67	-
8	503RM07A004	1.30	-	-	-	2,275.00	-	7.67	-
9	503RM07A005	2.00	-	-	-	3,500.00	-	11.80	-
10	503RM07A006	2.70	-	-	-	4,725.00	-	15.93	-
11	503RM07A007	0.90	-	-	-	1,575.00	-	5.31	-
12	503RM07A008	1.50	-	-	-	2,625.00	-	8.85	-

SN	Road Section Code	Length (Km)	Rehabilitation (NRs.)	Blacktopping (NRs.)	Widening (NRs.)	Gravelling (NRs.)	Bridge (NRs.)	Drain (NRs.)	New Construction (NRs.)
13	503RM07A009	4.20	-	-	-	7,350.00	-	24.78	-
14	503RM07A010	1.90	-	-	-	3,325.00	-	11.21	-
15	503RM07A011	8.70	-	-	-	15,225.00	-	51.33	-
16	503RM07A012	5.30	-	-	-	9,275.00	-	31.27	-
17	503RM07A013	5.50	-	-	-	9,625.00	-	32.45	-
18	503RM07A014	9.70	-	-	-	16,975.00	-	57.23	-
19	503RM07A015	8.20	-	-	-	14,350.00	-	48.38	-
20	503RM07A016	1.80	-	-	-	3,150.00	-	10.62	-
21	503RM07A017	2.70	-	-	-	4,725.00	-	15.93	-
22	503RM07A018	0.70	-	-	-	1,225.00	-	4.13	-
23	503RM07A020	2.60	-	-	-	4,550.00	-	15.34	-
24	503RM07A019	3.20	-	-	-	5,600.00	-	18.88	-
25	503RM07A021	1.60	-	-	-	2,800.00	-	9.44	-

SN	Road Section Code	Length (Km)	Rehabilitation (NRs.)	Blacktopping (NRs.)	Widening (NRs.)	Gravelling (NRs.)	Bridge (NRs.)	Drain (NRs.)	New Construction (NRs.)
26	503RM07A022	4.00	-	-	-	7,000.00	-	23.60	-
27	503RM07A023	0.90	-	-	-	1,575.00	-	5.31	-
28	503RM07A024	2.90	-	-	-	5,075.00	-	17.11	-
29	503RM07A025	3.90	-	-	-	6,825.00	-	23.01	-
30	503RM07A026	1.30	-	-	-	2,275.00	-	7.67	-
31	503RM07A027	2.00	-	-	-	3,500.00	-	11.80	-
32	503RM07A028	0.70	-	-	-	1,225.00	-	4.13	-
33	503RM07A029	19.40	-	-	-	33,950.00	-	114.46	-
34	503RM07B001	1.00	-	-	-	1,750.00	-	5.90	-
35	503RM07B002	0.50	-	-	-	875.00	-	2.95	-
36	503RM07B003	0.40	-	-	-	700.00	-	2.36	-
37	503RM07B004	0.60	-	-	-	1,050.00	-	3.54	-
38	503RM07B005	2.00	-	-	-	3,500.00	-	11.80	-

SN	Road Section Code	Length (Km)	Rehabilitation (NRs.)	Blacktopping (NRs.)	Widening (NRs.)	Gravelling (NRs.)	Bridge (NRs.)	Drain (NRs.)	New Construction (NRs.)
39	503RM07B006	0.30	-	-	-	525.00	-	1.77	-
40	503RM07B007	0.90	-	-	-	1,575.00	-	5.31	-
41	503RM07B008	0.80	-	-	-	1,400.00	-	4.72	-
42	503RM07B009	2.20	-	-	-	3,850.00	-	12.98	-
43	503RM07B010	0.70	-	-	-	1,225.00	-	4.13	-
44	503RM07B011	4.80	-	-	-	8,400.00	-	28.32	-
45	503RM07B012	5.20	-	-	-	9,100.00	-	30.68	-
46	503RM07B013	0.90	-	-	-	1,575.00	-	5.31	-
47	503RM07B014	3.20	-	-	-	5,600.00	-	18.88	-
48	503RM07B015	2.00	-	-	-	3,500.00	-	11.80	-
49	503RM07B016	1.70	-	-	-	2,975.00	-	10.03	-
50	503RM07B017	2.00	-	-	-	3,500.00	-	11.80	-
51	503RM07B018	2.00	-	-	-	3,500.00	-	11.80	-

SN	Road Section Code	Length (Km)	Rehabilitation (NRs.)	Blacktopping (NRs.)	Widening (NRs.)	Gravelling (NRs.)	Bridge (NRs.)	Drain (NRs.)	New Construction (NRs.)
52	503RM07B019	0.70	-	-	-	1,225.00	-	4.13	-
53	503RM07B020	2.50	-	-	-	4,375.00	-	14.75	-
54	503RM07B021	5.50	-	-	-	9,625.00	-	32.45	-
55	503RM07B022	2.60	-	-	-	4,550.00	-	15.34	-
56	503RM07B023	3.30	-	-	-	5,775.00	-	19.47	-
57	503RM07B024	1.10	-	-	-	1,925.00	-	6.49	-
58	503RM07B025	0.60	-	-	-	1,050.00	-	3.54	-
59	503RM07B026	1.30	-	-	-	2,275.00	-	7.67	-
60	503RM07B027	0.90	-	-	-	1,575.00	-	5.31	-
61	503RM07B028	0.70	-	-	-	1,225.00	-	4.13	-
62	503RM07B029	1.40	-	-	-	2,450.00	-	8.26	-
63	503RM07B030	0.50	-	-	-	875.00	-	2.95	-
64	503RM07B031	1.00	-	-	-	1,750.00	-	5.90	-

SN	Road Section Code	Length (Km)	Rehabilitation (NRs.)	Blacktopping (NRs.)	Widening (NRs.)	Gravelling (NRs.)	Bridge (NRs.)	Drain (NRs.)	New Construction (NRs.)
65	503RM07B032	1.00	-	-	-	1,750.00	-	5.90	-
66	503RM07B033	1.40	-	-	-	2,450.00	-	8.26	-
67	503RM07B034	1.40	-	-	-	2,450.00	-	8.26	-
68	503RM07B035	3.90	-	-	-	6,825.00	-	23.01	-
69	503RM07B036	0.80	-	-	-	1,400.00	-	4.72	-
70	503RM07B037	2.60	-	-	-	4,550.00	-	15.34	-
71	503RM07B038	1.20	-	-	-	2,100.00	-	7.08	-
72	503RM07B039	3.20	-	-	-	5,600.00	-	18.88	-
73	503RM07B040	1.20	-	-	-	2,100.00	-	7.08	-
74	503RM07B041	2.00	-	-	-	3,500.00	-	11.80	-
75	503RM07C001	0.60	-	-	-	1,050.00	-	3.54	-
76	503RM07C002	1.00	-	-	-	1,750.00	-	5.90	-
77	503RM07C003	1.10	-	-	-	1,925.00	-	6.49	-

SN	Road Section Code	Length (Km)	Rehabilitation (NRs.)	Blacktopping (NRs.)	Widening (NRs.)	Gravelling (NRs.)	Bridge (NRs.)	Drain (NRs.)	New Construction (NRs.)
78	503RM07C004	2.10	-	-	-	3,675.00	-	12.39	-
79	503RM07C005	1.40	-	-	-	2,450.00	-	8.26	-
80	503RM07C032	2.00	-	-	-	3,500.00	-	11.80	-
81	503RM07C006	1.40	-	-	-	2,450.00	-	8.26	-
82	503RM07C007	2.00	-	-	-	3,500.00	-	11.80	-
83	503RM07C008	0.30	-	-	-	525.00	-	1.77	-
84	503RM07C009	1.50	-	-	-	2,625.00	-	8.85	-
85	503RM07C010	0.40	-	-	-	700.00	-	2.36	-
86	503RM07C011	0.70	-	-	-	1,225.00	-	4.13	-
87	503RM07C012	0.20	-	-	-	350.00	-	1.18	-
88	503RM07C013	0.60	-	-	-	1,050.00	-	3.54	-
89	503RM07C014	0.60	-	-	-	1,050.00	-	3.54	-
90	503RM07C015	0.20	-	-	-	350.00	-	1.18	-

SN	Road Section Code	Length (Km)	Rehabilitation (NRs.)	Blacktopping (NRs.)	Widening (NRs.)	Gravelling (NRs.)	Bridge (NRs.)	Drain (NRs.)	New Construction (NRs.)
91	503RM07C016	0.20	-	-	-	350.00	-	1.18	-
92	503RM07C017	1.20	-	-	-	2,100.00	-	7.08	-
93	503RM07C018	0.40	-	-	-	700.00	-	2.36	-
94	503RM07C019	0.20	-	-	-	350.00	-	1.18	-
95	503RM07C020	0.50	-	-	-	875.00	-	2.95	-
96	503RM07C021	0.50	-	-	-	875.00	-	2.95	-
97	503RM07C022	0.20	-	-	-	350.00	-	1.18	-
98	503RM07C023	0.60	-	-	-	1,050.00	-	3.54	-
99	503RM07C024	0.70	-	-	-	1,225.00	-	4.13	-
100	503RM07C025	0.50	-	-	-	875.00	-	2.95	-
101	503RM07C026	0.80	-	-	-	1,400.00	-	4.72	-
102	503RM07C027	2.00	-	-	-	3,500.00	-	11.80	-
103	503RM07C028	0.40	-	-	-	700.00	-	2.36	-

SN	Road Section Code	Length (Km)	Rehabilitation (NRs.)	Blacktopping (NRs.)	Widening (NRs.)	Gravelling (NRs.)	Bridge (NRs.)	Drain (NRs.)	New Construction (NRs.)
104	503RM07C029	0.60	-	-	-	1,050.00	-	3.54	-
105	503RM07C030	0.40	-	-	-	700.00	-	2.36	-
106	503RM07C031	0.30	-	-	-	525.00	-	1.77	-
107	503RM07D001	0.20	-	-	-	350.00	-	1.18	-
Total (NRs.)			-	273,060.00	-	351,750.00	-	1,185.90	-

Chapter-6: First Five Year Rural Municipality Transport Master Plan

6.1 Prioritized Rural Municipality Road for RMTMP

Rural Municipality Transport Master Plan of this Rural Municipality includes the following prioritized roads for upcoming five years. The list of prioritized roads for Rural Municipality Transport Plan is given in table below for different class of roads.

