



**Government of the People's Republic of Bangladesh**  
**Ministry of Local Government, Rural Development & Cooperatives**  
**Local Government Division**

# **CHAR FASSON PAURASHAVA**

## **MASTER PLAN: 2011-2031**

March, 2015

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**Technical Assistance: Local Government Engineering Department (LGED)**



**Government of the People's Republic of Bangladesh**  
**Ministry of Local Government, Rural Development & Cooperatives**  
**Local Government Division**

## **CHAR FASSON PAURASHAVA MASTER PLAN: 2011-2031**

### **STRUCTURE PLAN**

#### **URBAN AREA PLAN:**

- Landuse Plan
- Transportation & Traffic Management Plan
- Drainage & Environmental Management Plan

#### **WARD ACTION PLAN**

March, 2015



**CHAR FASSON PAURASHAVA**  
**CHAR FASSON, BHOLA**



# **CHAR FASSON PAURASHAVA MASTER PLAN: 2011-2031**

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*in association with*

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## Preface

Bangladesh has been experiencing rapid urbanization in the last four decades where level of urbanization has reached from 7.6% to nearly 29% between 1970 and 2011. Multidimensional complex factors like; socio-economic, political, demographic and climatic are responsible for this higher growth of spatial transformation. The fast urbanization is putting pressure on the small towns' limited land, urban services and environment along with countries big cities. Whereas urbanization is also considered as an opportunity and an integral part of the development process. Proper development plans and guidelines with necessary legislative measures and appropriate institutional arrangement can help to achieve sustainable urban as well as rural development.

However, presently, the Paurashavas has the legal mandate to take initiatives of formulating development plans, providing infrastructure and other services and creating opportunities for people to initiate developments with sustainable and harmonic approach. In this regards, Char Fasson had initiated steps to frame its' Master Plan (Physical Development Plan) by taking technical assistance from the Local Government Engineering Department (LGED). LGED under the Local Government Division of the Ministry of Local Government, Rural Development and Cooperatives initiated a project titled 'Upazila Towns Infrastructure Development Project (UTIDP)' providing all sorts of technical assistances to prepare long term physical development plan titled 'Master Plan' for Char Fasson Paurashava.

Master Plan of Char Fasson Paurashva has been prepared following the pre-requisite of the Local Government (Paurashva) Act, 2009. To prepare the Master Plan, LGED engaged consulting firm named Development Design Consultant Ltd. and set up a Project Management Office (PMO) deploying a Project Director, Deputy Project Director, experienced Urban Planners as Individual Consultant and support staffs. Regular monitoring, evaluation and feedback from PMO had also accelerate the pace and quality of the master plan preparation tasks. During formulation of the Master Plan, the Paurashava authority along with the project & the Consultant ensure people's opinion, observation and expectation in various ways: conducting sharing meetings, Public Hearing etc. At the end of the formulation process, the Paurashava completed all procedures necessary for its approval as per the related clauses and sub-clauses of the Local Government (Paurashava) Act, 2009. Paurashava Authority has submitted this Plan to the Local Government Division of the Ministry of Local Government, Rural Development and Cooperatives for final approval and gazette notification.

This Master Plan comprises of three tier of plan in a hierarchical order, these are: Structure Plan for 20 years, Urban Area Plan for 10 years and Ward Action Plan for 5 years. Urban Area Plan also comprises of three components namely; Land use plan, Traffic & Transportation Management plan and Drainage & Environmental Management Plan. This Master plan will serve as guidelines for the future infrastructure development of Char Fasson Paurashava together with land use control and effective management of service facilities.

The Paurashava Authority acknowledges the full support and all out cooperation from the consultant team, the Project Management office of UTIDP, LGED, Local Government Division of the Local Government, Rural Development and Cooperatives Ministry, public representatives, other stakeholders and civil society with deepest gratitude for accomplishing this remarkable assignment.

Cooperation and participation from national to local authorities, all government institutions, private entities and people of Char Fasson Paurashava will be necessary to implement this Master Plan successfully and make this Paurashava developed and livable. I hope Char Fasson Paurashava will be a model Paurashava in Bangladesh through building itself green and sustainable by successful implementation of this Master Plan.

(Mr. Abdus Salam Hawladar)  
Mayor  
Char Fasson Paurahsava.

## EXECUTIVE SUMMARY

The Plan package prepared under the Project titled “Preparation of Master Plan for Paurashava under Upazila Town Infrastructure Development Project”. The aim of preparing the master plans for the Paurashava located at the Upazila Headquarters is to identify the infrastructural facilities needed for overall socio-economic and physical development and activities of the people living in the respective Paurashava as well as to improve their living conditions.

The main purpose of preparing Master Plan of Char Fasson Paurashava is to prepare Land use plan as envisaged in the term of Reference (ToR). The Char Fasson Paurashava is located in the Southern region of Bangladesh. The Paurashava consists of 9 wards which comprise 4938.67 acres or 19.98 sq.km. This is an A Category Paurashava.

The plans included in the package are Structure Plan, Urban Area Plan and Ward Action Plan. **Structure Plan** basically concerned with development of broad strategies for managing and promoting efficient urban development over the long term (2011-2031) and attempts to integrate economic, physical and environmental objectives. The process includes studies on future growth potentials of the areas/regions. It also identifies the basic strategic options available to accommodate the anticipated growth. After evaluation, the preferred strategic option is accepted. This preferred strategy then identifies spatial and other structural issues relating to the overall development of the Paurashava. The Structure Plan also outlines major sector wise policies to guide development in the desired manner over a longer period of time (for 20 years).

Second Component is **Urban Area Plan** which is synthesized with upper tier of the Plan, the Structure Plan. The Urban Area plan provide an interim mid-term strategy for 10 years (2011-2021) for the development, of the Paurashava following the broad guidelines set by the longer term structure plan. The plans can be prepared for specific sections of the urban area identified in the structure plan for rapid development or for special projects and improvements. It gives detailed information on the preferred development pattern, showing location of roads, infrastructure, community facilities and land use zones. Considering the development growth trends, an estimated growth rate for Char Fasson Paurashava has been fixed at 2.20% using Exponential formula. According to this growth rate, population of Char Fasson Paurashava would be about 60,561 by the year 2031. Urban Area Plan is comprised of four components that is Land use Plan, Transportation and Traffic Management Plan, Drainage and Environmental Management Plan and Plan for Urban Services.

Land Use Plan is mainly confined to the land use zoning of Char Fasson Paurashava. Total 14 categories of land use zones have been identified in Char Fasson. About 37.11% lands are preserved for agricultural lands and 10% of total built up area reserved as Urban deferred. Relevant land development control regulations and necessary implementation guidelines have also been incorporated.

Transportation and Traffic Management Plan identifies the location for new major transport corridors within Paurashava area considering Regional and local need. Traffic Volume Projection up to 2031 is the main basis of all plan proposals. Four types of Road Hierarchy, Space allocation at ROW, Provision of Service lane, Pedestrian facilities and others relevant proposals are accommodated in this plan.

Drainage and Environmental Management Plan is comprised of Drainage Network and Environment Management of the Paurashava. Preservation of the natural drainage is also

undertaken. Besides, Landfill System for Solid Waste Management System is proposed to be developed for ensuring environmental sensitivity. Considering the risk of Char Fasson Paurashava against cyclonic hazards separate Committee will be developed as persuaded direction of National Plan for Disaster Management, 2007-15.

The Third component is **Ward Action Plan (WAP)** where ward wise priority schemes, phasing of the schemes is made. Prioritization of no. of wards based on existing development pattern and need of development is also identified. Considering population, distance and suitable land, most of the urban social services will be available to citizens within 1-2 km range.

It is suggested that to follow up the plan proposals and recommendations of different sectors to keep balance with demand and supply of citizens' requirements. The Master Plan will facilitate the agglomeration of people with the view to provide all facilities that will be help full for boosting up their socioeconomic condition. It should be kept in mind that master plan is a guideline for development and control of growth in a systematic manner. Without proper regulation or rules it would not be possible to manage the Master Plan. However appropriate authority must be obligatory for the execution of the Master Plan.

## Table of Contents

Preface	i-ii
Executive Summary	iii-iv
Table of Contents	v-xv
List of Tables	x-xi
List of Figures	xii
List of Maps	xiii
Annexure	xiv
List of Abbreviations and Acronyms	xv

### Part A: STRUCTURE PLAN

	Page No.
<b>Chapter 1: Introduction</b>	
1.1 Introduction	1
1.2 Philosophy of the Master Plan	1
1.3 Objectives of the Master Plan	2
1.4 Conceptualization	2
1.5 Approach and Methodology	3
1.5.1 Demarcation of the Planning area	4
1.5.2 Preparation of Base Map	4
1.5.3 Surveys	4
1.5.4 Data and Information Management	6
1.5.5 Adopted Planning Standard	6
1.5.6 Stake holder's consultation	6
1.6 Scope of the Work	6
<b>Chapter 2: Structure Plan</b>	
2.1 Background of the Paurashava	7
2.2 Vision of the Structure Plan	7
2.3 Objectives of the Structure Plan	7
2.4 Content and Format of Structure Plan	8
<b>Chapter 3: Existing Trend and Growth</b>	
3.1 Social Development	11
3.2 Economic Development	11
3.3 Physical Infrastructure Development	12
3.4 Environmental Growth	12
3.5 Population	12
3.6 Institutional Capacity	13
3.7 Urban Growth Area	13
3.8 Catchments Area	14
3.9 Land Use and Urban Services	14
3.10 Paurashava Functional Linkage with Regional and National Network	14
3.11 Role of Agencies for Different Sectoral Activities	15
<b>Chapter 4: Critical Planning Issues</b>	
4.1 Physical Infrastructure	19
4.2 Socio-Economic	19
4.3 Environment	20
4.4 Transport and Communication	20
4.5 Landuse Control	20
4.6 Disaster	21
4.7 Laws and Regulations	21
<b>Chapter 5: Paurashava Development Related Policies, Laws and Regulations</b>	
5.1 General	22

5.1.1	Local Government (Paurashava) Act 2009	22
5.1.2	Urban Management Policy, 1999	23
5.1.3	National Housing Policy, 2008	24
5.1.4	Population Policy, 2004	24
5.1.5	National Land Use Policy, 2001	24
5.1.6	National Agriculture Policy, 1999	25
5.1.7	Transportation Policy	25
5.1.8	Environment Policy	26
5.1.9	Coastal Zone Policy, 2005	26
5.1.10	Industrial Policy, 2005	31
5.1.11	Health Policy	32
5.1.12	National Urban Policy	32
5.1.13	Rural Development Policy	33
5.1.14	Disaster Management and Climate Change Policy	33
5.2	Laws and Regulations	34
5.2.1	Urban Development Control	34
5.2.2	Building Construction Rules, 1996	34
5.3	Strength and weaknesses of the Existing Policies	35
<b>Chapter 6: Projection of Future Growth by 2031</b>		
6.1	Introduction	37
6.2	Projection of Population	37
6.3	Identifications of Future Economic Opportunities	39
6.4	Projection of Land uses	39
6.5	Housing	41
<b>Chapter 7: Land Use Development Strategies</b>		
7.1	Strategies for Optimum use of Urban Land Resources	43
7.1.1	Land use Zoning Regulation	43
7.1.2	Land Acquisition and Requisition	46
7.1.3	Policy Formulation	46
7.1.4	Different Fiscal measures	46
7.2	Plans for New Area Development	47
7.3	Areas for Conservation and Protection	47
<b>Chapter 8: Strategies and Policies for Sectoral Development of the Paurashava</b>		
8.1	Socio- Economic Sectors	49
8.1.1	Landuse Control	49
8.1.2	Economic Development Employment Generation	49
8.1.3	Housing and Slum Improvement	51
8.1.4	Social amenities and Community Facilities	52
8.1.5	Recreational Facilities	52
8.1.6	Safely and Security	52
8.2	Physical Infrastructure Sectors	53
8.2.1	Traffic and Transportation	53
8.2.2	Utility Services	54
8.2.3	Flood Control & Drainage	55
8.3	Environmental Issues	55
<b>Chapter 9: Implementation Issues</b>		
9.1	Institutional Capacity Building of the Paurashava	58
9.1.1	Staffing and Training	58
9.1.2	Lack of Automation	59
9.1.3	Town Planning Capacity	59
9.1.4	Legal Aspects	63
9.1.5	Good Governance in Legal Provisions	64
9.1.6	Financial Issues	64
9.1.7	Monitoring, Evaluation and Updating	65
9.1.8	Periodic Review and Updating	65
9.2	Resource Mobilization	65

9.3	Concluding Remarks	66
-----	--------------------	----

## Part B: URBAN AREA PLAN

<b>Urban Area Plan</b>	<b>67</b>
<b>Chapter 10: Land Use Plan</b>	
10.1 Existing and Projected Land Use and Land Use Proposals	69
10.1.1 Existing Land use	69
10.1.2 Estimation on the Requirement of Different Land Uses	69
10.1.2.1 Land Use Standards	69
10.1.2.2 Land Requirement and Proposal	71
10.2 Land Use Zoning	86
10.2.1 Area / Use Zoning	86
10.2.2 Density / Bulk Zoning	87
10.2.3 Height Zoning	87
10.3 Plan Implementation Strategy	88
10.3.1 Land Development Regulations to Implement the Land Use Plan	88
10.3.2 Implementation, Monitoring and Evaluation of the Land Use Plan	89
<b>Chapter 11: Transportation and Traffic Management Plan</b>	
11.1 Introduction	92
11.2 Approach and Methodology	92
11.3 Existing Conditions of Transportation Facilities	93
11.3.1 Road Network	93
11.3.1.1 Roadway Characteristics and Functional Classification	93
11.3.1.2 Mode of Transport	94
11.3.1.3 Intensity of Traffic Volume	94
11.3.1.4 Level of Service: Degree of Traffic Congestion and Delay	95
11.3.1.5 Facilities of Pedestrians	95
11.3.1.6 Primary Considering Issues for Planning	95
11.3.2 Condition Water Transport	95
11.3.3 Condition of Other Transport	95
11.4 Future Projections	97
11.4.1 Travel Demand Forecasting for Next 20 Years	97
11.4.2 Transportation Network Considered	97
11.4.3 Future Traffic Volume and Level of Service	97
11.5 Transportation Development Plan	97
11.5.1 Road Network Plan	97
11.5.2 Design Principle and Standard	98
11.5.3 Proposal for Improvement of the Existing Road Network	101
11.5.4 Proposal for New Road	102
11.6 Plan for Other Transportation Facilities	105
11.6.1 Parking and Terminal Facilities	105
11.6.2 Development of Facilities for Pedestrians, Bicycles and Rickshaws	105
11.6.3 Other Transportation Facilities	105
11.7 Waterway Development/Improvement Option	106
11.8 Transportation System Management (TSM)	106
11.8.1 Strategies for Facility Operations	106
11.8.2 Strategies for Traffic Flow and Safety	107
11.8.3 Strategies for Traffic Management	107
11.9 Plan Implementation Strategies	107



## **Chapter 12: Drainage and Environmental Management Plan**

12.1	Drainage Management Plan	112
12.1.1	Goals and Objectives	112
12.1.2	Methodology and Approach to Planning	112
12.2	Existing Drainage System Network	113
12.2.1	Man-made Drains	113
12.2.2	Natural Canal and River	114
12.2.3	Topographic Condition of Existing Drainage Network	116
12.2.4	Analysis of Peak Hour Run Off Discharge and Identification of Drainage Outfalls	116
12.3	Plans for Drainage Management and Flood Control	123
12.3.1	Plan for Drain Network Development Drainage Network Plan	123
12.3.2	Proposal for Improvement of the Existing Drain Networks	123
12.3.3	Outfall of Drains	123
12.3.3.1	List of Proposed New Drains	123
12.3.3.2	List of Infrastructure Measures for Drainage and Flood Control Network	123
12.4	Implementation Strategies & Principles	124
12.4.1	Plan Implementation Strategies	124
12.4.2	Regulations to Implement the Drainage & Flood Plan	124
12.5	Environmental Management Plan	126
12.5.1	Goals and Objectives	126
12.5.2	Methodology and Approach to Planning	126
12.5.3	Existing Environmental Condition	126
12.5.4.1	Geo-morphology Geology, Soil, Sub soil Condition	127
12.5.4.2	Climate	127
12.5.4.3	Temperature	127
12.5.4.4	Humidity	127
12.5.4.5	Rainfall	127
12.5.4.6	Wind Directions	128
12.5.4.7	Hydrology	128
12.5.5	Solid Waste and Garbage Disposal	128
12.5.6	Pollution	129
12.5.7	Natural Calamities and Localized Hazards	129
12.6	Plans for Environmental Management and Pollution Control	132
12.6.1	Proposals for Environmental Issues	132
12.6.1.1	Solid waste management Plan	132
12.6.1.2	Open space, wet-land and relevant features protection Plan	133
12.6.1.3	Ground Water Pollution	133
12.6.1.4	Surface Water Pollution	133
12.6.1.5	Industrial Pollution	133
12.6.2	Natural calamities and regular hazard mitigation proposals	134
12.6.2.1	Cyclone	134
12.6.2.2	Flood Protection	134
12.6.2.3	Earth Quake	134
12.6.2.4	Fire Hazard	134
12.6.2.5	Protection Plan addressing encroachment and other relevant issues	135
12.7	Plan Implementation Strategies	135
12.7.1	Regulations to Implement the Environment Management Plan	135
12.7.2	Plan Implementation Strategy	136

## **Chapter 13: Plan for Urban Services**

13.1	Introduction	138
13.2	Consideration for the Preparation of Urban Service	138
13.3	Range and Content of the Urban Service	138
13.3.1	Water Supply	138
13.3.2	Solid Waste	139
13.3.3	Sanitation	139
13.3.4	Open Space and Recreation	139

13.3.5	Market Facilities	139
13.3.6	Community Facilities	139
13.3.7	Education	140
13.3.8	Health	140
13.4	Regulations to Address the Proposals	142
13.5	Implementation, Monitoring and Evaluation	143

## Part C: WARD ACTION PLAN

### Chapter 14: Ward Action Plan

14.1	Introduction	146
14.1.1	Background	146
14.1.2	Content and Form of Ward Action Plan	146
14.1.3	Linkage with Structure and Urban Area Plan	146
14.2	Derivation of Ward Action Plan	146
14.2.1	Revisiting Structure Plan and Urban Area Plan	146
14.2.2	Prioritization	147
14.2.3	Ward Wise Action Plan	147
14.3	Proposals and Plans for Ward-01	148
14.3.1	Road Network Development Plan	148
14.3.2	Drainage Network Development Plan	150
14.3.3	Urban Services	151
14.4	Proposals and Plans for Ward-02	155
14.4.1	Road Network Development Plan	155
14.4.2	Drainage Network Development Plan	155
14.4.3	Urban Services	156
14.5	Proposals and Plans for Ward-03	159
14.5.1	Road Network Development Plan	159
14.5.2	Drainage Network Development Plan	161
14.5.3	Urban Services	162
14.6	Proposals and Plans for Ward-04	166
14.6.1	Road Network Development Plan	166
14.6.2	Drainage Network Development Plan	168
14.6.3	Urban Services	168
14.7	Proposals and Plans for Ward-05	172
14.7.1	Road Network Development Plan	172
14.7.2	Drainage Network Development Plan	173
14.7.3	Urban Services	175
14.8	Proposals and Plans for Ward-06	178
14.8.1	Road Network Development Plan	178
14.8.2	Drainage Network Development Plan	179
14.8.3	Urban Services	179
14.9	Proposals and Plans for Ward-07	183
14.9.1	Road Network Development Plan	183
14.9.2	Drainage Network Development Plan	185
14.9.3	Urban Services	186
14.10	Proposals and Plans for Ward-08	190
14.10.1	Road Network Development Plan	190
14.10.2	Drainage Network Development Plan	191
14.10.3	Urban Services	191
14.11	Proposals and Plans for Ward-09	195
14.11.1	Road Network Development Plan	195
14.11.2	Drainage Network Development Plan	195
14.11.3	Urban Services	196
14.12	Implementation Guidelines	199
14.12.1	Proposals for Mitigation of Identified Issues	199
14.12.2	Comparative Advantage of Master Plan	199
14.13	Conclusion	199

## LIST OF TABLE

Table 2.1	Mouza wise area of Char Fasson Paurashava	8
Table 3.1	Population distribution of Char Fasson Paurashava Area	12
Table 6.1	Projected Population during the Year 2015-2031	38
Table 6.2	Future Projection and Projected Land Requirement for the Year of 2031 as per recommended standard	39
Table 6.3	Projected number of households	42
Table 7.1	Broad Land use Zones	43
Table 7.2	Policy for new area development	47
Table 7.3	Areas for conservation and protection	47
Table 10.1	Existing Land use of Char Fasson Paurashava	69
Table 10.2	Proposed Major Land use of Char Fasson Paurashava	71
Table 10.3	Land Requirement, Existing and Proposed Land use of Char Fasson Paurashava for the year 2031	75
Table 10.4	Development Proposal for Residential Zone of Char Fasson Paurashava	77
Table 10.5	Development Proposal for Commercial Zone of Char Fasson Paurashava	77
Table 10.6	Development Proposal for Industrial Zone of Char Fasson Paurashava	78
Table 10.7	Development Proposal for Government Services of Char Fasson Paurashava	79
Table 10.8	Development Proposal for Education and Research Zone of Char Fasson Paurashava	79
Table 10.9	Development Proposal for Open Spaces of Char Fasson Paurashava	81
Table 10.10	Development Proposal for Recreational Facilities of Char Fasson Paurashava	82
Table 10.11	Development Proposal for Transportation Facilities of Char Fasson Paurashava	83
Table 10.12	Development Proposal for Utility Services of Char Fasson Paurashava	83
Table 10.13	Development Proposal for Health Facilities of Char Fasson Paurashava	85
Table 10.14	Development Proposal for Community Facilities of Char Fasson Paurashava	85
Table 11.1	Type wise length and area of Road	93
Table 11.2	Standard of Roads Proposed by PMO	98
Table 11.3	Standard for Future Development of the Road Network	98
Table 11.4	Summary of Road Widening Proposal for Existing Road	102
Table 11.5	Summary Proposed Roads of Char Fasson Paurashava according to Hierarchy	103
Table 11.6	Development Proposal for Transportation Facilities	105
Table 12.1	Existing Inventory of Drains	113
Table 12.2	Drainage Coverage of Existing Khals in Char Fasson Paurashava	114
Table 12.3	Ward wise Area Coverage of existing waterbodies at Char Fasson	116
Table 12.4	Manning's "N" Values for Channel Flow	118
Table 12.5	Storage Coefficients for Flat Land	118
Table 12.6	Modified Rationale Method Runoff Coefficients	119
Table 12.7	Summary of proposed drain	123
Table 14.1	Road Network Proposal at Ward no. 01	148
Table 14.2	Drainage Development Plan Proposals for ward 01	150
Table 14.3	Development Proposals for ward 01	151
Table 14.4	Road Network Proposal at Ward no. 02	155
Table 14.5	Drainage Development Plan Proposals for ward 02	155
Table 14.6	Development Proposals for ward 02	156
Table 14.7	Road Network Proposal at Ward no. 03	159
Table 14.8	Drainage Development Plan Proposals for ward 03	161
Table 14.9	Development Proposals for ward 03	162
Table 14.10	Road Network Proposal at Ward no. 04	166
Table 14.11	Drainage Development Plan Proposals for ward 04	168
Table 14.12	Development Proposals for ward 04	169
Table 14.13	Road Network Proposal at Ward no. 05	172
Table 14.14	Drainage Development Plan Proposals for ward 05	173
Table 14.15	Development Proposals for ward 05	175

Table 14.16	Road Network Proposal at Ward no. 06	178
Table 14.17	Drainage Development Plan Proposals for ward 06	179
Table 14.18	Development Proposals for ward 06	179
Table 14.19	Road Network Proposal at Ward no. 07	183
Table 14.20	Drainage Development Plan Proposals for ward 07	185
Table 14.21	Development Proposals for ward 07	186
Table 14.22	Road Network Proposal at Ward no. 08	190
Table 14.23	Drainage Development Plan Proposals for ward 08	191
Table 14.24	Development Proposals for ward 08	191
Table 14.25	Road Network Proposal at Ward no. 09	195
Table 14.26	Drainage Development Plan Proposals for ward 09	195
Table 14.27	Development Proposals for ward 09	196

## LIST OF FIGURES

Fig 1.1	Diagram of Master Plan Preparation	3
Fig 2.1	Content of Structure Plan	10
Fig 9.1	Scope of Work for Planning Division	60
Fig 11.1	Variations of Peak Hour and Off-Peak Hour PCU's	94
Fig 11.2	Time wise Traffic Volume at Hat Day	94
Fig 11.3	Channelization Measures at Major Intersections	99
Fig 11.4	Corner Plot Widening at Intersections	99
Fig 11.5	Typical Cross-Section of Various Types of Roads	101
Fig 12.1	Earthen Primary Drain	120
Fig 12.2	Typical RCC Primary Drain	120
Fig 12.3	Typical Secondary Drain	120
Fig12.4	Typical Tertiary Drain	121
Fig 12.5	Plot and Block Drain	121
Fig 12.6	Bridge and Culvert	122
Fig12.7	A schematic view of Drainage sluice, pipe sluice and siphon on embankment which relieve drainage congestion	122
Fig12.8	Monthly Average Temperature	127
Fig 12.9	Monthly Average Relative Humidity (%) by the Section 2000-2010	127
Fig 12.10	Mean annual rainfall in Bangladesh	127
Fig 12.11	Wind Speed Data of Several Years in Bhola	128
Fig 12.12	Cyclone, Flood and Earthquake condition in Char Fasson Paurashava.	131

## LIST OF MAPS

Map 3.1	Regional Linkage of Char Fasson Paurashava	16
Map 7.1	Structure Plan of Char Fasson Paurashava	45
Map 10.1	Existing Land use of Char Fasson Paurashava	70
Map10.2	Proposed Land use Plan of Char Fasson Paurashava	74
Map 11.1	Existing Road Network of Char Fasson Paurashava	96
Map11.2	Proposed Road Network of Char Fasson Paurashava	104
Map 12.1	Existing Drainage Network of Char Fasson Paurashava	115
Map 12.2	Proposed Drainage Network of Char Fasson Paurashava	125
Map 13.1	Proposed Urban Services of Char Fasson Paurashava	
Map 14.1	Proposed land use of ward No. 01	153
Map 14.2	Proposed Road and Drainage Network of ward No. 01	154
Map 14.3	Proposed land use of ward No. 02	157
Map 14.4	Proposed Road and Drainage Network of ward No. 02	158
Map 14.5	Proposed land use of ward No. 03	164
Map 14.6	Proposed Road and Drainage Network of ward No. 03	165
Map 14.7	Proposed land use of ward No. 04	170
Map 14.8	Proposed Road and Drainage Network of ward No. 04	171
Map 14.9	Proposed land use of ward No. 05	176
Map 14.10	Proposed Road and Drainage Network of ward No. 05	177
Map 14.11	Proposed land use of ward No. 06	181
Map 14.12	Proposed Road and Drainage Network of ward No. 06	182
Map 14.13	Proposed land use of ward No. 07	188
Map 14.14	Proposed Road and Drainage Network of ward No. 07	189
Map 14.15	Proposed land use of ward No. 08	193
Map 14.16	Proposed Road and Drainage Network of ward No. 08	194
Map 14.17	Proposed land use of ward No. 09	197
Map 14.18	Proposed Road and Drainage Network of ward No. 09	198

## **Annexure**

Annex-A	Team Composition of Master Plan Preparation
Annex-B	Paurashava Gazette
Annex-C	Permitted Land Use
Annex-D	Meeting Minutes
Annex-E	Proposed Road Inventory
Annex-F	Proposed Drain Inventory
Annex-G	Mouza Schedule of Waterbody
Annex-H	<ol style="list-style-type: none"><li>1. Structure Plan Map</li><li>2. Land Use Plan Map</li><li>3. Transportation and Traffic Management Plan Map</li><li>4. Drainage and Environmental Management Plan Map</li></ol>

## **List of Abbreviations and Acronyms**

BBS	: Bangladesh Bureau of Statistics
BDT	: Bangladeshi Taka (Currency)
BM	: Bench Mark
BTCL	: Bangladesh Telecommunication Company Limited
BWDB	: Bangladesh Water Development Board
CBO	: Community Based organization
CS	: Cadastral Survey
DGPS	: Differential Global Positioning System
EMP	: Environmental Management Plan
EPA	: Environment Protection Authority
GCP	: Ground Control Points
GIS	: Geographic information System
Govt.	: Government
GPS	: Global Positioning System
H.Q.	: Head Quarter
H/hold	: Household
JICA	: Japan International Cooperative Agency
KM/ km	: Kilometer
LAN	: Local Area Network
LCC	: Lambert Conformal Conic
LGED	: Local Government Engineering Department
LPG	: Liquid Petroleum Gas
MV	: Motorized Vehicle
NGO	: Non-Government Organizations
NMV	: Non Motorized Vehicle
O-D	: Origin – Destination
Orgs.	: Organizations
PCU	: Passenger Car Unit
PD	: Project Director
PMO	: Project Management Office
R.F.	: Representative Fraction
RHD	: Roads and Highways Department
RoW	: Right of Way
RS	: Revenue Survey
RTK-GPS	: Real Time Kinematics Global Positioning System
SoB	: Survey of Bangladesh
SPSS	: Statistical Package for Social Science
TCP	: Temporary Control Point
TIN	: Triangulated Irregular Network
ToR	: Terms of Reference



## **Part A. Structure Plan**

## **Chapter - 1**

# **INTRODUCTION**

### **1.1 Introduction**

Local Government Engineering Department (LGED), Ministry of Local Government, Rural Development and Cooperatives, Government of the People's Republic of Bangladesh has taken a massive program to prepare master plan of 223 Paurashavas under the project titled 'Upazila Towns Infrastructure Development Project' (UTIDP) funded by the Government of Bangladesh. The aim of master plans for the Paurashavas is to identify the infrastructural facilities needed for overall socio-economic and physical development and activities of the people living in the respective Paurashava so as to improve their living conditions.

However, the main purpose of preparing master plan of Char Fasson Paurashava is to prepare Land Use Plan and related Infrastructural Plans as envisaged in the Terms of Reference (TOR). The Master Plan of Char Fasson Paurashava is to be prepared based on the topography survey, physical feature survey, land use survey, socio-economic survey and other different types of sector surveys/studies. However, the plan consists of three volumes known as Master Plan. These are:

- **Structure plan**
- **Urban Area Plan**
- **Ward Action Plan**

The following aspects have been addressed in preparing the master plan for Char Fasson Paurashava:

- Guide/regulate planned development of infrastructure and facilities
- Facilitate socio-economic development activities
- Ensure conservation of natural streams and addressing properly environmental concerns
- Arrest existing unplanned growth
- Stop further encroachment of the fertile agricultural lands and potential beach areas
- Proper and optimal use of land
- Facilitate provision of utilities, services and facilities for the resident population
- Spatial layout for public sector, private sector and public- private sector investments
- Facilitate conservation of bio-diversity

### **1.2 Philosophy of the Master Plan**

The master plan will facilitate the agglomeration of people of a defined place with the view to provide all supportive facilities for them that will be helpful for boosting up their socio-economic condition. Moreover, considerable care has to be given to improve their quality of life through providing some other facilities such as recreational, municipal facilities etc. But it should be kept in mind that master plan is a guideline for development and control of growth in a systematic manner. Without proper regulation or rules it would not be possible to manage the master plan. However, appropriate authority will be obligatory for the execution of the master plan.

### **1.3 Objectives of the Master Plan**

According to the Terms of Reference (TOR) the objectives of the Master Plan are as follows:

- Find out problems and potentialities of developing various sectors
- Facilitating the provision for all types of infrastructure and service facilities needed for development as well as socio-economic facilities and infrastructure for the local people
- Supporting protection of the local environment/ecology
- Preparing a 20-year Master Plan used as tool to guide and regulate planned physical growth and development
- Facilitating job opportunities for the local people so as to address the issue of poverty reduction in line with the national policy of poverty reduction
- Keeping provision for short, medium and long-term investment plans by the public sector, the private sector and the PPP in implementing the Char Fasson Paurashava plan.

### **1.4 Conceptualization**

#### **Structure Plan**

The term Structure Plan includes a full analysis of the existing scenarios, highlight the existing condition of different sectoral infrastructures, identification of sectoral issues and interventions, prescription of solution for each sector and setting proposal and recommendations for the future action to be taken within the mentioned period, say 20 years. This is a longer-term plan.

#### **Urban Area Plan**

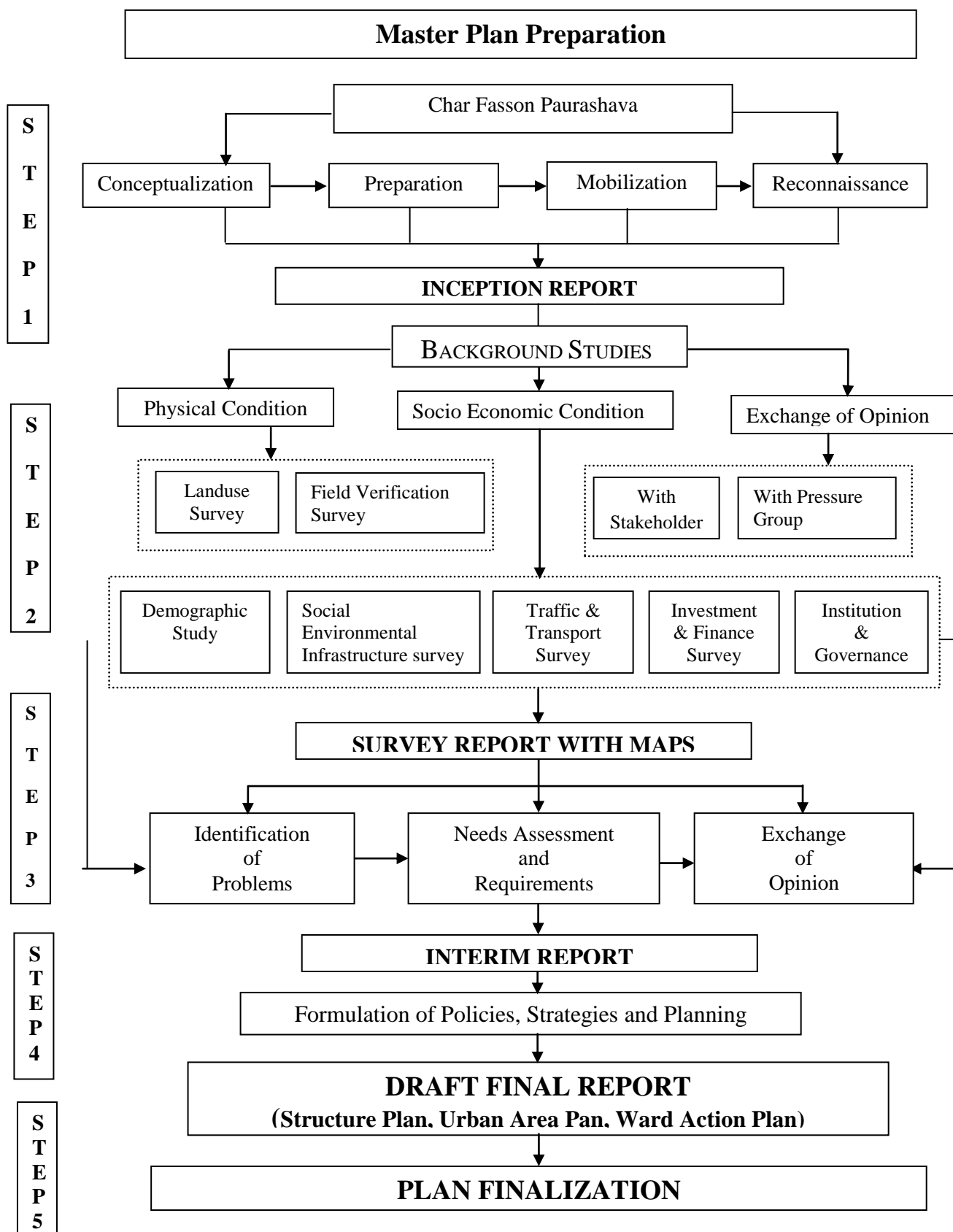
The term Urban Area Plan (UAP) is prepared for managing and promoting development over medium term on the basis of the strategies set by the longer-term structure plan. Basically the UAP is an interpretation of the Structure Plan over the medium term (10 years). The coverage of the UAP is existing urban areas and their immediate surroundings with the purpose of providing development guidance in these areas where most of the urban development activities are expected to take place over the next 10 years. Delineation of the Urban Area Plan should be based on the urban growth area as identified in the Structure Plan. It will contain more details about specific programs and policies that require to be implemented over the medium term. The UAP is consisted with the Land Use plan, Transportation and traffic Management plan, Drainage and Environmental Management Plan and Community Services Plan.

#### **Ward Action Plan**

This is called short-term plan, say 5 years. Individual Ward of the Pauashava is deserved scope of this plan. In the Paurashava, 9 Ward Action Plan is being prepared. The plan includes review of the existing situation of the Ward with respect to land use, community facilities, public services, utilities, infrastructures, etc. Problems need immediate attention and scope of development is the basis of this plan. The problems and their recommendations as prescribed in the Urban Area Plan are being emphasized for immediate implementation with the help of ward Action Plan

## 1.5 Approach and Methodology

The project is aimed for development of infrastructure and services for the Paurashava with optimum provision of opportunities for local people and extending services to surrounding areas.



### **1.5.1 Demarcation of the Planning Area**

The demarcation of the study area is an important task in order to gather information and data. As per TOR, the study area or the planning area is determined by the consultants reviewing its growth potential, geographical and geological context, tourism aspects and other relevant issues. Determining the planning area for Char Fasson Paurashava, the consultants had exercised above issues and fixed the area of the Paurashava. The total area of the Char Fasson Planning Area is 4938.67 acres (19.98 sq km). However, in demarcating the study area, the following aspects have been considered:

- the existing and future road linkages
- physical growth directions
- physical features of the area and the surrounding areas

### **1.5.2 Preparation of the Base Map**

The following steps have been followed to prepare the base map:

- Collection of RS Mouza Maps
- Identification of GCP (TIC) on Digitized Maps
- Scanning of Mouza Maps
- Edge Matching and Preparation of Study Area Map
- Digitization of RS Mouza Maps
- Edit Plot Check of Digitized Coverage
- Geo-referencing of Mouza Maps

### **1.5.3 Surveys**

#### **1.5.3.1 Topographic Survey**

Topography survey was conducted by using RTK-GPS and Total Station (TS) survey technique. Topographic survey has included the following features:

- Land levels/spot levels for contours at 50m intervals with denser intervals for undulations;
- Alignment and crest levels (not exceeding 50m) of roads, embankments, dykes and other drainage divides;
- Alignment of rivers, lake, canal, drainage channels etc;
- Outline of bazars, water body, swamps and forest, etc;
- Type, width, length and name of road above flood level;
- For closed boundary/outline of homestead, water bodies, swamps, forest etc. junctions, spot heights or land levels will be taken roughly at 10m intervals in normal cases and contour will be at 0.3 meter interval;
- Crest levels will not exceed 50m along all dyke, roads and drainage divide.

#### **1.5.3.2 Physical Feature Survey**

Physical feature surveys provided the basis for understanding many planning problems. To know existing information about physical features of Char Fasson Paurashava, physical feature survey was carried out. The physical features map was prepared on RS/CS map on 1"=165' scale showing the following features:

- Cross Section, long section, type, width, length and name of road, road level above datum, slopes, flooding lands, slopes, borrow pit

- Identification of any bridge or culvert on the road with their length & width and span of the bridge, condition of abutments, condition of the deck, wing walls abutments;
- Type, size, inlet and outlet location of drain along with flow direction, width of the canal, place of encroachment;
- Type of sewer system, size, type and location of sewerage line, location of bins, identification of any other sewerage collection system;
- Identification of the water supply system, location of overhead water tank and its capacity, catchments area of overhead tank;
- Identification, location and capacity of electricity, telephone service;
- If any, new items identified during the survey period will also be surveyed;

#### **1.5.3.3 Land use Survey**

Utilizing the Base Map, (physical features survey overlay on survey map) the land use map was prepared indicating the broad categories of land uses. And it described using a suitable land use code reference. The characteristics of each land use area were described in the survey report. The Land Use Maps were prepared on the Base Map.

#### **1.5.3.4 Socio-economic Survey**

The planning is principally directed towards people and their needs concerning housing, shopping, recreational, employment, education, and health services, etc. The detailed information on population is, therefore, essential for deciding land requirement for these needs as well as allocating land between various competing uses.

A socio-economic survey for collection of primary data was conducted at Char Fasson Paurashava. The sample size of socio-economic survey was 5% as per ToR. It is clearly understood that the purpose of this socio-economic survey is to obtain the project related socio-economic data on households in the project area. All data were collected from the primary sources through a specially designed socio-economic questionnaire survey.

#### **1.5.3.5 Drainage and Environmental Study**

The consultants have undertaken a drainage survey and environmental study at Char Fasson Paurashava. The preparation of master plan for the next 20 years for the Paurashava seeks environmental investigation of development activities that will be undertaken in next 20 years. The issues/aspects that were investigated as per the TOR are as follows,

##### **Existing Infrastructure**

- Drainage
  - Man-made (drainage network, gradient, attachment area, out let)
  - Natural (flow direction, hydrology, usability)
- Water supply (network, coverage)
- Sewerage (location/network, condition)
- Solid waste management-existing system, location of garbage disposal, management aspect

##### **Environmental Aspects**

- Humidity, rainfall and temperature of the study area.
- Climatic and Disaster Condition, Soil and topographic Condition.
- Environmental Pollution (air, water and noise pollution).
- Identification of hazards.
- Existing mitigation/coping measures, if any.
- Identification of environmental protection laws/regulations.

#### **1.5.4 Data and Information Management**

All the data and information collected from the primary and secondary sources have been sorted/edited and computerized and analyzed. Projections were done in the case of populations so as to estimate the spatial requirements of different services and facilities for the resident population. All these were accomplished in line with the objectives of the plan so as to estimate the land requirements for different service and facilities. Elaborate information regarding projection and estimation of land requirements are available in the following concern chapters.

#### **1.5.5 Adopted Planning Standards**

The planning standard provided by the PMO office of UTIDP has followed to prepare the Master Plan.

#### **1.5.6 Stakeholders' Consultations**

After preparation of a draft plan, a consultation meeting has conducted with the concerned authority and local people of Char Fasson Paurashava to acquire aspirations, demand, problem and prospects of the area and community as well as the views of service proving agencies and local administration and share the master plan with them. After incorporating their views and demands, the master plan has prepared.

### **1.6 Scope of Work**

The scope of the work is to cover all aspects related to the preparation of Master Plan / Urban Area Plan which include Land Use Plan, Traffic Management Plan, Drainage and Environment Plan and Ward Action Plan. Prepare a plan to set out proposed Master Plan at three levels namely Structural Plan, Master Plan / Urban Area Plan and Ward Action Plan. In order to prepare these plans following activities has been conducted:

- Visits to the Char Fasson Paurashava have been made in different stages for the preparation of Master plan
- An inception meeting at the Paurashava level has been conducted to inform Paurashava about the scope of work for the preparation of Master Plan for 20years development vision.
- The study area has been determined on the basis of existing condition demand of the Paurashava and the potentiality for future development.
- Different types of survey activities have been conducted from primary and secondary source.
- A comprehensive drainage master plan for a period of 20 years has been prepared.
- Assessing existing condition an integrated transportation plan is proposed for next 20 years
- Ward action plan with list of priority schemes for the development of roads parks and other social facilities are proposed which need to implement during the first five years of the plan period.
- Two consultation meeting have been organized with the help of concerned Paurashava and local stakeholders.
- Master plan and report with required standard have been prepared and submitted as required TOR.

## Chapter - 2 STRUCTURE PLAN

### 2.1 Background of the Paurashava

Char Fasson upazila of Bhola zila was declared as Char Fasson Paurashava on 17th May, 1993. Char Fasson Paurashava is an A-Class Paurashava and covers 7 mouzas (14 sheets). The Paurashava is bounded on the north by Aslampur Union, on the west by Rasulpur Union and Char Kukrimukri Union, on the south by Hajariganj Union and on the east side by Char Madras Union and Aminabad Union. However, Char Fasson Paurashava consists of 9 wards with an area 4938.67 acres or 19.98 sq.km.

Local Government Engineering Department (LGED), Government of the People's Republic of Bangladesh has taken a massive programme to prepare master plan of 223 Paurashavas including Kuakata Tourism Centre located at the Upazila headquarters under Upazila Towns Infrastructure Development Project (UTIDP) funded by the Government of Bangladesh. The Master Plan has three components namely: Structure Plan, Urban Area Plan and Ward Action Plan. Part-A consists of Structure Plan of Char Fasson Paurashava. **Map 2.1** delineates the location of Char Fasson Paurashava.

### 2.2 Vision of the Structure Plan

The vision of the Structure Plan is oriented with the policy development for the project area in relation with national and regional policies or framework through close liaison between planning authority and government departments. In a word, it will provide the basis of Co-coordinating decisions. It will be considered as the upper level planning guideline component for next two levels of planning i.e. Urban Area Plan and Ward Action Plan. Structure Plan will identify the urban growth area based on which the Master Plan area will be delineated. It will set policy framework which will be more detailed in Urban Area Plan. Moreover, it will provide the basis of development control in pursuing the Urban Area Plan. Subsequently, the indication of action areas and the nature of treatment in different sectors will also be considered here. It will define the location of action areas but not the boundaries, also the priority, possible effect of actions proposed. Pertaining with Action Area Plan, the combination of Public and Private Agency or individuals' involvement to implement the proposed actions will be stated here.

### 2.3 Objectives of the Structure Plan

The main objectives of preparing master plan of Char Fasson Paurashava are to prepare Structure Plan, Urban Area Plan and Ward Action Plan as envisaged in the Terms of Reference (TOR). The structure plan has the following objectives:

- To identify the main development issues facing the Paurashava (town) with major opportunities and constraints
- To identify the growth and possible physical expansion of the city as foreseen considering economic base and Trend
- To provide a view of required and suitable lands for future physical expansion
- To develop the sector wise strategies pursuing the future development control in a desirable direction
- To identify the resources which are needed to strengthen the financial resources of the town
  - Establishment of intersectoral goals, policies and general proposals for urban spatial development
  - Provide framework for the next hierarchy of Char Fasson Paurashava Master plan and Ward action plan



## 2.4 Content and Format of Structure Plan

As per Terms of References (TORs) the Structure Plan of Char Fasson Paurashava has been prepared for 20 years in long term. The Urban Area Plan (UAP) will be an interpretation of Structure Plan in Medium Term and Ward Action Plan in Short Term.

### Demarcation of Structure Plan Area

The issues have been adopted for demarcating the study area for Char Fasson Paurashava comprises the following:

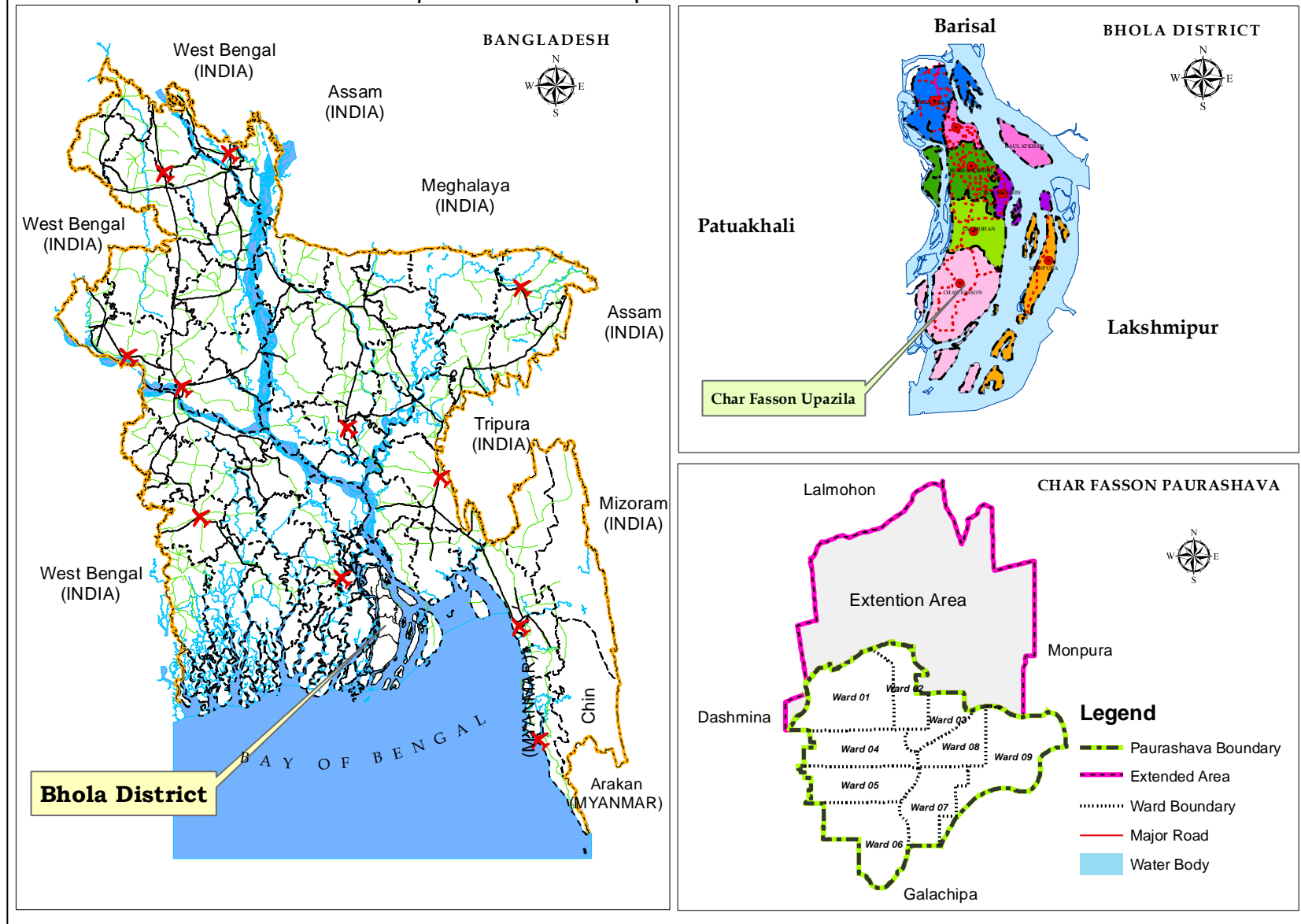
- Study the existing Paurashava boundary with existing growth trend and pattern Analysis of the physical development constraints and potentialities
- Study of the existing and future national, regional and local linkages with Char Fasson
- Consultation with local governments
- Consultation with local people, members of civil societies and other stakeholders

According to the gazette notification, the Char Fasson Paurashava comprises seven mouzas (14 sheets) namely– Dakshin Char Fasson, Jinnahgarh, Kulsumbag, Aslampur, Halimabag, khadejabag and Uttar Char Madrasa. The total Paurashava area is about 4938.67 acres or 19.98 sq.km.

**Table 2.1: Mouza Wise Area of Char Fasson Paurashava**

	Mouza Name	JL No	Sheet No	Area (Acre)
Paurashava Area	Dakshin Char Fasson	61	2, 3, 6	1727.67
	Jinnahgarh	84	1, 2(1 <sup>st</sup> ), 3	905.66
	Kulsumbag	83	2	709.24
	Uttar Char Madrasa	85	1,2	874.27
	Aslampur	60	0	306.57
	Halimabag	82	0	210.04
	Khadejabag	62	0	205.19
<b>Total</b>				<b>4938.68</b>

Map 2.1: Location Map of Charfasson Paurashava



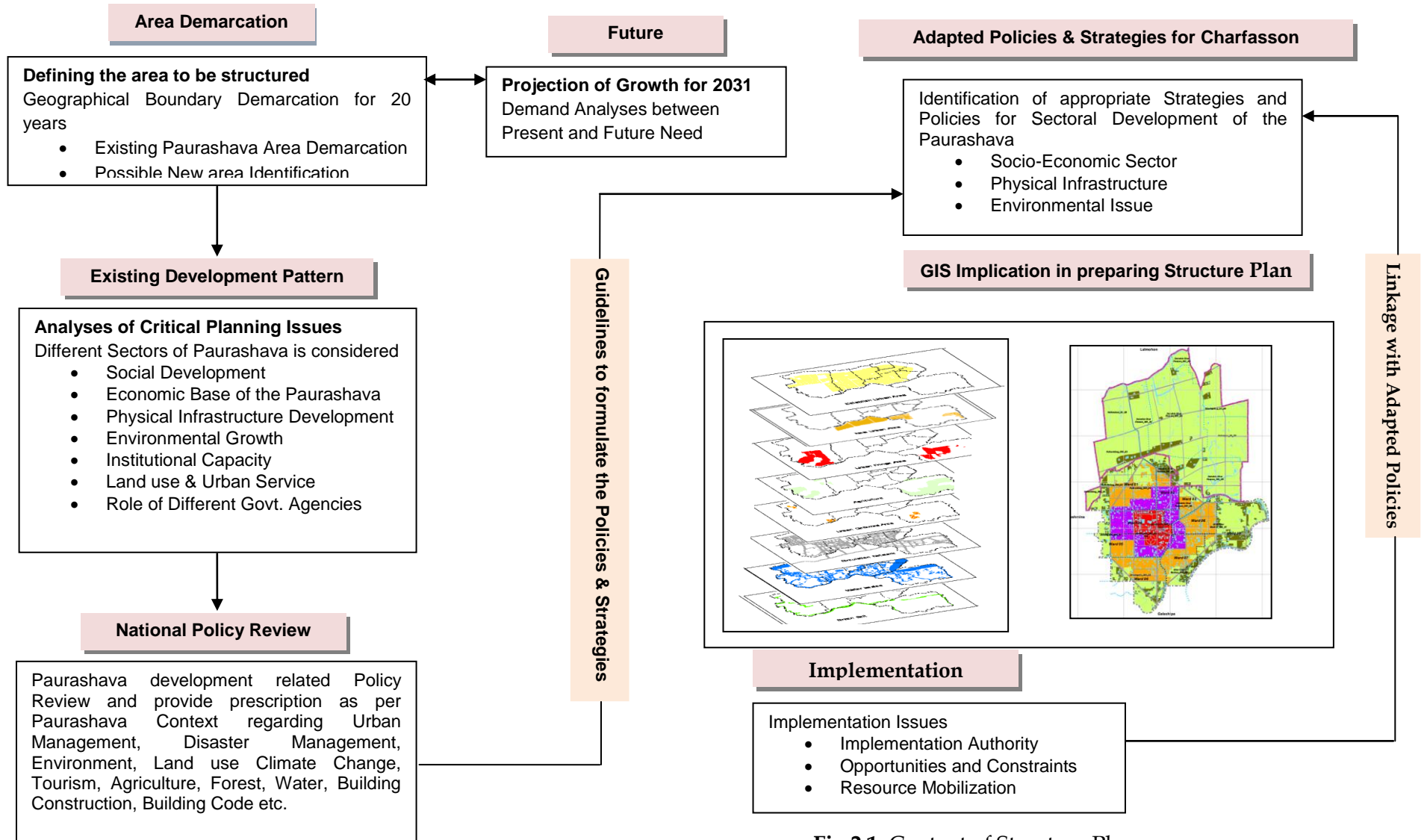


Fig 2.1: Content of Structure Plan

## **Chapter - 3**

### **EXISTING TREND AND GROWTH**

#### **3.1 Social Development**

The total area of Char Fasson Paurashava has been distributed in diverse variety of areas namely core area, semi/potential core, fringe and slum areas. More than 64.7% of the households live in the Core area of Char Fasson Paurashava. This indicates that Char Fasson is a semi-urbanized area where mainly commercial development concentrated on core area, influential or affluent people live in the potential core area and the urban poor those are always likely to live in fringe area.

The educational status of an area is the major determinant of society building. As per BBS 2001, in Char Fasson Paurashava the literacy rate is about 37.8% where the national level the literacy rate is about 53.3%.

It is seen that almost all the wards have similarity in occupation and business is dominant (more than 26%) in every ward which is followed by agriculture (21.41%).

About 95.3% of the households at Char Fasson Paurashava have their own housing structures. Considering other assets it has been observed that according to field survey 2009, about 50.5% households own agricultural lands.

There are different types of income groups of people living at Char Fasson Paurashava area. About 40.0% of the households' incomes are within the range of Tk 5001– Tk.10, 000 per month. Further, 24.7% of the household have income per month Tk. 2500.00– Tk. 5000.00, 4.7% have below 2500.00 Tk per month, 13.3% have 10,001.00- Tk. 15,000.00 Tk , 12.7 % have Tk. 15,001.00– Tk. 20,000.00 and 4.7% have monthly income above 20000.00 Tk.

About 78% of the households' religion is Islam, and the rest 22% of the people are practicing Hinduism at Char Fasson Paurashava.

Survey report depict at Char Fasson Paurashava about 19% of the total households come from other places. As far as the duration of migration of the households is concerned, majority (51.2%) of the households have come between the years of 1990 – 2000 to Char Fasson Paurashava area which means the migration phenomenon is of recent and the rest 48.28 % have come after 2000. Notably, in Ward no. 3, 4 and 9 of Char Fasson Paurashava migratory households are mainly concentrated. Moreover, better education facilities and business have also significant contribution behind migration. All these issues have been given emphasis for attaining social development of the area.

#### **3.2 Economic Development**

In Bangladesh, the economy is composed of formal and informal sectors. But statistics on the size of the informal economy in Bangladesh are difficult to find out. Formal economic activities sector of Char Fasson Paurashava mainly comprises Trade and Commerce, Agriculture, Service Sector, Industry, Transport and so on. The major occupational group is involved in agricultural activity (Socio-economic Survey, 2010). About 49.28% of all the households' members irrespective of sexes of Char Fasson Paurashava are within the age group of 26-57 years. This indicates majority of the household members are economically active group. People of this area are mainly involved in agriculture and business activities. Char Fasson upazila has great agricultural potentiality. At present from Char Fasson Paurashava; various products are supplied to different district by water way and road. Also, various types of fishes especially shrimp are also available here. So, agro-based and fishing based industries can be developed for fostering economic development of the area.

### 3.3 Physical Infrastructure Development

As Barisal region is mainly dependent on agriculture, the Paurashava activities are still oriented with agriculture sector and the physical infrastructure development is hindered due to natural calamities. Some segmented and sporadic physical developments have been occurred over the years in different parts of the Char Fasson Paurashava. Most of the infrastructures have developed without maintaining any regulations or standards.

Physical feature survey depict that there are total 7559 structures at Char Fasson Paurashava. About 71.62% of the structures are kutcha which is followed by 20.61% semi-pucca. Pucca structure is very low percentage (7.77%).

At present, the road network of Char Fasson planning area shows lack of planning principles. From the physical feature survey it has been observed that in respect of road area about about 44.82 % of the roads are kutcha which is followed by 39.51% kutcha roads. So, it might be possible to develop the planning area considering the ward wise development to some extent.

At Char Fasson Paurashava, about 13.24 kilometers pucca drainage and 31.40 kilometers kutcha/natural drainage network have observed. Maximum pucca drains have observed at ward no 4. Most of these drains are not well connected with the river and khals.

### 3.4 Environmental Growth

Char Fasson Paurashava is located in the southern part of Bangladesh. It is very close to the Bay of Bengal. Morphological condition of this Paurashava is quite similar compared to the other district located in south-west region of the Bay of Bengal. The climate has hot summer and a mild winter. Temperature rises steadily from January to April, remains fairly steady from April to October and then falls to reach the lowest in January. The maximum average monthly temperature is 30.1°C in April and minimum average monthly temperature is 17.5 °C in January in 2010. The monsoon starts from June and maximum rainfall is experienced in 2007 and lowest in 2003. Annual rainfall as recorded from 2000 to 2010, the maximum was 938.8 mm in 2008 and lowest in 2003 about 469.4 mm. Drinking water of the Paurashava is quite saline and also contaminated by iron. So, the establishment of Water Treatment Plant will be required for ensuring the good drinking water. In addition, it is possible to preserve the environment before any advanced development as industrial development is very low.

### 3.5 Population

Char Fasson Paurashava comprises around 19,595 numbers of people. Highest number of population has observed at ward no 5. The average population density of Char Fasson Planning area is 1929 person /sq.km. This indicates that Char Fasson is a high density area with respect to both national and district density. Average size of households of Char Fasson Paurashava is 5. This indicates the culture of having small nuclear families which shows urban life characteristics.

**Table 3.1: Households and Population of Char Fasson Paurashava Area**

Ward No.	Base Year Population	Projected Population at			
	2011	2016	2021	2025	2031
1	2076	2316	2583	2882	3214
2	1590	1774	1978	2207	2462
3	1774	1979	2207	2462	2747
4	2316	2583	2882	3215	3586
5	3105	3464	3864	4310	4808
6	2092	2334	2603	2904	3239
7	1460	1629	1817	2027	2261
8	2232	2490	2777	3098	3456
9	2950	3291	3671	4095	4568
<b>Total</b>	<b>19595</b>	<b>21858</b>	<b>24383</b>	<b>27199</b>	<b>30340</b>

Source: Community Report, Bhola District, 2012

### 3.6 Institutional Capacity

In Char Fasson Paurashava, the plan implementation and main power executing authority will be the Paurashava itself. Therefore, effective execution capacity in terms of revenue generation, manpower capacity of the Paurashava is required to evaluate to implement the plan. There are four major component of income generation. These are: 1) Revenue, 2) Development, 3) Capital and 4) Project.

Most of the income of Char Fasson Paurashava in the recent years has been generated from development section. It has been analyzed that in last 5 years the development sector has contributed about 64.73% on an average to the overall income of Paurashava. Besides, revenue sector contributes about 35.27 on an average to the overall income of Paurashava.

Moreover, in last 5 years the development sector has consumed about 64.08% whereas revenue sector has consumed about 35.29% on an average of overall income of Paurashava.

Analyses reveal that in the last four years the income was greater than expenditure but in 2010-11, the expenditure was greater than income.

Existing Manpower of Char Fasson Paurashava is comprised with 1 elected Mayor, 1 Chief Nirbahi Officer and 3 Departments. These are:

1. Engineering Department
2. Administrative Department
3. Health, Family Planning & Conservancy Department

On the basis of organogram, these three departments should comprise of 68, 54 and 33 persons respectively but at present there are 15, 13 and 8 persons respectively. The manpower of Char Fasson Paurashava is not so much capable to implement the Paurashava Master Plan. The Existing posts are not fulfilled by the required manpower. Besides, it may require more efficient, technical and experienced manpower to implement the master plan. It has been observed that in Engineering Department about 78% posts are vacant, in Administration Department about 76% posts are vacant and in Health, Family Planning and Conservancy Department the percentage of vacant posts are about 76%.

Moreover at present, there is no town planning unit at Char Fasson Paurashava. Engineering Department is responsible for monitoring the development control issues of this Paurashava.

### 3.7 Urban Growth Area

As per as the physical growth directions of Char Fasson Paurashava is concerned, the Paurashava is expanding along the Sadar Road on south north direction. This is the important network which is connecting north and south part of the Paurashava that also links the Paurashava with other areas of Char Fasson Upazila. Commercial development is already expanding along with the Sadar road. Moreover, a major portion of fringe area is remain agricultural land.

The existing growth agglomerations along potential core area accommodate mostly the residential areas. Specially for getting advantage of high lands, residential areas developed on these areas that are accelerating growth of the Paurashava on the east side. Besides, care should be given on undesirable encroachment of the agricultural lands which is the main economic sources of planning area.

In considering the commercial and administrative land development, both sides of Sadar road is the potential area for commercial development. At ward no 4, administrative zone can be develop considering Upazila Parishad as centre. Industrial development is mainly concentrated in ward no. 4 and 7. So, it is expected and required to concentrate the development in the existing rather than expanding towards other areas. The industrial development should not be mixed up with residential development. On the other hand, existing industrial area is mixed with the commercial area of the Paurashava. So, it is important to consider these features.

Other community facilities such as educational, religious and others should be provided in consideration of ward wise population distribution as explained in Chapter 4. The potentialities of zoning for important land use can be considered in determining the present growth of Paurashava.

### **3.8 Catchments Area**

Catchments area of the Char Fasson Paurashava is calculated according to the agriculture commodities and movement of dwellers for rendering services. Char Fasson upazila has great agricultural potentiality. People of this area are mainly involved in agriculture and business activities. It has been analyzed that in Paurashava area about 36.17% households are involved in agricultural activities. At present from Char Fasson Paurashava; Betel leaf, coconut, guava, betel nut and amra, etc, products are supplied to different district by water way through Launch or trawler. Thus, this upazila is contributing to national economy.

Moreover, most of the trading activities are concentrated in the bazaar area of the Paurashava. People from different locations come here for daily bazaar. Here is an urgent need for preparing well defined master plans for all those Paurashavas to accommodate all physical developments enhancing socio-economic developmental activities so as to boost up living condition of the people living in the urban area.

### **3.9 Land Use and Urban Services**

Land use is one of major determinant of planning especially in a developing country where technical component is being upgraded still. Suitable land use planning not only controls the development but also it can affect the traffic generation and degeneration of a particular area. At Char Fasson Paurashava, there is dominance of agricultural land (about 48.96% of the total) followed by residential land (about 30.24%) and water body land (about 13.54%).

About 759.26 acres areas are used for residential purposes. Ward no 1 has highest amount of residential land. About 32.54 acre lands are in commercial use at Char Fasson Paurashava and ward no 4 and 5 is the commercial zone of the planning area. From the land use survey it has been observed that about 1.13 acres areas are used for industrial/ processing and manufacturing purposes and ward no. 4 and 7 are the main industrial zone. About 18.72 acre land at Char Fasson Paurashava is devoted for government services and most of the government services are located at ward no. 4. Moreover, about 7.54 acre lands are devoted for community service and 2.55 acre lands are used for service activities. At Char Fasson Paurashava, about 75.14 acres land is occupied by road network.

The landuse pattern clearly indicates that land use pattern does not reveal much urbanized oriented land uses rather a semi-urbanized land use structures. Moreover, existing land proportions of different land uses is not in consistent with the principle of land allocation/distribution of an ideal town.

### **3.10 Paurashava Functional Linkage with Regional and National Network**

Communication system of Bhola is totally different from other districts of Barisal. Char Fasson Paurashava of Bhola District is mainly an island. So, Char Fasson is not directly connected with other districts. Bhola is used as via route. A regional highway is gone through Char Fasson Paurashava which is connected Burhanuddin, Daulatkhana, Lalmohan and Tazumuddin with district headquarter Bhola. Moreover, among seven upazilas of Bhola district, everyone is connected by water ways. So in case of Bhola district water ways improvement should be given more priority than road network compare to other district in Barisal Division.

### **3.11 Role of Agencies for Different Sectoral Activities**

Char Fasson is an A Class Paurashava. The collaboration among different agencies is essential to execute the plan and make a linkage with national plan and investment. Therefore, the role of different agencies or organizations is required to identify and understand.

#### ***LGED***

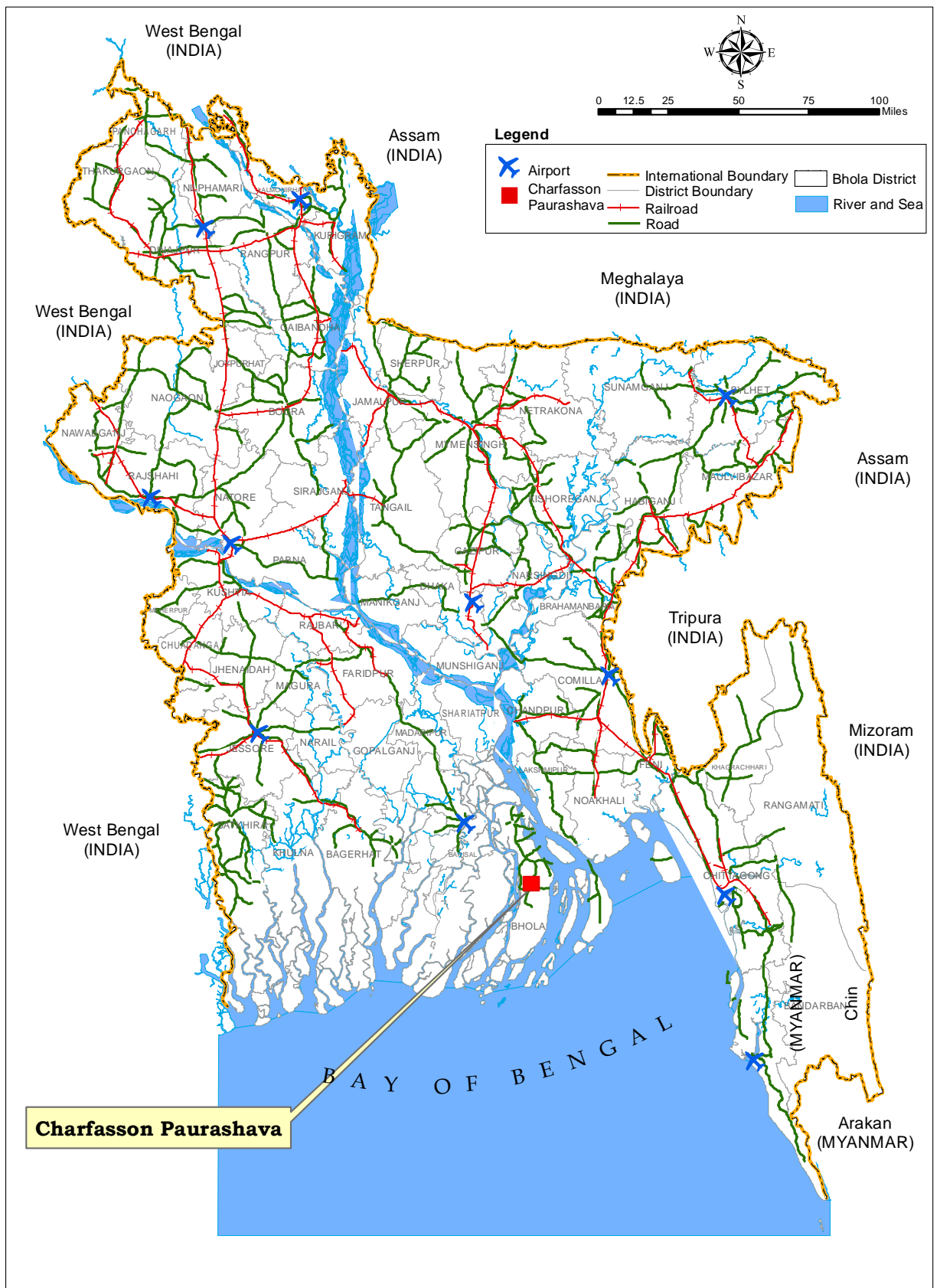
The major functions of LGED can be broadly categorized as follows:

- Rural infrastructure development
- Urban infrastructure development
- Small scale water resources development

Urban Infrastructure Development consists of Planning and implementation of integrated town centre (bus terminals, markets etc.), municipal roads, bridge/culverts, drainage, water supply and sanitation projects, solid waste management projects, slum upgrading projects, development of Land use plan, improve planning & management capacity and resources mobilization & management, Institutional development of municipalities through training and computerizations, preparation of district and upazila town master plan, Development of technical specifications and manuals for construction of urban infrastructures.



Map 3.1: Regional Linkage Map of Charfasson Paurashava



### ***RHD***

RHD is responsible for the construction and the maintenance of the major road and bridge network of Bangladesh. It has a sustainable capacity to plan, manage and deliver its full range of responsibilities in respect of the main road and bridge network and to be accountable for these duties.

### ***PWD***

Public Works Department (PWD) plays a pivotal role in the implementation of government construction projects. It also undertakes projects for autonomous bodies as deposit works. The specific functions are:

- Construction of Buildings for Other Agencies on a Deposit Work Basis
- Maintenance of Public Parks
- Design and Construction of Public Buildings except those of RHD, T&T, Postal Department
- Construction of National Monuments
- Repair and Maintenance of Public Buildings
- Preparation of Book of Specifications and Code of Practice
- Acquisition and Requisition of Land for construction Work
- Procurement of Materials & Equipment Required for Construction Work
- Valuation of Land and Property and Fixing of Standard Rent

### ***BWDB***

Bangladesh Water Development Board (BWDB) is the principal agency of the government for managing water resources of the country. It was given the responsibility of accomplishing the tasks of executing flood control, drainage and irrigation projects to increase productivity in agriculture and fisheries.

### ***DPHE***

The Department of Public Health Engineering (DPHE) with its development partners is trying to ameliorate the sufferings caused by the lack of safe water. Alternative options for safe water supply are being catered in worse affected areas. Similarly for excreta and other waste management DPHE is implementing different projects to achieve an improved environment. Besides, ensuring water supply and sanitation services/ facilities during and after the natural disasters/ calamities is another major function of DPHE.

### ***PDB***

Major roles of Bangladesh Power Development Board (BPDB) are

- To deliver quality electricity at reasonable and affordable prices with professional service excellence.
- To make electricity available to all citizens on demand by the year 2020.
- To provide specialized skilled services in Operation and Maintenance with outstanding performance in Generation, Transmission and
- Distribution for promoting competition among various power sector entities
- To reach self sufficiency by increasing of its income and reduction of expenditure

### ***BIWTA***

An advisory committee has subsequently been constituted to advise the authority in respect of all matters related to development, maintenance and operation of inland water transport and of inland waterways in Bangladesh.

- Draw up programmers of dredging requirements and priorities for efficient maintenance of existing navigable waterways and for resuscitation of dead or dying rivers, channels, or canals, including development of new channels and canals for navigation
- Develop, maintain and operate inland river ports, landing/ferry ghats and terminal facilities in such ports or ghats
- Carry out removal of wrecks and obstruction in inland navigable waterways.
- Ensure co-ordination of Inland Water Transport with other forms of transport, with major sea ports, and with trade and agricultural interests for the optimum utilization of the available transport capacity

**Regulatory functions**

- a) Fixation of maximum and minimum fares and freight rates for Inland Water Transport on behalf of the Government
- b) Approve time tables for passenger launch services
- c) Act as the Competent Authority of Bangladesh for the protocol on Inland Water Transit and Trade, looking after the use of waterways of Bangladesh on behalf of the Govt. of Bangladesh for the purpose of trade and transit between Bangladesh and India as provided in the Protocol

***Land Registration Department***

Land Registration Committee responsible for land registration. This Registration department records land mutations arising through sale, inheritance or other forms of transfer, reports changes to the Ministry of Land and collects the Immovable Property Transfer Tax.

## **Chapter - 4**

### **CRITICAL PLANNING ISSUES**

#### **4.1 Physical Infrastructure**

Char Fasson Paurashava is located in a disaster prone area (Bhola district), its geographical location itself a constraint to develop the infrastructure in the area. It can be noticed that there are some segmented and sporadic physical developments that have been occurred over the years in different parts of the Char Fasson Paurashava. There is no river within Paurashava boundary. There are many khals. One is gone through in the middle of Paurashava and another is gone in the east side which is adjacent to Paurashava boundary. Most of the lands of both side of canal are developed as residential and commercial use areas. Ward no 4 and 5 are the main commercial zone in the planning area. Administrative structures are mostly developed at ward no 4 and 5 of the Paurashava.

Char Fasson Planning area generally includes mainly saw mills and other agro-based industries are mainly concentrated. Though industrial development is not found in Char Fasson Paurashava, some agro-based mills are found major concentration of which is observed in ward no. 4 and 7. In the planning area, highest percentage of lands is devoted for agricultural purpose. From the land use map, it is depicted that agricultural lands are mostly developed in periphery area. However, major concentration is observed in ward no 1, 5, 6 and 9.

Residential structures are mostly developed in core and potential core area. From the land use survey it has been also observed that every ward located within the study area has more or less residential land use and five wards like Ward-01, Ward-02, Ward-05, Ward-07 and Ward-08 have highest concentration of residential lands. There is no public park at the Char Fasson Planning area except the playgrounds of educational institutions.

Char Fasson Paurashava is comparatively planned area than any other Paurashava in southern region. The Paurashava follow grid iron pattern. Almost half of the roads of all wards are pucca and the overall condition is moderate except access roads. All these areas have been well linked up with functional road network but some roads are narrow especially access roads which are required to be more widened. The existing natural features having khals are playing a vital water ways in connecting the area with that Bay of Bengal.

On the whole, it can be said that the existing natural physical structure of the Char Fasson Planning area is being interrupted by the existing built environment that are being taking place over the recent past years. Though development rate is very low, there may have a possibility to encroach water bodies such as khals and the existing fertile land. This is very much detrimental for conserving biodiversity. Further, the existing physical developments are taking agricultural lands as much as possible which will create danger on the food security and also on the economic base of the planning area.

#### **4.2 Socio-Economic**

The overall condition of different available urban utilities/civic services at Char Fasson Paurashava area is not satisfactory. No gas supply facility is available for the households of Char Fasson Paurashava. At present there is no dustbin and waste disposal facility at Char Fasson Paurashava. It appears that wastes are thrown here and there which pollute the area and create environmental problems. The people of this area also suffer for disaster problems such as flood, water logging, cyclone, etc. people also face some pollution problems like water pollution, noise pollution, beach pollution, etc. There is also lack of recreational facility at the Char Fasson Paurashava. The households of Char Fasson Paurashava face some communication problems in their daily life such as narrow road problem, flood erosion problem, road jam problem and lacking of town bus service. However, this aspect needs vital consideration.

Most of the economic activities in Char Fasson area are rudimentary in nature. Poor technology, unskilled labor force, low investment makes such economic activities uncompetitive with other cities and towns. Public investment in Char Fasson area is not enough to generate growth impulses. Public investment in appropriate areas is a must for revitalizing its economy. The local people, particularly those who are rich usually apathetic toward investment. The main reason can be explained in two points: first, the investment is not safe and the second the rich must in big cities where there investments are safe. Lack of availability of funding sources/agencies viz. bank, etc is also acting as hindrance for economic development.

#### **4.3 Environment**

Char Fasson Paurashava is located on the coastal belt, as a result the people of this area face cyclone almost every year. Devastating cyclones hit the area usually accompanied by high-speed winds, sometimes reaching 220 km/hr or more and 5-6m high waves, causing extensive damage to life, property and livestock. It has observed that Cyclone hit Char Fasson Paurashava in different years. But, in 1937, 1985, 2007 and 2009 year the extreme cyclone track is passed over the Char Fasson.

As the area is in coastal region, saline and iron have been contaminated the water. Agricultural production, fisheries and livestock are affected by higher salinity in the dry season.

At present, there is no solid waste management system at Char Fasson Paurashava. Most of the people throw garbage here and there, which causes serious environmental pollution and also some times clogged the existing drainage network.

In preparing the master plan for Char Fasson Paurashava, the above issues have dully been considered and proper steps have been taken to mitigate those effects.

#### **4.4 Transport and Communication**

A regional highway is gone through Char Fasson Purashava which is connected with Burhanuddin, Daulatkhan, Lalmohan and Tazumuddin with district headquarter Bhola. Moreover, among seven upazilas of Bhola district, everyone is connected by water ways. So in case of Bhola district water ways improvement should be given more priority than road network compare to other district in Barisal Division.

There is no public or private bus service available for intra-zonal movement among Char Fasson Paurashava. Intra-zonal movement among the Paurashava area is mostly done through the non-motorized vehicles such as rickshaw, bi-cycle, van, etc. People also use some motorized vehicles such as motorcycle, noohimon, etc. Rickshaw is the most dominant transport for intra zonal movement. Peak Hour traffic has been observed from 8.00 to 12.00 and 16.00 to 20.00 because most of the educational and commercial movement has been accomplished within the time periods.

There is two Bus Stands at Char Fasson Paurashava. Both bus stands are located adjacent to Char Fasson Sadar Road. One is located near bazar more at ward no 4 and other is located at ward no 5 east side of Sadar road. These bus stands have capacity of 12-15 numbers of vehicles. The area is not served by well defined road hierarchy and most of the roads are narrow. At present, the roads of Char Fasson Paurashava have free flow and transport density is low. But it is important to design a planned network with designated width to accommodate the future pressure of traffic.

#### **4.5 Landuse Control**

At the present time, there is no control over land development at Char Fasson Paurashava. The master plan is intended to prove a broad guideline to control the future development and to organize all types of development in a planned manner.

Major aim of the Landuse Policy 2001 was to prevent indiscriminate conversion of agricultural land in to non-agricultural use, because such conversion may be threatened for food security of the

country. But for providing necessary services to the Paurashava agricultural land need to use which should be as small amount as possible. During implementation of Urban Area Plan / Ward Action Plan, necessary control should be imposed according to the following manner.

- High value agriculture land should be preserved only for agriculture purposes.
- Water body should be preserved to maintain the natural drainage system of the area.
- Easy accessibility with the surrounding upazila and regional linkage has to be ensured.
- Rural characteristics of the rural settlement have to be strictly maintained.
- All the municipal services have to be designed covering all the residents of the planning area.
- Land encroachment should be strictly outlawed.
- Agricultural lands can be used for other purposes considering the importance of the use and considering the quality of land in terms of its production.

#### **4.6 Disaster**

Char Fasson Paurashava is located on the coastal belt, as a result the people of this area face cyclone almost every year. Devastating cyclones hit the area usually accompanied by high-speed winds, sometimes reaching 220 km/hr or more and 5-6m high waves, causing extensive damage to life, property and livestock. It has observed that Cyclone hit Char Fasson Paurashava in different years. But, in 1937, 1985, 2007 and 2009 year the extreme cyclone track is passed over the Char Fasson. The cyclone SIDR and Aila were a big hazard for their natural climatic condition. It also damaged many lives, forests, agricultures and infrastructures.

#### **4.7 Laws and Regulations**

The laws and regulations prescribed (mentioned in Chapter 5 section 5.2) are not directly related with the physical development activities and their control. The East Bengal Building Construction Act, 1952 is called the mother regulation to control all type of physical development but no instruction is being included in the Paurashava Ordinance, 2009 regarding EBBC Act, 1952. The Paurashava authority approves the building plan and excavation of tank without any regulatory control.

The regulation prescribed in the Paurashava Ordinance, 2009 on the preparation of master plan is called traditional regulation. In the modern world, the concept of master plan became obsolete. In this project, the so called master plan, as mentioned in the Paurashava and Surrounding Area Ordinance, 2009 considered as a package and the plan included in this package named Structure Plan, Urban Area Plan and Ward Action Plan, though there is no regulation in the country on the preparation and implementation of those plans. However, eligible development authority will be required to exercise proper rules and regulations for controlling the development considering various related issues.

## **Chapter - 5**

# **PAURASHAVA DEVELOPMENT RELATED POLICIES, LAWS AND REGULATIONS**

### **5.1 General**

Planning law must clearly define the extent and content of the rights of the Government and the people. Thus, legislative measures can help to frame policies for best use of land and its policies to control. Law should aim at a clear definition of the responsibilities and functions of various Government departments and its respective powers. For urban development, law has profound implications. It defines the system of urban Government, establishes the system of urban planning and regulation of urban development.

#### **5.1.1 Local Government (Paurashava) Act 2009**

According to the Section 95, Paurashava, and if so required by the prescribed authority, shall draw up a Master Plan for the Municipality which shall, among other matters, provide for:

- A survey for the municipality including its history, statistics, public services and other prescribed particulars
- Development, expansion and improvement of any area within the municipality and
- Restrictions, regulations and prohibitions to be imposed with regard to the development of sites, and the erection and re-erection of buildings within the municipality

#### **5.1.2 Urban Management Policy, 1999**

The adopted policies under the policy statement are:

- Paurashavas shall provide and maintain the following services to their constituents: (i) Water supply, (ii) storm water drainage (iii) solid waste disposal, (iv) public sanitation, (v) roads and traffic control systems, (vi) public markets, (vii) public transport terminals, (viii) recreational parks and reserves, (ix) community centres, (x) street lighting, etc.
- Municipalities shall develop Public Investment Programs (PIP) which will reflect the priority infrastructure needs and appropriate fiscal practices needed to accomplish these.
- The capital budgeting process by municipalities and project selection shall be made transparent.
- Land use plans shall be prepared by Paurashavas in consultations with local communities and shall be periodically updated. Such plan shall form the basis for all property and land development and the assessment of taxes. Each Paurashava and Surrounding Area shall endeavor to appoint a full time qualified Urban Planner to its staff for this purpose, and until such appointment is executed; such services shall be contracted out.
- All external financing extended either directly to Paurashavas by multilateral or bilateral sources or on-lent via the MDF for municipal investments shall be provided on comparable terms.
- Paurashava and Surrounding Area will adopt as early as possible a double entry accounting system on a cash basis. Training and technical assistance shall be provided on a priority basis to facilitate computerization in the transition to double entry accounting.
- Paurashavas shall generate sufficient revenues from their own sources to meet, at a minimum, all of their operating expenses.

- The Government shall review in consultation with municipalities the current intergovernmental revenue transfer system and make appropriate changes to make it transparent, rational, and predictable and to some extent performance based.
- Paurashavas shall endeavor to contract out service provision in whole or in part to private providers in areas such as solid waste disposal, public sanitation, and road maintenance.
- Paurashavas shall conduct periodic public meetings to advise their constituents regarding their activities as well as to engage the public in consultations regarding investment choices, decisions and priorities. As part of this increased transparency.
- Maximizing the participation of women shall be accorded high priority.

### **5.1.3 National Housing Policy, 2008**

The salient features of the housing strategy envisaged in the National Housing Policy are:

- The role of the government in housing will be to supply serviced land at reasonable price and to help create and promote housing financing institution
- Efforts will be made to increase affordability of the disadvantaged and the low income groups through providing credit for income generation
- Improvement and rehabilitation of the existing housing stock will be given priority by the government alongside new housing
- Encroachment on public land and unauthorized constructions will be discouraged
- Facilitate incremental house building and ensure wider application resources
- Conservation of the natural environment and preservation of cultural heritage in new housing projects

In this policy, there are some specifications are illustrated for Urban and Rural Housing. As the urban and rural context in Bangladesh is different, so the strategies and policies of these sectors are also different. Though the context is different but rural area and urban area are economically, socially and environmentally dependent on each other.

### **Rural Housing**

Clause 5.9 of the Housing Policy describes about the rural housing. In the Housing Policy, following measures are suggested to improve rural housing:

- Avoiding unnecessary displacement of rural settlements due to development projects and where unavoidable, makes proper rehabilitation of the households, with full community involvement.
- Encroachment on agricultural land by proliferation of homestead should be discouraged. Efforts should be made for planned densification of rural homesteads. Subject to availability of khas lands, programmes similar to 'Adarsha Gram' programme of the Ministry of land will be undertaken in rural areas.
- The coordinated provision of water supply, sanitation, electricity, roads and other basic infrastructure services to existing and new habitations.
- Providing assistance by way of providing credit, dissemination of appropriate technology and delivery system for promoting housing.
- Initiating schemes for increased employment opportunities and income generation by extending appropriate credits and advice, so that housing affordability is enhanced.
- Establishing suitable institutional structure including strengthening of existing organizations at district and local level, with the responsibility for planning, financing, implementation, supervision and monitoring of rural housing schemes, and with the full involvement of



beneficiaries, NGOs and CBOs, giving special attention to the needs of the poorest segments, specially women and disadvantaged persons.

- Linking the development of housing sites and the up gradation of rural housing with the activities under the Bangladesh Rural Development Board (BRDB) and other programmes for the creation of rural assets and employment.

#### **5.1.4 Population Policy, 2004**

The following strategies will be adopted to slow down the growth of urban population:

- Satellite towns and growth centers should be established with adequate facilities to provide alternative destinations to rural migrants. Roads and communication systems should be linked with the growth centers; along with health, education housing and other welfare services created in those places. Headquarters of important Government and non- Government Organizations, educational institutions and industrial units may also be shifted or relocated to other cities
- Relax rules relating to going abroad of skilled workers and make provision for dual citizenship
- Impart education and skill training to the young men and women to become competent and skillful to handle many new and emerging fields in the cities and towns
- Create skilled manpower for overseas employment

#### **5.1.5 National Land Use Policy, 2001**

Main Components of the Policy

- use as much as required for agriculture purposes and land use cannot be changed with permission of the appropriate authority
- ensure use of land owned by the land lord absentee
- keep limit the process of division of agricultural land into small pieces
- identification of zones for land uses by Paurashavas and other places of Upazilas
- provision of assistance by the Revenue Office of District Administration in preparing zoning maps by the local government organizations
- existence of zoning law in the country; Abide this law to implement the zoning map prepared by the local government organizations
- encouragement to construct multi-storied buildings instead of single storied in the rural and urban areas so as to ensure optimum use land for residential purposes
- identification of the forest land by the Ministry of Forest and Environment
- undertake measures for protection, maintenance and expansion of the existing forest land
- encouragement for development of the social forestry
- keep open the exiting water bodies and those are not to be filled in. Entrust the responsibility of maintaining small ponds by the owners and large water bodies such as river, channels, haor, baor and beel by the community people and the Government. To this effect, these water bodies are to be re-excavated regularly
- use of embankments for controlling flood as roads as far as possible
- planned tree plantation on the embankments
- use ditches and other water bodies for fish production and rearing ducks created during cutting of earth for constructing embankments. Not to dig new land as much as possible during constructing embankments rather re-excavate the existing filled in water bodies
- ensure not to create water-logging by constructing embankments
- no acquisition of land for the purpose of road construction other than/except national highways, regional and district to Upazila roads, Upazila to Upazila connecting roads. Avoid

human settlements and fertile agricultural land to acquire land wherever land acquisition is of utmost need. Construct inter and intra village roads in planned manner

- construct/establish industries in the designated places keeping view on the availability of support services for industrialization
- not to pollute/infect land or environment through discharging waste from the industries and follow strictly to treat industrial waste
- construct service roads along the main roads of the country so as to ensure safe movement of traffic as well as set aside 10 feet to 20 feet of land for plantation trees on the both sides of roads
- discourage construction of small and cottage industries within 10 kilometers of radius if industries are accommodated within the BSCIC industrial area
- protection of social rights of possessing land by the indigenous people living in the different parts of the country following their traditional laws

#### **5.1.6 National Agriculture Policy, 1999**

The following steps will be taken to ensure planned utilization of land for crop production:

- Land zoning programme will be taken up by the Soil Resources Development Institute (SRDI) on a priority basis. Integrated approach of SRDI will be further strengthened for this purpose
- To ensure maximum utilization of land, bottom up planning through people's participation and its implementation will be started from the mouza or village level
- In most areas the same land is suitable for more than one crop. Therefore, farmers will be encouraged to grow more profitable crops as an alternative to only rice-rice cropping pattern
- Fertile agricultural land is going out of cultivation due to its use for non-agricultural purposes such as private construction, house building, brickfield, etc. Appropriate measures will be taken to stop this trend in the light of the Land Policy of the government
- Maximum utilization of land will be ensured through promotion of inter-cropping with the main crops
- Acquisition of land in excess of requirement for non-agricultural purposes will be discouraged
- Programmes will be taken up to motivate the landowners not to keep their land unused without any acceptable reason

#### **5.1.7 Transportation Policy**

At present there is no standard design and national unit cost for construction and maintenance of various roads and bridges and culverts. As a result substantial cost difference has been proposed by the agencies for same type of road / bridges for the same area. Following tasks of a road projects will be adopted:

- The Committee reviewed the design standards for the Union, Upazila, Zila Roads, and concluded that the key design criteria for all roads should be traffic and axle loads, and not the classification of the roads.
- The six design standards agreed by the Committee to form a logical progression in terms of road width and pavement thickness, all based on traffic considerations. They are not directly related to road classification.
- The agreed design standards are to be used by all road agencies. Road agencies will be required to use appropriate standards for roads according to traffic criteria.
- Reconstruction- full pavement reconstruction on an existing embankment
- New road Construction - completely new embankment and road pavement, including bridges, culverts and any necessary slope protection. This is likely to prove a rare category of road project in Bangladesh

- Widening- road widening and upgrading, including full re-construction of the existing pavement
- Strengthening- removing existing road surfacing and providing a new base layer of Base Type-1 and surfacing.