Table 26: List of Prioritized Road for Rural Municipality Transport Plan for DRCN Road

Code	Road Name	Ward Pass	Road Length (Km)	Total Score	Rank
503DR004	Khalanga-Chujathanti-Jogitari road	3,4	11.50	163.34	1
503DR003	Khaira-Khalanga road	4,5	3.70	154.14	2
503DR002	Chunjathati -Arghakhachi road	2	2.40	88.59	3
503DR001	Goyalchhedi- solahalna-markawang road	1	5.30	80.00	4

Table 27: List of Prioritized Road for Rural Municipality Transport Plan for Class-A Road

Code	Road Name	Ward Pass	Road Length (Km)	Total Score	Rank
503RM07A007	Deurali-tham-solahalna-road	1	0.90	84.00	1
503RM07A001	Mallarani danda -paryatakiya marg	1,4	14.00	81.39	2
503RM07A025	Jhimruk-Jhakrishthan-Katrekhola-Guthakaseri Road	4	3.90	78.00	3
503RM07A029	Kumikot- kantrekhola-ramche-jorpokhari-ghorthapa-dhundi-khaira-swasthachauki-kumikot khalanga road (Ringroad)	5	19.40	76.00	4
503RM07A014	Sirsegaira-mundanda-sahutola- barbot-chunjathathi road	3	9.70	74.00	5
503RM07A013	Chunjathati-kharindanda-chedaa pokhari-goyalachhedi-solahalna road	2	5.50	73.20	6
503RM07A022	Bhanjyang-pandedanda-jhimruk khola	4	4.00	72.40	7
503RM07A023	Saribang khola- khalanga main road	4	0.90	71.20	8
503RM07A027	Khalanga-pipal danda road	4	2.00	70.00	9
503RM07A012	Chunjathati-chauja-khauri pokhari road	2	5.30	66.00	10
503RM07A011	Chunjathati-kudara-banna-arbaang-deurali road	2	8.70	65.20	11
503RM07A026	Khalanga-guthakaseri road	4	1.30	64.40	12
503RM07A009	Pipalneti-chundari khola-akrate-chuja road	1	4.20	64.39	13

Code	Road Name	Ward Pass	Road Length (Km)	Total Score	Rank
503RM07A015	Dharampani-girichaur-sirkot-sarangkot road	3	8.20	64.00	14
503RM07A019	Kabardahall-lambela-Pipal danda road	4	3.20	63.20	15
503RM07A017	Chaurpani-danda kharka road	3	2.70	62.00	16
503RM07A020	Khanepani chowk-tallo lambela-pipal danda road	4	2.60	59.20	17
503RM07A005	Thulachaur-anyar pokhari-alkabanjh-bange road	1	2.00	58.80	18
503RM07A016	Chyantari-chaurpani- airawati-raspurkot road	3	1.80	58.00	19
503RM07A021	Okhararukh-Pokhari danda-Baskhola Road	4	1.60	57.60	20
503RM07A002	Todke-sindure road	1	2.30	57.19	21
503RM07A003	Todke- budhathapla road	1	1.30	56.00	22
503RM07A008	Deurali-pani gaira road	1	1.50	55.20	23
503RM07A024	Jhakrishthan-Bungala Road	4	2.90	54.00	24
503RM07A006	Solahalna-padime-lukka road	1	2.70	52.80	25
503RM07A028	Mathillo Kaseri road	4	0.70	52.00	26
503RM07A010	Sanilekh - saar ghar road	1	1.90	51.60	27
503RM07A004	Solahalna-sugure road	1	1.30	51.20	28
503RM07A018	Airawati-bijuli road	3	0.70	50.00	29

Table 28: List of Prioritized Road for Rural Municipality Transport Plan for Class-B Road

Code	Road Name	Ward Pass	Road Length (Km)	Total Score	Rank
503RM07B006	Harthunga-thapkot-deurali road	1	0.30	74.00	1
503RM07B018	Mundanda-chunja ward no.01	3	2.00	67.20	2
503RM07B029	Sahid smarak park-Campus Road	4	1.40	66.80	3
503RM07B011	Chunja kharka-siute-cheda pokhari road	2	4.80	66.00	4
503RM07B040	Rampani-woda karyalaya-05 road	5	1.20	64.80	5
503RM07B035	Woda karyalaya-05-dhundi road	5	3.90	64.00	6
503RM07B039	Ramche-rithekharka-sarangkot-jorpohari road	5	3.20	63.20	7
503RM07B041	patihalna-bhedipata road	4	2.00	61.01	8
503RM07B005	Todke-chadulee-harthunga road	1	2.00	60.79	9
503RM07B012	Kudara-bhaisamare-kharindanda road	2	5.20	60.00	10
503RM07B021	Dharampani-raijanpani-chaurpani road	3	5.50	57.20	11
503RM07B019	Mundanda-bukeni road	3	0.70	56.80	12
503RM07B030	Khalanga-Danda pasal-Gaira-Bazar road	4	0.50	56.40	13
503RM07B014	Kami pokhari-bastari-chitre danda road	2	3.20	56.00	14
503RM07B022	Girichaur- raspurkot road	3	2.60	55.20	15
503RM07B003	Aayar pokhari-daha danda road	1	0.40	54.40	16
503RM07B034	Kajuwa-Samsanghat-Jhakrishthan Road	4	1.40	54.00	17
503RM07B031	Khalanga-thapa danda-Bijuwar road	4	1.00	53.60	18

Code	Road Name	Ward Pass	Road Length (Km)	Total Score	Rank
503RM07B004	Aayar pokhari-domahe khola road	1	0.60	53.20	19
503RM07B002	Todke-kamdale road	1	0.50	52.40	20
503RM07B026	Lambela-Kota road	4	1.30	52.00	21
503RM07B033	Guthakaseri-Jhakrishthan road	4	1.40	51.60	22
503RM07B009	Chunja-naamreekot-kusundanda road	1	2.20	51.20	23
503RM07B027	Toprekharika-Kaseri Road	4	0.90	50.80	24
503RM07B032	Guthakaseri- Dhobikhola-Bhanjyang Road	4	1.00	50.40	25
503RM07B023	Mundanda-jebindanda-salthanti road	3	3.30	50.00	26
503RM07B038	Pipalmeta-okhari road	5	1.20	49.60	27
503RM07B001	Lakuri rukh-majhpani tower-sunar dewauli road	1	1.00	49.20	28
503RM07B008	Khacinee danda-pani gairaa road	1	0.80	48.80	29
503RM07B036	Dandaghar-dalit basti road	5	0.80	48.79	30
503RM07B037	Kamerpani-rapchu-sima road	5	2.60	48.41	31
503RM07B024	Tindhara-puntola road	4	1.10	48.40	32
503RM07B016	Madhukare-bhakunde- Palukathan road	2	1.70	48.00	33
503RM07B025	Bhattechaur-Newar tole road	4	0.60	47.60	34
503RM07B010	Saar ghar-dewauli danda road	1	0.70	47.20	35
503RM07B020	Chunjathati- budhdevi-krishi road	3	2.50	46.80	36
503RM07B028	Ranitola-army byarek road	4	0.70	46.40	37
503RM07B007	Padime-sallithum road	1	0.90	46.00	38
503RM07B017	Kudara-siute-kharindanda road	2	2.00	45.60	39
503RM07B015	Jimur pani-ramche road	2	2.00	45.20	40
503RM07B013	Chautara-buchena road	2	0.90	44.00	41

Table 29: List of Prioritized Road for Rural Municipality Transport Plan for Class-C Road

Code	Road Name	Ward Pass	Road Length (Km)	Total Score	Rank
503RM07C004	Chunjathati-rati pokhari -upallo tole-takuri road	2	2.10	58.80	1
503RM07C005	Majhpokhara-chaura-mudkhola-ward no.02	3	1.40	50.20	2
503RM07C027	Bajabari-ghaidanda road	5	2.00	50.00	3
503RM07C020	Garinarukh-Devimandir road	4	0.50	49.20	4
503RM07C023	Thapachautari-dalit basti road	5	0.60	48.41	5
503RM07C003	Palukathan-khanni khola-ward office-02 road	2	1.10	48.40	6
503RM07C029	Darbhanne budathoki tole-chautari road	5	0.60	47.20	7
503RM07C028	Ghartitola-para road	5	0.40	46.80	8
503RM07C026	Takura- Baidhya Chaur Road	5	0.80	46.40	9

Code	Road Name	Ward Pass	Road Length (Km)	Total Score	Rank
503RM07C002	Chautara-tallo bheg road	2	1.00	45.80	10
503RM07C010	Khalanga-Mallarani gaupalika road	4	0.40	45.60	11
503RM07C017	Asharechaur-Picnic spot road	4	1.20	45.40	12
503RM07C024	Milanchautari-hingkhola road	5	0.70	45.20	13
503RM07C001	Ratamata-deurali road	1	0.60	44.61	14
503RM07C014	Salthanti-jebindanda-amilikhola-majhpokhara road	4	0.60	44.60	15
503RM07C030	Ward karyalaya-05-rana tole road	5	0.40	44.40	16
503RM07C008	Saraswati Tole marg	4	0.30	44.20	17
503RM07C007	Raspurkot-chaurpani road	3	2.00	44.00	18
503RM07C006	Dharampani- jhankristhan road	3	1.40	43.80	19
503RM07C012	Guthakaseri-Roka Tole Road	4	0.20	43.60	20
503RM07C009	Khalanga-IDO Road	4	1.50	43.40	21
503RM07C021	Mallarani danda-Zipline Road	4	0.50	43.20	22
503RM07C018	Lay khola-Kholabari Road	4	0.40	43.00	23
503RM07C025	Takura-padherachaur road	5	0.50	42.81	24
503RM07C032	Dharampani-ammare road	3	2.00	42.80	25
503RM07C031	Bhadaure-panikhola road	5	0.30	42.61	26
503RM07C015	Majha-Padhera-Khelmaindhan marga	4	0.20	42.40	27
503RM07C011	Toprekharika-Samsanghat Road	4	0.70	42.00	28
503RM07C013	Pokhari danda-Samsanghat Road	4	0.60	41.60	29
503RM07C022	Khalanga-Swasta Kendra Road	4	0.20	41.40	30
503RM07C019	Ekley pipal-Thulochaur road	4	0.20	41.20	31
503RM07C016	Bagkhor-Ripa Road	4	0.20	40.80	32

Table 30: List of Prioritized Road for Rural Municipality Transport Plan for Class-D Road

Code	Road Name	Ward Pass	Road Length (Km)	Total Score	Rank
503RM07D001	Dhundi-panighat road	5	0.20	42.00	1

6.2 Five year Projected Financial Plan

The current budget plan of the municipality has been presented in Table below for the construction of rural road and maintenance. Based on the growth pattern, the growth factor is determined and the budget for the coming year has been forecasted as shown in below. The composition of source of budget in municipality shows heterogeneous nature. The very high amount of budget is granted by the Government of Nepal. So, if there is any changes 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 15-20% each year to meet the physical development of these bodies. Hence, in case of Mallarani Rural Municipality the growth rate of 15% has been used in all the calculations. The available budget for current FY 2080/81 for construction and maintenance of the road is NRs. 8,60,54,000. The details are given in table-31.