#### **5.1.8 Environment Policy**

Bangladesh National Environment Policy was approved and published in 1992. Key elements of the Policy are –

- Maintain ecological balance and overall physical development progress of the country through protection and development of different sectors. Protection from natural disaster is one of them.
- Identification and regulation all type of activities which pollutes and degrade the environment.
- Ensuring proper Environment Impact Assessment prior to undertaking of industrial and other development projects.
- Ensuring sustainable use of natural resources.

#### **5.1.9 Coastal Zone Policy, 2005**

The following are the broad components of the policy:

##### ***Economic growth***

- Efforts shall be made to enhance annual growth rate to a level required to achieve national goal for poverty reduction and economic growth;
- Available opportunities of the coastal zone will be used through sustainable management to enhance standard of living of coastal communities by investing in different sectors;
- A strategy shall be formulated covering all routes to development taking multidimensional nature of poverty.
- Emphasis will be given on building efficient power, transportation and telecommunication links, particularly with islands;
- Special emphasis will be given to utilize gas-based power, manufacturing and processing industries;
- Settled isolated chars and islands will be brought under 'special rural development programs';
- Necessary measures will be taken to increase the flow of investments in the coastal zone including direct foreign investment (DFI), especially by setting up more export processing zones (EPZ);
- Steps will be taken for medium and small private investments for coastal development.

##### ***Basic needs and opportunities for livelihoods***

To meet basic needs of the coastal people and enhance livelihood opportunities, the Government policy will be as follows:

- Alleviation of poverty through creation of job opportunities and finding options for diversified livelihoods would be the major principles of all economic activities. Economic opportunities based on local resources will be explored to enhance income of the people;
- The intensity of coverage of primary education, health care, sanitation and safe drinking water facilities will be increased;
- Food production will be continued at the self-sufficiency level and of higher production of diversified high-value export goods;
- Private sector and the non-governmental organizations (NGO) will be encouraged to implement activities for the poor people;

- Collateral-free credit under easy terms will be arranged as part of all livelihood enhancement programs and activities;
- No alteration or stoppage of an existing employment opportunity shall be made without creating opportunities for alternative employment;
- Special measures will be taken during the period of disaster;
- *Khas* land will be distributed among the landless and a more transparent process of land settlement will be ensured;
- An effective program for land reclamation will be developed;
- Provide facilitate for the coastal navigation;
- An integrated network of communication including roads and waterways will be developed;
- The law and order situation will be improved by setting up police outposts in remote and far flung areas;
- Free flow of information for the people will be ensured.

### ***Reduction of vulnerabilities***

In order to reduce the vulnerabilities of the coastal poor from disasters like cyclone, drainage congestion, land erosion, drought, etc, the Government policy is as follows:

- Reduction to vulnerability to natural disasters would be an integral aspect of the national strategies for poverty reduction;
- Integration will be made with 'Comprehensive Disaster Management Plan' on aspects concerning the coastal zone;
- Effective measures will be taken to enhance coping capacity of the poor during the period of disaster and to initiate insurance scheme for improving their social security;
- Effective measures will be taken for protection against erosion and for rehabilitation of the victims of erosion;
- Safety measures will be enhanced by combining cyclone shelters, multi-purpose embankments, road system and disaster warning system. It should include special measures for children, women, the disabled and the old;
- Earthquake management will be strengthened and capacity to cope with earthquakes will be enhanced;
- Adequate provision will be made for safety of livestock during disaster and post-disaster period;
- Programs shall be taken to encourage all for tree plantation in a planned manner in the coastal zone. Emphasis will be given to social forestry and other forms of plantations, plant care and maintenance;
- The asset base of the poor, with special focus on women, shall be improved through ownership or access so that their coping capacity improves.

### ***Sustainable management of natural resources***

The Government policy to ensure sustainable management of both biotic and abiotic coastal resources will be as follows:

- Every possible steps shall be taken to secure just share from all international rivers reaching the coastal zone and the Bay of Bengal;
- Suitable measures will be taken for sustainable use of renewable resources and, to that end, limit harvesting, extraction or utilization to the corresponding cycles of their regeneration;

- Sustainable use of coastal resources shall be ensured. Combination of resource use, e.g. agriculture, forestry and fishing including aquaculture is often the major economic activity. Efforts will be given to make this sustainable;
- Optimum utilization of resources will be ensured by taking advantage of the complementarities and trade-offs between competing uses;
- Rigid enforcement of conservation regulations will affect the livelihoods of many people and such conservation efforts will be linked, as far as possible, with alternative opportunities of employment;
- Initiation of plan and its implementation will be ensured by participation of people of all sectors.

#### *Land*

- Planning will be done under land use policy to control unplanned and indiscriminate use of land resources. Strategies for new chars will be developed. Zoning regulations would be formulated and enforced in due course;
- Through its responsible agencies, the Government will proper plan and implement schemes for reclamation of balanced land from the sea and rivers.

#### *Water*

- Adequate upland flow shall be ensured in water channels to preserve the coastal estuary ecosystem threatened by the intrusion of soil salinity from the sea;
- Small water reservoirs shall be built to capture tidal water in order to enhance minor irrigation in coastal areas. Appropriate water management system within the polder utilizing existing infrastructures will be established for freshwater storage and other water utilization;
- Rainwater harvesting and conservation shall be promoted;
- Ponds and tanks will be excavated for conservation of water and local technology for water treatment (such as, pond sand filtering - P.S.F.) will be used for the supply of safe water;
- Step will be taken to ensure sustainable use and management of ground water.

#### *Capture fisheries*

- Comprehensive policies, as dealt in the National Fish Policy, in relation to exploitation, conservation and management of marine fisheries resources will be followed
- Fishers' right will be established on open water bodies for sustainable fisheries management

#### *Aquaculture*

- Environmentally adopted and socially responsive shrimp farming will be encouraged. In this regard, internationally accepted quality control measures will be introduced;
- All opportunities and potentials of aquaculture will be utilized in the coastal zone. Crab culture, pearl culture, sea grass will be encouraged.

#### *Agriculture*

- Programs for intensification of agriculture and crop diversification for improving the economic conditions of both male and female farmers and increasing food security at local and regional level shall be supported;
- Special development programs will be taken-up with a view to increasing the production of crops suitable for the coastal area with attention to maintenance of soil health;
- Use of chemical fertilizers and pesticides will be reduced, while organic manure and integrated pest management will be encouraged;
- Salt-tolerant crop varieties will be developed and extended along with possible measures to resist salinity;

- The scope of irrigation facilities will be explored and / or extended and a comprehensive water management for agriculture will be implemented.

#### *Livestock*

- Grazing land for livestock will be arranged. Facilities for livestock development will be enhanced;
- Facilities for rearing of poultry of different species including the local ones will be enhanced

#### *Energy*

- Assessments shall be made on the prospect of tidal and wave power in coastal areas' as potential energy source;
- An assessment of all types of energy resources (e.g., oil, gas, coal, nuclear minerals, hydropower, biomass fuels, solar, wind and tidal waves) will be undertaken on a regular/continuous basis by the appropriate authorities. Special measures will be undertaken for exploration and appraisal of petroleum resources in the offshore areas without undermining the nature;
- Potentials of area-based renewable sources of energy will be assessed;
- Remote and isolated areas including offshore islands, which are not likely to be brought under the networks of commercial fuels in a foreseeable future, are to be considered as potential sites for implementing renewable energy technologies, in spite of their high capital cost. Solar photovoltaic will be used for cyclone shelters;
- Special projects will be identified, for example power plants in the offshore islands. Plans for the generation of electricity in isolated and remote areas like offshore islands will be prepared separately.

#### ***Equitable distribution***

To ensure right of the neglected and disadvantaged groups, the Government policy is as follows:

- Actions will be designed to reach the poorest and the remote rural areas (including the cyclone prone coastal regions, chars and river erosion affected areas), which are vulnerable to adverse ecological processes and those with high concentrations of socially disadvantaged;
- In order to ensure equitable distribution of national economic benefits, priority will be given to exposed Upazilas and coastal islands;
- In order to ensure equity, the thrust should be on human development of the poor for raising their capability through education, health, nutrition, employment-oriented skill training and social interventions;
- Measures will be adopted that increase access to natural resources for the poor and the disadvantaged (on which they are dependent for their livelihood)

#### ***Empowerment of communities***

Mainstreaming of the coastal people will be done by enhancing their safety and capacity. In this context, Government policy will be as follows:

- Equal participation of all stakeholders shall be ensured and establishing effective co-operation between the government agencies, local government institutions and non-governmental organizations;
- Co-management procedures shall be established that will bring decision-making power to the grass root levels;
- Specific vulnerabilities of the coastal communities shall be addressed: like farmers in the saline zone, marine fishers, salt producers, dry fish processors, people living on forestry resources, ship breaking workers, vulnerable ethnic communities and so forth;

- Vesting on local government institutions, at the union, upazila and district levels, the power and responsibilities for design, formulation and implementation of local level development programs and projects;
- An awareness campaign shall be mounted about the long-term benefits of ICZM, recent initiatives in the coastal zone, and coastal development strategy among the NGOs, private sector, civil society and coastal communities;
- Initiatives will be taken to keep up the cultural heritage of different communities living in the coastal zone.

### ***Women's development and gender equity***

In this respect, the Government policy will be as follows:

- A gender sensitive and participatory approach will be adopted that focuses at the reduction of gender inequalities and that takes into account differences in needs and interests between men and women;
- Efforts will be made to close the gender gap, giving priority to women's education, training and employment and special support for broadening their coping capacity;
- Special attention will be paid towards employment generation for women, the promotion of women entrepreneurs as well as the removal of restrictions on women's employment and economic opportunities;
- During distribution of newly accreted khas lands, special attention will be paid to the allocation of land titles to women;
- Special projects will be implemented exclusively addressed to livelihoods enhancement and empowerment of disadvantaged women;
- Necessary institutional measures including mass awareness and motivation on violence against women will be taken.

### ***Conservation and enhancement of critical ecosystems***

The Government policy will be as follows:

#### ***Conserving the ecosystems***

- Meaningful conservation shall be enforced of critical ecosystems including ECAs, heritage sites and marine reserves;
- Special measures will be taken for conservation and development of the natural environment of the Sundarbans
- The programs for institutional strengthening and capacity building shall be supported along with further development of the regulatory framework for the protection of the environment;
- The role of the Coast Guard will be acknowledged with emphasis and its capacity will be enhanced so that it can be used on behalf of all relevant institutions as a common resource for enforcement of different regulations applicable to the coastal zone;
- For activities that have direct adverse consequences on bio-diversity, steps will be taken to stop those activities and specific mitigation measures will be taken to minimize those effects;
- To protect the environment, all commitments shall be honored as signatory to different international protocols and guidelines in planning and implementation;
- Efforts shall be made to harmonize in the provisions of different existing laws and enact new laws, where required, to protect and preserve the coastal environment and its resources;
- Special measures will be taken for bio-diversity conservation;
- Measures will be taken for hill management including prohibition of hill cutting.

#### *Pollution Control*

- Zoning regulations will be established for location of new industries in consideration of fresh and safe water availability and effluent discharge possibilities;
- All industrial units will be required to install built-in safeguards against pollution within a given timeframe and will help them in obtaining financial support from international bodies to carry out the adjustments. Units failing to comply with the pollution standards will be required to pay “green tax” for cleanup of the environment polluted by them;
- Sewage treatment plants will be set up for the major cities like Chittagong, Khulna and Barisal and gradually in other urban centers;
- Steps will be taken to handle the issue of discharge of bilge water from ships and oil-spill according to international conventions to which Bangladesh is a signatory;
- A review of the desirability of supporting ship breaking as an industry will be done and, in the event of its continuation, environmental standards will be prescribed under which it has to conduct its activities.

#### *Climate Change*

- Existing institutional arrangements for monitoring of climate change in Bangladesh will continue. Steps will be taken to support upgrading of technology and institutional strengthening for enhancing their capacity for generation of better data and more accurate long-term prediction and risk related to climate change
- Implementation of adaptive measures identified in relation to climate change for coastal zone and resources shall be gradually undertaken
- Efforts shall be made to continuously maintain sea-dykes along the coastline as first line of defense against predicted sea-level rise
- An institutional framework for monitoring/detecting sea level rise shall be made and a contingency plans for coping with its impact

#### **5.1.10 Industrial Policy, 2005**

Bangladesh is a developing country, and the present government is striving relentlessly to attain rapid economic development in the country. Despite a lack of resources faced by the Government, development programs in the key sectors have continued. Therefore, the Government in the Ministry of Industries has taken the role of a facilitator. In order to establish economically prospective industries in industrial sub-sectors, there are plans to set up industrial parks and special economic zones so that huge amount of unused and abandoned land can be utilized. All this is aimed at fostering industrialization and economic development and generating employment opportunities in the country. To reduce poverty and generate employment opportunities, more efforts are needed to establish agro-based industries as well as to raise agricultural production. This will ensure the protection and fair price of agricultural products and employment of a huge number of unemployed people. In order to create further employment opportunities beyond the agricultural sector, initiatives should be taken to set up small, medium and large industries across the country. In order to attain this growth in this sector, special importance has been given in the Industrial Policy on agro-based and agro - processing industries and on steps to overcome possible adverse conditions in the export-oriented garment sector. Importance has also been given on considering the SMEs and cottage industries as one of the major driving forces, providing assistance to women entrepreneurs on a priority basis, setting up special economic zones in different parts of the country, improving the quality of industrial products to world standard, marketing of goods at competitive prices, and enhancing productivity in the industrial sector.

#### **5.1.11 Health Policy**

National Health Policy was approved and published by the government in the year 2000. Aim of the Health Policy is:

- To develop a system to ensure easy and availability of health services for the people living in urban and rural areas.



- To ensure optimum quality, acceptance and availability of primary health care including government medical services at the Upazila and Union level.
- To adopt satisfactory measures for ensuring improved maternal and child health at the Union level and install facilities for safe child delivery in each village.
- To improve overall reproductive health resources and services.
- To ensure the presence of full-time doctors, nurses and other officers / staffs, provide and maintain necessary equipment and supplies at each of the Upazila Health Complexes and Union Health and Family Welfare Centres.
- To formulate specific policies for medical colleges and private clinics, and to introduce appropriate laws and regulations for the control and management of such institutions including maintenance of service quality.
- To explore ways to make the family planning program more acceptable, easily available and effective among the extremely poor and low-income communities.
- To arrange special health services for mentally retarded, physical disabled and for elderly population.

#### **5.1.12 National Urban Policy**

The major objectives of national urban policy will aim to:

- Ensure regionally balanced urbanization through diffused development and hierarchically structured urban system.
- Facilitate economic development, employment generation, reduction of inequality and poverty eradication through appropriate regulatory frameworks and infrastructure provisions.
- Ensure optimum utilization of land resources and meet increased demand for housing and urban services through public-private partnerships.
- Protect, preserve and enhance urban environment, especially water bodies.
- Devolve authority at the local urban level and strengthen local governments through appropriate powers, resources and capabilities so that these can take effective responsibility for a wide range of planning, infrastructure provision, service delivery and regulatory functions.
- Involve all sectors of the community, in participatory decision-making and implementation processes.
- Ensure social justice and inclusion by measures designed to increase the security of poor people through their access to varied livelihood opportunities, secure tenure and basic affordable services.
- Take in to account, particular needs of women, men, children, youth, elderly and the disabled in developing policy responses and implementation.
- Assure health, safety and security of all citizens through multifaceted initiatives to reduce crime and violence.
- Protect, preserve and enhance the historical and cultural heritage of cities and enhance their aesthetic beauty.
- Develop and implement urban management strategies and governance arrangements for enhancing complementary roles of urban and rural areas in sustainable development.
- Ensure good governance by enhancing transparency and establishing accountability.

#### **5.1.13 Rural Development Policy**

The projects and programs as mentioned in the Rural Development Policy of Bangladesh are:

(i) Food for Works Program, (ii) G.R Program (Gratuitous Relief Program), (iii) T.R Program (Test Relief Program), (iv) V.G.D Program (Vulnerable Group Development Program), (v) V.G.F Program (Vulnerable Group Feeding Program), (vi) Single-House Single-Farm Program, (vii) Back to home Program, (viii) Food for Education Program, (ix) Rural Occupational Project, (x) Poverty Reduction

Project, (xi) Self-employment Program for Women, (xii) Women Empowerment Program, (xiii) Coordinated Women Development Program, (xiv) Peace Home Program, (xv) Shelter Support Program, (xvi) Educational Allowance Program, (xvii) Aged-allowance Program, (xviii) Micro-credit Program and (xix) Allowances for Widowed, Poor and Husband-renouncement Women Program, etc.

Some of the aims and objectives of the Rural Development Policy is presented here:

- To increase the income and provision of jobs for the Villagers, especially for women and people under low-living standard in the rural areas.
- To confirm sustainable economic and social development through poverty reduction.
- To encourage self-employment opportunities in the rural areas.
- To emphasize for the development of rural wealth according to the equal distribution of economy and national development as prescribed in the Constitution of Bangladesh.
- To give confirmation to the rural people about infrastructural development, equal distribution of wealth and marketing of the agricultural production.
- To produce technologically efficient people about education, technical education and trainings in rural areas.
- Identification of demand and their fulfillment for socio-economic development of rural poor, persons involved with the production, especially small farmers and landless people.
- To reduce distances between towns and villages about services prevail through collective efforts and develop gradually.

#### **5.1.14 Disaster Management and Climate Change Policy**

The issues prescribed under Climate Change Policy are:

- Mitigation, adaptation and technology transfer is a must measure to fight climate change enhanced vulnerabilities of poor.
- The complementarity of current policy regime in relation to adapting to climate change should be analyzed in order to define which aspects of adaptation are already in place. This would not only advance national (also regional and local) development processes, but also would reduce vulnerability of people to climate change.
- A micro-level climate change risk reduction plan should be developed by the communities. The process should initiate local level action ensuring the participation of grassroots people, NGOs, civil societies, academic and research institutes etc.
- A community centered approach should be taken to develop policies which should address development as well. The policy action plan should also promote appropriate technologies such as resilient crop varieties, irrigation schemes, and renewable energy sources, so that they are available and affordable for low-income communities of Bangladesh.
- It's been believed by the economists that climate change is the greatest market failure of the history of mankind. Climate is natural, therefore a common property. For this reason, climate change related economic does not follow the prevailing market mechanism. Therefore, it should be understood that, the rich countries which are polluting should start paying for adaptation for the LDC and also start paying for mitigation within their countries. Bangladesh should make its position clear in favor of this logic in all negotiations and raise its voice.

### **5.2 Laws and Regulations**

#### **5.2.1 Urban Development Control**

The president of Pakistan in the year of 1960 was enacted the Municipal Administration Ordinance, 1960. In the year 1977 through the Paurashava Ordinance, 1977 some of the Municipalities were upgraded as Paurashava and in the year 2009 Paurashava Ordinance is renamed as local government Ordinance 2009. The Paurashava may provide the function as prescribed in the Ordinance but no provision is being outlined to control and manage those functions. The Paurashava may enforce those regulations according to their capacity. The

Ordinance proves that the Paurashava is independent and self regularity body, but due to absence of necessary man power technical support staff and the government initiative in financial matter, the Paurashava is dependent and control by central government.

## **5.2.2 Building Construction rules 1996**

### ***Land use planning Rules***

These are statutory rules to control land use according to planning standard. It is based on land use policies including Local Plans, such as residential density, road standard, provision of infrastructure and services. The relevant Acts (Paurashava Act, 2009, Building Construction Act, 1952 and BNBC, 1993) and Master Plans of the cities are the main legal instruments, which is in force with regard to exercise planning control and standards.

### ***Control of public estates***

Different government agencies have developed some housing, commercial and industrial estates in different urban areas and they have leased them out. Terms and conditions of lease deed reflected control provisions included in them.

### ***Non-compliance of development control by some government and semi-government agencies***

A portion of urban lands of the urban area are owned by different government and Autonomous agencies including universities, colleges. According to Building Construction Act, 1952 (amended in 1996, followed by Paurashava) each public building needs approval from the concerned development agencies. It is observed that most of the agencies are still ignoring the regulations and they construct their buildings within their premises.

### ***Control of private housing estates***

Large numbers of pockets of urban infill and privately owned low lying peripheral lands have been developed by private companies. In some cases small scale real estate development permission is obtained occasionally but deviations from the approved plan are most common practice of the developers.

### ***Control of informal Development***

A number of unregulated or informal settlements are taking place in urban area as urbanization proceeds. Paurashava can hardly control these haphazard development activities. The Slum Up-gradation Projects, Slum Improvement Projects (SIPs), provision of basic needs etc. are taken up at time when the problems had already overtaken the situation.

### ***Density Control***

Density Control is considered as an important development control tool. It includes the number of units, people allowed per parcel of plot size, unit limitation, height of the building etc. In the Government and Semi Government institutions, building permission is hardly obtained and therefore, density control rules and regulations are not in practice. At present, Paurashava follows Building Construction Rule, 1952 (amended in 1996) which restricts the height of Building in respect of adjacent road. Therefore, density control is possible to exercise in practical.

### ***Taxation***

Urban taxation is another effective development control tool. Different types of taxation policies may to change urban land use and urban character. As an example, the industrial estates are encouraged to set up outside the city areas for tax holiday and other ancillary facilities. On the other hand, exemption of tax on urban vacant land encourages growing unauthorized settlements like slums and squatters.

### ***Payment of Betterment fee***

For every town planning scheme for an existing town, some owners of the property will be affected and as such they will have to be paid some amount as compensation. In the same time, some owners will be benefited by the proposed scheme. The share of increase in the value of the properties of such owners to be paid to the Paurashava is known as Betterment fees.

## **5.3 Strength and weaknesses of the Existing Policies**

### ***Paurashava Act 2009***

Although the Paurashava has been given the rights to prepare Master Plan and implement them, prepare development plans and projects for systematic development of Paura- city, building control, roads and streets plans etc. Besides, the replacement of Ordinance amended in 2008 by Paurashava Act 2009 ensures the citizen participation in a new way. But there are some drawbacks or weaknesses in this which are as follows:

- The engineering department has been given the responsibility to implement the Master Plan, but this department is not equipped enough to implement it properly
- To implement the Master Plan/ Land Use Plan, the staff requires professional training, but no one has received any training regarding implementation activities
- Central Government does not exert any pressure to implement the Land use Plan
- Paurashavas do not enjoy real autonomy to solve local problems
- More critical problem is the weak or even non-existent co-ordination amongst development partners

### ***Urban Management Policy***

The Policy statement recognized the decentralization could enhance efficiency of public expenditures by allowing local governments to be more responsive to local needs and preferences. The policy also envisions strengthening the beneficial aspects of urbanization and at the same time effectively dealing with its negative consequences so as to achieve sustainable urbanization, keeping in view the multi-dimensional nature of the urbanization process. On the other hand, the policy principles gave emphasis more on physical aspect of development rather than on social, environmental. Besides, issues on poverty reduction are missing in the policy outlines.

### ***Land Use Policy, 2001***

The National Land Use Policy, 2001 of the Ministry of Land highlights the Need, the importance and modalities of land zoning for integrated planning and management of land resources of the country. It also mentioned the need of formulating a Zoning Law and Village Improvement Act for materializing the identified land zoning area. The National Land Use Policy specially highlights the need for land zoning for the coastal area of Bangladesh. It describes about the need for definite guidelines and raises the possibility of doing coastal land zoning through an inter-ministerial task force. The policy observes that maximum utilization of lands and water resources depends on the effective land use plan. But there is no policy prescription for any specific area as context requires and also the proper methodology, technology to be used, institutional capacity are not designated. Besides, the policy is strong on conservation of khas lands but not clear on distribution of khas land distribution program.

### ***Industrial Policy, 2005***

One of the foremost objectives of the Industrial Policy 2005 is to set up planned industries considering the real domestic demand, prospect of exporting goods abroad, and discouraging unplanned industries in the light of past experience. The policy also encourages the agro-based industries and involvement of Women Entrepreneurs in Industrial sector, equal profit distribution among workers, owners and government. But the interests of small farmers, small business owners, artisans, and workers, are generally not well represented. This limits the benefits of trade

expansion for small businesses, small farmers, artisans, and workers consequently create impacts on the key export industries. These groups are involved in import and export activities of the country indirectly. In addition, no specific mention has been made on protection of coastal environment from industrial pollution.

***Coastal Zone Policy, 2005***

The strong point of Coastal zone policy is that it provides integration among all sectoral policies such as land use, industrial, fisheries etc. It defines specific objectives for coastal development and the jurisdiction and extent of the coastal zone. The main stakeholders in coastal development are identified, along with their role in the development process.

***Agriculture Policy, 1999***

The key point of the National Agriculture Policy in relation to ICZM is its simultaneous recognition of the importance of shrimp farming as foreign exchange earning activity and its environmental consequences. However, the policy does not mention conflicts between farmer and shrimp-gher owners and thus fails to indicate any mitigation measures. Land use zoning may offer instruments to reduce conflicts. Bio-saline agriculture, practiced elsewhere, could be tried in the coastal zone.

***Population Policy, 2004***

It defines the strategy of population declination but no detailing has been given on the instruments that are required to reduce the population growth. Also, the responsible stakeholders that are directly and indirectly linked to this sector are not identified. A general policy prescription is given without specific group identification.

***National Housing Policy, 2008***

The policy provides prescription for urban and rural area individually considering the context. Though one of the major objectives of the Housing Policy was to ensure housing for all with particular emphasis on the disadvantaged, destitute, the shelter less poor and the low and middle-income groups of people, yet very little efforts have been taken on the part of the government in providing housing loans to the low-income strata of the population. Nationalized commercial banks introduced housing loans also limited for the high income group. There is virtually no credit financial mechanism for housing of low-income people in urban areas. Besides, there is no specification for private developers. No direction is given for future housing demand and supply.

## **Chapter - 6**

### **PROJECTION OF FUTURE GROWTH BY 2031**

#### **6.1 Introduction**

Population growth rates in developing countries are much more than of the developed countries of the world. Moreover, migration to urban areas in the developing countries has been increasing over the years. Due to increased urbanization trend in the coming years, the cities in the developing country will face housing and settlement problems, infrastructural deficiencies for increased number of populations, slum and squatter settlements, environmental degradation, etc. In practical, it is difficult to attain the actual number of population but more accuracy in population projection will encourage the future investment as projection shows the population demand. It is assumed that Char Fasson Paurashava, as a Paurashava will face such influx of job seekers in the coming days. As such, besides natural population growth immigrants will increase the population significantly in the coming decades.

#### **6.2 Projection of Population**

According to BBS, 2011 total population is 39190. In order to get an idea about the population growth rate of Char Fasson Planning area, the urban population of Char Fasson Paurashava of 2001 (31525 population) has been compared to population data of 2011 (39190 population).

##### **Basic Assumptions**

- The characteristics of the more recent periods of development for the local are expected to continue into the future
- The existing density of population, major activities of Paurashava i.e., Trade, Commerce and Service and higher sex ratio reveals the flourishing economic development of the Paurashava in recent years

##### **Methods Used**

Population projection has been conducted on the basis of following determined methods and techniques:

- The base year for such above mentioned projection is 2011 as per available census data
- Future population is estimated for the future year 2016, 2021, 2026 and 2031 considering 20 year planning period
- Finally, Exponential Population Projection is used to conduct the Population Projection

##### **Linear Projection**

Linear population growth is the equal growth in an equal time period without any aspects such as food or disease to change it.

The key element missing from the linear growth model is compound rate. Put simply, compound rate means that the rate applies not only to the starting sum but also to the previously accumulated rate, for each successive period in which it is applied. Population growth is the increase in population in a particular area over time. Population growth is measured by a comparison of birth rate, death rate and the net rate of migration. Based on the Basic assumption of population projection, Exponential Projection method is more appropriate and justified method rather than Linear Projection method.

## Exponential Projection

Exponential population growth is the growth of the population based on the cumulative things in the environment affecting the population of the area. With exponential growth the birth rate alone controls how fast (or slow) the population grows.

### Assumptions

- Population is assumed to grow at a geometric rate; i.e., with each unit of time
- the absolute addition of population continues to get larger and larger
- Exponential growth can be affected by modern medicine, quality and quantity of food and the overall standard of living for a species
- If humans continue to reproduce at the current rate, Earth's capacity for the species could be reached, or possibly exceeded
- Projecting areas will experience faster growth

By using exponential formula, it has observed that the growth rate of Char Fasson is 2.20%, detail calculation is placed here,

$$\begin{aligned} P_n &= \text{Population of Target year (2011)} = 39190 \\ P_o &= \text{Population of Base year (2001)} = 31525 \\ n &= \text{Target year (10)} \\ r &= \text{Annual Growth Rate} \end{aligned}$$

Calculation using Exponential formula is given bellow,

$$\begin{aligned} P_n &= P_o (1+r)^n \\ 39190 &= 31525 (1+r)^{10} \\ r &= 0.0220 \end{aligned}$$

Table 6.1 depicts the projected population during 2016 – 2031 respectively. It is to be mentioned here that the exponential growth formula has been taken into considered in projecting the population of Char Fasson Paurashava. According to the population projection, there will be 43695 populations in 2016, 48717 populations in 2021 and 60561 populations in 2031. This population projection is the basis for all estimates needed for proposing different utilities, services and facilities in preparing the plan of Char Fasson Paurashava.

**Table 6.1: Projected Population during the Year 2016-2031**

Ward No.	Base Year Population 2011	Projected Population at			
		2016	2021	2026	2031
1	4152	4629	5161	5755	6416
2	3180	3546	3953	4407	4914
3	3548	3956	4411	4918	5483
4	4632	5164	5758	6420	7158
5	6210	6924	7720	8607	9596
6	4184	4665	5201	5799	6466
7	2920	3256	3630	4047	4512
8	4464	4977	5549	6187	6898
9	5900	6578	7334	8177	9117
Total	39190	43695	48717	54317	60561

Source: Consultants Estimation from BBS 2011

### 6.3 Identification of Future Economic Opportunities

The city of Char Fasson must thrive on its own potential natural resources. Agro based and wood based industries can be developed. Char Fasson planning area has the facilities of both the road and water transport network. These networks can be developed. This will not only improve the accessibility of the area, but also will improve the business potentiality of the area. Economically active labor forces are not being properly used in production sector. This labor force can be utilized. For example, women labor force can be utilized to develop home based industries such as handicrafts, cloth stitch, poultry firm, etc.

More than 48% of the total lands of Char Fasson Paurashava are devoted for agricultural purposes. So emphasize have to be given on the scientific procedure of agricultural production and these productions may be used as input of agro-based industries.

### 6.4 Projection of Land Uses

Future landuse of Char Fasson Paurashava has been calculated on the basis of projected population. After population projection, it has been observed that in the year of 2031, resident population will be around 60561. In some cases, landuse projection may vary considering landuse characteristics of the area.

At present, the landuse of Char Fasson Paurashava is not appropriate and has not developed following any standard. Therefore, this master plan has addressed the issue and efforts have been done to formulize required standards for various facilities that should be strictly followed in preparing an ideal master plan. The following table shows the standards provided by PMO office for calculating future demand of various types of land uses.

**Table 6.2: Future Projection and Projected Land Requirement for the Year of 2031 as per recommended standard**

Types of Land Uses	Recommended Standard Provision unit)	Existing (acre)	Future Land requirement (acre)				Surplus (-) or Deficit(+)	Proposed
			Year 2016	Year 2021	Year 2026	Year 2031		
Residential		759.26	436.95	487.17	543.17	605.61	-153.65	1353.91
General residential	100 persons/1 acre							
Real Estate - Public/Private	200 population/ 1 acre							
Roads		75.14				45.51		395
Paurashava primary roads	150 - 100 feet							
Paurashava secondary roads	100 - 60 feet							
Paurashava local roads	40 - 20 feet							
Education		29.93	67.43	73.46	82.18	92.67	62.7432	79.76
Nursery	0.5 acre/10,000 population		2.18	2.44	2.72	3.03		
Primary School/ kindergarten	2.00 acres/5000 population		17.48	19.49	21.73	24.22		
Secondary/High School	5.00 acres /20,000 population		10.92	12.18	13.58	15.14		
College	10.00 acres/20,000 population		21.85	24.36	27.16	30.28		
Vocational Training Centre	5 - 10 acres / Upazila		5.00	5.00	5.00	5.00		
Other	5.00 acres / 20,000 population		10.00	10.00	12.00	15.00		
Open Space		1.4	93.94	104.74	116.78	130.21	128.80615	92.03
Play field/ground	3.00 acres/20,000 population		6.55	7.31	8.15	9.08		



**Char Fasson Paurashava Master Plan: 2011-2031  
Structure Plan**

Types of Land Uses	Recommended Standard Provision unit)	Existing (acre)	Future Land requirement (acre)				Surplus (-) or Deficit(+)	Proposed
			Year 2016	Year 2021	Year 2026	Year 2031		
Park	1.00 acre /1000 population		43.70	48.72	54.32	60.56		
Neighborhood park	1.00 acre /1000 population		43.70	48.72	54.32	60.56		
Recreational		3.2	6.09	6.22	6.36	6.52	3.32	2.3
Stadium/sports complex	5 - 10 acres/Upazila HQ		5.00	5.00	5.00	5.00		
Cinema/ Theatre	1.0 acre /20,000 population		1.09	1.22	1.36	1.52		
Health		2.55	18.74	19.74	25.86	27.11	24.5622	19.82
Upazila health complex/ hospital	10 -20 acres/Upazila HQ		10.00	10.00	15.00	15.00		
Health centre/Maternity clinic	1.00 acre/ 5,000 population		8.74	9.74	10.86	12.11		
Community Facilities		7.54	8.96	12.47	17.16	21.02	13.48	25.18
Mosque/Church/Temple	0.5 acre /20,000 population		0.55	0.61	0.68	0.76		
Eidgah/	1.0 acre/20,000 population		1.09	2.00	3.00	4.00		
Graveyard	1.00 acre /20,000 population		1.09	2.00	3.00	5.00		
Community centre	1.00 acre /20,000 population		1.09	2.25	3.50	4.00		
Police Station	3 - 5 acres/Upazila HQ		3.00	3.00	3.00	3.00		
Police Box/outpost	0.5 acre/ per box		0.50	0.50	0.50	0.50		
Fire Station	1.00 acre/ 20,000 population		1.09	1.50	2.80	3.00		
Post office	0.5 acre /20,000 population		0.55	0.61	0.68	0.76		
Commerce and Shopping		32.54	49.62	57.12	62.68	71.06	38.5161	62.108
Wholesale market	1.00 acres/ 10000 population		4.37	4.87	5.43	6.06		
Retail sale market + New City Center	1.00 acres/ 1000 population		40.00	45.00	50.00	55.00		
Corner shops	0.25 acre/per corner shop		0.25	0.25	0.25	1.00		
Neighborhood market	1.00 acre/per neighborhood market		3.00	5.00	5.00	7.00		
Cattle Market			0.00	0.00	0.00	0.00		
Slaughter House			0.00	0.00	0.00	0.00		
Super Market	1.50 - 2.50 acres/per super market		2.00	2.00	2.00	2.00		
Industry		1.13	40.00	45.00	50.00	60.56	59.431	71.14
Cottage/agro-based	1.00 acres /1000 population		40.00	45.00	50.00	60.56		
Transportation		0.62	6.28	7.40	8.57	13.54	12.922075	23.53
Bus terminal	1 acre /20,000 population		2.18	2.44	2.72	3.03		
Truck terminal	0.50 acre /20,000 population		1.09	1.22	1.36	1.51		
Launch/steamer terminal	1.00 acre /20,000 population		0.00	0.00	0.00	0.00		
Railway station	4.00 acre / per Station		0.00	0.00	0.00	0.00		
Baby taxi/tempo stand	0.25 acre /one baby taxi/tempo stand		1.00	1.25	1.50	3.00		
Rickshaw/van stand	0.25 acre / stand		1.00	1.25	1.50	3.00		

Types of Land Uses	Recommended Standard Provision unit)	Existing (acre)	Future Land requirement (acre)				Surplus (-) or Deficit(+)	Proposed
			Year 2016	Year 2021	Year 2026	Year 2031		
Passenger Shed	0.25 acre / stand		1.00	1.25	1.50	3.00		
Administration		18.72	28.00	28.00	28.00	28.00	9.28	29.71
Upazila complex	15.00 acres		15.00	15.00	15.00	15.00		
Paurashava office	3 - 5 acres		3.00	3.00	3.00	3.00		
Jail/Sub-Jail	10 acres/Upazila HQ		10.00	10.00	10.00	10.00		
Urban Deferred	5-10% of total Land						500	601

Source: Consultants Estimation

## 6.4 Housing

Housing areas in the Paurashava is the composition of an admixer of housing types. Mixed residential, poor dominated rural houses and semi-urban homesteads are found. Most housing areas have been developed in a spontaneous fashion. In the rural part of the Paurashava, with its rural-agricultural character, has a different housing type. The dwellings, comprising homesteads, encompass larger areas having low density. Highest gross population density in the Paurashava is only 15 persons per acre. Residential buildings in the Paurashava are dominated by katcha structure. No building is found approved from Paurashava. However, owners of the buildings have been found violated the setback rule by the construction. Except labour charge there is very little variation in building construction cost between Dhaka and Char Fasson Paurashava .

Problems relating to the housing are mostly concerned with the poor community. Due to their low level of income a large number of poor are squatting on public land. They are not only deprived of minimum housing but also from the personal security that endanger their health and working efficiency. Regular income can solve most of their housing problems. Apart from dwelling, pure water and transportation are real problems for the inhabitants. Utility services are highly inadequate. Drainage is major problem in rural part of the Paurashava. The Paurashava cannot solve the problems due to scarcity of fund.

### Basis of housing projection

Future housing projection and demand have been estimated based on following assumptions:

- Most of the households are in permanent residence but new house or home will be required with the increasing of generation.
- Demand of housing is estimated considering the income-group and number of rental households who willing to buy a house.
- Non-permanent structures will not exist in future.
- Considering rapid growth of population, exponential population projection method is being used i.e.  $P_n = P_o (1+r)^n$

### Housing demand analysis

The provision of adequate housing in urban areas is necessary to attract and retain qualified and diverse labour force. Appropriate housing also plays an important role in contributing to residents' financial security, amenity and quality of life. The identification and analysis of housing demand assists Paurashava s ensuring that there is sufficient land for new housing and provides direction

as to the types of housing that are likely to be needed in the future. Housing demand analysis can also be used as the basis for developing appropriate policies relating to housing mix, density and community form. Housing demand projections is an essential component to determine the associated land area required to accommodate future residents. This projection is also necessary to address national policies related to the housing provision.

The method for forecasting household number or analysis of housing demand is the aggregate method. The formula used for this projection is –

$$H = P/S$$

Where, H = Number of households

P = Forecasted population

S = Calculated average household size

At first, Ward-wise existing number of population and dwelling units in the year 2011 have been observed. Using these data, number of households has been projected for the years 2016, 2021, 2026 and 2031. This estimation will assist to estimate the need of dwelling units for future years.

**Table-6.3: Projected number of households**

Ward No.	Average household size (2011)	Number of Households			
		2016	2021	2026	2031
1	4.78	484	540	602	672
2	5.11	347	387	432	482
3	4.64	426	475	530	592
4	4.77	542	605	675	753
5	4.85	714	796	888	991
6	4.60	508	566	632	704
7	4.56	357	398	444	496
8	5.02	496	554	618	689
9	4.80	686	765	854	952
Total	4.79	4560	5087	5674	6330

Source: Estimated by the Consultant.

## Chapter - 7 LANDUSE DEVELOPMENT STRATEGIES

### 7.1 Strategies for Optimum use of Urban Land Resources

Char Fasson Paurashava is peri-urban area with urban infrastructures and valuable agricultural lands, water resources. Therefore, in identifying the strategies or possible techniques for optimum use of Urban Land Resources, it is required to understand the urban land characteristics. According to town Improvement Act 1953 it is required to identify the strategies for optimum use of urban land resources as there exist competition amongst agriculture, urbanization and industrial development.

#### 7.1.1 Land use Zoning

Land use Zoning is a planning tool as it permits the government to select which type of land use should be allowed. The term differs from the 'general plan' that Zoning plan regulates the private developments and general plan controls both public and private developers. Zoning plan is integral part of general plan.

Total area of Char Fasson Paurashava is segregated under some broad classes that will basically guide future growth with wide aspects. Definitions of the broad classes are given bellow for conceptualizing focus of the future magnitude as well as illustration of the policies and strategies.

- A. Agriculture
- B. Core Area
- C. Peripheral Area
- D. New Urban Area
- E. Fringe Area
- F. Major Circulation Network
- G. Water Body

**Table 7.1: Broad Landuse Zones**

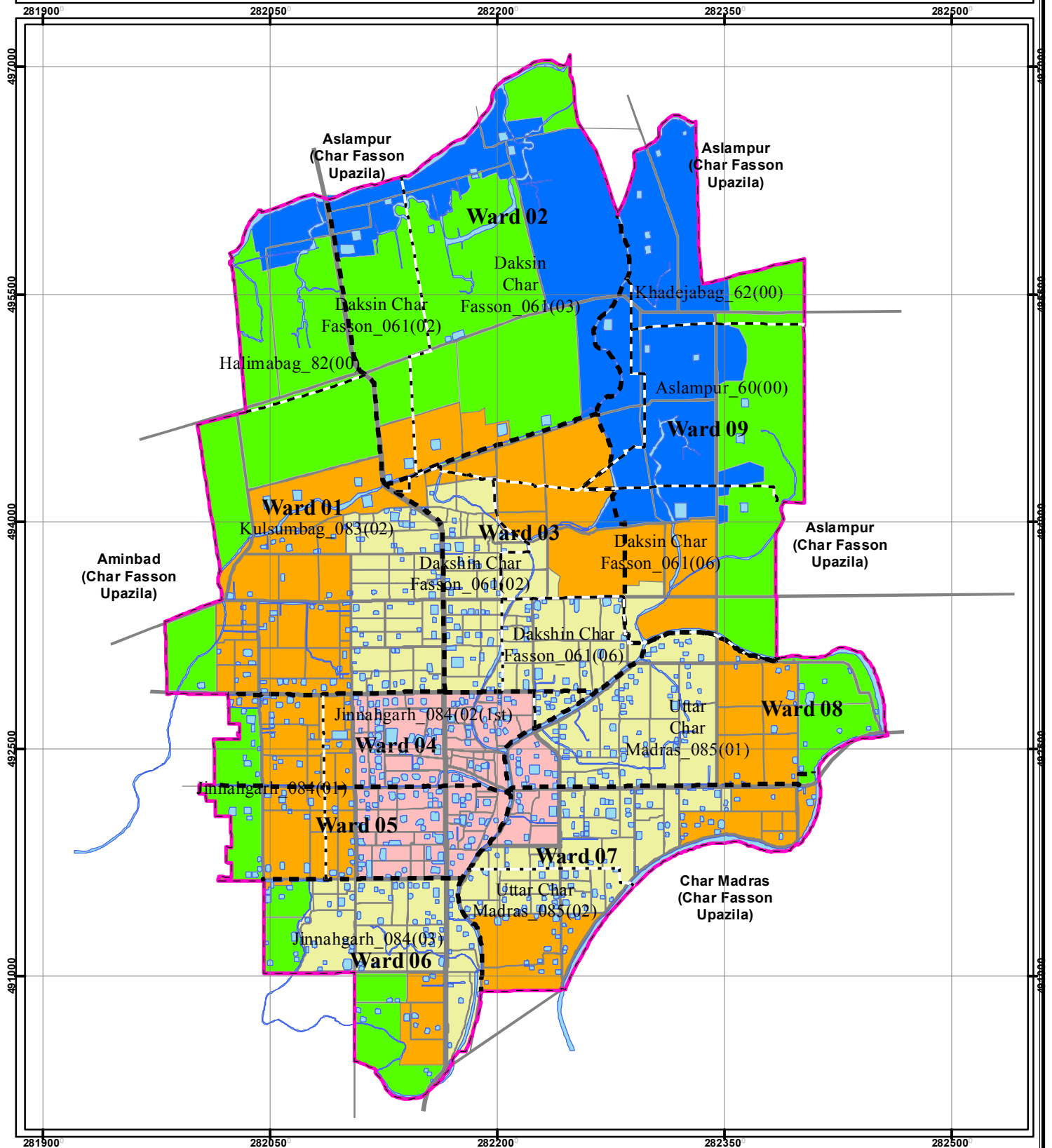
Zoning	Description of Zones	Area (acre)	%
Core Area	This area is also known as built-up area. This is defined as the area which has the highest concentration of services; it also has the highest population concentration and density. It will absorb most population growth during the Land use Plan (2011-2021) period.	256.67	5.20
Fringe Area	This zone is developing areas which will take further decades to reach the population densities of the urban core area. Low initial densities in these areas do not justify supply of a full range of services as they will initially be underused. However, it is essential that planning and reservation of rights of way, at least for primary networks, be undertaken soon to enable provision when justified by increased density levels and allowed by resources.	711.84	14.41
New Urban Area	This zone will be the required additional area for future planned urban development as per population projection. New facilities and services like road, drains, footpath, waste transfer station and other civic services will be provided. This area is proposed to grow within 2031.	1014.33	20.54

Zoning	Description of Zones	Area (acre)	%
Peripheral Area	This is the zone where a slow trend of urbanization is continuing in unplanned manner. The area identified in the Structure Plan as the likely choice for new urban development beyond the core area. Ideally, it might be reasonable to provide primary infrastructure networks in this area to foster development and encouraged to enable a more rapid urbanization in a planned way	906.47	18.35
Major Circulation Network	Major circulation contains major road network and railways linkage with regional and national settings.	362.89	7.35
Water body	Water body containing an area equals to or more than 0.25 acres excluding those of khal, irrigation canal and river will be treated as this category.	340.05	6.89
Agriculture	Agricultural land (also <i>agricultural area</i> ) denotes the land suitable for agricultural production, both crops and livestock. It is one of the main resources in agriculture. The land under annual crops, such as cereals, other technical crops, potatoes, vegetables, and melons; also includes land left temporarily fallow; land under permanent crops (e.g., fruit plantations); areas for natural grasses and grazing of livestock.	1346.34	27.26
<b>Total</b>		<b>4938.67</b>	<b>100</b>

Source: Consultants Estimation

**Map 7.1** shows the structure plan of Char Fasson Paurashava.

Map 7.1: Structure Plan of Char Fasson Paurashava



## Legend

### Admin Boundary

- - - - - Mouza Boundary
- Paurashava Boundary
- - - - - Sheet Boundary
- - - - - Ward Boundary

### Structure PlanType

- Agriculture
- Core Area
- Fringe Area
- Major Circulation
- New Urban Area
- Peripheral Area
- Waterbody

0 250 500 1,000 Meters



Local Government Engineering Department (LGED)  
Government of the People's Republic of Bangladesh  
Ministry of Local Government,  
Rural Development and Cooperatives

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### **7.1.2 Land Acquisition and Requisition**

Land acquisition is a process in which a public agency or non-profit land conservation organization purchase all the ownership rights vested to the land from a willing seller. In every case, land acquisition must mean the transfer of ownership. For implementation of any urban development program, availability of land and its control are necessary not only for future growth but also for a large number of public uses. In Bangladesh, Land Acquisition Act, 1894 is one of the most important legal tools. But as the law failed to meet the emergency needs for requisition of lands, the Acquisition and (emergency) Requisition of Immovable Property Ordinance, 1982 has been come in forth.

### **7.1.3 Policy Formulation**

Apart from this the recommendations for Road networks can be adopted from the recommendation from national relevant policies. This will direct the future land use pattern.

#### **7.1.3A Planned Development of undeveloped areas**

##### ***Land Readjustment***

It is a community building project of resident or for residents where: Land for public facilities is contributed fairly from land owners and lease holders. Where part of development benefits are provided by land owners to an implementing body to finance project cost, not in cash but in the form of reverse land.

##### ***Guided Land Development***

It is a land management technique for accelerating the provision of serviced land through partnership between public sector and local communities. Its main objectives were to ensure;

1. fair return on investment to the private owner/developer;
2. a relatively large proportion of serviced sites for allotment to low income families; and at the same time,
3. recover at least part of offsite infrastructure cost for the public agency.

##### ***Site and Service***

This sort of design provides the low-income people or target group with a plot and basic infrastructure. The beneficiaries either buy or lease the allocated land. Often they are provided with loan for the construction of houses.

#### **7.1.3B Redevelopment of developed areas**

##### ***Land Sharing***

The principle behind this has been that the land is shared equitably between the land owner and the tenants (quasi). The land owner develops the land in such a manner that the original inhabitants in that area are given shelter in the very same area, lands for public facilities is made available to the planning agency and the remaining area is developed and sold freely in the market.

##### ***Slum Improvement***

It provides land or housing to the urban poor near their work place. The scheme is also applicable to land reserved for public purposes on the condition that land on reduced scale is made available for the reserved purpose.

### **7.1.4 Different Fiscal measures**

##### ***Property Tax***

Property tax has been the principal tax related to land and buildings. This tax according to provisions of Local Government (Paurashava) Act, 2009 is levied on the annual ratable value which is to be determined on the basis of area of lands or buildings.

### ***Betterment Levy***

The policy measures which can achieve optimum use of urban land use in practice still remain to be sharpened and coordinated. The measures can be classified as a) direct government investment b) legal and regulatory; and c) fiscal. Examples of these are:

- 1) Direct government investment in land development for provision of infrastructure, housing or overall town development through large scale compulsory land acquisition or other land development scheme
- 2) Statutory provisions for compulsory acquisition of land at less than market price, regulations regarding land use zoning, development control and building codes for health and safety
- 3) Fiscal measures in the form of appropriate taxation that can help achieve the land policy

## **7.2 Plans for New Area Development**

In Char Fasson Paurashava, 603.10 acres land will be developed as a new urban area. The policy regarding to the new area development is given in the table 7.2.

Table 7.2 Policy for new area development

Policy	Justification	Means of Implementation	Implementing Agency
<u>Policy 7.2.1: Initiative for New Area Development.</u>	New areas with their growing stages offer excellent opportunity for planned development by means of land subdivision and infrastructure development.	Land acquisition should be done through the initiative of Paurashava Authority, then land preparation, land subdivision, earthwork will be furnished. New facilities and services like road, drains, footpath, waste transfer station and other civic services will be provided by involving the concerned agencies. Involvement of public sector along with private sector and NGO's or PPP (Public Private Partnership) may be an innovative concept for financing in this respect.	- Char Fasson Paurashava - LGED - DPHE - PDB - REB - NGOs

## **7.3 Areas for Conservation and Protection**

To ensure livable environment in the planning area, different areas are conserved in various forms, namely agricultural land, low land, pond and natural drainage, green belt, historic and heritage areas. Details are given in the table 7.3.

Table 7.3: Areas for conservation and protection

Policies for Conservation and protection	Means of Implementation	Implementing Agency
Policy 7.3.1: Protecting Productive Agricultural land: The high value agricultural land should be protected from conversion into inefficient and unproductive urban land. These areas will be conserved and promoted as areas of high	The EIA Guideline of DOE emphasized on the evidence of productive agricultural land for any development project. Therefore, it will be wise to consider more economical use of land to avoid fertile lands. The town expansion and land	- Char Fasson paurashava - DOE - Department of Agricultural Extension



**Char Fasson Paurashava Master Plan: 2011-2031**  
**Structure Plan**

Policies for Conservation and protection	Means of Implementation	Implementing Agency
intensity food production in order to ensure urban food security in close proximity to the town and improve the income level within agricultural sector of the Paurashava's economy.	acquisition should be based on the growth of population. According to the population projection for the year 2031, the present residential will grow with increasing density. So a large share of agricultural land can be spared at least for the time being	
Policy 7.3.2: Protecting the Natural Landscape The ponds, lakes, canals, river, beels must be protected as water body from encroachment and conversion into other use. The permission for filling up of these ponds should not be given without any special case. These water bodies should be protected for the purpose of using them as retention pond and drainage channel.	A total of 411.52 acre land is declared as water body in the Master Plan. As per guideline of Wetland Conservation Act 200. This are will conserved as the water body.	<ul style="list-style-type: none"> <li>- Char Fasson Paurashava</li> <li>- LGED</li> <li>- Bangladesh Water Development Board.</li> </ul>

## Chapter - 8

# STRATEGIES AND POLICIES FOR SECTORAL DEVELOPMENT OF THE PAURASHAVA

### 8.1 Socio- Economic Sectors

From the population projection it has been observed that about 21,371 additional population has to be accommodated in the existing planning area during the plan period. Density of projected population is 12.26 persons per acre.

#### 8.1.1 Population

##### ***Policy-01: Density Control***

**Justification:** Char Fasson Paurashava is remote southern area. Its density is medium with respect to other Paurashava of southern region context about is 1929 person /sq.km. It is required to control the density of Paurashava through effective measures of planning.

**Promotion:** To make a successful implication of this policy, following strategies should be undertaken:

- Effective Land Use Plan for 2031 following standards and potentiality of land use under Urban Area Plan

**Implementation Agency:** Paurashava.

##### ***Policy-02: Densification of Residential areas through people's participation***

**Justification:** Densification of population within the Paurashava area through zoning. Land price is comparatively high in central part of the Paurashava. Housing category need to be decentralized through effective measures of planning.

To make a successful implication of this policy, following strategies should be taken:

- Core area should be preserve for high income group through high land price. Core area comparatively highly dense area and vertical expansion is proposed for this area.
- Periphery portion where land price comparatively low can be declared for low income group.

**Implementation Agency:** Paurashava, Ministry of Planning

##### ***Policy03: Creation of trained grassroots level family planning workers for motivational works***

**Justification:** Grassroots workers can give door-to-door motivational services to the local people.

**Implementation Agency:** Ministry of health and family planning, Ministry of Mass Education

#### 8.1.2 Economic Development and Employment Generation

Char Fasson Upazila is dependent on Agriculture and Small Business through direct or indirect involvement. Cyclone, water logging and subsequently salinity problem is common in Char Fasson. Emphasis is required for accelerating the economic development trend by restoring the economic base of the Paurashava.

***Policy 01: Promote Agro based Industries in the Growth Centers or Rural Areas***

**Justification:** Growth centers are to become economic hub of their rural settlements. Provision of agro based industries will provide ready market of agricultural products of the rural community.

**Implementation Agency:** Ministry of Agriculture and Ministry of industry.

***Policy 02: Light Industries need to be developed to flourish the industrial sector development<sup>1</sup>***

**Justification:** To accelerate the economic development of Char Fasson Paurashava in long run, it is required encourage the industrial establishment within Paurashava area.

To control the haphazard industrial development some measures will be undertaken:

- Follow the category of industries as categorized by DOE (Green Category) and Bangladesh National Building Code (low and medium category hazards)
- Follow Bangladesh National Building Code, 1993 and Building Construction Regulation, 1952 (amendment in 1996) for providing Road, setback before construction of any industrial structures
- Following the Coastal Zone Management Policy, 2005 all industrial units will be required to install built-in safeguards against pollution within a given time-frame. Units failing to comply with the pollution standards will be required to pay “green tax” for cleanup of the environment polluted by them

**Implementation Agency:** DOE, BSCIC

***Policy 03: Promotion of Rural Growth centers as trading hub of the rural community***

**Justification:** If national Business can be encouraged to locate in promoting Paurashava, they will provide not only earning capacity for their locally recruited employees but the opportunity for services to be provide to support the business. The Paurashava will assist central government in promoting Paurashava as potential location for inward investment.

**Implementation Agency:** Paurashava, DOE, BSCIC.

***Policy 04: Support SME for creation of jobs and economic upliftment***

**Justification:** Short and medium size enterprises are essential for the promotion of economic activities. The SME sector will support the large investment in many ways which help the process of their development.

**Implementation Agency:** Ministry of Industry, Ministry of commerce, Private Sector initiative.

***Policy 05: Employment Generation through development of potential sectors***

**Justification:** To sustain economic activity of Paurashava people for longer period. The economic activity of existing Char Fasson Paurashava is oriented with mainly Agriculture, Fishing and Waterway Transport Sector in some extent. Proper planning and co-ordination among these sectors and future potential sectors it would be possible to engage active labor force.

Following measures will be encouraged to implement this policy implication:

- Industrial Zone declaration in Land Use Zone (mainly light industries)

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<sup>1</sup> The policy has been formulated in light of National Industrial Policy, 1999 (Recommended Specially for Coastal region)

- Infrastructure development to flourish fishing industry (Market, Ice Factory, Storage facility, electricity supply etc.)
- Involvement of active labor force and community participation in different management activities of Paurashava such as solid waste management in transferring the wastes from Solid-waste transfer sites, road maintenance, public sanitation

**Implementation Agency:** Paurashava, DOA, Settlement Office (Land Office).

***Policy 06: Declared new industrial zone***

**Reason:** For economic improvement it is expected to increase industrial activities. At present only 1.13 acres land is devoted for industrial purpose which is very low. At least 10 acres of land is required for per Paurashava. But in case of Char Fasson, around 34.81 acres of land is given for industry.

**Implementation Agency:** Paurashava, BSCIC / Private Sector

**8.1.3 Housing and Slum Improvement**

Paurashava, NHA and other public agencies can pursue the following policies to develop the housing needs and planned development for housing units. But there is no local office of the NHA to execute housing program at upazila level. Paurashava can facilitate housing areas with site and services in designated housing zones.

***Policy-01: Making provision of affordable housing for the low income people***

**Justification:** Paurashava has to think about the housing facilities for the low income people. Private sector will be operated for profit earning, the low income people will not access to these scheme. Thus to reduce unplanned development, the development authority may take initiative for low income people. Also by providing services the general people can be encouraged to build their own houses.

**Implementation Agency:** Paurashava. NHA

***Policy02: Planning interventions in the spontaneously developed areas.***

**Justification:** Most of the housing areas in Bangladesh were developed within any planning intervention. Planning intervention must be undertaken for the improvement of residential and other areas. Authority must make some necessary intervention in these areas to provide basic services.

Following controlling measures will be considered in providing housing areas in Char Fasson Paurashava:

- Follow Private Residential Land Development Regulation, 2004 in Housing Development as mentioned in Land Use Plan under Urban Area Plan Section
- Conservation of the natural environment and preservation of cultural heritage in new housing projects
- Housing Schemes<sup>2</sup> will be proposed following different land development instruments such as:
  - Redevelopment schemes
  - Site and Service schemes
  - Guided Land Development schemes
  - Land Sharing schemes

**Implementation Agency:** Paurashava, NHA.

***Policy03: Continuous monitoring of land and housing market***

**Justification:** The authority should monitor the principle aspects of land and housing market through data base. The Paurashava and land registry office can maintain data base and can undertake studies from time to time using GIS data base.

**Implementation Agency:** The Paurashava and land Registry office

**8.1.4 Social amenities and Community Facilities**

All social and community facilities like health, education, religious, community centre and other facilities are included in this category. In terms of number and size of facilities the allocation land with approximate location can be determined by analyzing the pattern of existing facilities and the calculation of the requirements in future. In addition some policies recommendations were made on health, education and other facilities.

***Policy-01: Social Amenities and community facility will be provided as per requirement of existing and forecasted population.***

**Justification:** To enhance access to land with secure tenure and to promote a social lively environment for an increasing population. Both Public and private sector investments are encouraged

Provision of standards, rules and regulations are followed in allocating Educational Religious, Community Centre and Other components in Land Use Plan of Urban Area Plan.

**Implementation Agency:** Paurashava, NGO, CBO

**8.1.5 Recreational Facilities**

***Policy-01: Ensuring Community level Recreational facilities***

**Justification:** To provide a livable environment for the Paurashava people, community level recreational facilities should be preserved. In long run, preservation of recreational lands for future generations should be ensured. At present, only 3.20 acre is devoted for Recreational facilities. Parks should be created at central and at neighborhood level through Master Plan and Ward Action plan.

Both public and private sectors investment is encouraged.

Standard wise recreational facilities such as Play ground, Neighborhood parks, Stadium, Cinema hall will be provided as described in Land Use Plan of Part-B.

**Implementation Agency:** Paurashava, Public / Private sector

**8.1.6 Safely and Security**

Considering the present law and order situation and its impact on the urban life it is necessary to face the challenge of restoring law and order. The major responsibility o these tasks rest with police department. Law and order in the Paurashava and its surrounding has to be ensured.

***Policy01: Improvement of law and order services for all citizens***

**Justification:** Improvement of law and order is a national issue. Anyway local level community policing can be organized for ensuring security at local level.

**Implementation Agency:** Paurashava, Home Ministry.

## 8.2 Physical Infrastructure Sectors

### 8.2.1 Traffic and Transportation

Traffic is the function of landuse. It is also mention here that traffic network and the traffic generated induces the growth of landuse. Road networks will play strategic role in opening up undeveloped areas of the future term and shape up its structure. There is an interrelation between road network and utility services which together play key role to guide physical development in the town and Paurashava.

#### ***Policy-01: Develop efficient inter town or inter Paurashava communication facilities***

**Justification:** To avoid traffic congestion within the Paurashava the structure plan recommends new roads/bypasses to link with the Kuakata tourism centre.

Participatory approach will be developed to realize at least a part of the cost of the development from the beneficiaries. This will also help to reduce delay and cost involved in land accusation procedure.

**Implementaion Agencies:** Paurashava, RHD

#### ***Policy02: For better accessibility transport terminals should be located at major roads of the Paurashava.***

**Justification:** To develop and facilitate easy means of transport consultant suggest the promotion of public transport.

**Implementation Agencies:** Paurashava, RHD

#### ***Policy03: Integration of existing road and water transportation network.***

**Justification:** To develop an efficient Regional Transportation Network and flourish

**Roadway Network:** At present, Char Fasson Paurashava is connected with Barguna, Patuakhali, Kuakata, and Pirojpur with diverse regional roads. Thus, these networks develop the regional and national road network of Char Fasson Paurashava. Due to lack of infrastructure facilities, travelers often suffer from long and tedious journey by Road.

**Water way Network:** Water transport network of Char Fasson Paurashava has significant importance in carrying both people and goods. At present, nine launch and fifty trawlers serve Char Fasson Paurashava per day from the existing launch terminal that is operated by private operator in various routes.

Some measures will be taken to promote the Regional Transportation Network in Char Fasson:

- Multi modal integration of Water and Road Transport provides better service to Char Fasson region in respect of Time, Distance and Fare. Therefore, more launch and bus service will be required considering the Travel demand in 2031<sup>3</sup>
- Transportation Service will be upgraded such as Launch, Bus, Truck Terminal Capacity considering Travel demand in 2031
- Regular Dredging and Navigation of existing water-way route is required to provide launch service in future

In promoting Regional Transportation Network System, some controlling measures will be followed:

- Existing Char Fasson Highway Road should be widened considering the RHD Standard manual as per category of Roads and determined Level of Service (LOS) in up to 2031

**Implementation Agency:** RHD, LGED, BIWTA.

***Policy-04: Functional and Hierarchical Road Network Development<sup>4</sup>***

**Justification:** Road Network has been developed without following any planned pattern.

**Controls:** Following the existing condition, of Char Fasson Paurashava, some strategies will be persuaded before incepting the Transportation Development Plan

- Make a priority for in Space Allocation of ROW for better space utilization and promoting non-motorized traffic avoiding interruption, ensuring speed with motorized traffic<sup>5</sup>
- 10-20 ft. plantation beside the Highway Road will be proposed for ensuring safety of people of beside Highway Road
- The Road Hierarchy of Char Fasson Paurashava will be modified and proposed on the basis of Road width Standards as described Chapter 3.3, Transportation and Traffic Management Plan, Section-III.
- Follow up the basic rules mentioned in Building Construction Act, 1996 at Major Intersections of the Paurashava. Some basic rules are:
  - ✓ In each Corner plot of major intersection 1m×1m land area has to be open for traffic movement
  - ✓ At the cross section of two or three roads within 50 meter distance, construction of commercial complex, Cinema Hall etc. are prohibited. But, 500 square meter area in total is permitted for commercial purpose (Shopping Complex), road width is 23 meter or greater
- Promote efficient traffic management system within Paurashava by pursuing Regulatory measures (parking control and speed control in Highway Road, access control of trucks in Paurashava area,) and Design measures (Details of lay-out of Proposed Primary Road and Secondary Road in Paurashava area, use of lighting equipment etc.) in Paurashava Road Transportation System<sup>6</sup>

**Implementation Agency:** RHD, LGED, Paurashava.

## 8.2.2 Utility Services

***Policy-01: Facilitating access for all citizens to basic level of services in water supply and sanitation<sup>7</sup>***

**Justification:** To reduce the incidence of water borne diseases and increasing the present coverage of safe drinking water by lowering the average number of users per tube well.

- Facilitate safe drinking water supply and safe sanitation to each household as per demand in 2031<sup>8</sup> though various means, including:
  - Piped Water Supply System
  - Water treatment plant, Overhead Tank
  - Rainwater Harvesting and Conservation (especially south-western region)<sup>9</sup>

---

<sup>4</sup> Policy has been formulated in light of National Land Transport Policy, 2004

<sup>5</sup> Mentioned in Chapter 2.4 (pp-5,6), Transportation and Traffic Management Plan, Section -II

<sup>6</sup> Strategies undertaken for Traffic Management in Daulatkhan Paurashava are described in Section 2.5), Transportation and Traffic Management Plan, Volume-II

<sup>7</sup> Policy has been formulated in light of National policy for Safe Water Supply and Sanitation, 1998

<sup>8</sup> Forecasted Water Supply Demand in 2030, Plan for Urban Services, Section-II

<sup>9</sup> Following National Water Policy, 1999

Prescribed Standards have to be followed in providing facilities as mentioned in Urban Area Plan under Plan for Urban Services.

**Implementation Agency:** DPHE, Paurashava.

***Policy-02: Facilitating access for all citizens to electricity and gas supply***

**Justification:** According to BBS, community series-Char Fasson, 2011, at Char Fasson Paurashava, about 79.8% (3212 households) of the total households have electricity connection. Besides, to accelerate the industrial development (Agri-based, fishery) in Char Fasson Paurashava electricity, gas supply must be ensured.

Bhola gas field at Burhanuddin upazila will facilitate the gas supply provision in Paurashava.

Consumption of wood and other natural resources based fuel will be reduced. Also alternative energy sources will be encouraged (biomass, solar etc.)

**Implementation Agency:** PDB

### **8.2.3 Flood Control and Drainage**

***Policy-01: Incepting Drainage Network Plan in response of Water logging problems***

**Justification:** Lack of adequate and planned drainage facility in Char Fasson cause Water logging problem. The depth of maximum internal inundation ranges from 2-5 ft and duration varies 3 to 4 hours.

Following strategies should be reflected in Drainage Network Plan:

- A planned Drainage network will be provided in Drainage and Environment management Plan considering the standards, appropriate method and formula<sup>10</sup>
- Regular maintenance of existing man-made and natural drainage network with Community involvement
- Illegal encroachment of Water bodies by Water Reservoir Conservation Act, 2000 ensuring storm water drainage
- Scattered throw of solid waste in water bodies by proper solid waste management activities

**Implementation Agency:** Paurashava, BWDB.

### **8.3 Environmental Issues**

The Policies will strike a realistic balance between the existing livelihood requirements of the people and round environmental resources management that can ensure the livelihood in long term.

#### **8.3.1 Natural Resources**

***Policy-01: Preservation of natural Water resources<sup>11</sup>***

**Justification:** To ensure natural water bodies and fish resources which are crucial to sustain the livelihood and to retain the eco-system.

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<sup>10</sup> Drainage and Environmental Management Plan, Volume-II

<sup>11</sup> Environmental Policy & Implementation Plan, 1992



Small and large sale fisheries Communities/Groups will be given incentives, training program will be developed on new and modern fish harvest techniques, conservation, distribution, pursuing. Permitted land use will be maintained in the demarcated areas that are as follows:

- Irrigation
- Provision of water way transportation in wet season
- Fishing/Fish Culture

**Implementation Agency:** BIWTA, BWDB, Paurashava, DOA.

### 8.3.2 Sanitation

#### ***Policy-01: Ensuring Safe Sanitation to Citizen***<sup>12</sup>

**Justification:** In Char Fasson Paurashava, the sanitation condition of Paurashava is not so much satisfactory. There exist two types of latrine viz. katcha and Pucca. Besides, dumping of solid wastes in a scattered way is a common phenomenon.

Following strategies should be promoted in ensuring sanitation:

- Dumping Site and solid waste transfer sites demarcation in Land Use Plan of Paurashava area ensuring effective management including community participation
- Proposal of Solid Waste Dumping site
- Installing public toilets in schools, bus stations, launch Terminal, Markets, important public places and community latrines in densely populated poor communities or slums

The illegal connection of existing latrines with drains needs to be controlled through proper monitoring and in future

**Implementation Agency:** Paurashava, DPHE, LGED.

### 8.3.3 Hazards

#### ***Policy-01: Identifying the hazard risk zones***

**Justification:** As Char Fasson Upazila is an island, Cyclone is the frequent hazard and flood is the secondary impact and most apparent impact accrued from Cyclone Hazard. During Cyclonic hazard the level of water is raised up to 8-10 ft ( $\approx 3.05$  m) (maximum). Therefore, strengthening disaster preventing and mitigating mechanisms to enhance the coping capability to the Poor in times of natural disaster is vital in this Paurashava context

Environmental Management Plan will be prepared under Urban Area Plan for all possible hazards (Cyclone, Flood, River Erosion, etc.). The Plan will provide the adaptation, prevention (structural/non-structural measures), mitigation, Preparedness techniques against a natural disaster through comprehensive disaster risk management<sup>13</sup>.

To reduce the impact of hazards same manures will be undertaken which are as follows:

- Embankment, flood control sluice gates and other structural measures
- Early Warning System
- providing of multi-purpose cyclone shelter

**Implementation Agency:** Paurashava, BWDB, LGED.

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<sup>12</sup> Following National Water Policy, 1999

<sup>13</sup> Drainage and Environmental Management Plan, Volume-II

### 8.3.4 Environmental Aspects

#### ***Policy-01: Pollution Control***

**Justification:** Pollution level such as water, air and soil pollution rate is very low. As the area is located in coastal region, saline and iron also contaminate the water but at negligible rate. Besides air and soil pollution rate is also negligible. But this should not allow increasing pollution rate. To ensure safe environment for the Paurashava area, maintenance of the surface water quality is vital.

To control pollution following measures will be required:

- Make free surface waters form domestic wastes and other types of wastes which require proper solid waste management
- Riverside dumping needs to be restricted and dumping site has to be located through prescribed land use planning
- Discourage the high hazarders industries (Only Green Category Industries of DOE)
- Excessive pesticides and fertilizers use in Agriculture field cause soil pollution, therefore it is required to follow the Pesticides law, 1985

**Implementation Agency:** Paurashava, DPHE, DOE, DOA.

## Chapter – 9 IMPLEMENTATION ISSUES

This chapter deals with the issues of implementation of the Master Plan. Here, recommendations have been made about capacity building and resource mobilization for the implementation of the plan.

### 9.1 Institutional Capacity Building of the Paurashava

In the present context of spatial and legal jurisdiction of the Paurashava for planned development of its area, some recommendations are made here. Also, observing the financial and Institutional strength of individual stakeholders in relation to their liabilities and identifying their shortages and absence of any perfect coordinating body, some suggestions have been made as remedial measures as a whole.

- All urban local governments including Upazila level Paurashavas must be given more independence and autonomy to perform their responsibilities. At the same time, their accountability to the government and people regarding their performance has to be ensured. For this purpose the legal framework of the urban local governments has to be reviewed and updated. The legal provisions have to be consolidated and simplified and make them compatible to changing circumstances. Opportunities must be created in the Act allowing scope for privatization of service providing activities.
- To avoid duplication of development functions, there should be clear line of separation between central government and the urban local government.
- A double entry cash accounting system has to be introduced to modernize the accounting system. For this purpose, massive training programme has to be arranged for the relevant municipal staff.
- To improve revenue collection, the urban local governments should be given more power and responsibilities. Measures should be taken for strengthening the Paurashava administration for municipal development.
- Section-50 of the Local Government (Paurashava) Act, 2009 needs to be revised and more power should be given to the Executive Officer for appointment of employees.

It cannot virtually function effectively as a Paurashava under such a stringent financial condition. To function, effectively, it must raise its revenue earning. But it is reported that the Paurashava cannot collect all its holding tax from the citizens. Holding tax is the most important source of its own revenue earning. It must take care to ensure 100% recovery of holding tax. The Paurashava cannot function effectively depending upon government grant only. The existing manpower position of the Engineering, Development control and Accounts should be substantially raised to handle future volume of work. Moreover, additional staff especially for the implementation of Master Plan will soon be required.

The present plan package imposes a large number of development projects on Char Fasson Paurashava for implementation. Paurashava will not only be the custodian of the plan, it will also directly implement much of the development projects. Besides, it will also be responsible for monitoring and implementation of the development projects by other urban development and service giving agencies. This situation calls for strengthening of the existing capability of Paurashava.

#### 9.1.1 Staffing and Training

As a traditional system of the Paurashava, engineer and secretary are appointed directly by the Ministry of Local Government and other staffs are appointed locally through the approval of the Ministry after the advertisement on the newspapers. In Char Fasson Paurashava, the revenue income is too low. That's why it is not capable to pay the salary of all the officials and staffs. The salary is recovered from the government grant and BMDF allocation. This is the main reason for under staffing of the Paurashava.

There is no proper arrangement for staff training. As a result, the staffs are mostly unskilled. They cannot deliver proper service to the citizens. Besides, most of them are not qualified enough to render proper services.

### **9.1.2 Lack of Automation**

Most works in the Paurashava are done manually. Such practice delays works and deprives the citizens from services. This is also a source of mal-practice and corruption. Modern office and working equipment should be installed. Use of modern technology will increase efficiency in planning and record keeping, finally expedite decision making process.

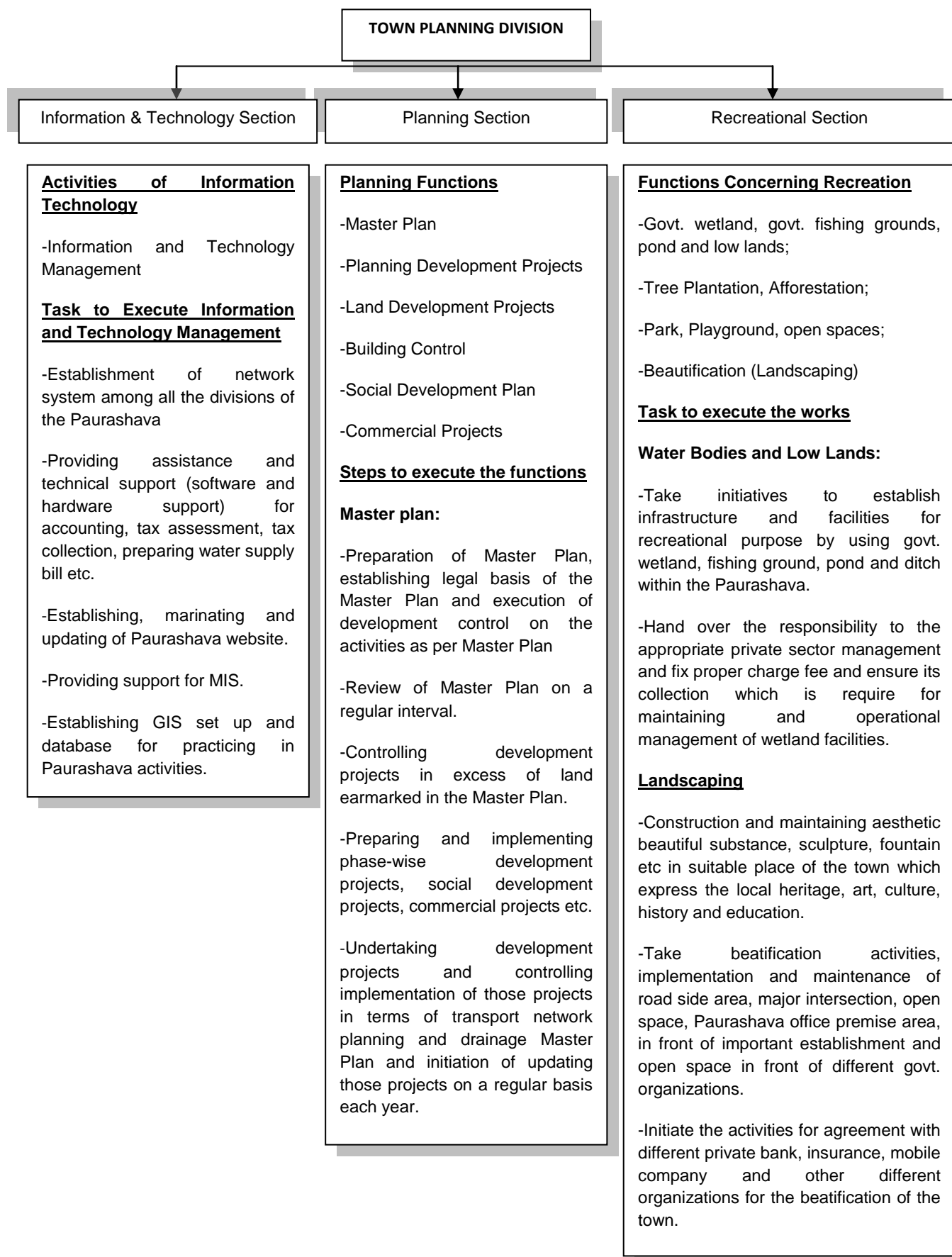
### **9.1.3 Town Planning Capacity**

#### **9.1.3.1 Institutional Framework**

To rearrange the institutional framework for the Paurashavas recently the government has made a committee for the categorization of all the Paurashavas of Bangladesh. According to the clause no. 72-78 (Paurashava Officer & staff, provident fund etc) of Local Government (Paurashava) Act 2009 and on the basis of the type and category of works, the committee suggested appropriate section/units/divisions within the Paurashava framework. Planning unit or division will be necessary to set sequentially as the authority can perform its' mandatory responsibility 'town development and control' well and serve the inhabitants presently as well as in the future. The planning unit/division may have some sections that are as follows:

Planning unit/Division: a) IT Section  
b) Planning Section  
c) Beautification and recreation Section

According to the division and its' relevant sections, what so ever appropriate with the necessity and capacity over time, it is recommended to set up necessary manpower for each category of Paurashava. Possible scope of proposed planning unit/division is given below:



**Fig 9.1: Scope of Work for Planning Division**

### **9.1.3.2 Lack of Paurashava Town Planning Capacity**

At present, the Paurashava has no town planning section or any appropriate manpower to prepare and implement the Master Plan. For proper implementation of the Master Plan for each Paurashava under UTIDP, establishment of a separate planning unit is indispensable. The Paurashava must strengthen its capacity to implement its Master Plan when it will be completed. It will otherwise be in trouble for implementation, monitoring and updating the Master Plan.

After detail study the Bangladesh Institute of Planners (BIP) recently proposed an organogram of Planning Section/Division for different categories of Paurashavas. Analyzed this proposed organogram the consultant has suggested the following modified Organogram for Char Fasson as “A” class Paurashava. A comparison of the existing manpower with the approved organogram finds that there is a huge gap between the two. Many positions have been vacant since the inception of Paurashava. Paurashava authority supported with the line ministry should take necessary steps to set up planning unit and strengthen all units/division of the Paurashava for its better performance.

### **Distribution of Plans Including Report**

The approved plans and report must be distributed among relevant government agencies. This will enable them to know about what town development projects are there in the plan. This will help them adjust their plans and programmes with the plans. Interested general public should be given easy access to the plans and reports as part of establishing good governance.

### **Support for Planned Urbanization**

For creating planned urbanization, Paurashava may:

- Support for preparation of Computerized Infrastructure Database.
- Support for Preparation of Paurashava Base Map.
- Support for Preparation of Paurashava Infrastructure Development Plan.
- Orientation on preparation, use, update & implementation of Paurashava Master Plan.
- Assist preparation and execution of Community Development Plan by Community Based Organization (CBO).
- Introduce 3D-Modeling in Master Planning components.
- Beautification of Paurashava by 3D-Modeling.

### **Community Mobilization Program**

Following are the community mobilization support activities:

- Support to establish Town Level Coordination Committee (TLCC) and make it functional
- Support to establish Ward Committee (WC) and make it functional.
- Support for preparation of Community Planning and implementation by forming Community Based Organization (CBO).
- Support to accelerate the Paurashava Standing Committee activities.

### **Urban Governance Improvement Action Programme (UGIAP)**

It is stipulated in the 6<sup>th</sup> 5 year plan 'the Key constraints to the effective functioning of the Paurashavas and City Corporations are unclear mandate and service responsibilities; lack of accountability; weak finances and financial autonomy; poor coordination and control among service agencies and weak management'.

To overcome the challenges, the 6<sup>th</sup> Five year plan as well as Perspective Plan of Bangladesh, 2011-31 recommends the same issues mentioned below:

- the instructional reform and decentralization of responsibilities and resources to local authorities;
- participation of civil society including woman in the design, implementation and monitoring of local priorities;
- building capacity of all actors (Institutions, groups and individuals) to contribute fully to decision making an urban development process; and
- facilitate networking at all levels.

It is already tested, proven and accordingly recognized in the 6th Five year plan that urban infrastructure improvements have been proved very successful introducing governance and performance-based approach adapted by UGIIP in selected ULBs in the country. Among other suggestions the 6<sup>th</sup> Five year plan also includes nature for Urban Governance Improvement Action Programme (UGIAP) and Capacity Building of Institutes at Municipality-level in particular.

### **Citizen Awareness and Participation**

The Paurashava authority may initiate to buildup citizen awareness and to ensure peoples participation in plan initiation and implementation process. Initiatives may be as follows:

- Establishment of Civil Society Coordination Committee (CSCC) and make it functional
- Establishment of Ward Level Coordination Committee (WLCC) and make it functional
- Citizen Charter display at Poura Bhaban.
- Citizen Report Card Survey by the Paurashava.
- Establishment of Grievance Redress Cell and make it functional with specific TOR
- Establishment of Mass Communication Cell (MCC) and make it functional
- Establishment of Urban Development Coordination Unit with inclusion of other departments for inclusive development

### **Urban Planning and Environmental Improvement**

Master plan is a guideline and detail urban planning activities are being prescribed in the plan. To produce a livable environment in the Paurashava premises, following initiatives should be taken:

- Recruitment of staffs and establish Planning Department related to administrative structure, meeting and meeting minutes preparation.
- Master Plan, Base Map verification and update landuse plan preparation.

## **Char Fasson Paurashava Master Plan: 2011-2031**

### **Structure Plan**

- Approval of building plan and development control.
- Introduction of environment and public health activities.

### **Urban Poverty Reduction**

Following initiatives can be taken by the Paurashava for urban poverty reduction:

- Establishment of Slum Improvement Committee (SIC) in selected slums and scattered area.
- Preparation of poverty reduction action plan with guideline and necessary budget allocation.

### **Income Generating Activities**

The income generating activities include:

- Tax assessment software use and capacity development for staffs of assessment section.
- Continue reassessment activities regularly at 5 years interval.
- Continue interim assessment regularly in whole year.
- Introduction of computerized tax system and bill preparation.
- Increase collection by more than 5% annually (up to 85% collection efficiency).
- Increase non-tax own revenue source atleast by inflation rate.
- Introduction of computerized trade license system and computer bill/license prepared and report produced.
- Introduction of computerized Water bill (Tariff) system.
- Introduction of Computerized non-motorized vehicle management system.
- Identification of new income sources for increasing income.

### **Transparency and Accountability**

Functions and activities perform by the Paurashava authority should be transparent and the persons responsible for performing activities for betterment of the society should maintain accountability to the Paurashava people as well as central government. Following guidelines may be followed for such performances:

- Administrative Reformation of Paurashava.
- Set Vision, Mission and functions for each department / section of the Paurashava.
- Functions to be decentralized, transfer and coordination with other authorities.
- Establishment of Capacity Development Committee in Paurashava-level.
- Establishment of Urban Information Services Center at Paurashava premises.
- Meet the Mass people of Paura-Parishad.

#### **9.1.4 Legal Aspects**

The drive to establish strong urban local governance in the Paurashava is yet to be legalized. The governance programs at present are operated project wise based on the formulated policies of the implementing agencies of the national government. The Laws that the country inherited are mostly prepared during the colonial rule to serve its own interests. Even after independence from the British, the issue of good governance was not infused into the new Acts formulated.



### **9.1.5 Good Governance in Legal Provisions**

There is hardly any Act where the elements of good governance are clearly visible. The consultant has identified some Acts, where some elements of good governance can be traced.

The Paurashava/Municipal Act/Ordinances prepared at different times since 1960's have iterated for the preparation of Master Plan by the Paurashava/Municipality for its planned development. So far urban local government Ordinances/Acts made in 1967, 1977, 2008 and 2009, all suggested for planned development. The Local Government (Paurashava) Act, 2009 has made the provision of having a Master Plan prepared by a Paurashava within five years of its inception. The function of the Paurashava also includes that it ensures planned development following the rules of the Ordinance. But there is no provision for public participation in the Local Government (Paurashava) Act, 2009. In all these legal documents, people's role has been ignored which is the violation of the norms of good governance.

The constitution of the Peoples' republic of Bangladesh clearly spells out that the Government should work to minimize the gap between urban and rural areas. A planned Paurashava development in that pursuit can provide necessary services to improve quality of life in both urban and rural areas within the Upazila.

### **9.1.6 Financial Issues**

#### ***Governance in Char Fasson Paurashava***

Financial governance refers to transparency and accountability of financial matters. All financial matters must be transparent to all. People must know about the policies and programs of the Paurashava, how much revenue is collected each year and the amount of expenditure made on annual development. They must also be answerable to the people on how the public money is being spent and accounts being maintained.

The Ministry of LGRD and Cooperative has undertaken a number of projects in respect of establishing governance in upgrading Paurashava accounts system, like, UGIIP, STIFPP. Computer and accessories are supplied under these projects for automation of the accounts system. Besides, trainings are also offered to the Paurashava accounts staff for enabling introduction of automation in accounts system. But all these services have not yet reached Char Fasson Paurashava.

#### ***Revenue Management***

The Paurashava still follows a traditional management system in tax collection and revenue management though a scheme of computerized automotive financial system has already been introduced in this Paurashava. Assessment section is responsible to assess the tax of the Paurashava and tax collection, and license and bazar section are responsible to collect the tax of the Paurashava. The public is mainly informed about tax collection during the presentation of annual budget. They may, however, get information from the councilor or Paurashava accounts office.

#### ***Paurashava's Financial Capacity and Plan Execution***

The main focus of Paurashava financial governance is to establish automation in entire financial management. This includes computerization of accounts system, holding tax management, and billing of different service charges. Software for above functions have been supplied and installed

in the Paurashavas covered by financial automotive projects. The projects also provided training to the relevant staffs for functioning of the systems. With the implementation of these projects people can now instantly know about the status of their tax payment, bill payment, and licensing. This has not only made the functions of the Paurashava easy, but also has freed the citizens for paying bribe, and experiencing hassle.

The size of annual budgets of the Paurashavas indicates the poor financial status of the Paurashavas. With low income, Char Fasson Paurashava will have to depend substantially on the government funding for implementing the development projects. But the government has limitations of its resources. In such a situation, if the Paurashava cannot raise its own revenue adequately, it will not be able to execute much of the development projects under the Master Plan.

### **9.1.7 Monitoring, Evaluation and Updating**

Monitoring and evaluation is a very important part of plan implementation. Monitoring helps check if the plan is being implemented properly. It also measures the level of implementation of the plan. If the plan implementation is not on track, corrective measures can be taken to put execution on the track. After expiry of any plan, evaluation is made about the errors and omissions. Such evaluation helps take corrective measures in the next plan. Such monitoring and evaluation must be carried out from within the Paurashava. But Char Fasson Paurashava is not equipped with qualified manpower to make such evaluation. Monitoring and evaluation of a plan is essentially, the responsibility of qualified and experienced planners. As there is no planner in the Paurashava, monitoring of plan implementation will be seriously affected. However, plan evaluation can be accomplished by means of out sourcing as and when it is required.