Table 31: Budgeted Amount of Mallarani Rural Municipality for Road Sector

Fiscal Year	Amount (NRs.)	Rate of Increment (%)	Remarks
2080/81 (BS)	8,60,54,000	15%	Mallarani Rural Municipality

Source: Office of the Mallarani Rural Municipality, 2024

6.3 Sharing of Funds

The financial plan and the finalization of the RMTMP shall be done based on the terms of reference given by the ministry. During preparation of RMTMP, the investment from total available resources under road sector for different classes of the road can be distributed as Apportion 30% for maintenance at first and remaining 70% shall be distributed. The MoFALD guidelines have set different views for budget distribution in different class of road:

- Class A road, $\geq 40\%$
- Class B road, $\leq 30\%$
- Class C road, $\leq 20\%$
- Class D road, $\leq 10\%$

Although, MoFALD has set guidelines for the distribution of budget, it was adjusted by making discussion with local authorities based on local condition and requirement of Municipality. The Mallarani Rural Municipality needs to invest 70% in construction and 30% in Maintenance of road for next 5 fiscal year. The construction sector Budget shall be invested with 40% in A-Class, 30% in B-class, 20% in C-class and 10% in D-class. The budget allocation for planning of rural municipality road is given in figure-13.

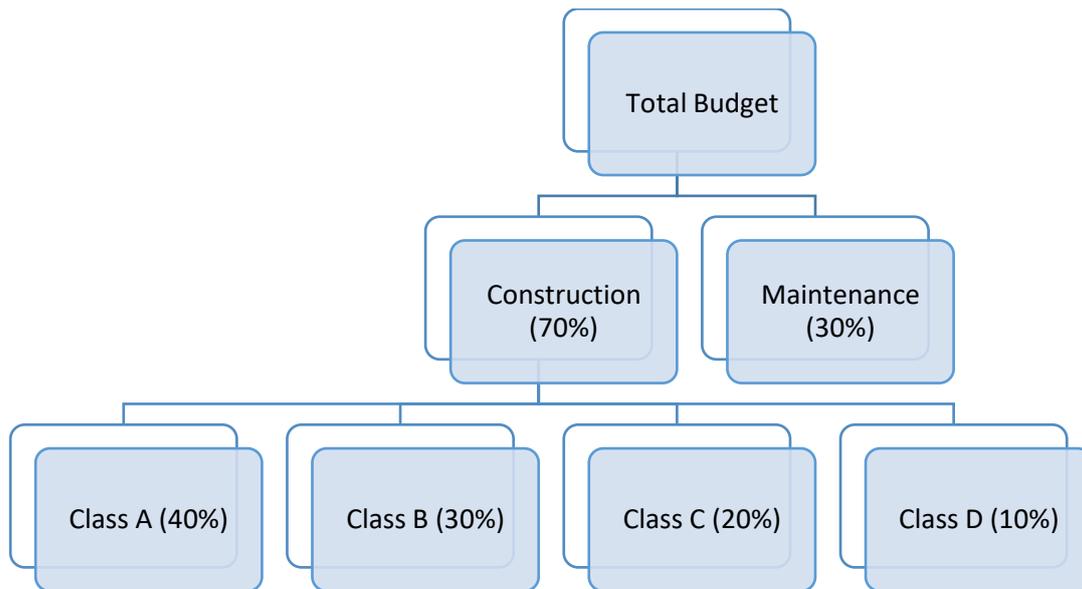


Figure 13: Budget Allocation for Planning of Rural Municipal Road

The estimate of budget required for the five years is prepared based on the assumption that the Class A road is to be made into 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 as possible. Due to limitations 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 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 sides of roadway is not considered in this plan.

RMTMP mainly deals with Class A, B and C roads, and Class D roads but privately owned Roads are not given any consideration. Interventions on those roads need to be incorporated in the annual budget plan. As compared to the present budget of Municipality, the estimated budget is more, and the deficit amount should be managed from outer sources.

Intervention that can't be completed in the predetermined year should be the next priority in the coming year. If a certain road, which was targeted to complete in the first year, could not be finished in the first year, it needs to be given first priority in next year's expenditure plan. If there is a deficit in annual expenditure, municipality need to incorporate that particular heading in next year at any cost. They can look for grant, assistance from district or

even central level or they can incorporate them by shifting budget from less important item/heading.

The details of the budget sharing of interventions and maintenance and for class A, B, C and D have been presented in the forecasted financial plan of the rural municipality in the road sector in table-32. Based on the available budget of the Mallarani Rural Municipality, with the current budget available the total forecasted cost at the end of 2086/87 AD is NRs. 753,293,000.

Table 32: Forecasted Financial Plan of Rural Municipality in Road Sector

Forecasted Year (Amount in NRs. 000)						
Fiscal Year (FY)	Base Year (BS)	1st Year (BS)	2nd Year (BS)	3rd Year (BS)	4th Year (BS)	5th Year (BS)
	2081/82	2082/83	2083/84	2084/85	2085/86	2086/87
Amount	86,054.00	98,962.00	113,806.00	130,877.00	150,509.00	173,085.00
Cumulative Budgets	86,054.00	185,016.00	298,822.00	429,699.00	580,208.00	753,293.00

As per the available cost divided for road construction is 70% of the budget, forecasted cost is NRs. 60,238,000 at present FY 2081/82 BS, while at the end of 5th year forecasted cost will be NRs. 121,161,000. Similarly for road maintenance is 30% of the budget, forecasted cost is NRs. 25,816,000 at present FY 2081/82 BS, while at the end of 5th year forecasted cost is NRs. 51,924,000. The details of the budget sharing of interventions and maintenance are given in table-33.

Table 33: Forecasted Financial Plan for Intervention of Rural Municipality in Road Sector

Forecasted Year (Amount in NRs. 000)							
Fiscal Year (FY)		Base Year (BS)	1st Year (BS)	2nd Year (BS)	3rd Year (BS)	4th Year (BS)	5th Year (BS)
		2081/82	2082/83	2083/84	2084/85	2085/86	2086/87
Amount (NRs.)		86,054.00	98,962.00	113,806.00	130,877.00	150,509.00	173,085.00
Intervention	Construction (70%)	60,238.00	69,274.00	79,665.00	91,615.00	105,357.00	121,161.00
	Maintenance (30%)	25,816.00	29,688.00	34,141.00	39,262.00	45,151.00	51,924.00

6.4 Year-wise Targets

The year-wise target shall be developed based on available budgets. Based on the probable available budgets of Rural Municipality. The total forecasted amount of rural municipality available budget at present FY is NRs. 60,238,000 while at the end of the 5th year the forecasted cost will be NRs. 121,159,000 for road construction work. The forecasted financial plan of rural municipality in road construction work is given in table-34.

Table 34: Forecasted Financial Plan of Rural Municipality in Road Construction

Road Construction Work	Forecasted Year (Amount in NRs. 000)					
	Base Year (BS)	1st Year (BS)	2nd Year (BS)	3rd Year (BS)	4th Year (BS)	5th Year (BS)
	2081/82	2082/83	2083/84	2084/85	2085/86	2086/87
Class "A" Roads	24,095.00	27,709.00	31,865.00	36,645.00	42,142.00	48,463.00
Class "B" Roads	18,071.00	20,782.00	23,899.00	27,484.00	31,607.00	36,348.00
Class "C" Roads	12,048.00	13,855.00	15,933.00	18,323.00	21,071.00	24,232.00
Class "D" Roads	6,024.00	6,928.00	7,967.00	9,162.00	10,536.00	12,116.00
Total Cost (NRs.)	60,238.00	69,274.00	79,664.00	91,614.00	105,356.00	121,159.00

Similarly, based on probable available budgets of Rural Municipality. The total forecasted amount of rural municipality available budget at present FY is NRs. 25,816,000 while at end of the 5th year forecasted cost will be NRs. 51,924,000 for road maintenance works. The details of forecasted financial plan of rural municipality in road maintenance work are given in table-35.

Table 35: Forecasted Financial Plan of Rural Municipality in Road Maintenance

Road Maintenance Work	Forecasted Year (Amount in NRs. 000)					
	Base Year (BS)	1st Year (BS)	2nd Year (BS)	3rd Year (BS)	4th Year (BS)	5th Year (BS)
	2081/82	2082/83	2083/84	2084/85	2085/86	2086/87
Class "A" Roads	10,326.00	11,875.00	13,656.00	15,704.00	18,060.00	20,769.00
Class "B" Roads	7,745.00	8,907.00	10,243.00	11,779.00	13,546.00	15,578.00

Road Maintenance Work	Forecasted Year (Amount in NRs. 000)					
	Base Year (BS)	1st Year (BS)	2nd Year (BS)	3rd Year (BS)	4th Year (BS)	5th Year (BS)
	2081/82	2082/83	2083/84	2084/85	2085/86	2086/87
Class "C" Roads	5,163.00	5,937.00	6,828.00	7,852.00	9,030.00	10,385.00
Class "D" Roads	2,582.00	2,969.00	3,414.00	3,926.00	4,515.00	5,192.00
Total Cost (NRs.)	25,816.00	29,688.00	34,141.00	39,261.00	45,151.00	51,924.00

Chapter-7: Discussions and Conclusions

The RMTMP results from studies considering socio-economic aspects, environmental analysis, and the potentiality of multiple sectors. Furthermore, it is based on the accessibility to transport facilities within the Municipality that will somehow reflect the Municipality's future, particularly in rural road development. RMTMP focuses on the existing transportation situation, expected future road network accessibility, and socio-economic benefits. It provides directives on utilizing the local resources by local institutions and other development agencies in line with the spirit of decentralization and the Local Government Operation Act 2074. Above all, it will provide the government and other donor agencies with a rational basis to decide on future investments efficiently in the rural municipality-level transport sector and different possibilities for development.