### **9.1.8 Periodic Review and Updating**

The plan package needs to be updated regularly to make it respond to the spatial changes over time. But such updating would require relevant technical professionals and requisite fund that are highly lacking in Char Fasson Paurashava. As there is no planner or planning section in the Paurashava, review and updating of the Master Plan will require service of senior level planners that Paurashava might not be able to provide. This service will have to be procured by out sourcing and the Paurashava is not even capable to accomplish this financially either. This will create problem when the plans or its components gets obsolete or need to be changed. Another problem would arise when the duration of plans ends. It is necessary that the entire plan document (including all planning and land use proposals) should be reviewed every 4th year of the plan period and will come into execution from the 5th year. The aim of the review will be to analyze the status of implementation of plan provisions, the changing physical growth pattern, infrastructure development, and the trend of public and private physical development including growth direction.

A new set of plans will have to be prepared replacing the old ones. This problem, however, can be overcome by undertaking another planning project by LGED. So, for regular updating and changes, and plan implementation monitoring, the Paurashava should immediately set up a planning section with a number of planners and other staff. The section will not only look after planning, but will also be responsible for development control, estate management, and project preparation. Since the planners would be qualified and skilled in computer operation, they can also help achieving automation of the Paurashava functions.

## **9.2 Resource Mobilization**

Resource mobilization will be one of the most challenging tasks in implementing the current plan package. Though the development proposals are said to be executed by a large number of development agencies, but it is beyond doubt that the heaviest burdens will have to be shouldered by the Paurashava. As a local government agency, it suffers from resource constraint due to low level of urbanization and investment by both public and private sectors. The land value will maintain perpetually low growth rate in the town. Therefore, prospect of mobilization of substantial resource from sale of serviced land is extremely meager. For the same reason, revenue earning from betterment fee, planning permission and other sources may also remain low. Paurashava is heavily dependent on the government for executing its development projects as it is unable to collect sufficient revenue from its tax and non-tax sources. Therefore, it is clear that execution of development projects under the current plan will depend heavily on the government response to supply adequate fund. This situation calls for increasing revenue earning by generating new revenue sources.

### **9.3 Concluding Remarks**

From the past experience, it has been observed that plans are prepared for organized development, but development control has been subject to negligence. In most cases, execution has been piece-meal. It is unfortunate that town planning has not yet become a part of our urban development culture. Individuals develop lands and construct buildings with a little respect for planned development, and the concerned authority is also unable to exercise full control on development. Some strict measures are necessary to make stakeholders follow up plans and development rules. Awareness is to be built among the people to follow the Master Plan provisions and plan. Government agencies must be compelled to follow plans. Existing laws in this regard must be updated incorporating provisions of plan execution.

## **Part B. Urban Area Plan**

## URBAN AREA PLAN

### Introduction

Urban Area Plan is aimed to guide physical development of Char Fasson Paurashava including its economic and social activities. The plan adhere policy directives spelled out in the Structure Plan. The Urban Area Plan is akin to the traditional Master Plan approach prevalent in the country that designates plot-to-plot use of land apart from infrastructure development proposals. Thus it will also serve as a development control mechanism/instrument. Preparing landuse plan on a cadastral map, the Urban Area Plan considers more rigid. Once the plan on a cadastral map is drawn and accepted by the government and formalized, it gains a formal status and thus becomes a binding for all concerned.

The Terms of Reference (TOR) specify (Pg. 6. Article 4) that the Urban Area Plan (UAP) / Multi-sector Investment Plan (MSIP) will consist of the following plans:

- Landuse Plan
- Transportation and Traffic Management Plan
- Drainage and Environmental Management Plan
- Plan for Urban Services

The Urban Area Plan is presented in both, map and textual format. The plan map is presented in 1:1980 scale, super imposed on latest cadastral/revenue map having plot boundaries within mouzas. The plan is accompanied by an explanatory report supported by necessary figures, maps and data.

Urban area plan is broadly divided into two parts, plan map and explanatory report. The plan map depicts future landuse zoning, infrastructure development and other development proposals. Report elaborates all proposals proposed in the plan, including rules, regulations and recommendations for implementation of the plan.

The outline of the Urban Area Plan gives guidance to the Paurashava as to how it can develop the roles i.e. to promote development, to co-ordinate development and to control development.

The Urban Area Plan has been divided into four main parts. These are preceded by four introductory chapters which explain the scope of the report and provide background to the Urban Area Plan including its relationship with the Structure Plan.

The Landuse Plan identifies approaches of planning, existing and projected landuse and proposed landuse. Requirement of land for different purposes, landuse zoning and plan implementation strategies are also included here.

The Transportation and Traffic Management Plan includes existing conditions of transportation facilities, intensity of traffic volume, degree of traffic congestion and delay, analysis of existing deficiencies, travel demand forecasting for next 20 years, future traffic volume and level of services and transportation development plan. Moreover, transportation system management strategy and plan implementation strategies are also presented in this plan.

Drainage and Environmental Management Plan is the third chapter of the Urban Area Plan. The chapter again subdivided into two parts – drainage part and environment part. Existing drainage network, land level and topographic contour, plan for drainage management and flood control and plan implementation strategies are the components of the drainage part. Existing environmental condition, solid waste and garbage disposal, environment pollution, water-logging,

natural calamities and localized hazards, plan for environmental management and pollution control and plan implementation strategies are the key issues of the environment part.

Fourth part of this report is Plan for Urban Services. Existing condition and demand of the Services, projection on existing and proposed Urban Services, Proposals for Urban Services and Implementation, monitoring and Evaluation of the Urban Services Plan are the key issues of this part.

Paurashava operates all parts where it provides basic urban services and facilities. Considering future urbanization trend and potential development projected population is assumed 60561 for 2031.

The Urban Area Plan covers nine Ward Action Plans also.

## Chapter - 10 LAND USE PLAN

### 10.1 Existing and Projected Land Use and Land Use Proposals

Land use Planning rules are statutory rules to control land use according to planning standard. It is based on land use policies including Local Plans, such as residential density, road standard, provision of infrastructure and services. The relevant Acts and Master Plans of the cities are the legal instruments, which is in force with regard to exercise planning control and standards. Therefore, future land use of Char Fasson Paurashava is shaped by intermingling relation between existing and proposed land use.

#### 10.1.1 Existing Land Use

The existing land uses of the project area are shown in Table 10.1. In the land use pattern of the Paurashava, 16 types of land uses are found. It is clearly evident from the table that residential landuse (48.96%) dominates the Paurashava area, followed by residential (30.24%), water body (13.54%), circulation network (2.99%) and government services (0.75%).

**Map 10.1** illustrates how the land uses are distributed at present in the Paurashava area. The information helps the preparation of Master Plan providing background information for selection of areas of different land uses.

**Table 10.1: Existing Land use of Char Fasson Paurashava**

SL No.	Landuse	Area (acre)	%
1	Residential	759.26	30.24
2	Commercial	32.54	1.30
3	Industrial	1.13	0.04
4	Education and Research	29.93	1.19
5	Community Service	7.54	0.30
6	Service Activity	2.55	0.10
7	Recreational	3.20	0.13
8	Governmental Services	18.72	0.75
9	Non Government Services	1.42	0.06
10	Transport & Communication	0.62	0.02
11	Agricultural	1229.09	48.96
12	Mixed Use	0.76	0.03
13	Urban Green Space	1.40	0.06
14	Circulation Network	75.14	2.99
15	Water body	339.90	13.54
16	Miscellaneous	7.33	0.29
	<b>Total</b>	<b>2510.53</b>	<b>100.00</b>

Source: Land Use Survey, 2009-2010

#### 10.1.2 Estimation on the Requirement of Different Land Uses

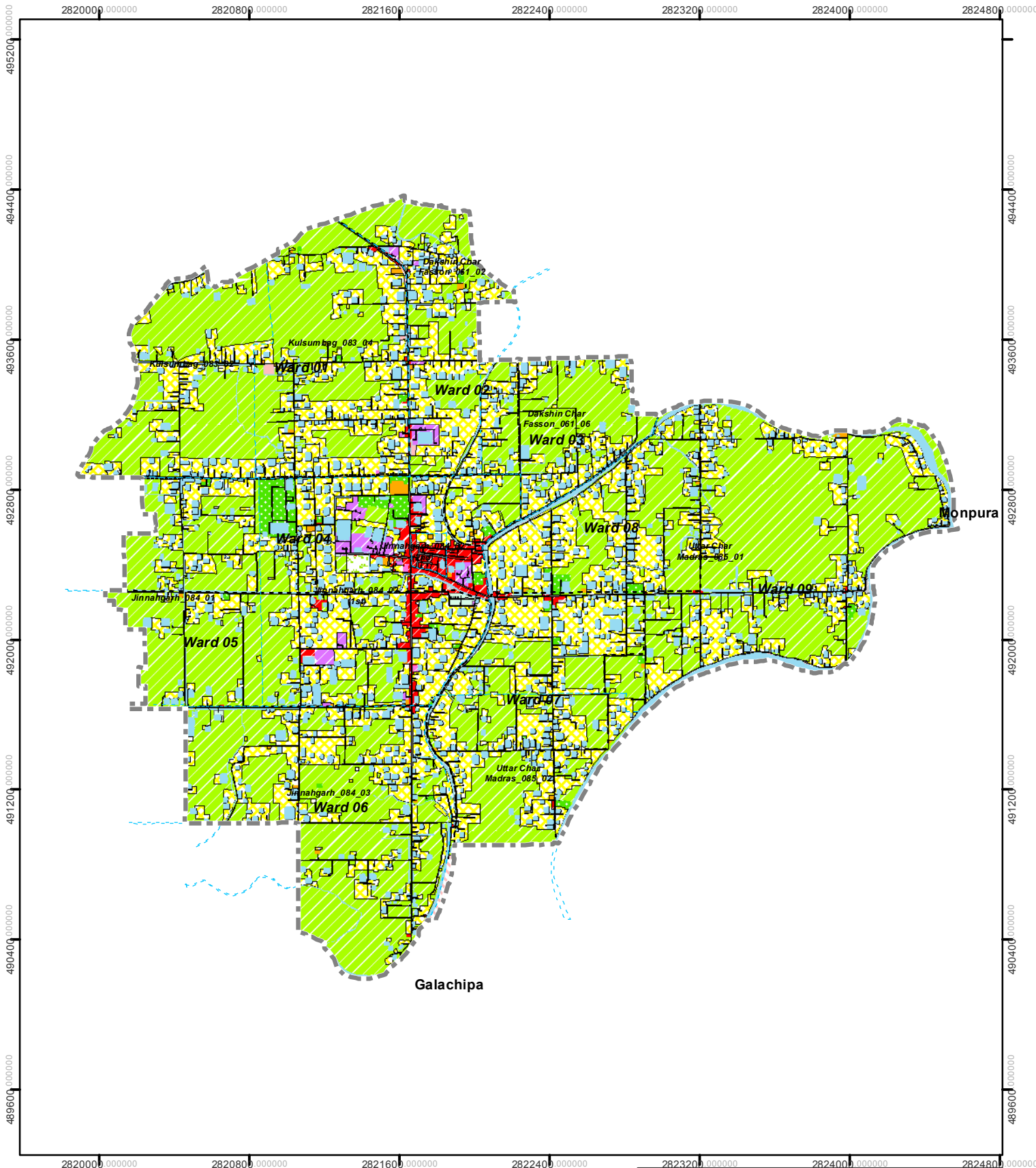
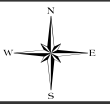
This section proposes land use zoning plan for different land uses of the future town. The estimations have been made according to the Planning Standard approved by the client.

##### 10.1.2.1 Land Use Standards

According to the projected population density it has been observed that in 2031, this area will be a high density area. On the basis of projected population and considered the planning standard additional demands for land had been calculated for various facilities such as residential, commercial, industrial, educational, public land, etc.

Agricultural lands, Water bodies will be preserved as existed unless lack of land availability is observed in providing urban services. In that case, non-productive agricultural lands can be devoted for specific urban services and also to control the density of the Paurashava area.

# MAP: 10.1 EXISTING LANDUSE OF CHARFASSON PAURASHAVA



PREPARATION OF MASTER PLAN FOR CHARFASSON PAURASHAVA

0 0.1 0.2 0.4 0.6 0.8 Kilometers

Legend			
Paura Boundary	Agriculture	Mixed Use	Industrial Area
Ward Boundary	Community Facilities	Non-governmental Organization	Rural Settlement
Mouza Boundary	Education & Research	Recreational Facility	Service Activity
<b>Landuse</b>	Governmental Services	Transportation & Communication	Water Body
Circulation Network	Green Spaces	Residential Area	
Commercial			

  
 Local Government Engineering Department (LGED)  
 Government of the People's Republic of Bangladesh  
 Ministry of Local Government,  
 Rural Development and Cooperatives  
 Consultants  
 Shellech Consultants (Pvt.) Ltd  
 1/E/2, Paribagh (Mazar Road), Shabagh, Dhaka  
 In Association with  




### 10.1.2.2 Land Requirement and Proposal

After the projection for the target year and analyses of existing Land Use, designation of different land uses is the foremost vital step to prepare Land Use Plan as the first component of Urban Area Plan. Before incepting the Land Use Plan for the year 2031, basic principles for different category of Land Uses have been considered. In precedence, future land use designation and land use zoning have been identified. Finally, Implementation, Monitoring and Evaluation issues have been discussed as the steps after the plan completion to make the Land Use Plan perpetual through plan period.

To allocate the land in Urban Area Plan, one uniform planning standards has been followed and also some basic assumptions have been identified considering Land use Category. The population growth, existing growth direction, economic sector and overall Paurashava Context have been emphasized in Urban Area Plan. The assumptions are mainly reflection of Building Construction Act, 1952 (amendment 1996) which is the practiced law in Char Fasson Paurashava for approving Building plan or site plan. Sixteen Landuse categories had been considered for Survey and interim phase but for Landuse plan seventeen categories have been considered. Detail analysis of required land based on the standard provided by PMO, LGED is presented in the Table 1.2.

Table 10.2 shows that the Landuse plan has prepared according to the standard and effort have been given to conserve high value agricultural land and water body. Moreover, urban deferred has been proposed for future development. Detail Landuse plan has presented on **Map 10.2** and Table 10.3.

**Table 10.2: Proposed Major Landuse of Char Fasson Paurashava**

Sl. No	Land use Category	Remarks	Area (Acre)	%
1	Administrative	All Government Offices except large scale service based offices as Civil Surgeon Office, DC Office, Police Box, Police Fari, Police Station, LGED Office, Paurashava Office, Settlement Office, Union Parishad Office, Upazila Headquarter, BADC Office, Fisheries Office, Ansar/VDP Office, Agriculture Office, Zila Parishad Office, Post Office, Telephone Exchange Office and Other Government Offices.	31.22	0.63
2	Agriculture	Agricultural land denotes the land suitable for agricultural production, both crops and livestock. It is one of the main resources in agriculture. It includes productive land (single, double and triple cropped), seed bed, fisheries, poultry farm, dairy farm, nursery, horticulture etc.	1832.56	37.11
3	Circulation Network	Road and Rail communication	362.89	7.35
4	Commercial Zone	The land used for commercial activities is considered as commercial land use. These activities include the buying and selling of goods and services in retail businesses, wholesale buying and selling, financial establishments, and wide variety of services that are broadly classified as "business". Even though these commercial activities use only a small amount of land, they are extremely important to a community's economy. Commercial land includes established markets and areas earmarked for markets.	62.10	1.26
5	Community Facilities	All community facilities including funeral places and other religious uses	27.38	0.55
6	Education & Research	All kinds of educational institutes like Primary/secondary/other Schools/ Colleges etc are mentioned to calculate the land use for education	63.19	1.28

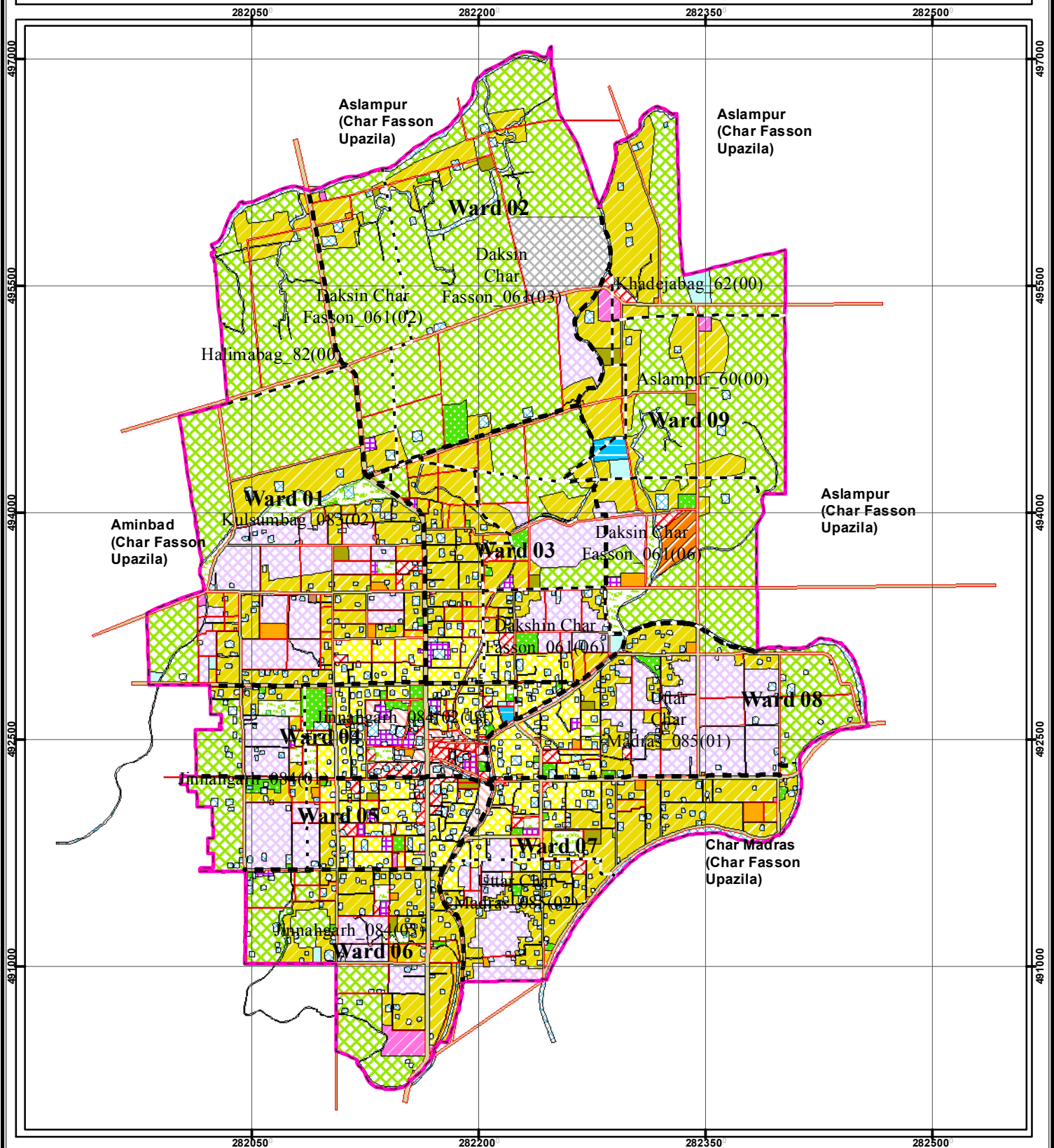
Sl. No	Land use Category	Remarks	Area (Acre)	%
		and research purpose.		
7	Health Facility	Utility services include Overhead Tank ,Power Office/Control Room, Public Toilet, Sewerage Office, Waste Disposal ,Fire Service, Water Pump House ,Water Reservoir, Water Treatment Plant etc	19.82	0.40
8	General Industry Zone	Green and Orange A categories as per The Environment Conservation Rules, 1997	71.14	1.44
9	Mixed Use	Mixed land use refers to the area without dominant land use (Residential, commercial, industrial etc.).	21.39	0.43
10	Open Space	Playground, Botanical Garden, Stadium, Zoo etc. (Facilities without or with minimum building structure)	84.03	1.70
11	Recreational Facility	Facilities other than those mentioned to Open Space and indoor based facilities with designated building structure i.e. Cinema Hall, Theater Hall etc.	10.64	0.22
12	Restricted Area	A Restricted Area is an area where no one but certain people can enter. Here the areas which are not accessible for the general public except some high ranked personnel are considered as restricted area.	17.36	0.35
13	Rural Settlement	Rural settlement includes the low dense residential area which is scattered and rural in nature. It may permit only low density uses. Aiming to control the growth in this zone, less service and facilities will be provided.	1020.91	20.67
14	Transport Facilities	Under transport and communication land use both transport and communication services are considered. This category includes airport, bus terminal/ stand, ferry ghat, filling station, garage, launch terminal, post office, passenger shed, telephone exchange, ticket counter, transport office etc.	23.53	0.48
15	Urban Deferred	Optional depending on the Paurashava and the Consultant's judgment	601.49	12.18
16	Urban Residential	Urban Residential area is a land use in which housing predominates. These include single family housing, multi-family residential, or mobile homes. Zoning for residential use may permit some services or work opportunities or may totally exclude business and industry. It may permit high density land use	329.24	6.67
17	Utility Services	Utility services include Overhead Tank, Power Office/Control Room, Public Toilet, Sewerage Office, Waste Disposal ,Fire Service, Water Pump House ,Water Reservoir, Water Treatment Plant etc.	20.24	0.41
18	Overlay Zone	If the consultant justify any area that should not be defined as other given definitions but the facility(s) may not be avoidable, they may use this category	Not applicable	
19	Forest	Forest Designated Forest Area	Not applicable	
20	Beach	Sea Beach	Not applicable	

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

<b>Sl. No</b>	<b>Land use Category</b>	<b>Remarks</b>	<b>Area (Acre)</b>	<b>%</b>
21	Miscellaneous	Any other categories which are not related to above 23 categories.	2.59	0.05
22	Historical and Heritage Site	The entire mentionable historical and heritage site.	Not applicable	
23	Water Body	Equal or More than 0.15 acre and justification by the consultant and wet land will merge with water body	340.05	6.89
<b>Total</b>			<b>4938.67</b>	<b>100.0</b>

Source: Consultants Estimation

Map 10.2: Proposed Landuse Plan of Char Fasson Paurashava



### Legend

#### Admin Boundary

- - - Mouza Boundary
- Paurashava Boundary
- - - Sheet Boundary
- - - Ward Boundary

#### Landuse Type

- |                      |                         |                           |
|----------------------|-------------------------|---------------------------|
| Administrative       | Health Facility         | Transportation Facilities |
| Agriculture          | Industrial              | Urban Deferred            |
| Circulation Network  | Mixed Use               | Urban Settlement          |
| Commercial Activity  | Open Space              | Utility Facility          |
| Community Facility   | Recreational Facilities | Waterbody                 |
| Education & Research | Rural Settlement        |                           |

0 262.5 525 1,050 Meters



Local Government Engineering Department (LGED)  
Government of the People's Republic of Bangladesh  
Ministry of Local Government,  
Rural Development and Cooperatives

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In Association with



**Table 10.3: Land Requirement, Existing and Proposed Landuse of Char Fasson Paurashava for the Year 2031**

Types of Land Uses	Recommended Standard Provision unit)	Existing (acre)	Future Land requirement (acre)				Surplus (-) or Deficit(+)	Proposed
			Year 2016	Year 2021	Year 2026	Year 2031		
Residential		759.26	436.95	487.17	543.17	605.61	-153.65	1353.91
General residential	100 persons/1 acre							
Real Estate - Public/Private	200 population/ 1 acre							
Roads		75.14				45.51		395
Paurashava primary roads	150 - 100 feet							
Paurashava secondary roads	100 - 60 feet							
Paurashava local roads	40 - 20 feet							
Education		29.93	67.43	73.46	82.18	92.67	62.7432	79.76
Nursery	0.5 acre/10,000 population		2.18	2.44	2.72	3.03		
Primary School/ kindergarten	2.00 acres/5000 population		17.48	19.49	21.73	24.22		
Secondary/High School	5.00 acres /20,000 population		10.92	12.18	13.58	15.14		
College	10.00 acres/20,000 population		21.85	24.36	27.16	30.28		
Vocational Training Centre	5 - 10 acres / Upazila		5.00	5.00	5.00	5.00		
Other	5.00 acres / 20,000 population		10.00	10.00	12.00	15.00		
Open Space		1.4	93.94	104.74	116.78	130.21	128.80615	92.03
Play field/ground	3.00 acres/20,000 population		6.55	7.31	8.15	9.08		
Park	1.00 acre /1000 population		43.70	48.72	54.32	60.56		
Neighborhood park	1.00 acre /1000 population		43.70	48.72	54.32	60.56		
Recreational		3.2	6.09	6.22	6.36	6.52	3.32	2.3
Stadium/sports complex	5 - 10 acres/Upazila HQ		5.00	5.00	5.00	5.00		
Cinema/ Theatre	1.0 acre /20,000 population		1.09	1.22	1.36	1.52		
Health		2.55	18.74	19.74	25.86	27.11	24.5622	19.82
Upazila health complex/ hospital	10 -20 acres/Upazila HQ		10.00	10.00	15.00	15.00		
Health centre/Maternity clinic	1.00 acre/ 5,000 population		8.74	9.74	10.86	12.11		
Community Facilities		7.54	8.96	12.47	17.16	21.02	13.48	25.18
Mosque/Church/Temple	0.5 acre /20,000 population		0.55	0.61	0.68	0.76		
Eidgah/	1.0 acre/20,000 population		1.09	2.00	3.00	4.00		
Graveyard	1.00 acre /20,000 population		1.09	2.00	3.00	5.00		
Community centre	1.00 acre /20,000 population		1.09	2.25	3.50	4.00		
Police Station	3 - 5 acres/Upazila HQ		3.00	3.00	3.00	3.00		
Police Box/outpost	0.5 acre/ per box		0.50	0.50	0.50	0.50		
Fire Station	1.00 acre/ 20,000 population		1.09	1.50	2.80	3.00		
Post office	0.5 acre /20,000 population		0.55	0.61	0.68	0.76		

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

Types of Land Uses	Recommended Standard Provision unit)	Existing (acre)	Future Land requirement (acre)				Surplus (-) or Deficit(+)	Proposed
			Year 2016	Year 2021	Year 2026	Year 2031		
Commerce and Shopping		32.54	49.62	57.12	62.68	71.06	38.5161	62.108
Wholesale market	1.00 acres/ 10000 population		4.37	4.87	5.43	6.06		
Retail sale market + New City Center	1.00 acres/ 1000 population		40.00	45.00	50.00	55.00		
Corner shops	0.25 acre/per corner shop		0.25	0.25	0.25	1.00		
Neighborhood market	1.00 acre/per neighborhood market		3.00	5.00	5.00	7.00		
Cattle Market			0.00	0.00	0.00	0.00		
Slaughter House			0.00	0.00	0.00	0.00		
Super Market	1.50 - 2.50 acres/per super market		2.00	2.00	2.00	2.00		
Industry		1.13	40.00	45.00	50.00	60.56	59.431	71.14
Cottage/agro-based	1.00 acres /1000 population		40.00	45.00	50.00	60.56		
Transportation		0.62	6.28	7.40	8.57	13.54	12.922075	23.53
Bus terminal	1 acre /20,000 population		2.18	2.44	2.72	3.03		
Truck terminal	0.50 acre /20,000 population		1.09	1.22	1.36	1.51		
Launch/steamer terminal	1.00 acre /20,000 population		0.00	0.00	0.00	0.00		
Railway station	4.00 acre / per Station		0.00	0.00	0.00	0.00		
Baby taxi/tempo stand	0.25 acre /one baby taxi/tempo stand		1.00	1.25	1.50	3.00		
Rickshaw/van stand	0.25 acre / stand		1.00	1.25	1.50	3.00		
Passenger Shed	0.25 acre / stand		1.00	1.25	1.50	3.00		
Administration		18.72	28.00	28.00	28.00	28.00	9.28	29.71
Upazila complex	15.00 acres		15.00	15.00	15.00	15.00		
Paurashava office	3 - 5 acres		3.00	3.00	3.00	3.00		
Jail/Sub-Jail	10 acres/Upazila HQ		10.00	10.00	10.00	10.00		
Urban Deferred	5-10% of total Land						500	601

Source: The Consultants' Estimation (\* Here – indicates surplus of land, \* indicates estimated by the consultants)

### A) Residential Zone

Residential zone refers to all categories of urban residential areas, including exiting ones and the residential land use proposed under the present Master Plan. Here, Urban Residential zone comprises urban residential area with 329.24 acres land and Rural Settlement comprises 1020.91 acres. List of permitted landuse under this category has been presented in **Annexure C**.

### Commercial Zone

The commercial zone is intended to provide locations, where commercial activities including retails and wholesale can be set up and function without creating hazards to surrounding land uses. Total 62.10 acres of land proposed for commercial use. Table 10.4 shows the proposals of commercial landuse. List of permitted landuse under this category has been presented in **Annexure C**.

**Table 10.4: Development Proposal for Commercial Zone**

Type of Facility	ID	Ward	Plot Nos.	Mouza	JL No.	Sheet	Area (Acres)
Kitchen Market	KM-1	Ward 01	173,817,431,744, 174, 000 ,000, 000, 1747	Kulsumbag	83	2	1.09
Kitchen Market	KM-2	Ward 02	32	Daksin Char Fasson	61	2	0.56
Kitchen Market	KM-3	Ward 03	19,611,962,196, 319,600,000	Daksin Char Fasson	61	6	1.61
Kitchen Market	KM-4	Ward 04	323,131,513,211, 325	Jinnahgarh	84	01, 02	1.44
Kitchen Market	KM-5	Ward 05	1,378,139,413,96 1, 390, 000, 000, 000, 000	Jinnahgarh	84	02 (1 <sup>st</sup> )	2.04
Kitchen Market	KM-6	Ward 06	3824	Jinnahgarh	84	3	0.88
Kitchen Market	KM-7	Ward 07	844	Uttar Char Madras	85	2	2.01
Kitchen Market	KM-8	Ward 08	111,112,113,190	Uttar Char Madras	85	1	1
Paurasha va Market	PM-1	Ward 04	125,812,591,260	Jinnahgarh	84	02 (1 <sup>st</sup> )	1.07
Retailsale Market	RM-1	Ward 01	1738	Kulsumbag	83	2	2.61
Retailsale Market	RM-2	Ward 09	2,063,211,021,11 2, 110, 000, 000,000,000	Daksin Char Fasson	61	6	3.15
Retaisale Market	RM-3	Ward 07	417	Uttar Char Madras	85	1	1.28
Shopping Complex	SC-1	Ward 01	17,931,802,180,3 18, 000,000	Kulsumbag	83	2	1.1
Shopping Complex	SC-2	Ward 03	22,232,224	Dakshin Char Fasson	61	6	3.18
Shopping Complex	SC-3	Ward 04	1282	Jinnahgarh	84	02 (1 <sup>st</sup> )	0.31
Total							23.33

### C) Industrial Zone

Char Fasson Paurashava is basically an agro-based urban area. Small business and agriculture are the main base of the economy of the area. The plan needs to accommodate such industries those have growth potentiality related to the base of economy of Char Fasson Paurashava. Due to the environmental and ecological condition, the plan discourages growth of heavy industries in the planning area. There are some light industries like saw mill, manufacturing & processing industries and wood based industries are available. So far in proposed landuse plan, 71.14 acres land for industrial development has been proposed. Table 10.5 shows the proposals of Industrial landuse. List of permitted landuse under this category has been presented in **Annexure C**.

**Table 10.5: Development Proposal for General Industrial Zone**

Landuse	Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
General Industrial Zone	General Industrial Area	GIZ -1	Ward 02	765,865,866,870,871,872,873,875,878,879,880,881,882,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,918,919,920,921,922,924,927,930	Daksin Char Fasson	061	03	71.14

#### D) Administrative

Government Office refers such areas encompass accommodation of the offices of various government authorities along with semi-government and autonomous bodies. A few number of private bodies formed especially for public services can also be accommodated in this zone.

But required government offices are already established here. Additional 11.01 acres land for 9 ward Center have been proposed in the landuse plan. List of permitted landuse under this category has been presented in **Annexure C**. Table 10.6 reveals the distribution of proposed land of government offices at Char Fasson Paurashava.

**Table 10.6: Development Proposal for Government Services**

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
Ward Center	WC-1	Ward 01	1747	Kulsumbag	083	02	0.86
Ward Center	WC-2	Ward 02	110,111,114	Daksin Char Fasson	061	02	1.64
Ward Center	WC-3	Ward 03	1974	Daksin Char Fasson	061	06	1.34
Ward Center	WC-4	Ward 04	323,324	Jinnahgarh	084	01	0.35
Ward Center	WC-5	Ward 05	1429	Jinnahgarh	084	02 (1 <sup>st</sup> )	1.44
Ward Center	WC-6	Ward 06	3823,4101	Jinnahgarh	084	03	1.44
Ward Center	WC-7	Ward 07	417	Uttar Char Madras	085	01	1.28
Ward Center	WC-8	Ward 08	63	Uttar Char Madras	085	01	1.14
Ward Center	WC-9	Ward 09	2161,2162	Daksin Char Fasson	061	06	1.52
Total							11.01



### E) Education and Research Zone

Educational zone refers all kind of educational set up; School, Colleges, Madrasha and even such institutions operated for education like; training institutions, research institutions etc. In order to meet up the demand of projected population about 63.19 acres of land proposed for educational purpose. Table 10.7 presents the distribution of proposed land under education and research institutions. List of permitted landuse under this category has been presented in **Annexure C**.

**Table 10.7: Development Proposal for Education and Research Zone**

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
High School	HS-1	Ward 08	139,235	Uttar Char Madras	085	01	2.68
Nursary School	NS-1	Ward 03	1966,2216, 2325	Daksin Char Fasson	061	06	0.80
Nursary School	NS-2	Ward 04	1131,1133, 1325,2241, 2242	Jinnahgarh	084	02 (1 <sup>st</sup> )	1.71
				Dakshin Char Fasson	061	06	
Nursary School	NS-3	Ward 05	1403,1409	Jinnahgarh	084	02 (1 <sup>st</sup> )	0.66
Nursary School	NS-4	Ward 07	417	Uttar Char Madras	085	01	0.87
Primary School	PS-01	Ward 02	659,660,661, 664,677	Daksin Char Fasson	061	03	0.94
Primary School	PS-02	Ward 03	332,2016,201 7,2018	Daksin Char Fasson	061	06	2.73
Primary School	PS-03	Ward 05	1429	Jinnahgarh	084	02(1st)	1.97
Vocational Training Institute	VTI-1	Ward 02	1023,1024, 1025,1026, 1027, 1028,1029, 1030,1031	Daksin Char Fasson	061	03	10.22
Vocational Training Institute	VTI-2	Ward 03	1117,1118	Daksin Char Fasson	061	03	0.44
Total							17.83

### F) Agricultural Zone

Agricultural zone denotes the land suitable for agricultural production, both crops and livestock. It is one of the main resources in agriculture. Out of the total area of Char Fasson Paurashava, the 1832.56 acres areas need to preserve from unplanned development to fulfill objectives sited in various national policies along with the Master Plan. Agricultural zone covers activities related to agriculture and agriculture related production activities; farm, fisheries, pasture, horticulture etc.

### G) Water Body

The plan suggests preserving most of these water bodies for two purposes, first, to serve as source of water, second to serve as water retention area during monsoon. The ponds with an area equal to or More than 0.15 acres will be preserved as the water retention ponds under **'Playfield'**,

**Open space, Park and Natural water reservoir Conservation Act, 2000**. Total 340.05 acres of land proposed for this category. List of permitted landuse under this category has been presented in **Annexure C**.

#### H) Open Space

Open space includes play field / play ground, park, neighborhood park, Stadium, etc. Total 84.03 acres of land proposed for this category. List of permitted landuse under this category has been presented in **Annexure C**. Table 10.8 shows the proposed lands to meet up the demand of projected people.

**Table 10.8: Development Proposal for Open Spaces**

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
Central Park	CP-1	Ward 03	2165,2166,2167,2168, 2169, 2170,2171,2172, 2173, 2176,2177, 2302, 2303,2304, 2342	Dakshin Char Fasson	061	06	8.95
Neighborhood Park	NP-1	Ward 01	1283,1284,1285,1286, 1529,1530,1531,1532, 1533, 1534,1535,536, 1537,1538,1539,1540, 1541,1542,1543,1544, 1545,1546,1547,1548, 1701,1702,1704,1705, 1706,1707,1708,1709, 1710,1711,1712,1713, 1714,1715,1718,1719, 1723,1724,1725,1726, 1727,1728,1729,1730, 1731,1732,1733,1734, 1735	Kulsumbag	083	02	18.87
Neighborhood Park	NP-2	Ward 04	319,320,323,331, 332,1011,1012,1013	Jinnahgarh	084	01, 02	11.20
Neighborhood Park	NP-3	Ward 06	3773,3775,3776,3778, 3779,3781,3782,3784, 3785,3799,3800,3801, 3802	Jinnahgarh	084	03	2.83
Neighborhood Park	NP-4	Ward 07	454,455	Uttar Char Madras	085	01	8.67
Playground	PG-1	Ward 01	1738	Kulsumbag	083	02	2.43
Playground	PG-2	Ward 02	682,689	Daksin Char Fasson	061	03	0.56
Playground	PG-3	Ward 03	2017,2018	Daksin Char Fasson	061	06	2.13
Playground	PG-4	Ward 04	323,331,1325	Jinnahgarh	084	01, 02	2.86
Playground	PG-5	Ward	1429	Jinnahgarh	084	02(1st	1.06

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
		05					
Playground	PG-6	Ward 06	3819,3822,3833,3837,3838,3869	Jinnahgarh	084	03	2.65
Playground	PG-7	Ward 07	417,420,829,830	Uttar Char Madras	085	01, 02	2.90
Playground	PG-8	Ward 08	63,64,65,66,67,68,69	Uttar Char Madras	085	01	2.09
Stadium	S-1	Ward 09	1151,1152,1156,	Daksin Char Fasson	061	03	8.23
Total							75.43

### I) Recreational Facilities

There is no significant recreation facilities has been found as exist. Considering future need about 2.23 acre of land is proposed for recreational purpose. An auditorium is proposed at ward no 4. List of permitted landuse under this category has been presented in **Annexure C**.

**Table 10.9: Development Proposal for Recreational Facilities**

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
Auditorium	A-1	Ward 04	1325,1326,1327,1328,1329,1330,99999	Jinnahgarh	084	02 (1 <sup>st</sup> )	2.23

### J) Circulation Network

Circulation Network refers all kind of public roads along with related facilities; footpaths, walkways etc. and embankment, railway (if exist in the area). According to the Traffic and Transportation Management Plan, about 362.89 acres of land have been proposed for circulation network at Char Fasson Paurashava area for these purposes.

### K) Transportation Facilities

Transportation facilities include Bus / Truck Terminals, Launch Terminal, Other Vehicle Parking Space, Gas/ Fuel Station, etc. Considering projected population, about 23.53 acres of land is prposed for various transportation and communication. For Bus terminal 11.71 acres is allocated.

Table 10.10 shows the proposed transportation proposals to meet up the demand of projected people. List of permitted landuse under this category has been presented in **Annexure C**.

**Table 10.10: Development Proposal for Transportation Facilities**

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
Bus Terminal	BT-1	Ward 06	3910,3915	Jinnahgarh	084	03	11.71
Tempo Stand	TS-1	Ward 01	1116	Kulsumbag	083	02	0.96
Tempo Stand	TS-2	Ward 02	8	Daksin Char Fasson	061	02	0.55
Tempo Stand	TS-3	Ward 04	1002,1325	Jinnahgarh	084	02(1st	0.72
Tempo	TS-4	Ward	1429	Jinnahgarh	084	02(1st	0.84

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
Stand		05					
Tempo Stand	TS-5	Ward 06	3906,3907,3908	Jinnahgarh	084	03	0.23
Tempo Stand	TS-6	Ward 07	670	Uttar Char Madras	085	01	0.20
Tempo Stand	TS-7	Ward 09	1633	Aslampur	60	00	1.88
Truck Terminal	TT-1	Ward 09	912,914,1167	Daksin Char Fasson	061	03	6.45
			1563	Khadejabag	62	00	
Total							23.54

### L) Utility Service

Utility Service includes Solid waste disposal site, waste transfer station, Water Treatment Plant and fire service. Considering projected population, about 20.24 acres of land is proposed for various Utility Services. Table 10.11 shows the proposed lands to meet up the demand of projected people.

**Table 10.11: Development Proposal for Utility Services**

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
Electric Sub Station	ESS-1	Ward 09	1745,1747	Aslampur	60	00	4.09
Fire Service	FS-1	Ward 03	2307,2308,2309, 99999	Dakshin Char Fasson	061	06	2.22
Waste Dumping Ground	WDG-1	Ward 09	1566,1567	Khadejabag	62	00	7.75
Waste Transfer Center	WTC-1	Ward 04	1325	Jinnahgarh	084	02 (1 <sup>st</sup> )	0.42
Waste Transfer Center	WTC-2	Ward 05	334	Jinnahgarh	084	01	0.35
Waste Transfer Center	WTC-3	Ward 06	3751	Jinnahgarh	084	03	1.24
Waste Transfer Center	WTC-4	Ward 07	907	Uttar Char Madras	085	02	0.26
Waste Transfer Center	WTC-5	Ward 09	1406,1409	Khadejabag	62	00	0.36
Waste Water Treatment Plant	WWTP-1	Ward 01	1134,1135,1136, 1137	Kulsumbag	083	02	1.17
Water Pump House	WPH-1	Ward 01	1154	Kulsumbag	083	02	0.91
Water Pump House	WPH-2	Ward 03	2224,2225	Dakshin Char Fasson	061	06	0.29
Water Pump House	WPH-3	Ward 07	837	Uttar Char Madras	085	02	0.66
Water Pump House	WPH-4	Ward 08	94	Uttar Char Madras	085	01	0.58
Total							20.3

### M) Health Facilities

Health Facilities includes hospitals, clinics, maternity clinic, health centers etc. Considering projected population, about 19.82 acres of land is proposed for various Health. List of permitted landuse under this category has been presented in **Annexure C**. Table 10.12 shows the proposed lands to meet up the demand of projected people.

**Table 10.12: Development Proposal for Health Facilities**

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
Health Center	HC-1	Ward 01	1705,1706,1707	Kulsumbag	083	02	2.34
Health Center	HC-2	Ward 02	29,33,755,756,768,1160	Daksin Char Fasson	061	02, 03	2.62
Health Center	HC-3	Ward 03	1976,1982	Daksin Char Fasson	061	06	1.54
Health Center	HC-4	Ward 04	1065,1097	Jinnahgarh	084	02 (1 <sup>st</sup> )	0.30
Health Center	HC-5	Ward 05	1379	Jinnahgarh	084	02 (1 <sup>st</sup> )	0.85
Health Center	HC-6	Ward 06	3772	Jinnahgarh	084	03	1.30
Health Center	HC-7	Ward 07	454	Uttar Char Madras	085	01	2.63
Health Center	HC-8	Ward 08	62	Uttar Char Madras	085	01	1.15
Health Center	HC-9	Ward 09	1101,1104,1105,1109,1110,1114,1167,1168,1668, 1693, 1696, 1701, 1710	Daksin Char Fasson	061	03	5.35
Total							18.08

### N) Community Facilities

Community Facilities includes Mosque/Temple/Church, Eidgah, Community Center and Graveyard. Considering projected population, about 27.38 acres of land is proposed for various Community Facilities. Table 10.13 shows the proposed lands to meet up the demand of projected people.

**Table 10.13: Development Proposal for Community Facilities**

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
Central Eidgah	E-1	Ward 01	1327,1328	Kulsumbag	083	02	4.30
Central Graveyard	G-1	Ward 07	561,659,661,662,663,664,665,668	Uttar Char Madras	085	01	4.14

Community Center	CC-1	Ward 06	3821,3822	Jinnahgarh	084	03	0.72
Community Center	CC-2	Ward 09	2155,2156,2157,2158,2160,2163,2164,2327	Daksin Char Fasson	061	06	3.47
Cyclone Shelter	CS-1	Ward 01	1747	Kulsumbag	083	02	1.33
Cyclone Shelter	CS-2	Ward 06	3757	Jinnahgarh	084	03	1.28
Cyclone Shelter	CS-3	Ward 07	500,501	Uttar Char Madras	085	01	0.99
Cyclone Shelter	CS-4	Ward 08	68	Uttar Char Madras	085	01	0.86
Mosque	M-2	Ward 09	1071,1564	Daksin Char Fasson	061	03	0.44
Slaughter House	SH-1	Ward 01	1792	Kulsumbag	083	02	1.18
Slaughter House	SH-2	Ward 05	1409,1410,1411,1412,1413,1414,1415,1416	Jinnahgarh	084	02(1st	0.85
Slaughter House	SH-3	Ward 07	906,908	Uttar Char Madras	085	02	0.56
Slaughter House	SH-4	Ward 08	264	Uttar Char Madras	085	01	1.26
Total							21.38

#### **O) Urban Deferred**

Urban deferred area includes potential land reserved for future use. Standard shows 10% of total built-up land should be used as Urban Deferred area. According to it, 601.49 acre land has been conserved for this purpose.