The total road length in the Mallarani Rural Municipality is 237.90 km. There are 29 Class A roads, 41 Class B roads, 32 Class C roads, 1 Class D roads, and 4 DRCN roads with lengths 117.20 km, 72 km, 25.60 km 0.20 km, and 22.90 km respectively. The length of the blacktop road is 19.50 km, and the earthen road is 208.40 km. The prioritization and ranking for different rural road linkages are calculated as per population served is 40 marks, road network unconnected with population is 20 marks, traffic flow is 20 marks and rural municipality priority is 20 marks, altogether is 100 marks. The road which has obtained the highest mark is ranked first and lowest ranked last for different Classes of road.

In the case of the District Road Core Network (DRCN), Khalanga-Chujathati-Jogitari road “503DR004” is ranked first for the DRCN road network. This road network has already been upgraded to blacktop standards, but it still needs emergency and routine maintenance to make road network serviceable during the rainy season, since it helps the road user to save travel time and increase the economic activities of the Mallarani Rural Municipality. Other roads are prioritized which only need to be upgraded from earthen to gravel road standards with single-lane road standards.

Similarly in the case of the Class A road, Deurali-tham-solahalna-road “503RM07A007” is ranked first for the Class A road network. This road network needs a connection between the

lower and upper belt of Ward no 01, as there is no road access between them. The priority is new construction and later, upgrading from earthen to gravel road standards.

In the case of invention categories, 237.90 km road needs emergency maintenance, while 237.90 km needs routine maintenance, 237.90 km needs recurrent maintenance, and 201.00 km needs periodic maintenance. The 36.90 km road needs to be blacktop and 201.00 km graveling.

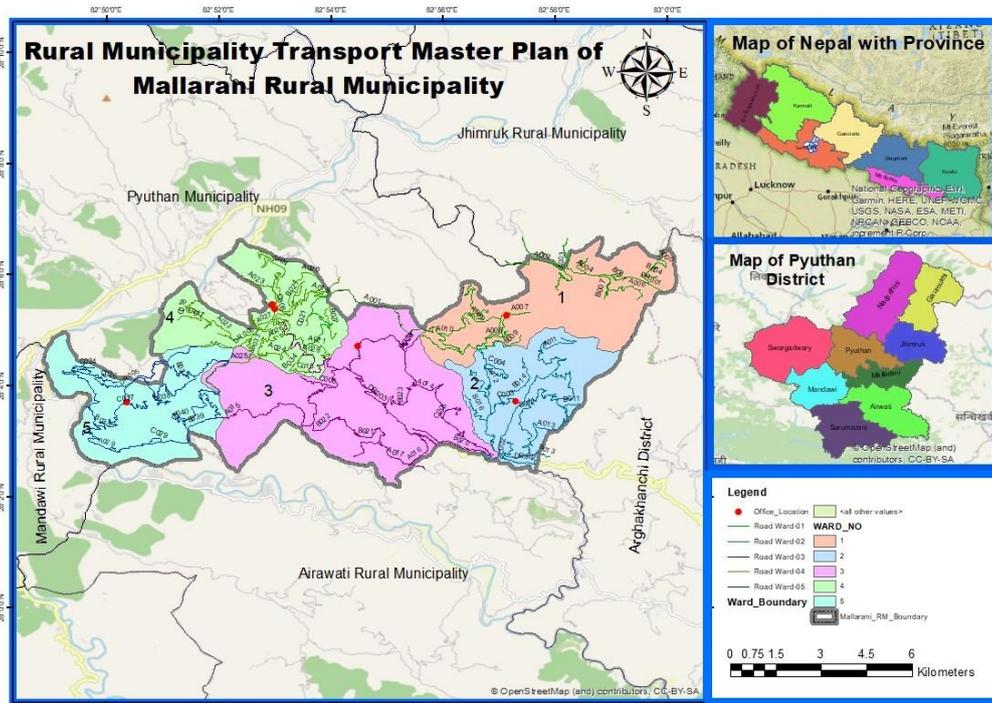
The cost associated with emergency maintenance is NRs. 6185400.00, routine maintenance is NRs. 7731750.00, recurrent maintenance (earthen) is NRs. 30927000.00, and periodic maintenance is NRs. 65325000.00. It is estimated that NRs. 110169150.00 will be needed in the first year, while the total expenditure over five years will be NRs. 550845750.00. The overall expense for improvement is NRs. 273,060,000.00 for blacktopping, NRs. 351,750,000.00 for graveling, and NRs. 1,185,900.00 for the construction of roadside drains. The total estimated improvement cost is NRs. 625,995,900.00.

The total budget allocated for road construction and maintenance in FY 2081/82 is NRs. 86,054,000.00. It is necessary to allocate 70% of this budget for construction and 30% for the maintenance of roads over the next five fiscal years to ensure the smooth operation of the road network. The budget for the road construction sector will be divided further, with 40% dedicated to Class A roads, 30% to Class B, 20% to Class C, and 10% to Class D. Considering the budget available in the Mallarani Rural Municipality, the projected total cost by the end of FY 2086/87 is NRs. 753,293,000. In the same way, the total estimated cost for road construction by the end of FY 2086/87 is NRs. 121161000, which represents 70% of the total budget, while the projected total cost for road maintenance at the end of the fiscal year is NRs. 51924000, representing 30% of the total budget.

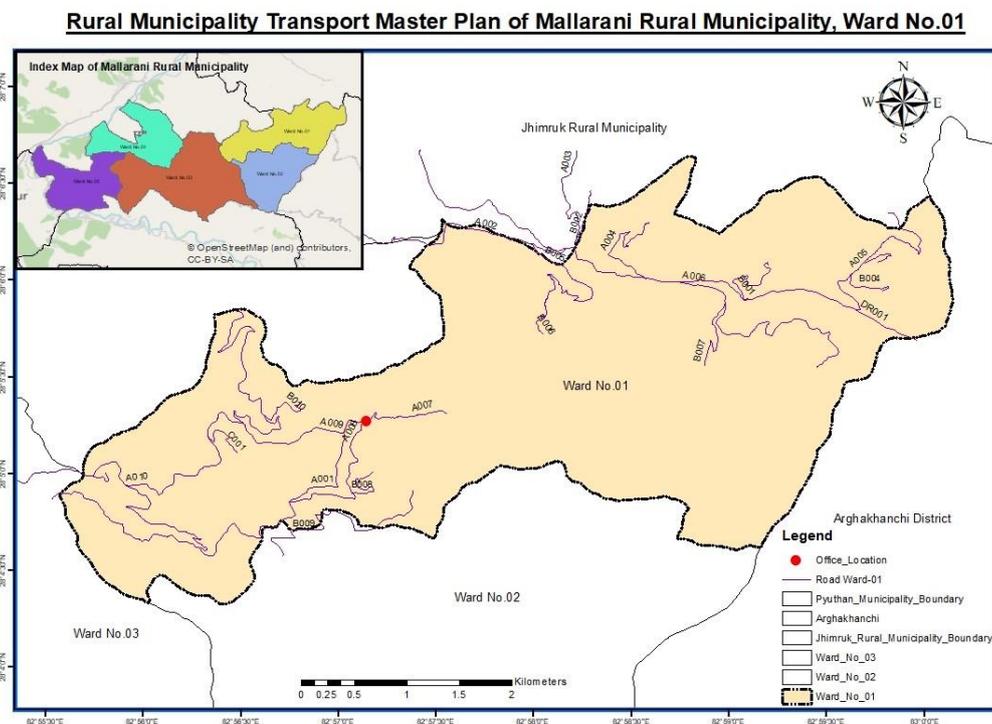
It is also suggested that the RMTMP should be revised at the end of every fifth year, evaluating the previous planning and implementation level shortcomings. It is also advisable that the respective Rural Municipality should go ahead with necessary revisions if the development potential has changed tremendously in its Rural Municipality. Based on the cost analysis and estimate, the calculated cost is only the tentative cost of the work activities as it is calculated based on the standard costs. To determine the actual cost, detailed project reports (DPR) needed to be prepared for each road. Transportation plays an important role in the socio-economic development of any Rural Municipality. Thus, the Rural Municipality should give

more emphasis on resource collection and its proper allocation and efficient mobilization. This Rural Municipality Master Transport Plan (RMTMP) will guide this purpose.

Annex - I: Rural Municipality Map

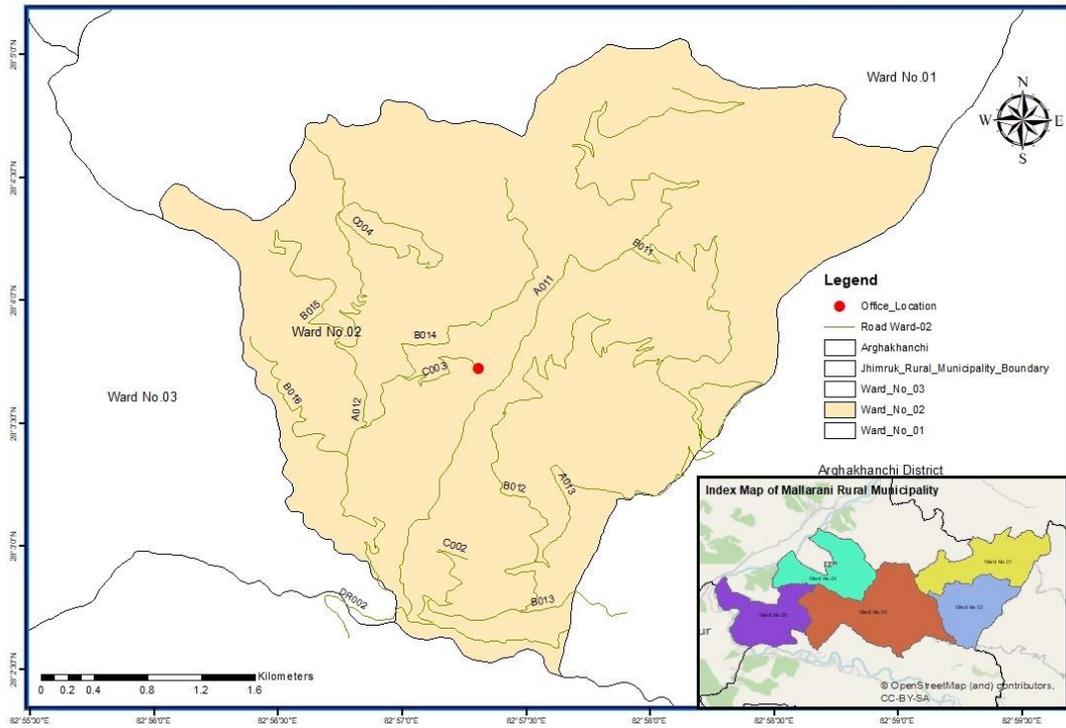


Map : Rural Municipality Transport Master Plan of Mallarani Rural Municipality.