#### **P) Mixed Use Zone**

Mixed land use refers to the area without dominant land use (Residential, commercial, industrial etc.). In landuse plan, about 21.39 acres land is designated for mixed use.

#### **Q) Miscellaneous Zone**

There are some lands of 2.59 acres area not related with the above categories or the any 23 categories of Planning standard provided by PMO.

### **10.2 Land Use Zoning**

Zoning is a classification of landuse that limits what activities can or cannot take place on a parcel of land by establishing a range of development options. Zoning has been defined as an action through legislation provided to a development authority/Paurashava to control a) heights to which buildings may be erected; b) the area of lots that must be left un-built upon; and c) the uses to which buildings may be constructed.

#### **10.2.1 Area / Use Zoning**

The objective of area zoning is to specify which types of landuse are considered appropriate for different areas or 'zones', and it therefore indicates the planning control objectives of the authority or municipality for its administrative area. The authority is obliged under the planning acts to

designate in its development plan objectives for the use solely and primarily of particular areas for particular purposes.

The zoning is defined as the regulation by law of the use of land and buildings and of the height and density of buildings in specific areas for the purpose of securing convenience, health, safety and general welfare of the community. Thus, the term zoning is used to include two aspects of planning- allocation of land for specific purposes and control of the use, height and construction of the buildings.

Though the future land requirements are the first priority of planning for a city but considering the existing land use there should be provision of zoning. The zoning will demarcate specific land use for a specific zone or area. The zones are usually classified into the following four categories with suitable sub-divisions in each zone:

- a. **Residential zone:** the character and location of this zone will depend on various factors such as nearness to the markets; freedom from nuisance, noise and smoke; nearness to parks and playgrounds etc.
- b. **Commercial zone:** this zone should be near the centers of traffic and preferably it should about the roads. It includes the uses of land for banks, offices, godowns, shops etc.
- c. **Industrial zone:** great care should be exercised in providing units of industrial zone in various part of the town. The light industries and factories running on electric power and causing no nuisance to nearby areas may be allowed to be set close to residential areas. On the other hand, the heavy industries giving out obnoxious gases and fumes and developing noisy atmosphere may be placed on the outskirts of the town.
- d. **Recreational zone:** This zone includes mainly parks and playgrounds and in a broad sense, it may be considered to include various recreational centres such as cinemas, theatres, town halls, clubs, libraries, restaurants, stadium and other community needs.

Besides these any special land use can get special emphasis on the basis of its intensity, significance on local, national economy etc.

### 10.2.2 Density / Bulk Zoning

Aim of the density zoning is to provide an acceptable density which is related to the designed facilities and amenities especially for the residential areas. This will ensure a healthy community and enjoyable community life. In a particular area, how much number of buildings will be permitted and constructed, the decision is under the density zoning. Provisioning of setback rule and percent of land uses for different purposes is the prime consideration of density zoning. The proposed percentage mentioned in the landuse table is the only tool to control building density in the Paurashava.

### 10.2.3 Height Zoning

This zoning provides height limits for structures and objects of natural growth and standards for use of an area which encourage and promote the proper and sound development of areas. It is also applicable to height restrictions for flight safety around airports or other similar purposes. For effective development control, in addition landuse zoning individual facility and the structures therein is complied certain regulations imposed to ensure desirable end. Relation between ground cover of buildings and the land parcel that house it, minimum setback of building from the adjoining plot boundaries and the maximum floor area that can be constructed in relation to plot size and the connecting road among many other details, are controlled by Building Construction Rules 1996.

According to the Building Construction Rule, 1996, minimum permissible road width for obtaining plan permission is to shown, construction is allowed on plots connected by narrow roads provided the plot owner leaves formally half of the addition area needed to make the road 6m for widening the road to the permitted minimum. Perhaps the intension behind this was that gradually the whole road would rise up to 6m in short time and it is true for new areas. But congested unplanned area represents an alarming picture. In commercial area, most of the plots are occupied almost entirely by pucca structures covering the property line connected by the narrow pathways. Those owners did not bother for Paurashava's plan permission and a handful of those who obtained plan

permission did not care to follow them. It is suggested that existing rules need to be modified to tackle the environmental problems created by illegal building construction.

### **10.3 Plan Implementation Strategy**

#### **10.3.1 Land Development Regulations to Implement the Landuse Plan**

Effective implementation of a plan is the most important part of the planning process. The process of Implementation needs to be carried out with care and efficiency in order to produce best outcomes. This chapter highlights various measures needed to be taken in order to implement the landuse plan proposals.

Implementation of the Landuse Plan depends on successful pursuit of the policies specified in the Structure Plan. Those policies represent a significant challenge face with the responsibility of planning and managing the development of the Paurahava area. However, at present no authority is responsible for planning and managing physical development activities in the Paurahava and no regulation except Local Government (Paurahava) Ordinance, 2009 for controlling physical development. This poses a serious constraint to the implementation of the Landuse Plan and in fact any other form of development plans.

The factors that have been taken into account in deciding the priority include such things as – the importance of the issue that the policy addresses, its potential impact on the lives of the population, the ease with which it can be implemented, its urgency and its interdependence with other policies.

Prior to introduction of the regulations to implement the landuse plan, legislative involvement is recommended here.

1. To control the air, water, noise and soil pollution, Conservation of Environment and Pollution Control Act, 1995 (Act No. I of 1995) was enacted. In the Paurashava, there is no authority for enforcing the provisions prescribed in the said Act. The pollution related with the implementation of landuse component may be controlled with this Act.
2. Impose control on all type of buildings in the Paurahava according to the setback rule prescribed in the Building Construction (Amendment) Rules, 1996 (Notification No. S. R. O. No. 112-L/96). Building permission for extended areas shall be according to the landuse provision prescribed in the plan. Any permission for building construction, front road width shall not be less than 16 ft. and the construction must follow the Building Construction (Amendment) Rules, 1996.
3. Haphazard development of commercial activities is the general scenario of the Paurahava. It is necessary to impose control on commercial activities provisioned in the Shops and Establishments Act, 1965 (Act No. VII of 1965).
4. In case of man-made canal, regulations prescribed in the Canal and Drainage Act, 1873 (Act No. VIII of 1873) is the best weapon. For the linking of canal with others and river considering drainage facilities the Act may be enforced.
5. For the conservation of archeological monuments or structures or historical development the Ancient Monuments Preservation Act, 1904 (Act No. VII of 1904) may be enforced. Archeological Department of Bangladesh and Paurahava authority through a partnership process may preserve such type of development.
6. To control air pollution due to brick burning with the establishment of brick field, Brick Burning Control Ordinance, 1989 (Ordinance No. VIII of 1989) is the appropriate regulation. The Paurashava authority may enforce this Ordinance with the authorization given by the government to him.
7. To control the medical practitioner, establishment of private clinics and pathological laboratories, the statute named Medical Practice, Private Clinics and Laboratories (Regulation) Ordinance, 1982 (Ordinance No. IV of 1982) was enacted. For efficient enforcement of the Ordinance, the Paurashava authority may execute the Ordinance with the authorization of government.
8. The Paurahava will have to exercise strictly Playfield, Open space, Garden and Natural Tank in Urban Areas Preservation Act, 2000 (Act No. XXXVI of 2000) to some specially important



areas like, riverfront and water bodies, drainage channels, low land below certain level, designated open space, etc. Development restrictions are needed around security and key point installations. The provision of restriction will strengthen the power of the plan to safeguard its development proposals and landuse provisions.

9. The government is authorized for establishment of hat and bazar with the acquisition of land through the statute named Hat and Bazar (Establishment and Acquisition) Ordinance, 1959 (No. XIX of 1959). In case of private hat and bazar, a management body is being empowered through the Bangladesh Hats and Bazars (Management) Order, 1973 (P.O. 73/72). The Paurahava authority is also empowered establishing hat and bazar in his jurisdiction through the Local Government (Paurahava) Ordinance, 2009. Coordination may be framed among the government (Upazila Parishad), Paurashava and private owner for the establishment, development and management of the hat and bazar located in the Paurashava premises.
10. In the Paurashava premises, industrial development is controlled by the Bangladesh Cottage Industries Corporation through Bangladesh Cottage Industries Corporation Act, 1973 (Act No. XXVIII of 1973), Industrial Development Corporation through East Pakistan Industrial Development Corporation Rules, 1965 (No. EPIDC / 2A-2/63/354) and Factory Inspector through Factories Act, 1965 (Act No. IV of 1965). Locational aspects and issuing of trade license is controlled by the Paurashava authority. A joint coordination cell among those four authorities may control the establishment of factories and industries in the Paurashava.
11. In the Paurashava, for rain water harvesting, some specific ponds / tanks will needed to be preserved. A number of derelict tanks may be improved through tank improvement project and in this case Tanks Improvement Act, 1939 (Act No. XV of 1939) will support the Paurahava is regulatory aspects.
12. Except Khas land, a considerable amount of public land in the Paurashava may be identified as fallow land or unproductive land. In regulatory term those lands are considered as cultivable waste land and those lands are being fallow during five consecutive years. Those lands may be utilized under the guidance of Cultivable Waste Land (Utilization) Ordinance, 1959 (Ordinance No. E.P. XIII of 1959).
13. The Paurahava should raise its efforts on the imposition and realization of betterment fees to raise its income. In this case, East Bengal Betterment Fees Act, 1953 may be enforced.

### 10.3.2 Implementation, Monitoring and Evaluation of the Landuse Plan

**Implementation through Multi-Sectoral Investment Program:** Major infrastructure development works such as primary roads, water supply, drainage, etc., will largely be controlled by Government. Public works requires efficient co-ordination through the Multi-Sectoral Investment Programme (MSIP).

Objective of a Multi-Sectoral Investment Programme (MSIP) will match a list of the development projects with the funding stream necessary to implement them. There are two basic activities that would determine the contents of MSIP. One activity would be to prioritize and schedule the investment projects of all public agencies so they will collectively help to achieve the development goals and objectives of the Landuse Plan. Second activity would be to analyze the source and availability of fund for the prioritized list of development projects.

**Implementation through Action Plans and Projects:** Action Plans and Projects will be the implementation plans to solve problems at the local level. Action plans will take a direct approach toward plan implementation with a minimum of research, reports or elaborate planning methods. These projects will be easily identifiable and will require minimum resource.

**Implementation through Development Control:** Landuse zoning is one of several methods of plan implementation to be considered. In all cases where some form of development, landuse control may be applied; careful consideration requires the following ideologies:

- purpose to be achieved by the development controls;
- where controls should be applied;

- what aspect of development needs to be controlled;
- what type of development controls are required;
- what degree or level of development control is required;
- who will be affected by the required control;
- who will be affected by the controls and in what manner;
- when the controls should be applied;
- what will be the likely impact of the controls;
- how and by whom will the controls be administered and enforced.

Development control as an instrument of plan implementation may be selectively applied within the Landuse Plan. Development controls would also be varied in intensity and detail to suit the particular circumstances. It is important that they should be clear and easily understood by all parties concerned. Since the entire Paurashava Master Plan 'package' has become statutory, development controls associated with its component plans would also be statutory.

**Implementation by Facilitating Private Investment:** Another approach that would be taken by government toward plan implementation will be to guide and facilitate investments made by the private sector. Government can achieve this with relative ease and at very low cost by setting up a legal and operational framework, coupled with suitable incentives, to facilitate land consolidation, plot boundary readjustment, efficient lay out of plots and provision of local infrastructure by the private sector. The benefits of this approach would be:

- increased efficiency of the urban land market would make, more private land available to urban households;
- would pass much of the development costs for local infrastructure to the private sector and land market mechanisms;
- would increase in land for development without large cash outlays by government to purchase land for development schemes; and
- would keep provision of land for community facilities virtually no cost to government.

### **Plan Monitoring**

The Landuse Plan would simply be tools for guiding and encouraging the growth and development of the Paurahava in a preferred manner. In a rapidly changing urban environment, the Landuse Plan would require to keep up to date. If this is not done, within a few years it will be obsolete. Therefore, it is imperative that the requirement for regular updating of the Landuse Plan be made a legal requirement.

For implementation of the various programme components of the Landuse Plan appropriate administrative measures will have to be undertaken. This will essentially include project preparation and monitoring of their execution and evaluation. For carrying out all these activities appropriate institutional measures are also needed.

### **Evaluation**

Monitoring and evaluation of ongoing and implemented projects is essential to keep the future course of action on the right track. An ongoing project should be regularly monitored and handicaps identified to enable taking appropriate measures at the right time.

Post implementation evaluation is also needed to take appropriate measures correcting past errors-from project preparation to implementation.

The top level supervision has to be done by a high level supervisory committee headed by Paurahava Mayor, LGED representative and Local Government Ministry. Other members of the committee will be local Ward Councilors, local community leader/social workers and the Town

Planner of the Paurahava. The committee will supervise implementation works regularly and issue necessary instructions to expedite the works of implementation.

**Co-ordination**

A Planning Section of Paurahava should have close interaction with the citizen of Paurahava at large in order to make people aware of the benefits of a good plan and, therefore, their social responsibility to promote plan implementation in one hand and also resist contraventions on the other. A specific interactive cell is recommended to operate in this regard with following responsibilities:

- Provide pre-application advice to residents, consultants and developers about landuse management issues and application procedures for the submission of development applications.
- Enforce planning and landuse management related legislation and zoning scheme regulations.
- Issue of property zoning certificates.
- Investigate and resolve landuse management complaints, illegal landuse and prosecuting contraventions.

Such interactive windows may be opened in various convenient locations to ensure ease of the answers to commonly asked questions may be shown in the internet. Besides, those may be shown in the print and electronic media time to time.

In spontaneous areas, while all out people's co-operation is needed for project implementation; there will also be some elements of negotiation. Negotiation will be particularly needed in case of road widening projects. It will be a crucial task for Paurahava to convince the affected people to give up their land for road use. Efforts should be made to convince the land owners on the ground of enhancement of property value due to road widening. In case people refuse to offer land free of cost necessary arrangements may have to be made for payment of compensation. This process of negotiation will be very critical, cumbersome and time consuming, and therefore, has to be handled with utmost care and patience. The best results can be accrued only by winning people's confidence. In case the authority fails to get peoples co-operation they should exercise power of compulsory acquisition of land. Attempts may be made to engage NGOs / CBOs to work as catalysts in negotiation.

## **Chapter - 11**

# **TRANSPORTATION AND TRAFFIC MANAGEMENT PLAN**

### **11.1 Introduction**

Transportation occupies a high place in modern life. Transportation has great influence in the advancement of all spheres of life. Transport planning is a science that seeks to study the problems that arise in providing transportation facilities in an urban, regional or national setting and to prepare a systematic basis for planning such facilities. Town and country planning is a science that deals with the study of the urban or country "system" communications through channels. Transport planning is an important part of overall Town and Country Planning, since it deals with the transport network which is an important channel of a communication. Transportation and Traffic Management Plan is one of the Components of Urban Area Plan.

In Bangladesh, Transport Planning is not in practice still. Recently, government has developed the National Land Transport Policy, 2004 in order to provide a safe, integrated, effective transport system. Also, attempt has been taken to link relationship with land, economic activities and road network development. In preparing the Traffic and Transport Management Plan (Component-2) for Char Fasson Paurashava under Urban Area Plan (Volume-II), the Survey Phase and Interim phase has been completed successfully. In precedence of these activities, this plan is incepted.

### **11.2 Approach and Methodology**

Transport study provides special attention to urban transportation planning as it greatly influences the location decisions and travel behavior of people, goods and services. Transportation is critical for the efficiency of towns contributing to their productivity and economic growth. A good network of roads and other transportation mode coupled with an efficient transport management system makes a substantial contribution to the "working efficiency" of cities and towns and enables them to become catalysts for social and economic development. On the other hand, the impact of a poorly designed urban transport system is manifested in terms of traffic congestion, delays, accidents, high energy consumption, high pollution of the environment and inequitable access to services. A well-planned transportation system results in orderly urban growth, greater use of urban public transport, lower vehicular pollution, and shorter auto trips.

A comprehensive transportation study is undertaken to investigate the existing transportation infrastructure, transportation modes and modal share scenario of Char Fasson Paurashava and to estimate the anticipated transportation needs of the town up to the year 2031. Accordingly, the transportation study is conducted to determine the present travel patterns and the characteristics of existing transportation facilities to forecast the future travel demand and develop a transportation plan.

Standard methodology was followed for traffic study in the project area as per the Terms of Reference. A nine hour traffic counting was conducted to assess the traffic volume at the most important traffic point, the zero point of the town at Char Fasson Paurashava. An origin destination (O-D) survey was also conducted at the same point where origin and destination of the traffic passing through this point of the town were recorded. Speed and Delay survey has been done at 6 points on major local roads.

Bus and tempo fleet data were collected from local transport owners' offices like, Bus Owners' Association, Tempo Owners' Association. They also provided information about routes, trips and movement data. Information about bus station and tempo station were collected from the respective owners' association and the Paurashava/District Administration. Year wise data of non-motorized traffic were collected from the Char Fasson Paurashava, where these vehicles are registered.

### 11.3 Existing Conditions of Transportation Facilities

This section describes existing transportation facilities namely roadway and water way characteristics, modal share of vehicular traffic, level of service which incorporate degree of traffic congestion and delay and analysis existing deficiencies in transport sector of Char Fasson Paurashava.

#### 11.3.1 Road Network

##### 11.3.1.1 Roadway Characteristics and Functional Classification

The primary roads are the urban highways whose function is to channelize the longer movement from one place to another and beyond. The primary road of Char Fasson Paurashava is well connected with Lalmahan, Daulatkhan, Burhanuddin and Bhola and these roads maintain connectivity with the outside areas of Paurashava. Moreover, the primary roads are also connected with secondary and access roads and all these roads maintain good connectivity within the Paurashava area. Secondary road cannot provide access to individual buildings because the consequent frequency of interruptions would give rise to traffic dangers. Tertiary road connect secondary road with access road. But in Char Fasson Paurashava most of the roads cannot be defined according to road hierarchy.

From the physical feature survey it has been observed that about 39.51% (41.16km) of the roads are Pucca, 46.63% (44.82km) roads Kutcha and the rest of the roads are Semi-pucca (16.29km). Moreover, there is 543.34meter footpath at ward no. 4. Char Fasson Paurashava has no embankment. All the bridges are pucca and condition of pavement are good. There are 9 bridges, 49 box culvert and 2 pipe culverts at Char Fasson Paurashava covering all the wards. **Map 11.1** shows existing road network of Char Fasson Paurashava.

**Table 11.1: Type wise length of Road**

Types of road	Length (in km)	%
Kutcha	46.63	44.82
Pucca	41.16	39.51
Semi pucca	16.29	15.66
<b>Total</b>	<b>104.05</b>	<b>100.00</b>

Source: Physical Feature Survey, 2011

From the origin-destination survey it has been observed that Char Fasson Bazar Moar and Roads & Highway Office More are the major traffic generation and congestion centers of Char Fasson Paurashava because these are the most important and activity generating locations of the study area. Growth centre, different educational institutions and offices are located in and around of these locations. Also from the traffic volume survey it has become clear that Char Fasson sadar road has the highest average daily traffic volume.

Water transport network of Char Fasson Paurashava has significant importance in both carrying people and goods. Only one launch is used for carrying both passenger and commodity. The launch serves people mainly in one route and also carry various commodities such as different raw materials, vegetables, stationary goods, etc from Char Fasson to Bhola, Barisal.

##### 11.3.1.2 Mode of Road Transport

Transportation and Traffic Management Survey results reveal that no public or private bus service is available for internal movement of passengers at Char Fasson Paurashava. Intra city traveling is mostly done through van, motor cycle, tempo and a small number of rickshaw, etc. Additionally, van is used for carrying both passengers and goods. The average percentages of traffic composition are Bus 0.25%, Truck 0.18%, Car/micro-bus/Jeep 0.31%, Auto rickshaw 5.27%, Motor cycle 7.28%, Rickshaw/van 68.14% and Bi-cycle 18.57%.

Moreover, water transport is also available to carry both passenger and commodity. In plan preparation land transportation has given significant importance and road network has designed considering the alternative mode (waterway network).

### 11.3.1.3 Intensity of Traffic Volume

Traffic volume survey has been conducted at two major intersection comprising six road links that are the dominant traffic generating links of Paurashava Area. There is two bus stands in Char Fasson Paurashava.

Peak Hour has been considered from 8.00 to 12.00 and 16.00 to 20.00 because most of the educational and commercial movement has been accomplished within the time periods and traffic characteristics of these time periods is different and higher than other time periods.

As there is a designated day as hat day in Char Fasson Paurashava, working day, weekend and Hat day traffic volume is counted for transportation survey. Survey result shows that non-motorized vehicle (86.71%) acts dominant role in Char Fasson Paurashava.

Figure 11.1 state that Char Fasson Sadar Road has the highest Peak Hour Traffic Volume of 409.1 PCUs per hour whereas Hospital Road has the lowest 270.3 PCUs per hour. Analyzing the characteristics of Peak Hour and Off Peak Hour traffics, it has been observed that the Peak Hour Traffic is more than 2 times higher than Off Peak Hour Traffic in all of the surveyed road sections.

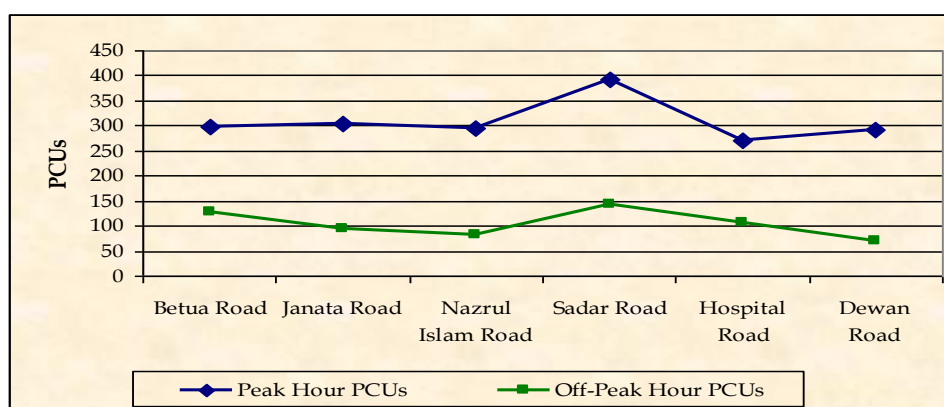


Fig 11.1: Variations of Peak Hour and Off-Peak Hour PCU's

There is also traffic volume variation at hat day and non-hat day. Generally hat time starts from afternoon. So, variation of traffic volume also exists. In case of hat day it has been observed that specially the five road links that are connected with bazaar area face peak hour traffic volume 8.00-12.00 and 16.00-20.00. Figure 11.2 shows the time wise variation of traffic volume at 6 different survey locations.

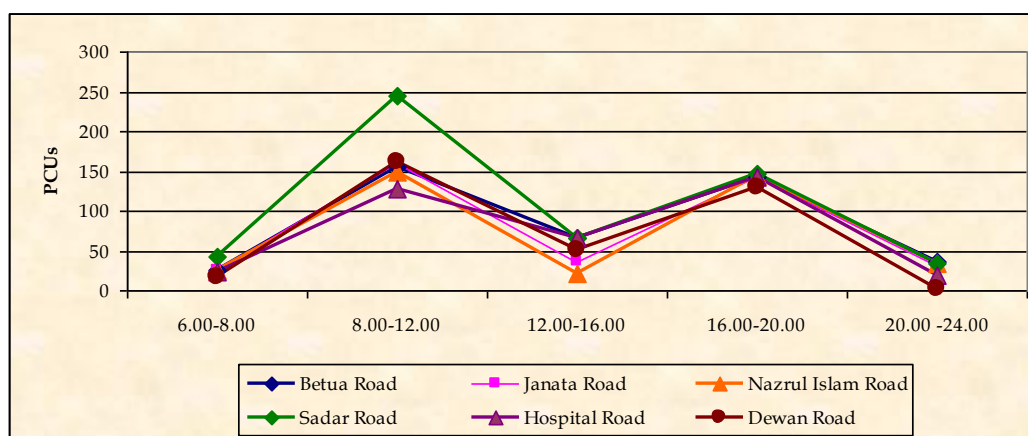


Fig 11.2: Time Wise Distributions of PCUs

### 11.3.1.4 Level of Service: Degree of Traffic Congestion and Delay

In order to prepare a fruitful traffic management plan, it is really important to evaluate the level of service of the road sections. Level of service of the surveyed road sections has been evaluated using the ratio of volume and capacity. The V/C ratio is defined as the ratio of maximum actual volume of traffic in the peak hour in a road way, expressed in PCUs per hour to capacity of that roadway expressed in PCUS per hour. Capacity of roadway largely depends on number of lane,

road width and roadway condition. In Char Fasson Paurashava area all the surveyed road sections are one lane road. In Char Fasson Paurashava all the roads have free flow and transport density is low. The major inter sections are not signalized so no delay is exist here.

#### **11.3.1.5 Facilities of Pedestrians**

Pedestrian facility is one of the Transportation facilities which are required to create a pedestrian friendly environment. In Char Fasson Paurashava, no footpath or pedestrian facility is available for the resident that is one of the vital needs for urban life.

#### **11.3.1.6 Primary Considering Issues for Planning**

Major deficiencies of transportation and traffic management are below:

- Present road network has developed without maintaining any hierarchy or planning rules
- Most of the vehicle are moved in this Paurashava are without fitness.
- Narrow road and lack of transport modes are another transportation problems of the area
- Absence of stand and proper parking spaces grounds haphazard condition and congestion.
- Absence of signalized crossing.
- Unbalanced relationship between traffic and landuse.
- The Paurashava has no pedestrian facility that directly hampers the safety of the people
- Lack of traffic control aids, street furniture, street lighting, etc.
- Water transport vehicles are not adequate and service quality is not satisfactory

#### **Roadway Capacity Deficiency**

Roadway Capacity deficiencies occur wherever the travel demand on a road is close to or higher than the vehicle capacity of that roadway. In order to identify the road capacity deficiency, it is required to make a comparison between existing Level of service (LOS) of major roads with the standard one. By comparing those it has observed that all the surveyed roads of Char Fasson Paurashava have free flow and transport density is low. Existing capacity of major roads are not consistent with standard capacity limit and the future traffic flow and demand may exceed the limit.

Moreover, the average width of the primary roads and secondary roads of Char Fasson Paurashava are from 6-17.33 whereas according to the PMO standard the right of way of primary road, secondary road and access road will be 18-24 meter, 13-16 meter and 6-8 meter respectively. So these roads have designed without maintaining any standards. However, these roads have to be widened where possible and essential.

#### **Operational, Safety, Signal and other Deficiencies**

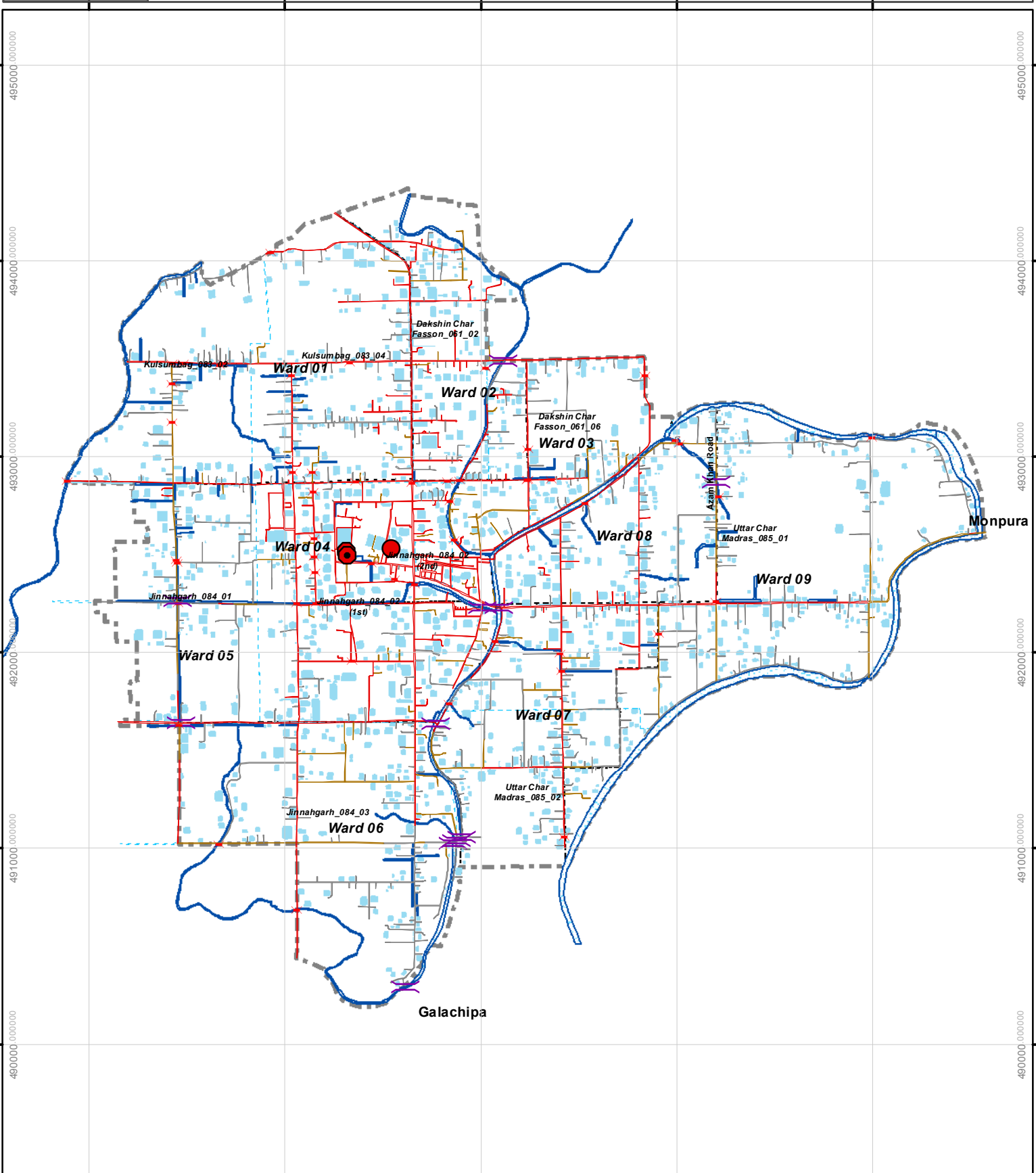
- At present, there is no selected authority for the management of traffic at Char Fasson Paurashava. Generally The Police Department's Traffic wings are the main eligible.
- As the roads of Char Fasson Paurashava have free flow of traffic and most of the traffic are non-motorized both in hat and non-hat day, road safety exists naturally in the Paurashava.
- Traffic signaling system is totally absent in the Paurashava. On some specific point of primary and secondary roads, traffic signaling may be needed.

#### **11.3.2 Condition of Water Transport**

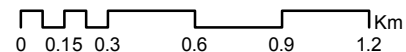
Water transport network of Char Fasson Paurashava has significant importance for carrying both passenger and commodity frequently. The launch service serves the route Char Fasson to Pirojpur, Barisal, Dhaka. Water transport network of Char Fasson Paurashava has major importance in both carrying people and goods. There is no launch ghat within Paurashava area.

#### **11.3.3 Condition of Other Transport**

There is no existence of railway and airway network at Char Fasson Paurashava.



PREPARATION OF MASTER PLAN FOR CHARFASSON PAURASHAVA



### Legend

- |                          |               |                |                  |
|--------------------------|---------------|----------------|------------------|
| — Paura Boundary         | ✕ Box_Culvert | ● Paura Bhavan | — Pucca Road     |
| - - - - - Ward Boundary  | ∩ Bridge      | ● UP Office    | — Semipucca Road |
| - - - - - Mouza Boundary | ■ Waterbody   |                | — Katcha Road    |



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## **11.4 Future Projections**

With the increase of population, demand on travel will be increase with the time. Estimating the demand for transportation facilities and services is one of the most important analysis tasks in transportation planning. The demand includes not only passenger travel but also the movement of goods. Whether conducting a regional transportation planning study or examining the impacts of transportation of a new development site, estimating expected travel demand at some future date is critical point of departure for transportation planning.

### **11.4.1 Travel Demand Forecasting for Next 20 Years**

At Char Fasson Paurashava, the existing road network is quite sufficient for accommodating present volume of traffic. At Char Fasson Paurashava about 44.82% of the roads are kutcha and needs to be constructed as pucca or at least semi-pucca. Moreover, most of the roads are narrow. Road Alignment should be straight in main road for improving transport quality. Widening of these roads and new construction of some roads will act as a vital role for accommodating future traffic volume. Moreover, the people of Char Fasson Paurashava depend on both road network and water transport network. This will also help to reduce pressure on road transport network. Forecasting travel demand requires variety of data such as historical data on traffic, missing link, economic importance, trip generation and distribution pattern, routes choice, modal split, etc. Growth direction is also a considerable component for the demand analysis of the road.

### **11.4.2 Transportation Network Considered**

The primary road of Char Fasson Paurashava is well connected in both north south and east west directions within the Upazila areas and the primary roads are also connected with secondary and access roads and all these roads maintain good connectivity within the Paurashava area. But these roads are not wide enough on the basis of standard. So, the narrow roads have to be widened on the basis of standards and katcha roads will be improved with the time and also traffic management system will be improved. Besides, some new roads also have been proposed to accommodate the future travel demand. Moreover, footpath facilities have to be introduced to meet up the demand of pedestrians.

### **11.4.3 Future Traffic Volume and Level of Service**

In the year 2011, the population of Char Fasson Paurashava is about 19,595 and after 20 years it will be 30340 (2031). At present highest PCU/hr is about 257.2 at non-hat day and at hat day is about 877.4. It means traffic congestion is not alarming.

It is expected that gradual implementation of the components prescribed in the Master Plan will increase traffic volume. But at the same time the roads will be widened and new roads will be constructed. So, the increase traffic will be accommodated by these roads.

After the improvement of roads, commercial and industrial activities will also be boost up. This may increase traffic volume of the area. The proposed transport network and traffic management system will make it possible to remain the traffic scenario stable for next 20 years.

## **11.5 Transportation Development Plan**

The current chapter of the report is about Transport Development Plan covering its development plan proposals and management of the proposed project area up to the year 2031. The report describes existing transportation facilities and proposal on the important facilities such as, bus terminal, truck terminal, rickshaw/van stands, baby taxi/tempo stands and passenger sheds for local bus users.

### **11.5.1 Road Network Plan**

The road network should be planned providing adequate access for vehicles and pedestrians and also be formed an efficient system of inter-communication among all parts of the area. To fulfill

these requirements, the network should follow a standard hierarchy. The Road network Plan of Char Fasson Paurashava has been prepared by following the functional road hierarchy.

Definition of different Road Hierarchy			
Primary Road	Secondary Road	Tertiary road	Access road
These are the urban highways (including arterial roads, ring roads and radial roads etc.) whose function is to channelize the longer movements from one part of the city to another and beyond. Dhaka Kuakata Road are this type road. The fundamental design requirements for this type of roads are: <ul style="list-style-type: none"> <li>▪ should have minimum number of intersections at which local traffic enters the Primary road</li> <li>▪ they cannot be used for giving access to individual building or property</li> </ul>	They lead off from the form the Primary Road and usually feed down to Tertiary roads. In proposed and existing roads are this types. <ul style="list-style-type: none"> <li>▪ they cannot be used for giving direct access to individual building because the consequent frequency of interruptions would give rise to traffic dangers</li> <li>▪ High Speed cannot be permitted of the multiplicity of road junctions</li> </ul>	They usually connect the Secondary Roads with the Access Roads. <ul style="list-style-type: none"> <li>▪ they collect and distribute traffic to and from access Roads, housing groups and even individual houses</li> <li>▪ High speed traffic and through traffic is discouraged</li> </ul>	The sole function of access roads is to provide access to houses and properties. They usually connect individual houses with Tertiary Roads.

Reviewing different previous planning proposals after discussions with experts and officials of this project a set of standard for basic infrastructure and services has been finalized, which are as follows:

**Table 11.2: Standards of Roads proposed by PMO**

Landuse Category	Hierarchy of Roads	Right of Way (ROW)
Circulation Network	Primary Roads	150-100 feet
	Secondary Roads	100-60 feet
	Tertiary Road	20-40 feet

Source: UTIDP, PMO, LGED

Char Fasson is a small town with a very low volume of internal and external traffic movement. Considering traffic volume and discussion with Paurashava authority and local stakeholders consultants have established a road hierarchy based on the functional area within the Paurashava as well as the internal and external linkage. Existing Access roads will be connected with Tertiary and Secondary roads for better mobility. Following table shows the standard of future development of road network.

**Table 11.3: Standard for future development of the Road Network of Char Fasson Paurashava**

Landuse Category	Hierarchy of Roads	Right of Way (ROW)
Circulation Network	Paurashava Primary Roads	80-100 feet
	Paurashava Secondary Roads	30-60 feet
	Paurashava Access Roads	20 feet

Source: Proposed by Consultants

### 11.5.2 Design Principals and Standards

In preparing detail design some basic principals have been followed:

- Road Hierarchy Standards provided by PMO

- Relevant regulations of Building construction Act, 1952 (amendment in 1996), followed by Paurashava
- follow up the National Urban Land Transport Policy, 2004
- follow up the Transport planning relevant Books, articles and papers (Ref: Traffic Engineering and Transport Planning, Dr. L.R. Kadiyali)

#### A) Intersection improvement

This measures can be categorized into 2 types, are as follows:

- Channelization
- Improvement of Intersection geometry

##### a. Channelization

Channelization of intersection at grade is the separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands, or other suitable means to facilitate the safe and orderly movements of both vehicles and pedestrians. Channelization is done for:

- Separation of conflicts (by using roundabout, raised island, etc.)
- Reduction of conflict points
- Reduction of excessive pavement areas

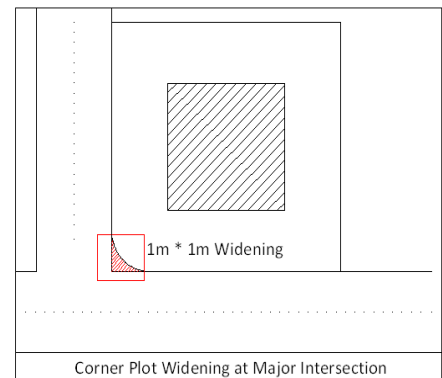
##### b. Improvement of intersection geometry includes:

- Corner Plot widening
- Establishment of Traffic islands

According to Building Construction Act, 1996, in each Corner plot of major intersection, 1m x 1m land area has to be open for traffic movement.



**Fig 11.3:** Channelization Measures at Major Intersections



**Fig 11.4:** Corner Plot Widening at Intersections

#### B) Land use Proposals at the Major Intersections

According to Building Construction Act, 1996, the construction permission of Shopping Complex, Cinema Hall or similar type of buildings are restricted within 50 m (164 ft) from major road intersections to avoid traffic congestion.

#### C) Prioritization in ROW Space Allocation according to Road Hierarchy

In pertaining with the National Land Transport Policy, 2004, for promoting an efficient road transport system, provision of Motorized and Non-motorized vehicles is prioritized. Therefore, effective road space allocation and utilization is also emphasized in national policy. At first, a uniform priority has been fixed for designing the whole Road Network Development.

##### Basis of Prioritization


Prioritization has been formed in light of National Land Transport Policy, 2004.

- To promote the speed and mobilize the activities, motorized vehicles (especially Bus lane) are encouraged

- To make a environmental and economical balance (employment pattern and Income level), provision of non-motorized vehicles are kept
- To ensure safe movement of citizens, footway should be provided

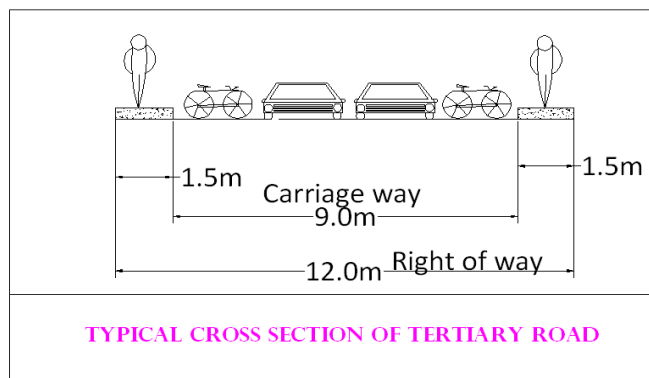
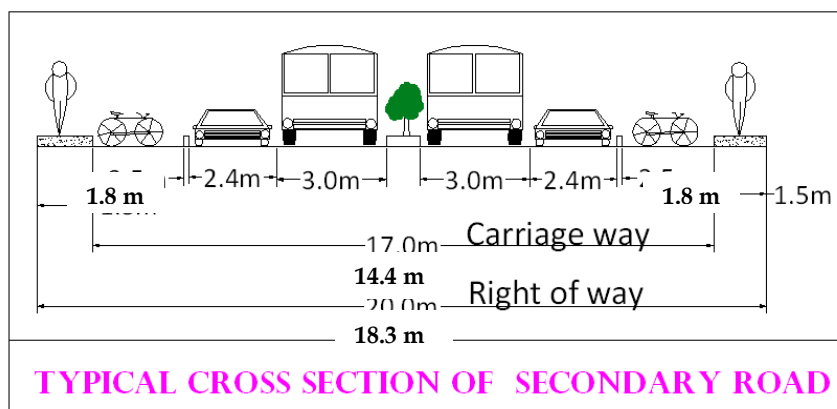
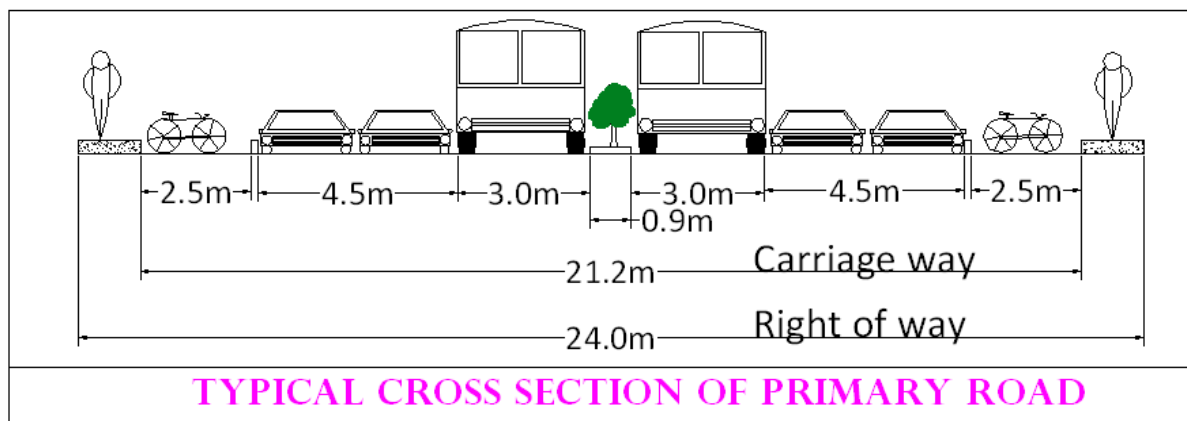
Though, uniform space allocation is formed but Right Of Way (ROW), land use and the demand of different type of vehicles are not same throughout the whole Paurashava area. So, the design priority has been differed at road hierarchy as follows:

#### Space Allocation at ROW considering Road Hierarchy



Priority	Primary Road	Secondary Road	Tertiary Road	Access Road
1	Provide one lane (3.0m) for motorized vehicles including Bus, Car and Jeep etc. The width of each lane is minimum 3 m depending on the availability of space.	Provide one lane (3.0 m) for motorized vehicles including Bus, Car and Jeep etc. The width of each lane is minimum 2.5 m depending on the availability of space.	Provide one lane (3 m) for motorized and non-motorized vehicles including Car, Jeep, Motorcycle and Rickshaws etc. The width of each lane is minimum 2.5 m depending on the availability of space.	Provide one lane (3 m) for motorized and non-motorized vehicles including Car, Jeep, Motorcycle and Rickshaws etc. The width of each lane is minimum 2.5 m depending on the availability of space.
2	Non-motorized vehicle paths (Service lane), 2.5m wide in each direction with over-taking lane including physical segregation of .5ft wide and 1ft height concrete block.	Non-motorized vehicle paths (Service lane), 2.5m wide in each direction with over-taking lane including physical segregation of .5ft wide and 1ft height concrete block.	Pedestrian paths as per existing demand (minimum 1.5 m)	Pedestrian paths as per existing demand (minimum 1.5 m)
3	Pedestrian paths as per existing demand (minimum 1.5 m)	Pedestrian paths as per existing demand (minimum 1.5 m)	Provide one lane for motorized and non-motorized vehicles including Car, Jeep, Motorcycle and Rickshaws etc. depending on the availability of space.	
4	2 to 3 or more lanes for motorized vehicles. The width of each lane is minimum 2.5m depending on the availability of space.	2 to 3 lanes for motorized vehicles. The width of each lane is minimum 2.5m depending on the availability of space.		

Figure 11.5 shows the cross section of different types of roads.