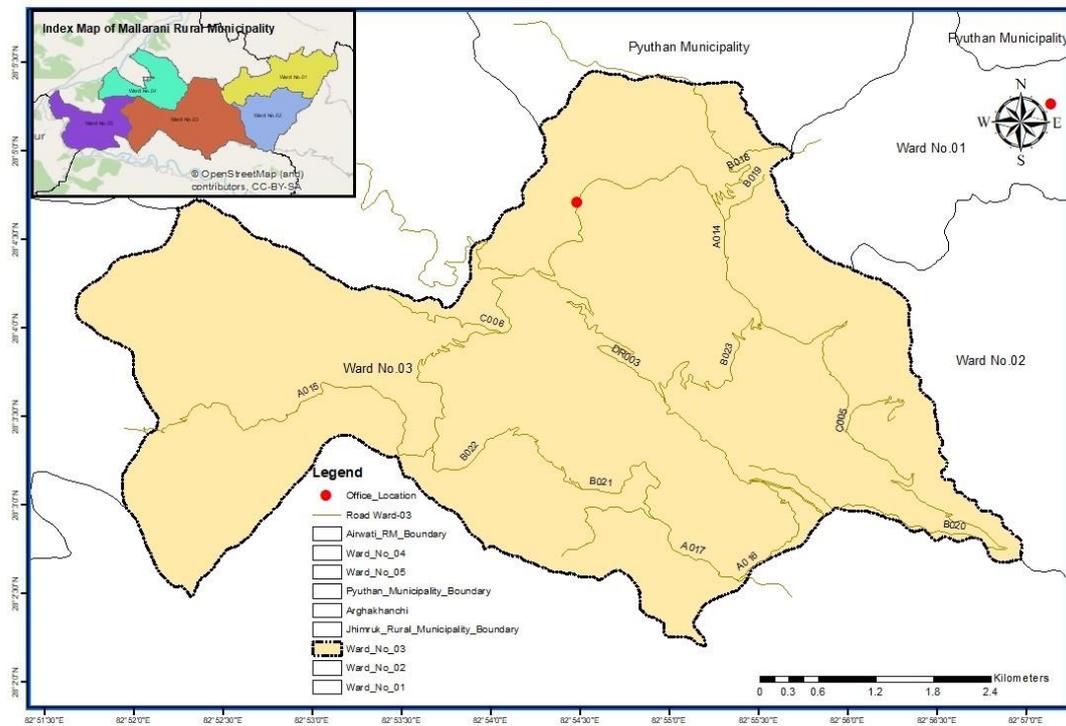
Map: Rural Municipality Transport Master Plan of Mallarani Rural Municipality, Ward No.01

Rural Municipality Transport Master Plan of Mallarani Rural Municipality, Ward No.02



Map: Rural Municipality Transport Master Plan of Mallarani Rural Municipality, Ward No.02

Rural Municipality Transport Master Plan of Mallarani Rural Municipality, Ward No.03



Map: Rural Municipality Transport Master Plan of Mallarani Rural Municipality, Ward No.03

Annex - II: Minutes of Meeting

Coordination Letter



मल्लरानी गाउँपालिका
Mallarani Rural Municipality
गाउँ कार्यपालिकाको कार्यालय
Office Of The Rural Municipal Executive
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प.सं. २०८१/०८२
च नः २४९



मिति: २०८१/०८/०७

विषय: आवश्यक सहजिकरण सम्बन्धमा।

श्री वडा कार्यालय सवै,
मल्लरानी गाउँपालिका, प्यूठान।

प्रस्तुत विषयमा मल्लरानी गाउँपालिका प्यूठानको यातायात गुरुयोजना निर्माण गर्नका लागि परामर्शदाता श्री ह्युमन डेभलपमेन्ट कन्सल्टेन्सी एण्ड रिसर्च सेन्टर, प्यूठानका श्रोत व्यक्ति ई. प्रज्वल राई को नेतृत्वमा यातायात तथा सडकहरूको तथ्याङ्क संकलनका लागि आउनुभएको हुँदा तहाँ वडा कार्यालयले प्राविधिक खटाई आवश्यक सहयोग तथा सहजिकरण गराईदितुहुन जानकारी गरिन्छ।

बोधार्थः

ई. प्रज्वल राई, निर्देशक, ह्युमन डेभलपमेन्ट कन्सल्टेन्सी एण्ड रिसर्च सेन्टर, प्यूठान।
सम्पर्क नं ९८५१२४४९००

Zar Bahadur Sejuwal

गिर बहादुर सेजुवाल
प्रमुख प्रशासकीय अधिकृत
गिर बहादुर सेजुवाल
प्रमुख प्रशासकीय अधिकृत

"कृषि, वन, पर्यटन र पूर्वाधार: सामाजिक विकास र सुशासन समृद्ध मल्लरानीको आधार"

Draft Report

आज मिति २०८१/०९/१४ गते यस मल्लरानी गाउँ कार्यपालिकाको आ.व २०८१/०८२ को नवौं बैठक गाउँपालिका अध्यक्ष श्री कृष्ण बहादुर खड्का ज्यू को अध्यक्षतामा तपसिलको उपस्थितिमा बसी देहाएका एजेन्डाहरुमा छलफल तथा निर्णय गरियो ।

तपसिल

क्र.सं	नाम	पद	हस्ताक्षर
१.	कृष्ण बहादुर खड्का	गा पा अध्यक्ष	
२.	रमेश कुमार श्रेष्ठ	गा पा उपाध्यक्ष	
३.	चिन्ता बहादुर राहुँ	अध्यक्ष वडा नं १	
४.	लेख बहादुर थापा	अध्यक्ष वडा नं २	
५.	नोमराज पौडेल	अध्यक्ष वडा नं ३	
६.	कुमार श्रेष्ठ	अध्यक्ष वडा नं ४	
७.	गोपाल बहादुर थापा	अध्यक्ष वडा नं ५	
८.	सुर्य बहादुर सार्की	कार्यपालिका सदस्य	
९.	तेजमान दमाई	कार्यपालिका सदस्य	
१०.	सिता पुन	कार्यपालिका सदस्य	
११.	सुमित्रा वि.क.	कार्यपालिका सदस्य	
१२.	उजेली वि.क.	कार्यपालिका सदस्य	
१३.	हिमा कुमारी बुढाथोकी क्षेत्री	कार्यपालिका सदस्य	
१४.	बाबुराम न्यौपाने	सचिव	
आमन्त्रित			
१५.	अनिल आचार्य	अ.छैठौं	
१६.	जितेन्द्र व कार्की	इन्जिनियर	
१७.	बमना शाक्य	उपस्थित हुँदा	
१८.	प्रणवला राई	प्रागल्भिता	



वैठक संख्या: ९
मिति: २०८१/०९/१४ गते, आईतवार

मिति: २०८१/०९/०८ गतेको आठौँ गाउँकार्यपालिका बैठकका प्रस्ताव तथा निर्णयहरू:

प्रस्ताव नं १ मल्लरानी गाउँपालिकाको सडक गुरुयोजनाको प्रारम्भिक प्रतिवेदन माथि छलफल सम्बन्धमा ।

निर्णय नं १ प्रस्ताव नं १ माथि छलफल गर्दा यस मल्लरानी गाउँपालिकाको आ.व २०८१/०८२ को वार्षिक स्वीकृत कार्यक्रममा पुँजिगत अनुसन्धान तथा परामर्श बाट गाउँपालिकाको यातायात गुरु योजना निर्माणका लागि प्रस्तावना माग भई यातायात गुरुयोजना तयार गरिएकोमा प्राप्त प्रारम्भिक प्रतिवेदनमाथि छलफल गरियो र आवश्यक सुझाव दिईयो । प्राप्त सुझाव वमोजिम यातायात गुरु योजनाको अन्तिम प्रतिवेदन तयार गरि तोकिएको समय भित्र पेश गर्न अनुरोध गर्ने ।

प्रस्ताव नं २ गाउँसभा र गाउँकार्यपालिका बैठक सम्बन्धमा ।

निर्णय नं २ यस मल्लरानी गाउँपालिकाको हिउँदे गाउँसभा मिति २०८१ पौष २८ र २९ गते जिल्ला समन्वय समितिको सभाहलमा गर्ने । साथै गाउँकार्यपालिकाको १०औँ बैठक मिति २०८१ पौष २२ गते मल्लरानी गाउँपालिकाको कार्यालयमा वस्ने ।

प्रस्ताव नं ३ योजना माग सम्बन्धमा ।

निर्णय नं ३ प्रस्ताव नं २ माथि छलफल गर्दा श्री संघीय तथा सामान्य प्रशासन मन्त्रालय को च.नं ४२२ मिति २०८१/०३/०५ गतेको उच्च प्रभावयुक्त सामुदायिक विकास परियोजना अन्तर्गत प्रस्तावना पेश गर्ने सम्बन्धी सूचना वमोजिम यस मल्लरानी गाउँपालिकाको वडा नं ३ मा रहेको सिसेंगैरा-मुनडाँडा-चुजाठाटी-चौरपानी-धरमपानी कृषि सडकको विस्तृत परियोजना प्रतिवेदन तयार भएको र वडा नं ३ मा किसानले उत्पादन गरेका वस्तुहरू संकलन गर्न तथा बजार सम्म पुर्याउनको लागि उक्त सडक सम्पन्न गर्नुपर्ने भएकोले गाउँपालिकाले ५(पाँच) प्रतिशत रकम रु १(एक) करोड गाउँपालिकाले व्यहोर्ने गरि प्रस्ताव माग गरि पठाउने ।

प्रस्ताव नं ४ एम्बुलेन्स माग सम्बन्धमा ।

निर्णय नं ४ यस मल्लरानी गाउँपालिका मल्लरानी गाउँपालिका वडा नं ३ स्थित धरमपानी स्वास्थ्य चौकीमा पूर्वी प्यूठान, पश्चिम अर्घाखाँचिका विभिन्न स्थान, ऐरावती गाउँपालिका प्यूठान, भुमिकास्थान नगरपालिका अर्घाखाँची र मल्लरानी गाउँपालिका भित्रका विरामीहरू उपचार गर्न आउने र स्वास्थ्य संस्थामा आकस्मिक सेवा उपलब्ध गराउँदा विरामीहरूलाई स्वास्थ्य संस्था सम्म ल्याउन र स्वास्थ्य संस्थाबाट विभिन्न ठाउँहरूमा पुर्याउनुपर्ने अवस्थामा एम्बुलेन्स नभएका कारण सेवा उपलब्ध गराउन असहजता भएकोले धरमपानी स्वास्थ्य चौकिको नाममा थान १(एक) एम्बुलेन्स उपलब्ध गराउन श्री स्वास्थ्य मन्त्रालय लुम्बिनी प्रदेशमा अनुरोध गर्ने ।

Orientation on RMTMP

आज मिति २०८१/०८/१६ गते यस मल्लरानी गाउँपालिकाको सडक गुरुयोजना निर्माणको लागि प्रारम्भिक छलफल कार्यक्रम गाउँपालिका अध्यक्ष श्री कृष्ण बहादुर खड्का ज्यू को अध्यक्षतामा तपसिलको उपस्थितिमा बसी छलफल गरियो।



तपसिल

क्र.सं.	नाम	पद	हस्ताक्षर
१.	कृष्ण बहादुर खड्का	गा पा अध्यक्ष	
२.	रमेश कुमार श्रेष्ठ	गा पा उपाध्यक्ष	
३.	चिन्ता बहादुर राहुँ	अध्यक्ष वडा नं १	
४.	लेख बहादुर थापा	अध्यक्ष वडा नं २	
५.	नोमराज पौडेल	अध्यक्ष वडा नं ३	
६.	कुमार श्रेष्ठ भरत बहादुर पाण्डे	डा.१ अध्यक्ष वडा नं ४	
७.	गोपाल बहादुर थापा	अध्यक्ष वडा नं ५	
८.	सुर्य बहादुर सार्की	कार्यपालिका सदस्य	
९.	तेजमान दमाई	कार्यपालिका सदस्य	
१०.	सिता पुन	कार्यपालिका सदस्य	
११.	सुमित्रा वि.क.	कार्यपालिका सदस्य	
१२.	उजेली वि.क.	कार्यपालिका सदस्य	
१३.	हिमा कुमारी बुढाथोकी क्षेत्री	कार्यपालिका सदस्य	
१४.	गिर बहादुर सेजुवाल	सचिव	
आमन्त्रित			
१५.	आनिला आचार्य	डा.इ.डा.	
१६.	इ.जितेन्द्र व.काशी	इ.जि.नियर	
१७.	पद्मना आचार्य	डा.इ.डा.	
१८.	पुञ्जवल राई	परामर्शदाता	

शुभ पावन २०२१/०२/०२ गतेन दिन यस मन्त्रालयी
 गाउँपालिका वडा नं. १ का वडा सभस्य श्री शैलेश्वर वी.
 बुरुवाथोकी को अध्यक्षतामा हयुमान डशमपुत्रले कुरसलेखी
 एउटा सिसको सभस्य दुहातको परामर्शदाताको तत्वमा मा
 तपशिल तमोजिमको उपस्थितिमा मन्त्रालयी गा.पा. वडा नं. १
 को सभस्य गुरुयोजना तयार गरियो।
 उपस्थिति:

- श्री शैलेश्वर वी. बुरुवाथोकी (ता.सभस्य)
- श्री सुब्बा राय (दलित प्र.सभस्य)
- श्री विमला वि. प्र. प्राधिका
- श्री प्रज्वल राई (बहुजीवियर)

प्रस्तावहरू:

१. सडक गुरुयोजना हलोट सम्वन्धमा
२. विविध सम्वन्धमा

निर्णय नं. १ माथी हलफुल गर्दा यस मन्त्रालयी गाउँपालिका
 वडा नं. १ का विभिन्न मोर बाटोको गुरुयोजना
 का लागि हयुमान डशमपुत्रले कुरसलेखी एउटा
 सिसको सभस्य दुहातको शत धार्थी बहुजीवियर
 श्री प्रज्वल राई को टिम र यस का को प्रतिनिधी
 तथा अन्य धार्थीहरूको संयुक्त हलफुलपत्रमा
 तपशिलमा प्र.स.स.को लागि गुरुयोजना गर्ने
 सिफारिस गर्न निर्णय गरियो।

तपशिल:

१. आपणारा पिपलभेरी सुभाने अगाडि चुमा मा.वी.
२. गोडीरभने चौर इ टोडको सालहालता दुलचौर
 गोयलक्षेरी अघारवंची सिनापु सलम
३. सतलगा मन्त्रालयी सातीलेखवार वगनुर
४. सातीलेखवार दारिपारा खालिपारवरी

४

३. देडराली दरिब पानीगंरा जदनीखोला
६. चुजांताप्रीलोर कुसुनडाटा मी वा.
१०. अरौंधी खोला पातेमुला मी वा. तगरपालिका सिमाना
मुना
८. सोलहान्ता पदिमो जैरा लुक्ला सिल्लीडाटा मी वा.
९. पदिमो खोलियुम
१०. ठुलाचौर बाइरा
११. फेठ अगलावाडा तस्ती लाम
१२. अथारपोखरी दरिब दामयाखोला
१३. आडुर माझपानी
१४. बाणुल पोरवम दरिब चडुल लाम
१५. चडुल दरिब सरेशुवा लाम
१६. देडराली दरिब थाम लाम
१७. शंशुन दरिब कभरुले
१८. रोडक दरिब क सुराखाना
१९. शताभार दरिब देडलीडाटा

मालवक मी

हु

DATE

आज मिति २०८१/०८/१० गते का दिन मजदुरावनी गा.पा.
 नं. ०२ का निर्मित गोरु कोश को ~~सुदूर~~ युद्ध योजना
 को लागू गर्न प्रस्ताव लेख्न बाबु थापा को अध्यक्षता
 गरी कार्य समितिको प्रस्ताव माथी निर्णय गरियो

- सुदूर लेख्न बाबु थापा (उडा अध्यक्ष)
 "गणेश कडाडु धार्ली कुम्रे (उडा सदस्य)
कुम्रे, सुडौला पुन माा (उडा सचिव)
रूप शिखा चन्द (जी.प्र.सं.)
 "भुमा शम्भु (सा.प्र.सं.)
 प्रस्ताव एक = ५ प्रज्वल दाई (इ.प्र.सं.)

क. सदर युद्ध योजना दगाइ सम्बन्धमा
 प्रस्तावले व माथी इलाफला गर्दा मजदुरावनी गा.पा. नं.०२
 ०२ का निर्मित गोरु कोश सुदूर युद्ध योजना को लागी
 Human Development Consultancy and
 Research Center पुरानाको भेल चालु २ प्रस्ताव

गर्दा का दिन मिति २०८१/०८/१० का दिन निर्मित मजदुरावनी
 को सुदूर को लागी माथी गरी कडाडु कुम्रे निर्मितको का
 सुदूर एक तपबाली अनुसार कार्यभरमा आएको ।

- क. तपबाली
१. चुंजावली कुडरा - कान्ता मर्यादेउरली भो वारे
 २. चुंजावली खारिकाडा इन्द्रमोली भो वारे
 ३. चुंजावली चुंजावली खोले भो वारे
 ४. चुंजावली कुडरा कडाडु कुम्रे चुंजावली भो वारे
 ५. कान्ता मर्यादेउरली चुंजावली भो वारे
 ६. मजदुरावनी समूह भो वारे ।
 ७. कुडरा - कान्ता मर्यादेउरली भो वारे
 ८. खान्ता - चुंजावली खोले भो वारे
 ९. मजदुरावनी समूह - कडाडु कुम्रे (कान्ता मर्यादेउरली) भो वारे

सुदूर रूप कुम्रे

Ward No.04

आज मिति २०८१।०८।१३ गतेका दिन यस मल्लरानी गाउँपालिका वडा नं. ४ को वडा समितिको नियमित बैठक यस वडाका वडा अध्यक्ष श्री कुमार श्रेष्ठको अध्यक्षतामा तपसिल बमोजिमका कर्मचारी तथा जनप्रतिनिधिहरूको उपस्थितिमा विभिन्न छलफल तथा निर्णय गरियो ।

उपस्थितिहरू :-

- १) श्री कुमार श्रेष्ठ - अध्यक्ष
४ नं. वडा अध्यक्ष
- २) श्री भरत बहादुर पाण्डे - सदस्य
वडा सदस्य
- ३) श्री देवेन्द्र राज श्रेष्ठ - सदस्य
वडा सदस्य
- ४) श्री रमा पन्त - सदस्य
वडा सदस्य
- ५) श्री उजेली वि.क. - सदस्य
दलित महिला सदस्य
- ६) श्री सावित्रा के.सी. सदस्य सचिव
वडा सचिव
- ७) श्री प्रज्वल राई
इन्जिनियर (ह्युमन डेभलपमेन्ट कन्सलटेन्सी एण्ड रिसर्च सेन्टर)
- ८) श्री अमित श्रेष्ठ
फेसीलेटर
- ९) श्री हुम बहादुर वि.क. - सदस्य
का.स.

प्रस्तावहरू:

- १) सडक गुरुयोजनाको लागि सिफारिस सम्बन्धमा ।

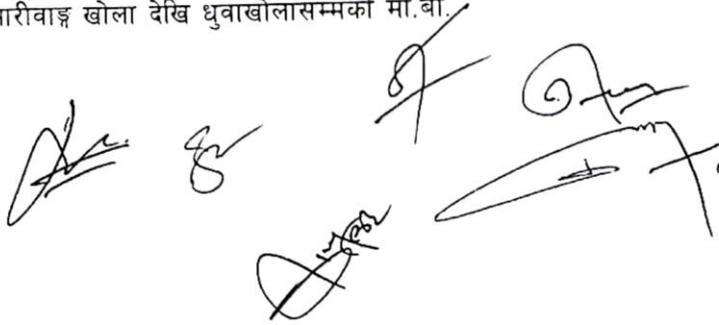
निर्णय नं.१

प्रस्ताव नं. १ माथि छलफल गर्दा मल्लरानी तथा Human Development Consultancy And Research Centre, Pyuthan को सहजीकरणमा तपसिल बमोजिमका सडकहरूको बारेमा छलफल गरि गुरुयोजनाको लागि सिफारिस गर्ने सर्वसम्मत निर्णय गरियो ।

तपसिल :

१. कर्बडहल देखि लाम्मेला हुँदै पिपलडाँडा मो.बा.
२. खानेपानीचोक देखि तल्लो लाम्मेला नेपाने जाड्ने मो.बा.
३. भट्टाचौर देखि पुनटोलसम्म मो.बा.
४. भट्टाचौर देखि नेवारटोलसम्म मो.बा.
५. टुनिरुखदेखि भाक्रिस्थान सम्म मो.बा.
६. भञ्ज्याङ्ग बेलारुख हुँदै बंगाला सम्मको मो.बा.