**Fig 11.5:** Typical Cross-Section of Various Types of Roads

### 11.5.3 Proposal for Improvement of the Existing Road Networks

The improvement plan for existing road network has been prepared considering two categories, which are as follows:

- A. Roads connect Paurashava with Regional Road Network
- B. Roads provide internal network of the Paurashava

All of the Road Should be Developed in 20 years implementation time. It will be done in three phases; 1st phase (1st 5 years), 2nd phase (2nd 5 year) and 3rd phase (last 10 year). In the master plan, about 77.65 kilometers roads have been proposed for widening. Phase wise road widening proposal has been shown in shown in **Annexure-E**.

**Table 11.4 Road Widening Proposal for Existing Road According to Hierarchy**

Types of Road	Road Width (ft)	Length (KM)
Primary Road	100	6.68
	80	8.27
<b>Sub-total</b>		<b>14.95</b>
Secondary Road	60	14.11
	40	10.95
	30	5.27
<b>Sub-total</b>		<b>30.33</b>
Access Road	20	32.39
<b>Sub-total</b>		<b>32.39</b>
<b>Total</b>		<b>77.65</b>

Source: Proposed by Consultants

#### **A. Roads connect Paurashava with Regional Road Network**

To avoid traffic congestion within the paurashava, a primary road is proposed in the direction of South to North (Sadar Road), in East (Betua Road) and in West (Zia Road).

Hierarchically, the following types of roads have been proposed in the plan:

- major road having rights of way from 80 to 100 feet
- secondary road having rights of way from 30 to 60 feet of the right of way

#### **B. Internal Network of the Paurashava**

The above mentioned roads would be linked up with the proposed road so that eventually all parts of Char Fasson Paurashava would be well connected.

Here, one type of road have been proposed to cater the needs of the internal circulation of the Paurashava area. This is:

- local road having rights of way from 20 feet

Existing road network Char Fasson Paurashava covers most of the area of but not interconnected and in scattered condition. In the road network plan, consultants have tried to meet the problem with proper channelization and widening. As a result, proposed new roads will make a planned circulation network through the connection with existing roads of total.

#### **11.5.4 Proposals for New Roads**

To accommodate the traffic volumes about 62.69 kilometers new roads have been proposed to ensure accessibility in the area. Phase wise newly proposed Road has been shown in **Annexure-E**.

Proposed Road Network of Char Fasson Paurashava has been presented on **Map 11.2**.

Table 11.5 shows proposed road hierarchy of Char Fasson Paurashava.

**Table 11.5: Proposed Roads of Char Fasson Paurashava**

Types of Road		Road Width (ft)	Length (KM)
<b>A. New Road</b>	<b>Primary Road</b>	80	0.48
	<b>Secondary Road</b>	60	11.45
		40	7.92
		30	9.27
	<b>Local Road</b>	20	33.58
<b>Sub-total (A)</b>			<b>62.69</b>
<b>B. Road Widening</b>			77.65
<b>Sub-total (B)</b>			<b>77.65</b>
<b>Total (A+B)</b>			<b>140.35</b>

Source: Proposed by Consultants

## 11.6 Plan for Other Transportation Facilities

In the field of transportation facilities, the consultant has proposed such facilities as, bus terminal, truck terminal, rickshaw stands, baby taxi/tempo stands and passenger shed for local bus users.

### 11.6.1 Parking and Terminal Facilities

#### A) Parking Facilities

Parking facilities at Char Fasson Paurashava has been provided considering two parameters:

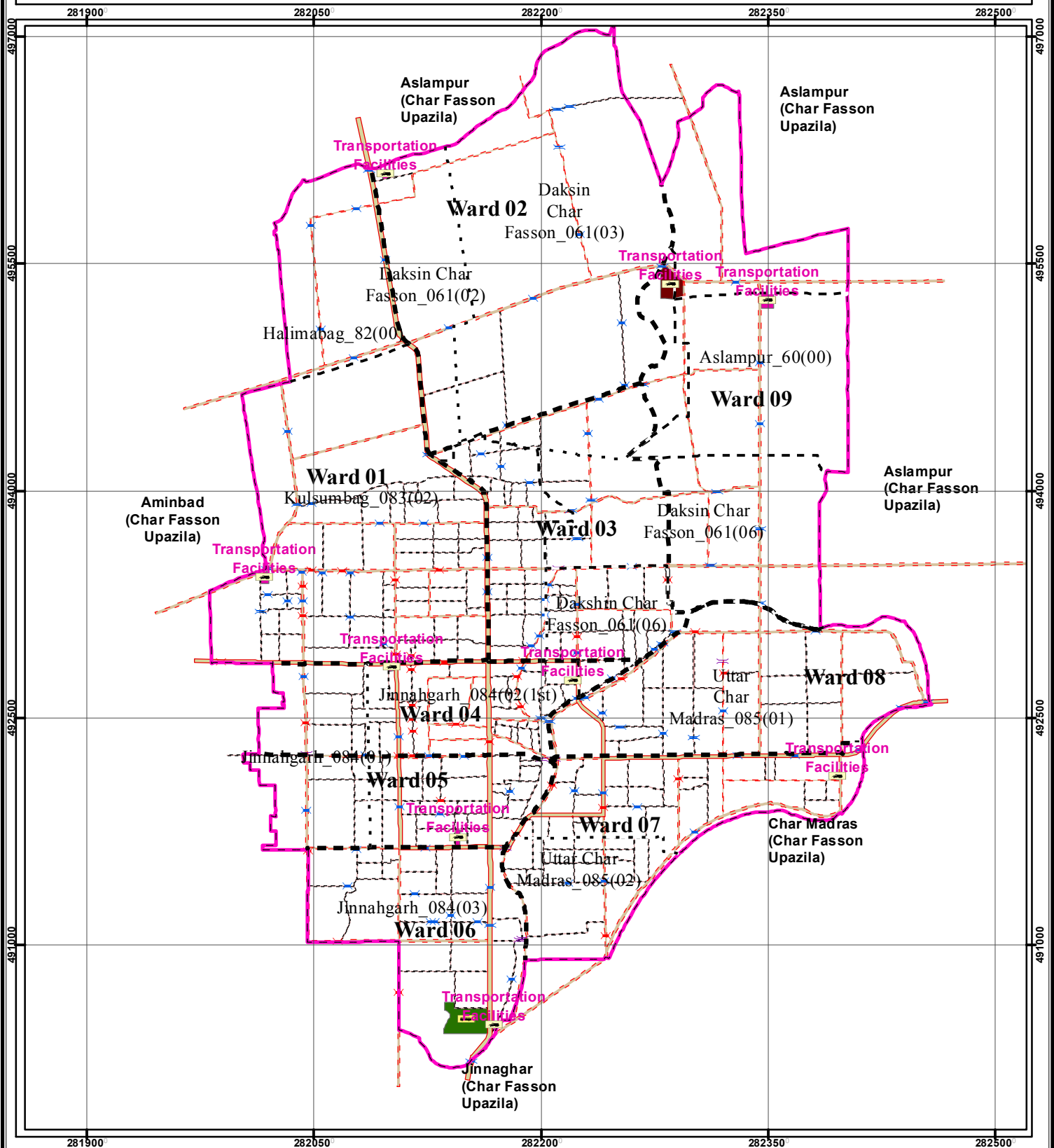
- **Individual Building:** In this context, it is recommended to follow the Building Construction Rules, 1996 (Section-18).

#### B) Terminal Facilities

Considering future travel demand in next 20 years; Terminal facilities for Bus, Truck, Motorcycle, Rickshaw and other existing transports have been provided.

- **Bus Terminal:** One bus terminal have been proposed at ward no 6. The proposed terminal will comprise 11.71 acres land respectively. In Char Fasson town there are two ends: North and South. In the North there are a number of Towns including the District town Bhola which is connected to Char Fasson by road. Traffic is quite frequent. They were stationed at north Bus Stop. While in the south there is huge area at present and will emerge in the future. So, consultants proposed another small Bus stop at the South. There will be a good connector road between north and south. Thus 11.71 acres of land is justified for Bus terminal. These will include Bus bay, passenger terminal, mini commercial area and gardening. (Table 11.6).
- **Truck Terminal:** One truck terminal have been proposed at ward no. 9 which cover 6.45 acres land
- **Other Vehicle Parking:** At Char Fasson Paurashava, 7 tempu stands proposed in ward 1, 2, 4, 5, 6, 7 and 9 with 5.37 acres of land.

Map 11.2: Proposed Transport & Traffic Management Plan of Char Fasson Paurashava



### Legend

#### Admin Boundary

- - - Mouza Boundary
- Paurashava Boundary
- - - Sheet Boundary
- - - Ward Boundary

#### Existing Bridge

- Bridge
- Culvert

#### Proposed Bridge

- Bridge
- Culvert

#### Proposed Features

- Bus Terminal
- Tempo Stand
- Truck Terminal

#### Proposed Road Type

- Primary Road
- Secondary Road
- Tertiary Road

#### Proposed Development Proposal

- Bus Terminal
- Tempo Stand
- Truck Terminal

0 260 520 1,040 Meters



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#### CONSULTANT

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**Table 11.6: Development Proposal for Transportation Facilities**

Proposals	ID	Ward No	Plot	Mouza	JL NO	Sheet No	Area (acre)
Bus Terminal	BT-1	Ward 06	3910,3915	Jinnahgarh	084	03	11.71
Tempo Stand	TS-1	Ward 01	1116	Kulsumbag	083	02	0.96
Tempo Stand	TS-2	Ward 02	8	Daksin Char Fasson	061	02	0.55
Tempo Stand	TS-3	Ward 04	1002,1325	Jinnahgarh	084	02(1st	0.72
Tempo Stand	TS-4	Ward 05	1429	Jinnahgarh	084	02(1st	0.84
Tempo Stand	TS-5	Ward 06	3906,3907,3908	Jinnahgarh	084	03	0.23
Tempo Stand	TS-6	Ward 07	670	Uttar Char Madras	085	01	0.20
Tempo Stand	TS-7	Ward 09	1633	Aslampur	60	00	1.88
Truck Terminal	TT-1	Ward 09	912,914,1167	Daksin Char Fasson	061	03	6.45
			1563	Khadejabag	62	00	
Total							23.54

### 11.6.2 Development of Facilities for Pedestrians, Bicycles and Rickshaws

#### A) Pedestrians

Proposals regarding pedestrian walkway have been already depicted in proposed road network plan by providing separate walkway as per priority of facilities. Footpath exists on the proposed primary and secondary roads.

#### B) Bicycles and Rickshaws

Facility provision of bicycles and rickshaws has been already depicted in space allocation of Right of Way (ROW).

### 11.7 Waterway Development / Improvement Options

At present, water transport facility has significant importance for carrying passenger and commodity. If waterway network can be developed, this will reduce pressure on road network and will also boost up the economic development of the area. Therefore, some measures should be taken to promote the water transport network in Char Fasson Paurashava area:

- Development of infrastructural facilities
- Dredging and maintenance of existing navigable waterways and for resuscitation of dead or dying rivers, channels, or canals, including development of new channels and canals for navigation
- Carry out removal of wrecks and obstruction in inland navigable waterways
- Ensure co-ordination of Inland Water Transport with other forms of transport and with trade and agricultural interests for the optimum utilization of the available transport capacity
- Promote good quality launch services
- Develop, maintain and operate landing/station and terminal facilities

- Prepare plans or schemes for carrying out any of the above mentioned functions by BIWTA.

## **11.8 TRANSPORTATION SYSTEM MANAGEMENT (TSM)**

Fundamental traffic management (TM) regulations have been in practice from the very beginning for example, rules to use a particular side (left or right) of the road. However, the modern objectives of traffic management also include operational efficiency of traffic and improvement of environment.

The main purposes of traffic management are:

- To ensure safe movement of all vehicular and pedestrian traffic
- To improve operational efficiency (junction and network links) in terms of traffic flow
- To improve the environment

The most important aspect of traffic management is its major involvement in its efficient use of basically existing facilities. These may be in the form of:

- Rules and regulations governing the use of facilities. For example, right of use of a roadway, speed limit etc. and
- New works and improvements of limited scale like flow control and segregation measures and devices

### **11.8.1 Strategies for Facility Operations**

#### ***a) Parking Management***

In Char Fasson Paurashava, parking measures are considered for:

- Bus Stand
- Truck Terminal
- Multimodal Transport Terminal

To provide parking space, following regulations mentioned in Building Construction Rule, 1996 should be provided:

- Parking functions should be maintained with the Parking or Stand lot, Roads cannot be used for maneuvering the vehicles
- For entrance and exit of Bus and Truck in the Terminal minimum 4.5 meter width should be provided
- On-Street Parking is applicable if:
  - Angular Parking should be provided within 45°
  - Within 25 meter of Pedestrian Crossing or Intersection, no parking would be allowed
  - No parking will be allowed over the Highway

### **11.8.2 Strategies for Traffic Flow and Safety**

Following strategies will be adopted to implement circulation network in the planning area:

- A comprehensive road network plan has been prepared for the Paurashava using the hierarchy of road network. Implementation will also be followed following this hierarchy.
- Proposed roads in those areas will be chosen for immediate construction that is needed to promote growth in that area.
- Service roads will be constructed along with the major roads to allow free flow of long distance traffic.

- Bill board should be installed conveying road safety messages and instructions.
- Speed breaker should be provided at the in-front school, colleges and hospitals etc.

### **11.8.3 Strategies for Traffic Management**

- Connect the missing links of primary, secondary and access roads on priority basis.
- Separate lane for non-motorized vehicles should be provisioned on the primary and secondary roads.
- Widen the narrow roads to make networks for efficient circulation.
- Right of Way (ROW) should be kept free from any type of development activities.
- Provide adequate pedestrian facilities and off-street parking wherever needed.
- If requires, tidal flow operation method can be applied in case of some roads. For instance, the morning peak results heavy flow of traffic towards city centre and evening peak results heavy flow towards the outside from the City Centre. In this case, half of other side lane can be utilized for one direction traffic during peak hour.

## **11.9 Plan Implementation Strategies**

The section describes the plan implementation strategies of transportation plan of Char Fasson Paurashava. This also describes the regulation to implement transport plan, evaluation and coordination to implement the transport plan in the Paurashava.

### **Regulations to Implement the Transportation Plan**

Following regulations will be needed for implementation of the plan.

**Public Roads Act, 2004:** Objectives of the Public Roads Act, 2004 is prescribed in the section 2. Those objectives are to:

- (a) Establish ownership and responsibilities for roads;
- (b) Establish the framework for managing the road network;
- (c) Establish general principles for road management;
- (d) Provide for general design and planning principles for roads;
- (e) Confer powers and responsibilities on road authorities;
- (f) Commit road authorities to provide and maintain safe roads, and to do so using resources efficiently;
- (g) Provide for the establishment and classification of public roads;
- (h) Provide for data bases of public roads, and public access to them;
- (i) set out rights and duties of road users;
- (j) Control activities on roads;
- (k) Make special provision for restriction on access to roads;
- (l) Identify characteristics of new road types;
- (m) Provide a legal framework for private sector participation in road construction, operation and maintenance, including tolling of roads;
- (n) Establish defenses for civil liabilities; and
- (o) Create offences and provide for penalties.

Section 5 has defined public roads as-

- (1) The Government may declare a public road.
- (2) The declaration may be made in relation to land, whether or not it is currently used for passage by members of the public.

(3) In the declaration, the Government shall classify the public road as:

(a) a national road; (b) a regional road; (c) a Zila road; (d) an urban road; (e) an Upazila road; (f) a union road; (g) a village road.

**Motor Vehicles Ordinance, 1983 (Ordinance No. LV of 1983)** was enacted in 22<sup>nd</sup> September, 1983. The Ordinance will be needed mostly for the registration of motor vehicles and issuing of driving license.

**Stage Carriages Act, 1861 (Act No. XVI of 1861)** was enacted in 7th July 1861. Section 1 of the Act has defined the term Stage Carriage and said, "every carriage drawn by one or more horses which shall ordinarily be used for the purpose of conveying passengers for hire to or from any place in Bangladesh shall, without regard to the form or construction of such carriage, be deemed to be a Stage Carriages within the meaning of this Act." Again, according to the section 2, no carriage shall be used as a Stage Carriage unless licensed by a Magistrate.

The Paurashava may, in communication with the RHD and LGED and with the prime approval from the Government may enforce the regulations as mentioned above. Again, some of the relevant regulations of developed countries may be enforced by the appropriate authority for the betterment of accessibility, road safety and road management. In connection with this concept, **Highways Act of England and Wales** may be followed.

According to the section 70(1a) of the **Highways Act of England and Wales**, the owner or occupier of any structure and the owner or occupier of any land on which a structure is situated shall take all reasonable steps to ensure that the structure or the use of the structure is not a hazard or potential hazard to persons using a public road and that it does not obstruct or interfere with the safe use of a public road or the maintenance of a public road.

(b) Where a structure or the use of a structure is a hazard or potential hazard to persons using a public road or where it obstructs or interferes with the safe use of a public road or with the maintenance of a public road, a road authority may serve a notice in writing on the owner or occupier of the structure or on the owner or occupier of any land on which the structure is situated to remove, modify or carry out specified works in relation to the structure within the period stated in the notice.

(2 a) The owner or occupier of land shall take all reasonable steps to ensure that a tree, shrub, hedge or other vegetation on the land is not a hazard or potential hazard to persons using a public road and that it does not obstruct or interfere with the safe use of a public road or the maintenance of a public road.

(b) Where a tree, shrub, hedge or other vegetation is a hazard or potential hazard to persons using a public road or where it obstructs or interferes with the safe use of a public road or with the maintenance of a public road, a road authority may serve a notice in writing on the owner or occupier of the land on which such tree, shrub, hedge or other vegetation is situated requiring the preservation, felling, cutting, lopping, trimming or removal of such tree, shrub, hedge or other vegetation within the period stated in the notice.

Again, section 71(1a) said that, any person who, without lawful authority or the consent of a road authority-

(i) erects, places or retains a sign on a public road, or

(ii) erects, places or retains on a public road any caravan, vehicle or other structure or thing (whether on wheels or not) used for the purposes of advertising, the sale of goods, the provision of services or other similar purpose, shall be guilty of an offence.

Section 76(1) of the **Highways Act of England and Wales** have provisioned regulations for a road authority and said, a road authority may-

(a) construct and maintain drains in, on, under, through or to any land for the purpose of draining water from, or preventing water flowing onto, a public road,

(b) use any land for the temporary storage or the preparation of any gravel, stone, sand, earth or other material required for the construction or maintenance of a public road.

### **Implementation, Monitoring, Evaluation and Coordination of the Plan**

**Implementation through Multi-Sectoral Investment Program:** Major infrastructure development works such as primary roads, secondary roads, transportation facilities etc., will largely be controlled by Government. Public works requires efficient co-ordination through the Multi-Sectoral Investment Program (MSIP).

Objective of a Multi-Sectoral Investment Program (MSIP) will match a list of the development projects with the funding stream necessary to implement them. There are two basic activities that would determine the contents of MSIP. One activity would be to prioritize and schedule the investment projects of all public agencies so they will collectively help to achieve the development goals and objectives of the Transportation and Traffic Management Plan. Second activity would be to analyze the source and availability of fund for the prioritized list of development projects.

**Implementation through Action Plans and Projects:** Action Plans and Projects will be the implementation plans to solve problems at the local level. Action plans will take a direct approach toward plan implementation with a minimum of research, reports or elaborate planning methods. These projects will be easily identifiable and will require minimum resource.

Implementation through Development Control: Landuse zoning is one of several methods of plan implementation to be considered. In all cases where some form of development, landuse control may be applied; careful consideration requires the following ideologies:

- the purpose to be achieved by the development controls;
- where controls should be applied;
- what aspect of development needs to be controlled;
- what type of development controls are required;
- what degree or level of development control is required;
- who will be affected by the required control;
- who will be affected by the controls and in what manner;
- when the controls should be applied;
- what will be the likely impact of the controls;
- how and by whom will the controls be administered and enforced.

Development control as an instrument of plan implementation may be selectively applied within the Urban Area Plans. Development controls would also be varied in intensity and detail to suit the particular circumstances. It is important that they should be clear and easily understood by all parties concerned. Since the entire Paurashava Master Plan 'package' has become statutory, development controls associated with its component plans would also be statutory.

**Implementation by Facilitating Private Investment:** Another approach that would be taken by government toward plan implementation will be to guide and facilitate investments made by the private sector. Government can achieve this with relative ease and at very low cost by setting up a legal and operational framework, coupled with suitable incentives, to facilitate land consolidation plot boundary readjustment, efficient lay out of plots and provision of local infrastructure by the private sector. The benefits of this approach would be:

- increased efficiency of the urban land market would make, more private land available to urban households;

- would pass much of the development costs for local infrastructure to the private sector and land market mechanisms;
- would increase in land for development without large cash outlays by government to purchase land for development schemes; and
- would keep provision of land for community facilities virtually no cost to government.

### **Plan Monitoring**

The Transportation and Traffic Management Plan would simply be tools for guiding and encouraging the growth and development of an urban area in a preferred manner. In a rapidly changing urban environment, the Transportation and Traffic Management Plan would require to keep up to date. If this is not done, within a few years it will be obsolete. Therefore, it is imperative that the requirement for regular updating of the Transportation and Traffic Management Plan be made a legal requirement.

For implementation of the various program components of the Transportation and Traffic Management Plan appropriate administrative measures will have to be undertaken. This will essentially include project preparation and monitoring of their execution and evaluation. For carrying out all these activities appropriate institutional measures are also be needed.

### **Evaluation**

Monitoring and evaluation of ongoing and implemented projects is essential to keep the future course of action on the right track. An ongoing project should be regularly monitored and handicaps identified to enable taking appropriate measures at the right time. Post implementation evaluation is also needed to take appropriate measures correcting past errors-from project preparation to implementation.

The top level supervision has to be done by a high level supervisory committee headed by the Paurashava Mayor, LGED representative, RHD and Local Government Ministry. Other members of the committee will be local Ward Councilors, local community leader/social workers and the Town Planner of the Paurashava. The committee will supervise implementation works regularly and issue necessary instructions to expedite the works of implementation.

### **Co-ordination**

A Planning Section of Paurashava should have close interaction with the citizen of Paurashava at large in order to make people aware of the benefits of a good plan and, therefore, their social responsibility to promote plan implementation in one hand and also resist contraventions on the other. A specific interactive cell is recommended to operate in this regard with following responsibilities:

- Provide pre-application advice to residents, consultants and developers about landuse management issues and application procedures for the submission of development applications.
- Enforce planning and landuse management related legislation and zoning scheme regulations.
- Issue of property zoning certificates.
- Investigate and resolve landuse management complaints, illegal landuse and prosecuting contraventions.

Such interactive windows may be opened in various convenient locations to ensure ease of the answers to commonly asked questions may be shown in the internet. Besides, those may be shown in the print and electronic media time to time.

In spontaneous areas, while all out people's co-operation is needed for project implementation; there will also be some elements of negotiation. Negotiation will be particularly needed in case of road widening projects. It will be a crucial task for Paurashava to convince the affected people to give up their land for road use. Efforts should be made to convince the land owners on the ground of enhancement of property value due to road widening. In case people refuse to offer

land free of cost necessary arrangements may have to be made for payment of compensation. This process of negotiation will be very critical, cumbersome and time consuming, and therefore, has to be handled with utmost care and patience. The best results can be accrued only by winning people's confidence. In case the authority fails to get peoples co-operation they should exercise power of compulsory acquisition of land through Acquisition of Requisition of Immovable Property Ordinance, 1982. Attempts may be made to engage NGOs / CBOs / RHD / LGED to work as catalysts in negotiation.

## **Chapter - 12**

### **DRAINAGE AND ENVIRONMENTAL MANAGEMENT PLAN**

#### **12.1 Drainage Management Plan**

This chapter states about goals and objectives, and methodology of Drainage Development Plan. An inventory of the existing drainage system of Char Fasson has been made as a part of the comprehensive topographical survey to be taken-up under this project. While assessing the drainage conditions, the serviceability, structural conditions, obstruction, siltation, blockages are taken into consideration. And finally describe the drainage and environmental management plan, and its implementation strategies.

##### **12.1.1 Goals and Objectives**

Provision of drainage facilities are important concern to human settlements to create better living environment. Failure to provide the adequate drainage facilities results in flooding and detrimental environmental quality. Drainage of high rainfall region particularly in the context of Barisal region is very important. The objectives of drainage planning are described as follows:

- To analyze drainage aspects in the planning of the Paurashava.
- To study geological fault and lineament of the project area and its surroundings.
- To study the existing water development, flood protection and flood control project (if any) in the area and their impacts in the Paurashava plan.
- To present planning options for drainage of the future Paurashava area.
- To study conservation of the natural resources like parks, open space, water bodies, existing ponds etc.
- To conserve place of historical, architectural (if any) and agricultural importance including natural fisheries.

##### **12.1.2 Methodology and Approach to Planning**

Drainage Network Survey for Char Fasson Paurashava has been carried out through the guideline of ToR .In this survey explore the existing drainage network system at Char Fasson Paurashava. The main vision of this survey is explored the length, depth, flow direction, coverage area and satisfactory level of the Paurashava inhabitants. The information of drainage network gathered from topographic, socioeconomic and physical feature survey (detail was given in Chapter 6, Section 6.2 of Char Fasson Survey Report). Major feature of drainage and environment survey are as follow:

- Survey the main drainage channels from their heads to the outfalls and to estimate their capacity to discharge water.
- Collect and analyze meteorological data over time in the area to determine the meteorological conditions and predict storm surges.
- Determine the efficiency of the present drainage systems and make recommendation to government.
- Organize a public enlightenment campaign to expose the adverse effects of dumping refuse in drainage channels, through a mass media meeting.
- Drainage channels were surveyed by leveling from the head of the channels to the outfall using a surveyor's level. A zero datum was chosen at the head of each channel. This zero height was then used to level the channel from the head to the toe or outfall. In areas where water flow was observed, the velocity of the flow was recorded. The flow velocity was calculated by timing the flow rate within a 3-5m length of channel. In areas where sediment or



refuse was observed to accumulate in the bottom of the channel, the thickness of such sediment or refuse was measured.

- A questionnaire was administered to local residents to collect information about flooding, refuse disposal and drainage channel patterns from local residents along flood prone areas. The answers to the questionnaire were statistically analyzed and use to decipher resident's opinion on the problem of flooding.

## 12.2 Existing Drainage System/ Network

### 12.2.1 Man Made Drains

Paurashava has only 13.24 Km of drainage network at Char Fasson Paurashava area. This drainage network served mainly within core area (ward 4 and 5) and few in the ward 1, 2 and. The existing network is connected with Mandar tali khal, Boalkhali Khal, Eastern Para Khal and Madraz Khal. Maximum people of the Paurashava deprived from drainage facility at Char Fasson Paurashava. Table 12.1 shows inventory of major drain in Char Fasson Paurashava.

**Table 12.1: Existing Inventory of Drains**

Drain Id	Type	Width (in m)	Length (in m)	Start Point	End Point
1	Katcha	0.46	54.27	ward 04	ward 04
2	Katcha	0.91	401.07	ward 04	ward 04
3	Pucca	0.46	0.35	ward 05	ward 05
4	Pucca	0.46	5.28	ward 05	ward 05
5	Pucca	0.46	5.81	ward 05	ward 05
6	Pucca	0.46	6.16	ward 05	ward 05
7	Pucca	0.30	6.25	ward 05	ward 05
8	Pucca	0.30	6.42	ward 05	ward 05
9	Pucca	0.46	14.62	ward 05	ward 05
10	Pucca	0.46	31.58	ward 05	ward 05
11	Pucca	0.91	31.85	ward 04	ward 04
12	Pucca	0.30	37.10	ward 04	ward 04
13	Pucca	0.61	44.45	ward 04	ward 04
14	Pucca	0.61	57.81	ward 05	ward 05
15	Pucca	0.46	65.20	ward 05	ward 05
16	Pucca	0.46	69.38	ward 05	ward 05
17	Pucca	0.61	81.42	ward 04	ward 04
18	Pucca	0.30	86.90	ward 04	ward 04
19	Pucca	0.61	88.12	ward 04	ward 04
20	Pucca	0.46	89.17	ward 04	ward 04
21	Pucca	0.91	94.50	ward 04	ward 05
22	Pucca	0.91	97.87	ward 01	ward 01
23	Pucca	0.61	100.67	ward 04	ward 05
24	Pucca	0.61	100.69	ward 04	ward 04
25	Pucca	0.91	102.64	ward 04	ward 04
26	Pucca	0.46	109.60	ward 04	ward 04
27	Pucca	0.61	109.64	ward 04	ward 04
28	Pucca	0.46	109.81	ward 04	ward 04
29	Pucca	0.46	110.77	ward 04	ward 04
30	Pucca	0.61	124.81	ward 04	ward 04
31	Pucca	0.46	138.45	ward 05	ward 05
32	Pucca	0.46	138.71	ward 05	ward 05
33	Pucca	0.61	147.20	ward 04	ward 04
34	Pucca	0.61	147.44	ward 05	ward 05
35	Pucca	0.30	176.76	ward 02	ward 02
36	Pucca	0.61	178.58	ward 04	ward 04
37	Pucca	0.91	202.11	ward 04	ward 04

Drain Id	Type	Width (in m)	Length (in m)	Start Point	End Point
38	Pucca	0.30	204.52	ward 02	ward 02
39	Pucca	0.61	208.55	ward 01	ward 01
40	Pucca	0.61	221.55	ward 04	ward 04
41	Pucca	0.91	236.11	ward 09	ward 09
42	Pucca	0.61	258.96	ward 04	ward 04
43	Pucca	0.76	264.57	ward 02	ward 02
44	Pucca	0.61	282.20	ward 04	ward 04
45	Pucca	0.91	296.59	ward 06	ward 07
46	Pucca	0.91	296.95	ward 05	ward 05
47	Pucca	0.91	300.04	ward 07	ward 07
48	Pucca	0.91	300.49	ward 07	ward 07
49	Pucca	0.46	300.72	ward 05	ward 05
50	Pucca	0.61	308.02	ward 04	ward 04
51	Pucca	0.91	308.31	ward 02	ward 02
52	Pucca	0.91	310.11	ward 01	ward 01
53	Pucca	0.61	311.81	ward 04	ward 04
54	Pucca	0.91	408.51	ward 02	ward 02
55	Pucca	0.91	474.83	ward 04	ward 04
56	Pucca	0.91	612.33	ward 01	ward 04
57	Pucca	0.91	688.28	ward 06	ward 06
58	Pucca	0.61	731.20	ward 05	ward 05
59	Pucca	1.22	740.33	ward 04	ward 04
60	Pucca	1.22	865.49	ward 03	ward 03
61	Pucca	1.07	938.14	ward 07	ward 09
<b>Total Length (m)</b>			<b>13242.07</b>		

Source: Physical Feature Survey, 2010

**Map 12.1** Shows the existing Drainage Network of Char Fasson Paurashava  
**12.2.2 Natural Canal and River**

**General Description of Natural Canals**

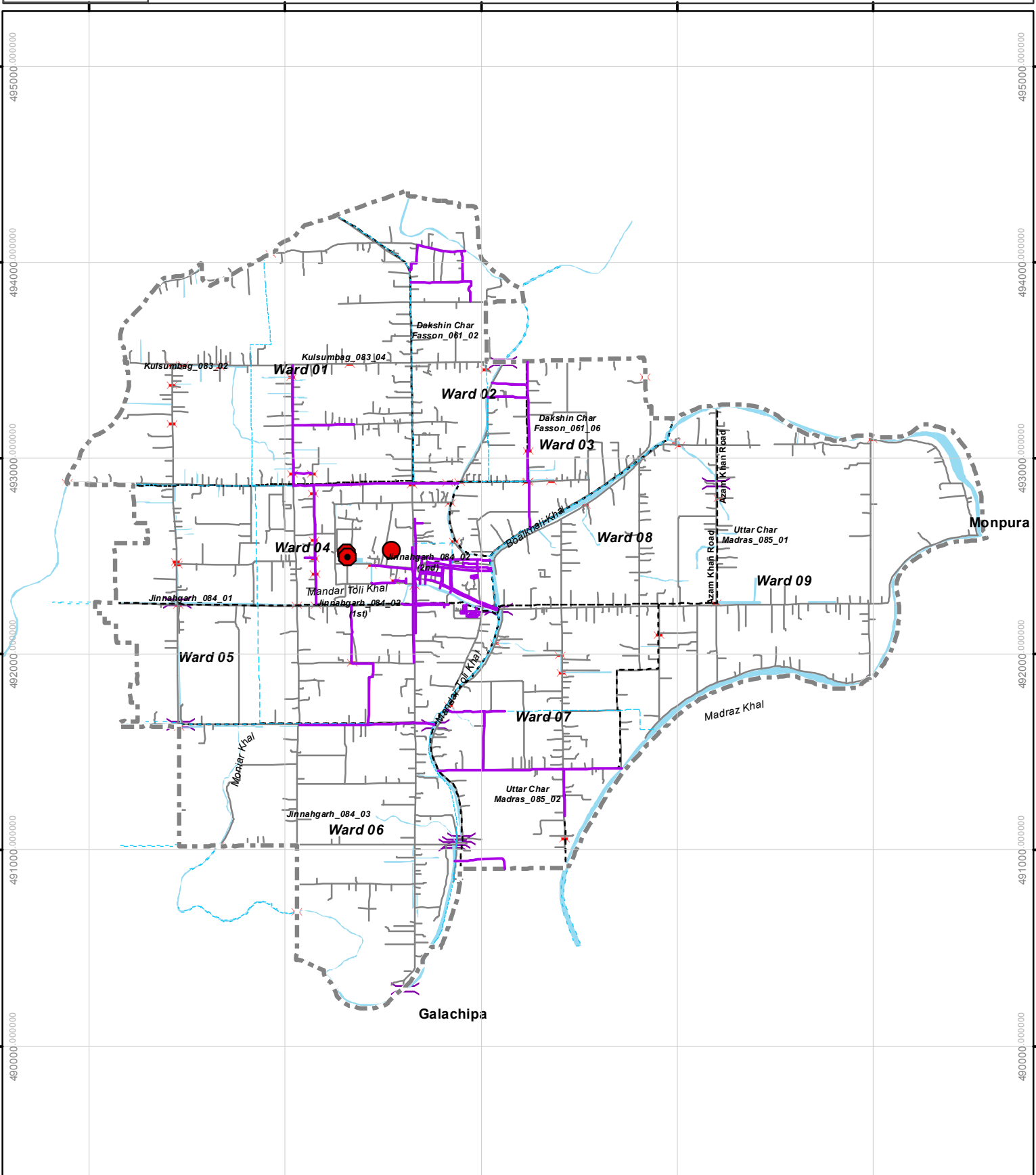
The existing natural canal network is spread like tree roots in total Paurashava area. In some portion of the area the condition of the khal and irrigation canal are being encroached by the local people and also by local authority and the situation is deteriorating day by day. So, it should be given much concern to sustain the natural canal.

At Char Fasson Paurashava canals have an important role in drainage system. Total area of khal/canal at Char Fasson is 75.79 acres. Table 12.2 shows the length and connectivity of Khals of Char Fasson Paurashava. and ward wise area coverage of the canals are presented in table 12.3.

**Table 12.2: Drainage Coverage of Existing Khals in Char Fasson Paurashava**

Name	Length (in m)	Width (in m)	Starting Point Connection	End Point Connection
Canal 1	2971.08	5.98	Ward 1	Ward 1
Canal 2	517.73	5.15	Ward 3	Ward 3
Canal 3	899.26	7.05	Ward 9	Ward 7
Canal 4	335.36	8.08	Ward 4	Ward 4
Canal 5	648.15	7.18	Ward 6	Ward 6
Boalkhali Khal	2913.84	12.10	Madraz Khal	Mandar Toli Khal
Eastern Para Khal	2282.08	7.47	Boalkhali Khal	Ward 2
Madraz Khal	5103.46	26.65	Ward 9	Boalkhali Khal
Mandar Toli Khal	4955.76	8.31	Boalkhali Khal	Ward 5, Moniar Khal
Moniar Khal	8927.86	3.08	Mandar Toli Khal	Ward 4
Mukharbanda Khal	1841.07	8.53	Ward 1	Ward 1

Source: Physical Feature Survey, 201



PREPARATION OF MASTER PLAN FOR CHARFASSON PAURASHAVA

0 0.125 0.25 0.5 0.75 1 Km



### Legend

- |   |  |  |
|---|--|--|
| <span style="color: red;">●</span> Pouro Bhavan | <span style="color: red;">X</span> Box Culvert       | <span style="color: grey;">—</span> Existing Road    |
| <span style="color: red;">●</span> UP Office    | <span style="color: grey;">—</span> Paura Boundary   | <span style="color: purple;">—</span> Existing Drain |
| <span style="color: purple;">  </span> Bridge   | <span style="color: grey;">---</span> Ward Boundary  | <span style="color: blue;">—</span> Primary Drain    |
|   | <span style="color: blue;">---</span> Mouza Boundary |  |

Local Government Engineering Department (LGED)  
Government of the People's Republic of Bangladesh  
Ministry of Local Government,  
Rural Development and Cooperatives

Consultants

Sheltech Consultants (Pvt.) Ltd  
1/E/2, Panibagh (Mazar Road), Shabagh, Dhaka  
In Association with  
**dpm**

### River

There is no existence of river within or beside the Paurashava

### Beel/Marshland

There is no existence of Beel/Marshland at Char Fasson Paurashava.

### Other Water Bodies (Pond-Dighi-Ditch and Dyke)

At Char Fasson Paurashava, about 264.43 acre areas are under water bodies comprising ditch and pond. There are about 398 ditches covering 33.15 acre area and 1138 ponds comprising 231.28 acre area. Among the all wards ward no. 9 has the highest number of ditches and ponds.

**Table 12.3: Ward-Wise Area Coverage of Existing water bodies at Char Fasson**

Ward No.	Ditch		Pond		Total	
	Number	Area (acre)	Number	Area(acre)	Number	Area (acre)
W-1	50	4.65	155	30.31	205	34.96
W-2	77	5.77	87	18.14	164	23.91
W-3	8	0.38	87	16.08	95	16.46
W-4	56	5.01	133	33.83	189	38.84
W-5	30	3.46	117	30.86	147	34.32
W-6	20	1.34	141	27.65	161	28.99
W-7	44	3.94	151	27.80	195	31.74
W-8	49	3.39	96	20.38	145	23.77
W-9	64	5.21	171	26.23	235	31.44
Total	<b>398</b>	<b>33.15</b>	<b>1138</b>	<b>231.28</b>	<b>1536</b>	<b>264.43</b>

Source: Physical Feature Survey, 2010

### 12.2.3 Topographic Condition of Existing Drainage Network

Char Fasson Paurashava is located at in the South Central (SC) region. Basically, the Char Fasson Paurashava area has flat with moderately high land at its central part. Total 95763 nos. spot values were collected for the study area. The lowest spot height is 0.0617m and the highest spot height is 2.5218 m. Average height of land of the Paurashava area is 1.741 m. From the survey, it is observed that all the wards have flat land. Ward 1 is directed towards west directions (towards Mukharbanda Khal), ward 2 towards east directions (towards Eastern Para Khal), ward 3 towards south-eastern direction (towards Boalkhali Khal ), ward 4 towards south-eastern direction (towards Mandar Toli Khal and Boalkhali Khal), ward 5 towards north-eastern direction (towards Mandar Toli Khal and Boalkhali Khal), ward 6 towards south-eastern direction (towards Moniar Khal and Mandar Toli Khal ), ward 7 towards east direction (towards Madraz Khal), ward 8 towards north western direction (towards Boalkhali Khal) and ward 9 is directed towards south-eastern direction towards Boalkhali Khal and Madraz Khal .

### 12.2.4 Analysis of Peak Hour Run Off Discharge and Identification of Drainage Outfalls

Drain as the structure is generally develops to free our living area from household waste water and rain water of storm water. The daily waste water discharge from a household is negligible so for the drainage design it is necessary to calculate the storm water. Urban storm drainage primarily concerns this surface run-off. The primary objective of urban drainage system design is to drain out this storm water either through open surface drains or through underground sewers. An important parameter for the design of storm water systems is the rate and volume of run-off to be conveyed through the system as a consequence of storms. Run-off estimates are carried out based on knowledge of the occurrences of heavy rainstorms and a relation between rainfall and the corresponding run-off. The quantity of run-off again depends on the geometry and physical properties of the catchments.

Rainfall occurs at irregular intervals, and intensities, and frequency and duration vary within catchments. Due to this random nature of occurrence of rain events, the storm drainage system is designed considering estimated run-off based on the analyses of past rainfall records. A widely

used statistical description of heavy rainfall is that of intensity–duration–frequency curves that are developed by processing the data for a large number of storm events observed over a number of years, considering the time variation of the rainfall intensity.

### Method Used

**Storm and used water:** The drains are designed to collect excess rainfall that comes as surface runoff from urban area, convey the runoff and finally discharge them to outfalls. The design of drains involves hydrological computations of rainfall intensity, its frequency of occurrence, duration etc., and the total run off of a particular area. The modified rational method shall be used for calculation of peak runoff for a definite frequency and duration from particular drainage basin. One limitation of this method is that it cannot be used for catchment area greater than 320 acres. The Natural Resources Conservation Service (NRCS) method formerly the US Soil Conservation Service (SCS) method shall be used.

In Modified Rational Method, the overall watershed is divided into zones that contribute to hydraulically significant points of concentration. The boundary of the zones is established based upon local topographic boundaries such as streets, existing drainage systems, etc., using good engineering practice. The design flow rate by Modified Rational Formula is

$$Q = CsC_r IA$$

Q = Design runoff flow rate (cfs)

I = Rainfall intensity (in/hr)

Cs = Storage coefficient

C<sub>r</sub> = Runoff coefficient

A = Drainage area (acres)

**Rainfall Intensity (I):** The rainfall intensity is the average rainfall rate for a particular drainage basin or sub-basin. The intensity is selected on the basis of the design rainfall duration and return period. The return period is established by design standards as a design parameter. Rainfall intensity with 5 years return period is generally employed for design of primary drains and canal improvement. Rainfall intensity with 3 years return period is employed for design of secondary drains. The design duration is equal to the time of concentration for the drainage area under consideration. Time of concentration is a critical parameter both for the Modified Rational Equation and SCS method. Time of concentration is generally defined as the longest runoff travel time for contributing flow to reach the outlet or design point, or other point of interest. It is frequently calculated along the longest flow path physically.

Estimating the time of concentration involves identification of an appropriate flow path or paths and estimating runoff travel times along the flow paths. Where post-development conditions include significant pervious surfaces, the time of concentration for just impervious portions of the basin may be required to calculate and compare peak flow response for the basin as a whole against that of the more rapidly-draining impervious surfaces alone. The Time of Concentration composed of the Initial Time of Concentration, sometimes referred to as the Inlet Time or Time of Entry and the Travel Time. Initial Time of Concentration is that time required for runoff to travel from the most remote point in the drainage area to the first point of concentration. This can be determined using the Kirpich equation. The Initial Time of Concentration must be five minutes or longer. In instances where Initial Times of Concentration are estimated to be shorter than five minutes, five minutes shall be applied.

The second part of the Time of Concentration is the Travel Time that takes the flow to travel along the drain. Channel flow occurs in channels carrying integrated flows, pipes (flowing partially full), and streams. Where storage is not significant, Travel Times can be estimated by applying Manning's Equation, and using estimates of channel characteristics and appropriate roughness values for pipe, channel, or stream features as tabulated in Table 12.4.

$$V = [1.49/n] [R^{2/3}] [S^{1/2}]$$

V = Velocity of flow, feet/second  
N = Manning's roughness coefficient for channel flow  
S = Slope, feet/foot  
R = Hydraulic radius, feet

And

$$T_t = V / (60L)$$

T<sub>t</sub> = Travel time, minutes  
V = Velocity, feet/second  
L = Length, feet

**Table 12.4: Manning's "N" Values for Channel Flow**

Conduit Material	Manning's "n"	Conduit Material	Manning's "n"
Closed conduits		Pipes	0.011-0.015
Asbestos-cement pipe	0.011-0.015	Liner plates	0.013-0.017
Brick	0.013-0.017	Open Channels	
Cement-lined & seal coated	0.011-0.015	Lined channels	
Concrete pipe	0.011-0.015	Asphalt	0.013-0.017
Helically corrugated metal pipe (12" – 48")	0.013-0.023	Brick	0.012-0.018
Paved invert	0.018-0.022	Vegetation	0.030-0.400
Spun asphalt lined	0.011-0.015	Earth, straight and uniform	0.020-0.030
Spiral metal pipe (smooth)	0.012-0.015	Earth, winding, fairly uniform	0.025-0.040
3 – 8 in. diameter	0.014-0.016	Rock	0.030-0.045
10 – 12 in. diameter	0.016-0.018	Un maintained	0.050-0.140
Larger than 12 in. diameter	0.019-0.021	Fairly regular section	0.030-0.070
Plastic pipe (smooth interior)	0.01-0.015	Irregular section with pools	0.040-0.100

Source: Municipality of Anchorage. Drainage Design Guideline, March 2007 ver.4.08 pp-62.