७. भञ्ज्याङ्ग देखि पाण्डेडाँडा हुँदै भिमरुख नदिसम्म पातिहालादेखि भेतिपाटासम्म मो.बा.
८. तल्लो घुम्टी देखी उपल्लो बाँसखोला हुँदै असारेचौरसम्म मो.बा.
९. पाण्डेडाँडा मन्दिरमा जाने मो.बा.
१०. ओखरारुख बोहराटोल हुँदै बासखोलासम्म मो.बा.
११. भञ्ज्याङ्ग हुँदै थापडाँडा गुरुङ्गटोलसम्मको मो.बा.
१२. भञ्ज्याङ्ग देखि ५ नं. वडा सम्मको मो.बा.
१३. भञ्ज्याङ्ग देखि भाकिस्थान हुँदै कालाखोला सम्म मो.बा.
१४. सारीवाङ्ग खोला देखि धुवाखोलासम्मको मो.बा.



Ward No.05

आज मिति २०८१।०८।०७ गतेका दिन यस मल्लरानी गाउँपालिका वडा नं. ५ को वडा समितिको नियमित बैठक यस वडाका वडा अध्यक्ष श्री गोपाल बहादुर थापाको अध्यक्षतामा तपसिल बमोजिमका कर्मचारी तथा जनप्रतिनिधिहरुको उपस्थितिमा विभिन्न छलफल तथा निर्णय गरियो ।

उपस्थितिहरु :-

- १) श्री गोपाल बहादुर थापा - अध्यक्ष
५ नं. वडा अध्यक्ष
- २) श्री हिमा कुमारी बुढाथोकी क्षेत्री - सदस्य
वडा सदस्य
- ३) श्री विमला वि.क - सदस्य
वडा सदस्य
- ४) यम बहादुर पुन मगर - सदस्य
वडा सदस्य
- ५) साधना पाण्डे - सदस्य सचिव
वडा सचिव
- ६) युवराज भण्डारी - सदस्य
अ.सब.ई.
- ७) ममता आचार्य - सदस्य
ना.प.से.प्रा.
- ८) विनोद शाही - सदस्य
का.स.
- ९) प्रज्वल राई
इन्जिनियर
- १०) अमित सेरचन
फेसिलेटर

प्रस्ताव:

- १) सडक गुरुयोजनाको लागि सडकहरु सिफारिस सम्बन्धमा ।

हिमा

गोपाल

निर्णय नं. १:

प्रस्ताव नं. १ माथि छलफल गदा मल्लरानी गाउँपालिका र Human Development Consultancy And Research Centre, Pyuthan को सहजीकरणमा तपसिल बमोजिमका सडकहरुको बारेमा छलफल गरी गुरुयोजनाको लागि सिफारिस गर्ने सर्वसम्मत निर्णय गरियो।
तपसिल:

१. कुमिकोट-कान्द्राखोला-राम्चे-जोरपोखरी-घोरथापा-धुदी-खैरा-स्वास्थ्य-चौकी हुँदै कुमिकोट, खलगा
२. वडा कार्यालय-धुदी मो.वा.
३. डाँडाघर-दलित वस्ती मो.वा.
४. थापाचौतारी- दलित वस्ती
५. मिलनचौतारी- हिडखोला
६. टाकुरा-पधेराचौर मो.वा.
७. कमेरपानी -रप्चु -सिम मो.वा.
८. पिपलनेटा -ओखारी मो.वा.
९. बाजावारी- घैडाँडा मो.वा.
१०. राम्चे- रिठिखर्क -सरङकोट -जोरपोखरी मो.वा.
११. रामपानी- वडा कार्यालय मो.वा.
१२. घर्तिटोला- पारा मो.वा.
१३. धुदी- पानीघाट मो.वा.
१४. दरभाने बुढाथोकीटोल - चौतारी मो.वा.
१५. वडा कार्यालय- रानाटोल मो.वा.
१६. भदौरे- पानीखोला मो.वा.

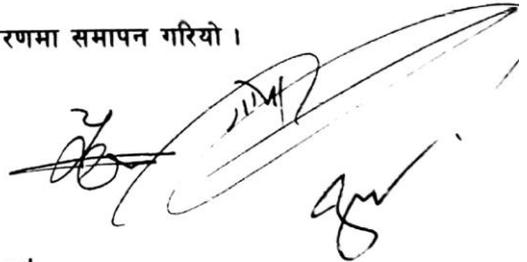
साथै उपयुक्त निर्णयसंगै आजको बैठक सौहार्दपूर्ण वातावरणमा समापन गरियो ।



बिमला



हिमा



Annex - III: List of Roads in Mallarani Rural Municipality

SN	Code	Road Name		Ward Pass	Total Length (Km)
		English	नेपाली		
1	503DR001	Goyalchhedi- solahalna-markawang road	गोयलछेडी-सोलाहालना-मर्कावांग सडक	1	5.30
2	503DR002	Chunjathati -Arghakhachi road	चुंजाठाटी - अर्घाखाची सडक	2	2.40
3	503DR003	Khaira-Khalanga road	खैरा-खलंगा सडक	4,5	3.70
4	503DR004	Khalanga-Chujathanti-Jogitari road	खलंगा - चुंजाठाँटी - जोगीटारी सडक	3,4	11.50
5	503RM07A001	Mallarani danda -paryatakiya marg	मल्लरानी डाँडा -पर्यटकिय मार्ग	1,4	14.00
6	503RM07A002	Todke-sindure road	टोडके-सिंदुरे सडक	1	2.30
7	503RM07A003	Todke- budhathapla road	टोडके-बुढाथाप्ला सडक	1	1.30
8	503RM07A004	Solahalna-sugure road	सोलाहालना-सुगुरे सडक	1	1.30
9	503RM07A005	Thulachaur-anyar pokhari-alkabanjh-bange road	ठूलाचौर-अँयर पोखरी—अल्काबाँझ-वाङ्गे सडक	1	2.00
10	503RM07A006	Solahalna-padime-lukka road	सोलाहालना-पदिमे-लुक्का सडक	1	2.70
11	503RM07A007	Deurali-tham-solahalna-road	देउराली-थाम-सोलाहालना सडक	1	0.90
12	503RM07A008	Deurali-pani gaira road	देउराली-पानी गैरा सडक	1	1.50
13	503RM07A009	Pipalneti-chundari khola-akrate-chuja road	पिपलनेटी-चुँदरी खोला-एकराते-चुँजा सडक	1	4.20
14	503RM07A010	Sanilekh - saar ghar road	सानिलेख-सार घर सडक	1	1.90
15	503RM07A011	Chunjathati-kudara-banna-arbaang-deurali road	चुंजाठाटी- कुडारा- वान्ना -अरबांग-देउराली सडक	2	8.70
16	503RM07A012	Chunjathati-chauja-khauli pokhari road	चुंजाठाटी -चुजा- खौली-पोखरी सडक	2	5.30
17	503RM07A013	Chunjathati-kharindanda-chedaa pokhari-goyalachhedi-solahalna road	चुंजाठाटी -खरीनडाँडा-छेडा पोखरी-गोयलछेडी-सोलाहालना सडक	2	5.50
18	503RM07A014	Sirsegaira-mundanda-sahutola- barbot-chunjathathi road	सिर्सेगैरा-मुनडाँडा-साहुटोला-बर्बोट-चुंजाठाटी सडक	3	9.70

SN	Code	Road Name		Ward Pass	Total Length (Km)
		English	नेपाली		
19	503RM07A015	Dharampani-girichaur-sirkot-sarangkot road	धरमपानी-गिरिचौर-शिरकोट-सरंगकोट सडक	3	8.20
20	503RM07A016	Chyantari-chaurpani- airawati-raspurkot road	च्यानटारी-चौरपानी-ऐरावती-रस्पुरकोट सडक	3	1.80
21	503RM07A017	Chaurpani-danda kharka road	चौरपानी-डाँडाखर्क सडक	3	2.70
22	503RM07A018	Airawati-bijuli road	ऐरावती-बिजुलि सडक	3	0.70
23	503RM07A020	Khanepani chowk-tallo lambela-pipal danda road	खानेपानी चोक - तल्लो लम्बेला- पिपल डाँडा सडक	4	2.60
24	503RM07A019	Kabardahall-lambela-Pipal danda road	कबर्डहल-लाम्बेला -पिपल डाँडा सडक	4	3.20
25	503RM07A021	Okhararukh-Pokhari danda-Baskhola Road	ओखरारुख - पोखरी डाँडा - बाँसखोला सडक	4	1.60
26	503RM07A022	Bhanjyang-pandedanda-jhimruk khola	भञ्ज्याङ-पाण्डेडाँडा -झिमरुक खोला सडक	4	4.00
27	503RM07A023	Saribang khola- khalanga main road	सारिवाङ्ग खोला खलंगा मुख्य सडक	4	0.90
28	503RM07A024	Jhakrishthan-Bungala Road	झाक्रिस्थान-बंगला सडक	4	2.90
29	503RM07A025	Jhimruk-Jhakrishthan-Katrekhola-Guthakaseri Road	झिमरुक-झाक्रिस्थान-कात्रेखोला-गुठकसेरी सडक	4	3.90
30	503RM07A026	Khalanga-guthakaseri road	खलंगा - गुठकसेरी सडक	4	1.30
31	503RM07A027	Khalanga-pipal danda road	खलंगा - पिपलडाँडा सडक	4	2.00
32	503RM07A028	Mathillo Kaseri road	माथिल्लो कसेरी सडक	4	0.70
33	503RM07A029	Kumikot- kantrekhola-ramche-jorpokhari-ghorthapa-dhundi-khaira-swasthachauki-kumikot khalanga road (Ringroad)	कुमिकोट-काँत्रेखोला-राम्चे-जोरपोखरी-घोरथापा-धुंदी-खैरा-स्वास्थचौकी-कुमिकोट खलंगा सडक	5	19.40
34	503RM07B001	Lakuri rukh-majhpani tower-sunar dewauli road	लाकुरी रुख-माझपानी टावर-सुनार दिवाउली सडक	1	1.00
35	503RM07B002	Todke-kamdale road	टोडके-कमदले सडक	1	0.50
36	503RM07B003	Aayar pokhari-daha danda road	अयर पोखरी-दह डाँडा सडक	1	0.40
37	503RM07B004	Aayar pokhari-domahe khola road	अयर पोखरी-दोमाही खोला सडक	1	0.60
38	503RM07B005	Todke-chadulee-harthunga road	टोडके-चदुली-हर्थुङ्गा सडक	1	2.00

SN	Code	Road Name		Ward Pass	Total Length (Km)
		English	नेपाली		
39	503RM07B006	Harthunga-thapkot-deurali road	हर्थुङ्गा-थपकोट देउराली सडक	1	0.30
40	503RM07B007	Padime-sallithum road	पदिमे-सल्लिथुम सडक	1	0.90
41	503RM07B008	Khacinee danda-pani gairaa road	खचिने डाँडा-पानी गैरा सडक	1	0.80
42	503RM07B009	Chunja-naamreekot-kusundanda road	चुजा-नाम्रीकोट-कुसुन डाँडा सडक	1	2.20
43	503RM07B010	Saar ghar-dewauli danda road	सार घर-देवाउली डाँडा सडक	1	0.70
44	503RM07B011	Chunja kharka-siute-cheda pokhari road	चुँजा खर्क-सिउते- छेडा पोखरी सडक	2	4.80
45	503RM07B012	Kudara-bhaisamare-kharindanda road	कुडारा-भैसामारे- खरीन्डाँडा सडक	2	5.20
46	503RM07B013	Chautara-buchena road	चौतारा-बुचेना सडक	2	0.90
47	503RM07B014	Kami pokhari-bastari-chitre danda road	कमी पोखरी- बासटारी-चित्रे डाँडा सडक	2	3.20
48	503RM07B015	Jimur pani-ramche road	जिमुरपानी-राम्चे सडक	2	2.00
49	503RM07B016	Madhukare-bhakunde- Palukathan road	मधुकरे- भकुन्डे- पालूका थान सडक	2	1.70
50	503RM07B017	Kudara-siute-kharindanda road	कुडारा- सिउते- खरीन्डाँडा सडक	2	2.00
51	503RM07B018	Mundanda-chunja ward no.01	मुनडाँडा-चुँजा वडा नं १ सडक	3	2.00
52	503RM07B019	Mundanda-bukeni road	मुनडाँडा-बुकेनी सडक	3	0.70
53	503RM07B020	Chunjathati- budhdevi-krishi road	चुँजाठाटी - बुद्धदेवी-कृषि सडक	3	2.50
54	503RM07B021	Dharampani-raijanpani-chaurpani road	धरमपानी-रैजनपानी-चौरपानी सडक	3	5.50
55	503RM07B022	Girichaur- raspurkot road	गिरिचौर-रसपुरकोट सडक	3	2.60
56	503RM07B023	Mundanda-jebindanda-salthanti road	मुनडाँडा-जेबिनडाँडा-सालठाँटि सडक	3	3.30
57	503RM07B024	Tindhara-puntola road	तीनधारा-पुनटोला सडक	4	1.10
58	503RM07B025	Bhattechaur-Newar tole road	भट्टेचौर- नेवार टोल सडक	4	0.60
59	503RM07B026	Lambela-Kota road	लाम्बेला- कोट सडक	4	1.30

SN	Code	Road Name		Ward Pass	Total Length (Km)
		English	नेपाली		
60	503RM07B027	Toprekharka-Kaseri Road	टोप्रेखर्क -कसेरी सडक	4	0.90
61	503RM07B028	Ranitola-army byarek road	रानी टोला - आर्मी ब्यारेक सडक	4	0.70
62	503RM07B029	Sahid smarak park-Campus Road	सहिद स्मारक पार्क -क्याम्पस सडक	4	1.40
63	503RM07B030	Khalanga-Danda pasal-Gaira-Bazar road	खलंगा-डाँडा पसल -गैरा-बजार सडक	4	0.50
64	503RM07B031	Khalanga-thapa danda-Bijuwar road	खलंगा- थापाडाँडा -बिजुवार सडक	4	1.00
65	503RM07B032	Guthakaseri- Dhobikhola-Bhanjyang Road	गुठकसेरी - धोबीखोला- भञ्ज्याङ सडक	4	1.00
66	503RM07B033	Guthakaseri-Jhakrishthan road	गुठकसेरी-झाक्रिस्थान सडक	4	1.40
67	503RM07B034	Kajuwa-Samsanghat-Jhakrishthan Road	कजुवा-शमशान घाट-झाक्रिस्थान सडक	4	1.40
68	503RM07B035	Woda karyalaya-05-dhundi road	वडा कार्यालय-०५-धुंदि सडक	5	3.90
69	503RM07B036	Dandaghar-dalit basti road	डाँडाघर-दलित बस्ती सडक	5	0.80
70	503RM07B037	Kamerpani-rapchu-sima road	कमेरपानी-रप्चु-सिम सडक	5	2.60
71	503RM07B038	Pipalmeta-okhari road	पिपलनेटा-ओखारी सडक	5	1.20
72	503RM07B039	Ramche-rithekharka-sarangkot-jorpohari road	राम्चे-रिठेखर्क-सरंगकोट-जोरपोखरी सडक	5	3.20
73	503RM07B040	Rampani-woda karyalaya-05 road	रामपानी-वडा-०५ कार्यालय सडक	5	1.20
74	503RM07B041	patihalna-bhedipata road	पातिहालना-भेडिपाता सडक	4	2.00
75	503RM07C001	Ratamata-deurali road	रातामाटा-देउराली सडक	1	0.60
76	503RM07C002	Chautara-tallo bheg road	चौतारा-तल्लो भेग सडक	2	1.00
77	503RM07C003	Palukathan-khanni khola-ward office-02 road	पालूका थान-खन्नी खोला-वडा कार्यालय-०२ सडक	2	1.10
78	503RM07C004	Chunjathati-rati pokhari -upallo tole-takuri road	चुंजा -राती पोखरी-उपल्लो टोल-टाकुरी सडक	2	2.10
79	503RM07C005	Majhpokhara-chaurya-mudkhola-ward no.02	माझपोखरा चौर मुडखोला-वडा नं २	3	1.40
80	503RM07C032	Dharampani-ammare road	धरमपानी-अम्मरे सडक	3	2.00

SN	Code	Road Name		Ward Pass	Total Length (Km)
		English	नेपाली		
81	503RM07C006	Dharampani- jhankristhan road	धरमपानी-झाँक्रिस्थान सडक	3	1.40
82	503RM07C007	Raspurkot-chaupani road	रस्पुरकोट-चौरपानी सडक	3	2.00
83	503RM07C008	Saraswati Tole marg	सरस्वति टोल मार्ग	4	0.30
84	503RM07C009	Khalanga-IDO Road	खलंगा-पुर्बाधार बिकाश कार्यालय सडक	4	1.50
85	503RM07C010	Khalanga-Mallarani gaupalika road	खलंगा - मल्लरानी गाउँपालिका सडक	4	0.40
86	503RM07C011	Toprekharka-Samsanghat Road	टोप्रे खर्क - शमशान घाट सडक	4	0.70
87	503RM07C012	Guthakaseri-Roka Tole Road	गुठकसेरी - रोका टोल सडक	4	0.20
88	503RM07C013	Pokhari danda-Samsanghat Road	पोखरीडाँडा-शमशान घाट सडक	4	0.60
89	503RM07C014	Salthanti-jebindanda-amilikhola-majhpokhara road	सालठाँटी जेबिन्डाँडा अमिलिखोला माझपोखरा सडक	4	0.60
90	503RM07C015	Majha-Padhera-Khelmaindhan marga	माझ-पँधेरा-खेलमैदान सडक	4	0.20
91	503RM07C016	Bagkhor-Ripa Road	बाघखोर -रिपा सडक	4	0.20
92	503RM07C017	Asharechaur-Picnic spot road	असारेचौर - पिकनिक स्पोट सडक	4	1.20
93	503RM07C018	Lay khola-Kholabari Road	लायखोला - खोलाबारी सडक	4	0.40
94	503RM07C019	Ekley pipal-Thulochaur road	एकले पिपल-ठुलोचौर सडक	4	0.20
95	503RM07C020	Garinarukh-Devimandir road	गरीनारुख-देवीमन्दिर सडक	4	0.50
96	503RM07C021	Mallarani danda-Zipline Road	मल्लरानी डाँडा -जिपलाईन सडक	4	0.50
97	503RM07C022	Khalanga-Swasta Kendra Road	खलंगा - स्वास्थ्य केन्द्र सडक	4	0.20
98	503RM07C023	Thapachautari-dalit basti road	थापाचौतारी-दलित बस्ति सडक	5	0.60
99	503RM07C024	Milanchautari-hingkhola road	मिलनचौतारी-हिङखोला सडक	5	0.70
100	503RM07C025	Takura-padherachaur road	टाकुरा-पधेराचौर सडक	5	0.50
101	503RM07C026	Takura- Baidhya Chaur Road	टाकुरा- बैध चौर सडक	5	0.80

SN	Code	Road Name		Ward Pass	Total Length (Km)
		English	नेपाली		
102	503RM07C027	Bajabari-ghaidanda road	बाजावारी-घैडाँडा सडक	5	2.00
103	503RM07C028	Ghartitola-para road	घर्तिटोला-पारा सडक	5	0.40
104	503RM07C029	Darbhane budathoki tole-chautari road	दरभाने बुढाथोकीटोल-चौतारी सडक	5	0.60
105	503RM07C030	Ward karyalaya-05-rana tole road	वडा कार्यालय-५ – रानाटोल सडक	5	0.40
106	503RM07C031	Bhadaure-panikhola road	भदौरे-पानीखोला सडक	5	0.30
107	503RM07D001	Dhundi-panighat road	धुन्दी-पानीघाट सडक	5	0.20

Annex - IV: Photo





Rural Municipality Transport Master Plan (RMTMP) Orientation



Rural Municipality Transport Master Plan (RMTMP) Draft Report Presentation