**Storage Coefficient (Cs):** Due to very flat topography of Bangladesh, the runoff is significantly slow. The rainfall after evaporation and infiltration accumulates first in the depressions, until these have been reached their capacity and then runoff. To take these effects a storage coefficient is used. The value of the storage coefficient is based on average ground slope and the nature of the ground surface. Some of the storage coefficients are listed in Table 12.5

**Table 12.5: Storage Coefficients for flat land**

Characteristics of surface	Storage Coefficient		
	Slope < 1: 1000	Slope < 1: 500	Slope < 1: 500
Residential urban	0.70	0.80	0.90
Commercial	0.80	0.90	1.00
Industrial	0.70	0.80	0.90
Residential Rural nature	0.60	0.70	0.80
Agricultural	0.50	0.60	0.70
Forest/woodland	0.30	0.40	0.50
Aquatic land	0.30	0.40	0.50
Paved area/road	0.80	0.90	1.00

Source: Countywide Comprehensive Plan (Master Drainage Plan) Exhibit-VIII.

**Runoff Coefficient (Cr):** The runoff coefficient (Cr) values shall be assigned to the various land use zoning classifications. The runoff coefficient values are based on the slope of the land surface, degree of imperviousness and the infiltration capacity of the land surface. The type of land use can greatly affect the amount of runoff. The quantity of runoff and peak flow rates are increased when the land is developed because the impervious surface area increases with the addition of roads, driveways, roofs, etc. The values of the runoff coefficient (Cr) for each land use classification are listed in Table 12.6

**Table 12.6: Modified Rational Method Runoff Coefficients**

Land use designation	Runoff Coefficient Cr	Land use designation	Runoff Coefficient Cr
Residential rural	0.30	Agricultural exclusive	0.25
Residential semi urban	0.40	Forest and watershed	0.20-0.25
Residential urban	0.5-0.60	Public facilities	0.30-0.60
Apartment professional	0.70	Forest/ woodland	0.25
Neighborhood Commercial	0.85	Paved area/road	0.99
Community Commercial	0.85	Slum area	0.50-0.55
Industrial	0.70-0.75		

Source: Countywide Comprehensive Plan (Master Drainage Plan) Exhibit-VIII.

**Catchment Area:** The size and shape of the catchment or sub-catchment for each drain shall be determined by plan metering topographic maps and by field survey. In determining the total runoff of a catchment area the following assumptions to be made:

- The peak rate of runoff at any point is a direct function of the average rainfall for the time of concentration to that point.
- The recurrence interval of the peak discharge is same as the recurrence interval of the average rainfall intensity.
- The Time of Concentration is the time required for the runoff to become established and flow from the most distant point of the drainage area to the point of discharge.

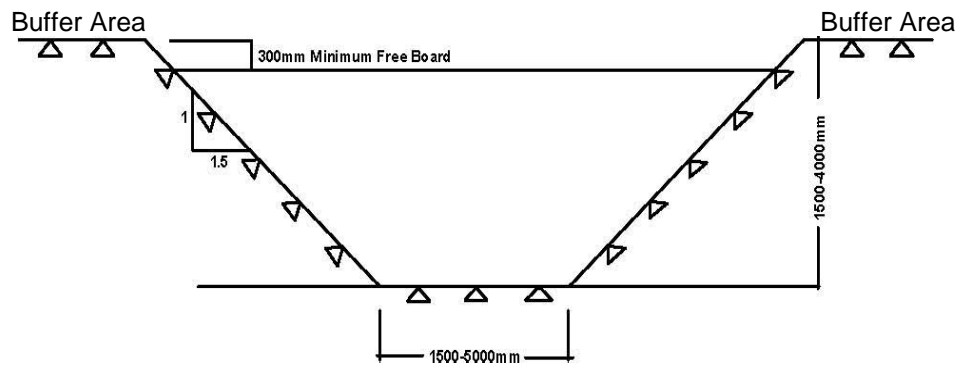
### Projection

In implementing various infrastructures for development, drainage is generally given less priority and is normally considered to be the last or final steps for development. Such scenario is particularly true for Bangladesh; although different types of drainage infrastructures are among others by far the heaviest impact on physical infrastructure network. As a result, physical environment, health, hygiene and standard of living suffer seriously. In development projects, Government, Semi-government and Public sector allocated funds are mostly spent on buildings, roads and other more visible infrastructures and drainage comes as the last item of development. By the time, drainage development begins to start, there appears shortage of fund, consequently as a matter of policy-do little or do-nothing situation appears and as eyewash very little is done for drainage development. In case of urban development, if drainage is not given priority, sufferings of the inhabitants will continuously increase with the passage of time.

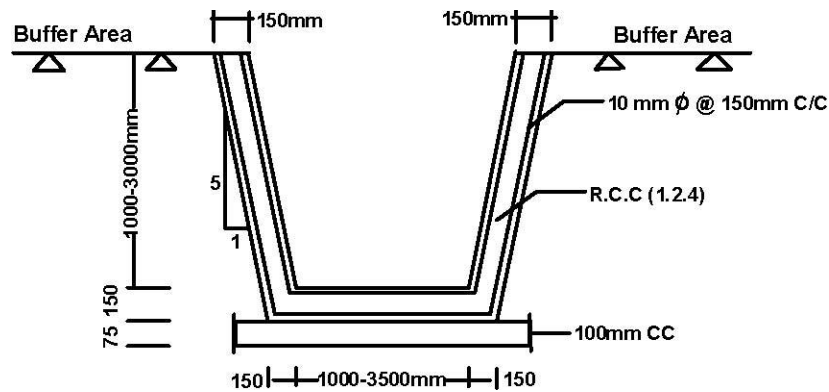
Drainage development for urbanization should start with drains. Drains can be classified as Plot drains, Block drains, Tertiary drains, Secondary drains and Primary drains. Other natural drainage infrastructure is lowland, outfall areas, khals and rivers. Man-made drains are Plot, Block, Tertiary, Secondary and Primary drains and others are natural drainage infrastructures. In planning for drainage network, care will be given on road network in terms of conflict of drainage and waterways with roads. In the following and subsequent sections major element, their principle, purpose and function of drainage infrastructures are discussed and presented in lower to higher order which will be considered as a method for drainage planning.

### Primary Drain

Primary drains are called as the main drains. Primary drains cover larger storm drainage area than above discussed tertiary and secondary drains. In ascending order its position is third. Its cross-section is larger than other types; carrying capacity is high and is constructed of brick, cement concrete and sometimes reinforced concrete. Primary drains may be of earthen structure provided sufficient land is available and land value is low. Contributing drainage water comes from tertiary and secondary drains. Primary drains discharge its drainage water to outfall, natural khal, river or large lowland area/ Beels. Figure /figures below show the typical cross-section of the primary drains:



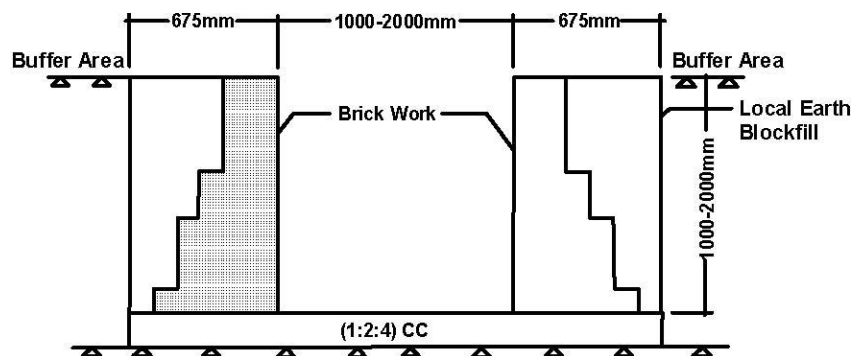
A Typical Earthen Primary Drain (Dimensions in mm)  
**Figure 12.1: Earthen Primary Drain**



A Typical RCC Primary Drain (Dimensions in mm)  
**Figure 12.2: Typical RCC Primary Drain**

### Secondary Drain

Secondary drains collect discharge from tertiary drains. One secondary drain may receive drainage discharges from several tertiary drains in its course. Size and capacity of secondary drain is much bigger than tertiary drains, its catchment area is also bigger than tertiary drains. Like tertiary drains, it may run parallel to bigger roads. Secondary drains may run along and through the middle of its storm water contributing area. The typical cross-section, size and shape, and its construction material are shown below:

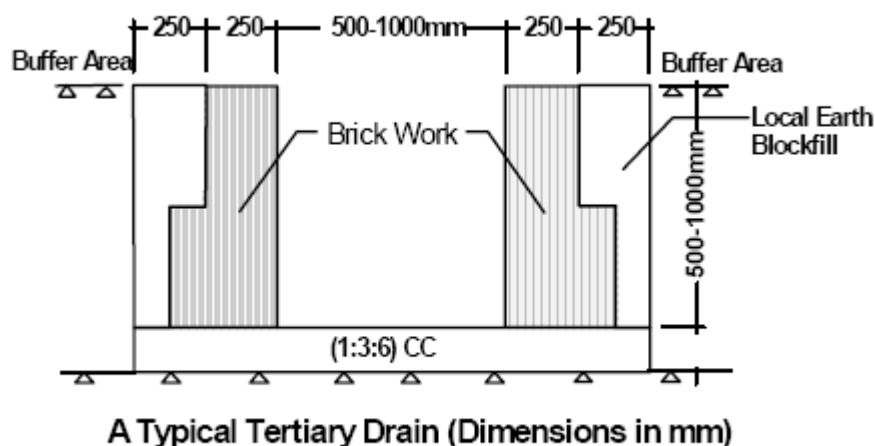


A Typical Secondary Drain (Dimensions in mm)  
**Figure 12.3: A Typical Secondary Drain**



### Tertiary Drain

Tertiary drain carry run-off or storm water received from the above mentioned plot drains and block or Mohallah drains. Their catchment area or storm water contributing area is bigger than Mohallah drains. Tertiary drains generally are the under jurisdiction of municipality and city corporation. These drains or drainage networks are constructed and maintained directly by municipalities and City Corporation. These drains are constructed by brick, cement concrete and sometimes by excavating earth in their alignments. These drains may run parallel to road or across the catchment area. Sometimes borrow pits of the road serves as drains provided borrow pits are uniformly and continuously excavated. Borrow pits that serve as drains may be channeled or lined by brick works. Tertiary drains deliver its discharge usually to secondary drains. A typical tertiary drain is shown below:

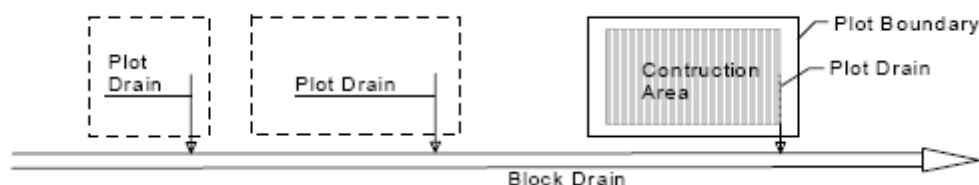


**Figure 12.4:** A Typical Tertiary Drain

Other kinds of drainage infrastructure are lowland, outfall areas, khals and rivers. Man made drains are Plot, Block, Tertiary, Secondary and Primary drains and others are natural drainage infrastructures. In planning for drainage network, care should be given for road network in terms of conflict of drainage and waterways with roads. In the following and subsequent sections major element, their principle, purpose and function are discussed and presented in lower to higher order:

### Plot Drains

Plot drains are provided around a building on a plot. In most cases, the drain is made of bricks and rectangular in shape that can carry storm water generated in the plot and from the building. Plot drain is connected to the Block or Mohallah drain. The sketch below gives an impression of plot drain usually constructed in a plot and block drains that follow plot drain.



**Figure 12.5:** Plot and Block Drain

## Block Drain

A block drain is provided at the outside of a block that accommodates several buildings of the block. The block drains are made of bricks like plots drains but bigger in size so that it can serve the storm water generated within the block and the buildings and open areas within the block. Sometimes the block drain may serve few neighboring blocks or Mohallahs. Block drains carry storm water coming from the plot drains. The shape of the block drain is also rectangular, but bigger than plot drains and its bottom is lower than plot drain. The sketch of the plot drain above also shows the block or Mohallah drain under plot drain.

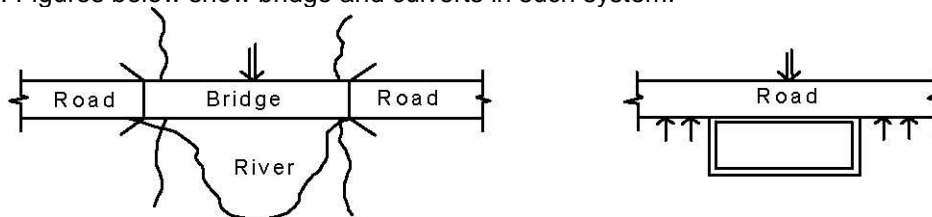
### Other Drainage Related Infrastructures

In order to facilitate or mitigate drainage issues some infrastructures are provided or used, these are namely

- Bridges, culverts, box culverts
- Drainage sluices, pipe sluices, siphons
- Flood protection embankments and flood walls
- Sluice gates, Regulators, Navigation lock
- Flood protection and drainage structures.

## Bridges, Culverts and Box Culverts

These structures are provided at places wherever roads cross the drainage network system. Such structures are built on the roads to free passage of drainage water and sometimes to provide navigation/ boat passages. Consequently the conflict between drainage and road networks is mitigated. Figures below show bridge and culverts in such system.



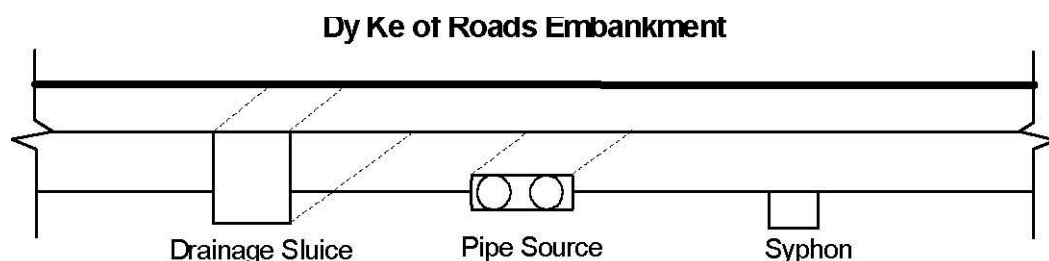
Definition Sketch Bridge Definition Sketch Culvert

**Figure 12.6:** Bridge and Culvert

## Drainage sluices, pipe sluices and siphons

Drainage sluices, pipe sluices and siphons are provided on the embankments. Embankments protect the area from floods coming from outside rivers and make the project area flood free.

However storm water from rainfall-runoff within the area causes localized flood, drainage congestion and submergence. A sketch below shows a few of such structures.



**Figure 12.7:** A schematic view of Drainage sluice, pipe sluice and siphon on embankment which relieve drainage congestion.

## 12.3 Plans for Drainage Management and Flood Control

### 12.3.1 Plan for Drain Network Development Drainage Network Plan

The Paurashava needs a hierarchical drainage system for easy and smooth discharge of storm and waste water comprising tertiary, secondary and primary drains. The existing natural khals will serve as primary drains.

### 12.3.2 Proposal for Improvement of the Existing Drain Networks

Paurashava has only 1.85 km pucca drainage network at western part of Char Fasson paurashava. A narrow portion of the paurashava is served by this network system. Based on the results of drainage study it is recommended for the existing drain that:

- Rehabilitate broken drains;
- Cover the open drains based on budget allocation.
- Construction of new channels and rehabilitation of old ones with enough drainage head.
- Remove all un-authorized structures, which developed on drainage structures.
- Regular cleaning and maintenance by the concerned authorities.
- Embarking on a sustained public enlightenment to discourage residents from dumping their refuse into drainage channels.

### 12.3.3 Outfall of Drains

Maximum drainage out fall exists at Char Fasson Paurashava are in canal/ khals in different ward and low lying areas. 22 new outfalls will be created through the establishment proposed drainage network.

#### 12.3.3.1 List of Proposed New Drains

There are 33.93 km and 65.29 km new secondary and tertiary drains will be served along with the existing primary drains (natural khals). Based on this primary drain drainage network system of Char Fasson Paurashava will be established. Table 12.7 shows the summary of proposed drainage facilities at Char Fasson Paurashava. And Map 12.2 shows the drainage network proposal for Char Fasson Paurashava. Phasing of proposed drains has been shown in **Annexure F**.

**Table 12.7: Summary of proposed drain**

Type of Drain	Length (in M)	Length (in Km)	%
Secondary Drain	33931.07	33.93	41.33
Tertiary Drain	65295.68	65.29	79.54
<b>Total</b>	<b>82078.27</b>	<b>82.08</b>	<b>100.00</b>

#### 12.3.3.2 List of Infrastructure measures for Drainage and Flood Control Network

There are 77 culverts and 29 bridges newly for drainage and flood control network of Char Fasson Paurashava.

## 12.4 Implementation Strategies and Principles

### 12.4.1 Plan Implementation Strategies

Management of a drainage system is more difficult than its construction. It requires not only an institutional set up but also huge resources for regular maintenance. The present engineering set up of the Paurashava is highly inadequate to manage the future drainage network. It must be equipped not only with adequate manpower but also sufficient number of logistics and equipment will be necessary for sound maintenance of the drainage system. For Char Fasson Paurashava

with its meager revenue earning it will be extremely difficult to go for regular maintenance of the drainage system without government assistance. So, the Paurashava must be provided with sufficient budget allocation to maintenance going on regularly. The next strategy will be to create awareness among the citizens not to dispose of solid waste in the drains and get them clogged. This can be done by regular publicity, engaging NGOs for motivation and the last imposing punitive measures like, fine on the waste disposer.

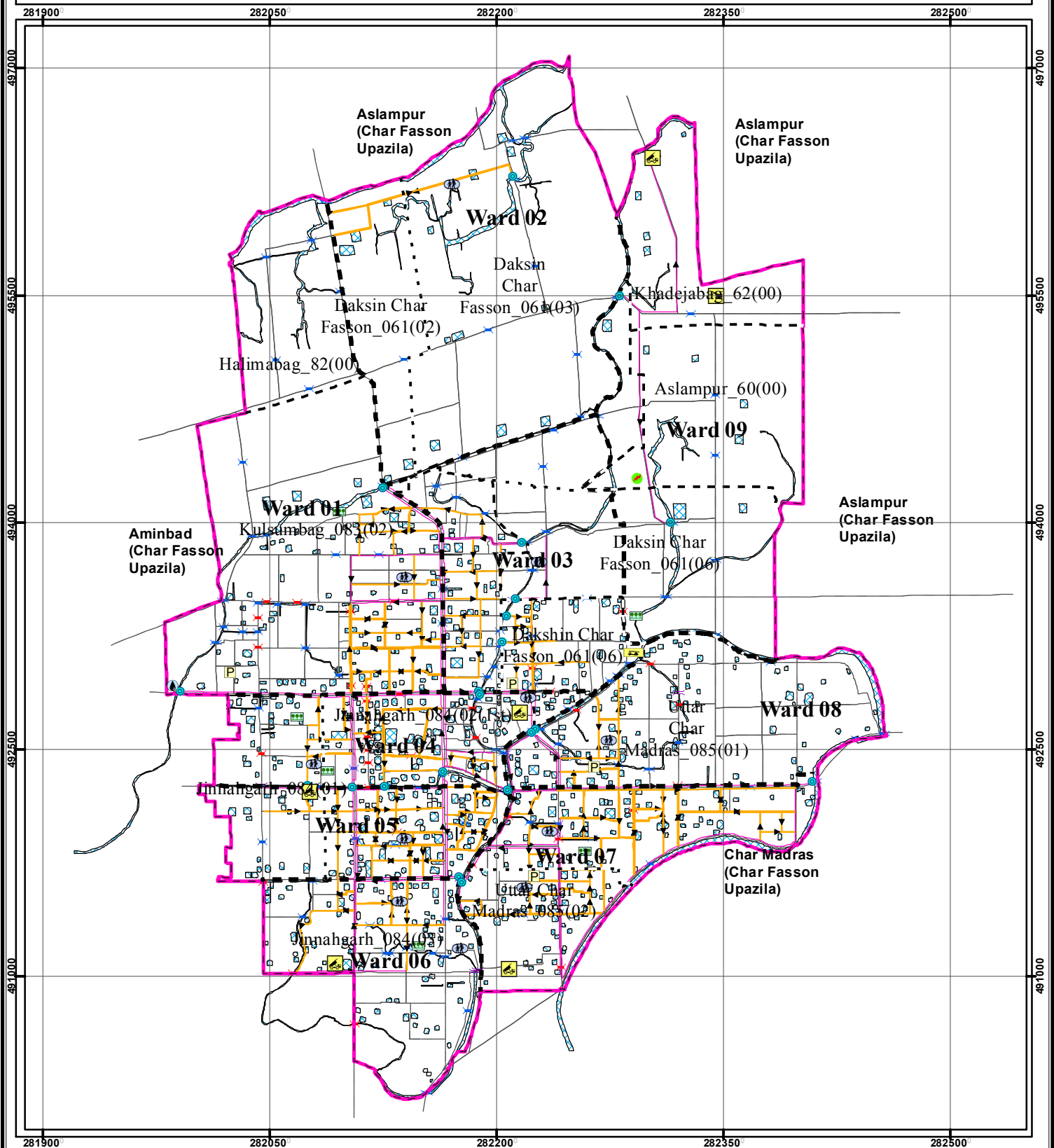
#### 12.4.2 Regulations to implement the drainage and flood plan

Regulations in Bangladesh which are related to drainage and flood management:

1. **The Acquisition and Requisition of Immovable Property Ordinance, 1982**, for acquisition of land to construct drainage and flood control structures. The Bangladesh Water Development Board is main executing organization to implement drainage and flood control activities.
2. **National Water Policy (NWP)-1999**, regulatory policy to construct structures for flood control and drainage management. The Bangladesh Water Development Board is the executing and regulatory organization.
3. **National Water Management Plan (NWMP)-2004**, regulatory plan for management of flood, drainage and water resources of Bangladesh. The Bangladesh Water Development Board is the executing and regulatory organization. Local Government Engineering Department (LGED) is responsible for management of small scale water resources in Bangladesh.
4. **Canal and Drainage Act, 1872** has enacted for excavation of canal and removal of drainage congestion from agriculture land.
5. **Public Health (Emergency Provision) Ordinance, 1944** has enacted for the improvement of drainage and sanitation facilities. Department of Public Health Engineering (DPHE) is authorized to enforce the regulations.

**Water Body Reservoir Act 2000** has enacted for the provision to control the illegal development activities on natural water body of Metropolitan city, Divisional town, District town and all other Paurashava area. The act also enacts that Natural Streams (River, khal, Beel, Large pond/ Lake, Waterfall or water bodies which is identified in Master Plan or any place as flood flow area, rain water or other natural drainage water reservoir area proclaimed by Government, Local Government or any organization

Map 12.2: Proposed Drainage & Environment Management Plan of Char Fasson Paurashava



### Legend

#### Admin Boundary

- - - Mouza Boundary
- Paurashava Boundary
- - - Sheet Boundary
- - - Ward Boundary

#### Existing Bridge

- Bridge
- Culvert

#### Proposed Bridge

- Bridge
- Culvert

#### Proposed Environmental Features

- Central Park
- Dumping Station
- Electric Sub Station
- Fire Service
- Neighborhood Park
- Playground
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

- BB\_Pro\_Outfall
- Proposed Road Centerline
- Primary Drain
- Secondary Drain
- Tertiary Drain
- Waterbody

0 137.5 275 550 825 1,100 Meters



Local Government Engineering Department (LGED)  
Government of the People's Republic of Bangladesh  
Ministry of Local Government,  
Rural Development and Cooperatives

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## **12.5 Environmental Management Plan**

This section describes the goals and objectives, and methodology and approach to planning of environment management plan.

### **12.5.1 Goals and Objectives**

Urban planners today are becoming ever more involved with environmental concerns. Environmental planning coordinates development to meet objectives for clean air and water; removal of toxic and other wastes; recycling of resources; energy conservation; protection of wetlands, beaches, hillsides, farmlands, forests, and floodplains; and preservation of wildlife, natural reserves, and rivers. Historic preservation strives to keep important buildings and places as part of the permanent environment and uses them to finance the maintenance costs.

Every development work has both positive and negative impacts on environment. It is wise to consider the environmental impacts and its mitigation at planning stage. Environmental consideration at planning process can make the project sustainable for long period. The objectives of Environmental Study of Char Fasson Structure Plan, Master Plan and Detailed Area Plan project are,

- to study the existing ecological system and environmental problems in the project area;
- to suggest the mitigation measures for all environmental problems;
- to provide the guidelines and assist the planners, engineers and consultants involved in this
- project in preparing environmentally sound Plan for Char Fasson Town and
- to prepare an Environmental Management Plan (EMP) for future environmental management in the area.

### **12.5.2 Methodology and Approach to Planning**

In environmental study, a multi-disciplinary approach is used for studying development project. The present environmental study is based on data collection and sharing with drainage and geology, transport engineering, socio-economic, economic and topographical survey components. A structured questionnaire prepared by LGED for environmental survey has been followed. Environmental study has been carried out through survey of biodiversity of flora and fauna, water pollution, local air pollution problem, drinking water sources, renewable energy, diseases, and major local environmental issues.

Secondary data has been collected from BWDB, UP Offices, Civil Surgeon Office, Thana Fisheries Office, District Agriculture Extension Office and Meteorological Department. Reports of national organizations were also considered as secondary sources of information.

### **12.5.3 Existing Environmental Condition**

With the increase of housing along with population will produce impact on the environment. Rapid urbanization and numerous human activities will deteriorate the environment, if the infrastructure is not developed as per requirement. So, before planning and designing of any development project, possible adverse environmental impact should be studied. The whole range of potential impacts of the project of various environmental components due to various project activities should be identified qualitatively and in quantities, where they are possible. After identification of significant impacts and issues arising out of them, mitigation measures or project modification/ alternatives will have to be proposed to address the environmental impact issues. An environmental management plan should also be formulated for mitigation and protection of adverse effect of the project on the environment. Environmental consideration in the planning process can make the project sustainable for a long period.

#### **12.5.3.1 Geo-morphology Geology, Soil, Sub soil Condition**

Char Fasson Paurashava has three main types of soils with different qualities. Calcareous grey floodplain soils are structured grey silt loams to silty clays. The northern part of the area has silty

clay loam of the Ganges River. The southern part has grey silty clay of the Meghna River. However, soil condition of Char Fasson Paurashava comprises diversified characteristics.

### 12.5.3.2 Climate

The Climate of an area is comprised of its Temperature, Average Humidity (%), Rainfall, Wind Speed and Hydrology. This zila bears a hot summer and a mild winter. But almost all the area of the zila is occasionally affected by cyclonic storm surges and tidal bores that originate over the Bay of Bengal during monsoon.

### 12.5.3.3 Temperature

Temperature rises steadily from January to April, remains fairly steady from April to October and then falls to reach the lowest in January. The maximum average monthly temperature is 35.8°C in August and minimum average monthly temperature is 7.8°C in January in 2003. The monsoon starts from June and maximum rainfall is experienced from July to September. Fig 3.8 present the temperature level (2000-2010) to convey the circumstances more obviously.

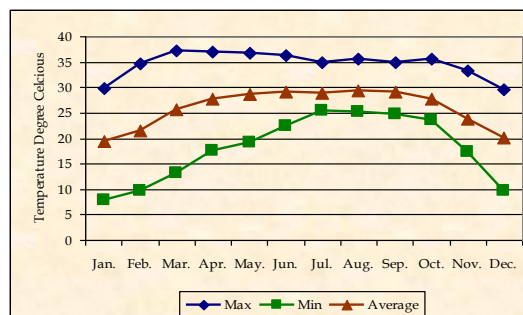


Fig 12.8: Monthly Average Temperature for the year 2000-2010;

Source: Bangladesh Metrological Department, 2011

### 12.5.3.4 Humidity

The weather of Char Fasson Planning area is not more contradictory from the natural weather of Bangladesh. But due to coastal characteristics, weather of this area has few special characteristics. The humidity is comparatively high in the coastal region rather than other districts of Bangladesh. Fig 3.9 shows the monthly average humidity of Char Fasson Paurashava.

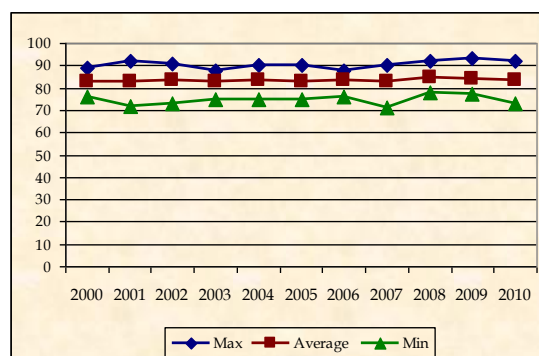


Fig 12.9: Monthly Average Humidity (%) for the year 2000-2010  
Source: Bangladesh Metrological Department, 2011

### 12.5.3.5 Rainfall

The monsoon starts from June and maximum rainfall is experienced in 2004 and lowest in 2010. Annual rainfall as recorded from 2003 to 2010, the maximum was 210.57 mm in 2004 and lowest in 2010 about 64.08 mm. It is recorded that during June to October there are high volume of rainfall.

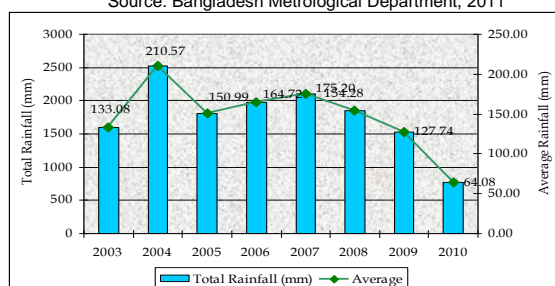


Fig 12.10: Rain Fall Data of Several Years  
Source: Bangladesh Metrological Department 2011

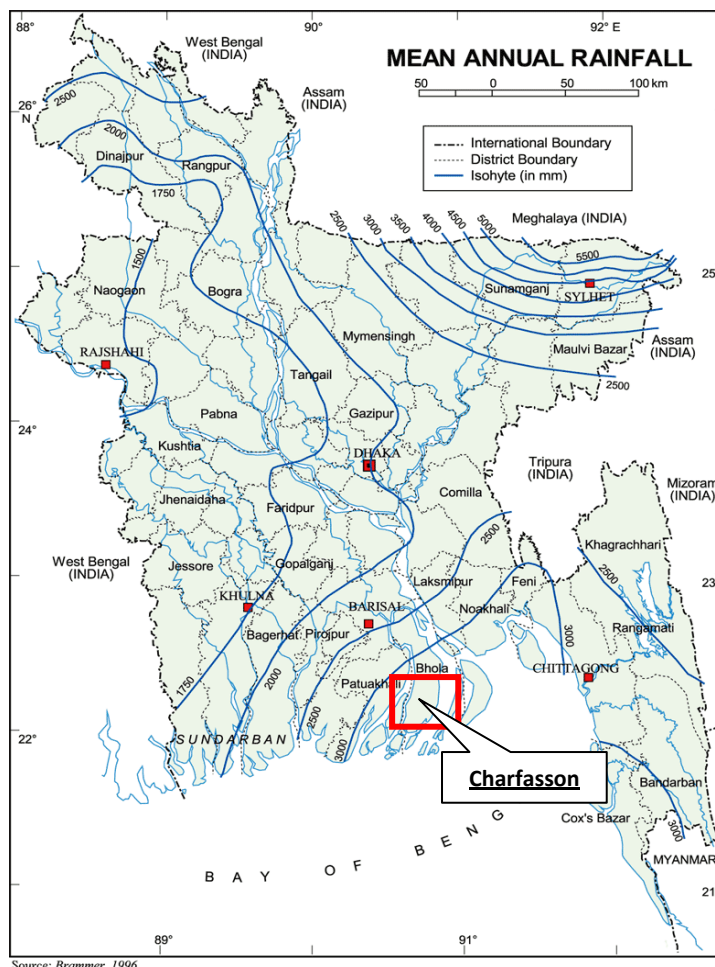
#### 12.5.3.6 Wind directions

The general direction of the wind is the same as that in the Gangetic Delta: south-west, changing to east for the greater part of the year, with a north and north-west direction during the months of April and May. Nor-wasters are caused by outbreaks of cold air from Central Asia which enters Bangladesh from the northwest. This wind occurs at the interface between the advancing cold air and warm air already present in the region. The temperature difference across the interface is large enough to generate the large scale turbulence which, in turn, generates thunderstorms along the interface.

More specifically Char Fasson paurashava's most of the time wind is calm (61.7 %) which is followed by 1-2.5 m/s wind speed (29.9%) and 2.5-5 m/s wind speed (7.2%).

#### 12.5.3.7 Hydrology

Hydrology can be defined as the scientific study of the waters of the earth, especially with relation to the effects of precipitation and evaporation upon the occurrence and character of water in streams, lakes, and on or below the land surface. The hydrological condition of Char Fasson Planning area is getting of inferior quality day by day.



Source: Brammer, 1996

Source: Bangladesh Metrological Department

**Figure 12.10:** Mean annual rainfall in Bangladesh

#### 12.5.4 Solid Waste and Garbage disposal

Condition of solid waste management at Char Fasson Paurashava is very poor. According to the opinion of surveyed households, there is no dustbin at Char Fasson Paurashava. Most of the people throw their garbage here and there and especially dump to the canal and khal which cause serious environmental pollution and also sometimes clogged the existing drainage network. From the field survey it is also found that there is no clinical waste management system.

##### House Hold Waste

There is no dustbin at Char Fasson Paurashava. Most of the people throw their garbage here and there and especially dump to the canal and khal. There is lack of awareness among the town dwellers.

##### Industrial waste

There is no such mentionable industry within the Char Fasson paurashava causing massive environmental problem.

##### Clinical/ Hospital waste

There is no clinical waste management system.



### **Existing Waste Management System**

At present, there is no solid waste management system at Char Fasson Paurashava. Most of the people throw garbage here and there, which causes serious environmental pollution and also sometimes clogged the existing drainage network.

#### **12.5.5 Brick Field**

There is no brick field at Char Fasson Paurashava.

#### **12.5.6 Pollutions**

##### **Water Pollutions**

Water pollution is one of the major phenomenon in Char Fasson Paurashava. Many causes have been identified for surface water pollution. Maximum surface water are polluted by domestic source and chemical fertilizer used in agriculture field. However, as the area is in coastal region, saline and iron have been contaminated the water. Marine vehicles are also responsible for water pollution of rivers and khals.

##### **Sound Pollution**

Noise pollution is a minor phenomenon in Char Fasson Paurashava. However such type of pollution problem is occurring by the road vehicles. But it has been identified that this is not a major problem for all over the area. It is a problem for some particular road side areas.

##### **Air Pollution**

The households of Char Fasson Paurashava face the little problem of air pollution. There are fourteen mills inside the Char Fasson Paurashava. These mills have been identified as main source of air pollution. No treatment plant is available in the Paurashava. A number of heavy vehicles (Highway bus and truck) move through the road and extract some pollutant particle that also causes air pollution.

##### **Land Pollution**

Land pollution is not found as problem in Char Fasson Paurashava.

##### **Arsenic**

In Char Fasson Paurashava arsenic contamination rate is as low as negligible.

#### **12.5.7 Natural Calamities and Localized Hazards**

##### **Water Logging**

As Char Fasson Paurashava is an island, water logging is not a significant phenomenon in Char Fasson Paurashava.

##### **Flood**

A flood is not a common natural disaster at Char Fasson Paurashava. The area hardly faces flash flood. In 1955, 1974, and 1988 year most of the area of Bangladesh affected by flood but Char Fasson was not affected in that time. The Paurashava was affected only in the flood of 1998. Fig 3.11 shows flood situation in Char Fasson.

##### **Cyclone**

Tropical cyclones from the Bay of Bengal accompanied by storm surges are one of the major disasters in Bangladesh. The country is one of the worst sufferers of all cyclonic casualties in the world. The high number of casualties is due to the fact that cyclones are always associated with storm surges. Char Fasson Paurashava is located on the coastal belt, as a result the people of this area face cyclone almost every year. Devastating cyclones hit the area usually accompanied by high-speed winds, sometimes reaching 220 km/hr or more and 5-6m high waves, causing

extensive damage to life, property and livestock. It has observed that Cyclone hit Char Fasson Paurashava in different years. But, in 1970, 1975, 1991, 2007 and 2009 year the extreme cyclone track is passed over the Char Fasson. The cyclone SIDR and Aila were a big hazard for their natural climatic condition. It also damages many lives, forests, agricultures and infrastructures. For the help of cyclone affected peoples and livestock during and after cyclone there are cyclone centers at Char Fasson Paurashava. Mainly primary schools are serving as cyclone centers. Fig 3.11 shows the cyclone affected year of Char Fasson Paurashava

### **Earthquake**

Earthquake is a natural hazard and the southern area of Bangladesh is not so vulnerable. So, Char Fasson Paurashava is not vulnerable for earthquake. Fig 12.11 shows that Char Fasson is not situated in the vulnerable zone of earthquake.

### **Fire Hazard**

The residents of Char Fasson Paurashava do not normally face the problem of fire.

### **Land Filling**

Land filling creates problem in natural runoff and drainage system. The soil removed by runoff from the land accumulates below the eroded areas, in severe cases blocking roadways or drainage channels and inundating buildings.

### **Encroachment**

Amount of land encroachment at Char Fasson is very little but land encroachment by the side of the canals interrupts the natural drainage system. This may be responsible for the inundation of the Paurashava.

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

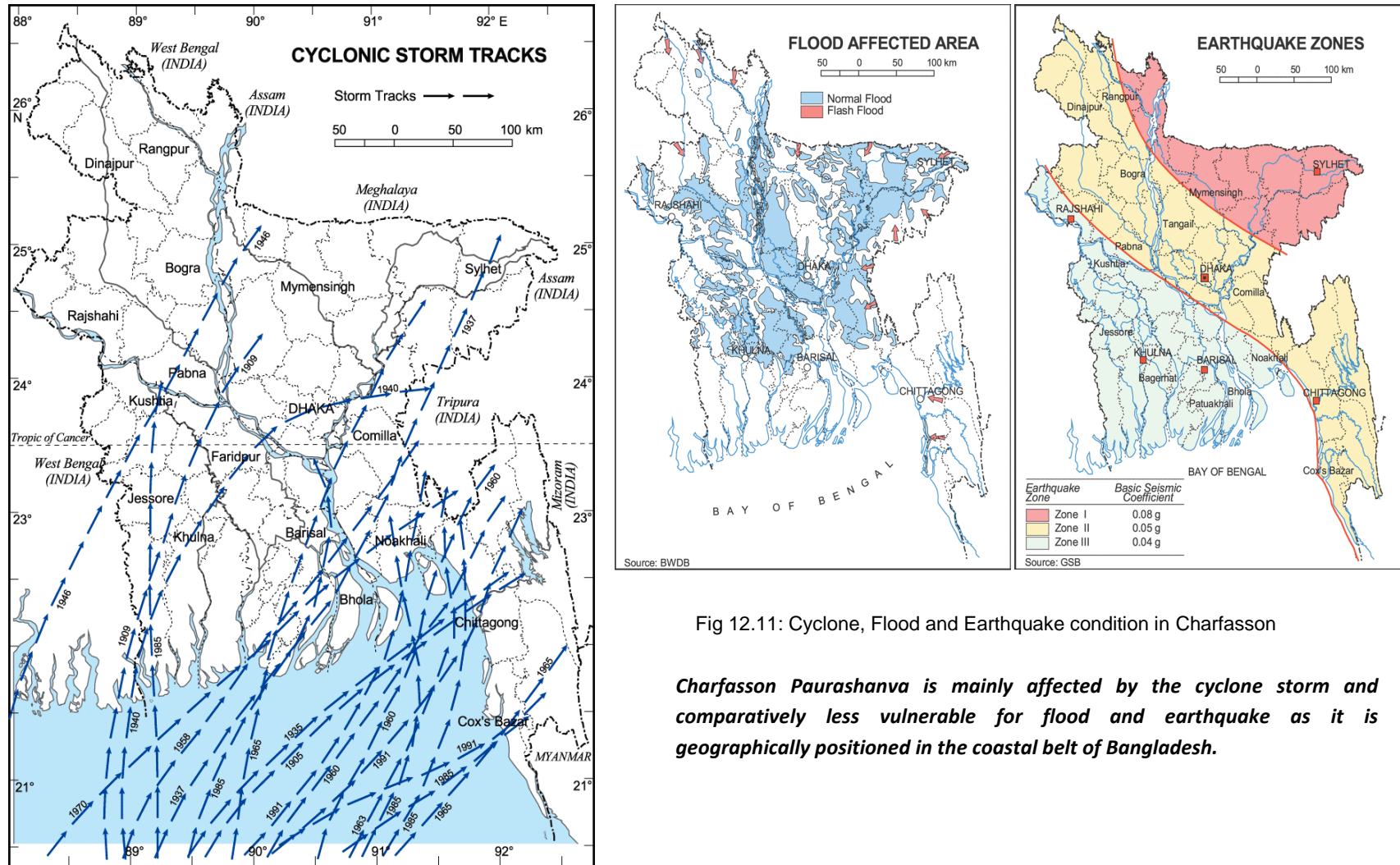


Fig 12.11: Cyclone, Flood and Earthquake condition in Charfasson

*Charfasson Paurashanva is mainly affected by the cyclone storm and comparatively less vulnerable for flood and earthquake as it is geographically positioned in the coastal belt of Bangladesh.*

## **12.6 Plans for Environmental Management and Pollution Control**

The urban environment of Char Fasson Paurashava includes both built and natural environment. Urbanization has some increased hazard on natural environment. Where the built environment overburdens the natural environment urbanization cannot be sustainable. The urbanization is vital for countries economic growth. Urban centers concentrate services, infrastructure, labor, knowledge, entrepreneurship and markets. Marketing cities are key generators of economic activities. The urban economics are critically important in national growth and the achievement of development goal. Urbanization is unavoidable. So in every phase of planning processes all these environmental issues shall be evaluated and proper measure shall be taken to minimize the adverse environmental impacts on land pollution, water and air quality, biodiversity resources and marine resources by energy usage, transport network, waste management, slum improvement, disaster etc.

### **12.6.1 Proposals for Environmental Issues**

#### **12.6.1.1 Solid waste management Plan**

An improved sanitary and sewage system consists of a network of sewers for collection of sewage from the service areas of town and conveying those to the treatment plant. Paurashava has got limited resource and affordability to maintain such a system, as such low-cost sanitary system comprising sanitary/unsanitary latrine is being followed all over the area. To identify the most suitable types of low-cost sanitary latrines for the community; to identify the constraints in installation and use of sanitary latrines and to monitor the behavioral changes as well as the health improvement after providing some sanitary facilities with the intensive motivational work for practicing appropriate defecation systems.

#### **Criteria for Selection of Solid Waste Dumping Site**

Usually the Paurashava does not have its own solid waste disposal site. For selection of solid waste dumping site, the following criteria should be considered.

- Site should not be situated just beside any canal
- Site should be located to minimum fuel distance
- Site should not create any nuisance to the residential areas as well as to the commercial and administrative areas.
- Site should be connected with main road and have sufficient width for truck movement.
- Infiltration of water into the dump should be prevented by covering the wastes with a layer of soil and sloping surface of the dump.

#### **12.6.1.2 Open space, wet-land and relevant features protection Plan**

Canals could be a navigation route to some extent, a source of water and also a source of recreation. Detail land use information of Open spaces is given in Table 10.11, Chapter 10, and Part B of this report.

#### **Mitigation Measures:**

- The river should be preserved for future sustainable source of surface water supply for the City when the city's ground water would be depleted.
- Its banks can serve as breathing space and recreation for the town dwellers.
- The river should be kept pollution free applying regulatory measures based on environmental regulations
- No industry should be allowed within 100 m of the river bank.

#### **Loss of Wetlands**

Wetlands are mainly affected first by the urbanization process. Earth filling fills up the ponds and ditches. Waste water affects the aquatic ecosystem and makes the ponds and ditches unproductive and as a result the aquatic plants, fishes and animals have to die or migrate to other places. There is no strict regulation on earth filling of ponds. The Paurashava can fine only Tk.500

if someone fills the ponds. However, Wetlands Conversation Act exists in Bangladesh, which is applicable only to natural beels and khals. Wetlands play an important role as a reservoir of rain and flood water. They are also important to maintain the balance of ecosystems and for replenishing the ground water level through seepage.

**Mitigation Measures:**

- Designate all ponds in Master Plan Map and protect the large ones according to the ecological importance and public interest.
- Protect the ponds as per regulatory framework of Master Plan.
- Avoiding wetlands during road alignment fixation.
- Stopping housing, industries and other development works in wetlands through earth filling.
- Stopping earth filling of ponds in the area through creation of public awareness.
- Strict implementation of Wetland Conversation Act, 2000.
- Strict implementation of Environment Conversation Act(ECA), 1885
- Create new laws if existing one fails to stop land filling of ponds.

**12.6.1.3 Ground Water Pollution**

Though ground water is not a major source of drinking water supply in the study area, yet ground water pollution by salinity and arsenic is a serious problem for future water supply. It is reported that over 90% of the tube wells are affected by arsenic which is a major threat to health for those who use ground water for drinking purpose. Arsenic is geological problem. But experts view that it arises due excessive extraction of ground water. So in future, when population rises further excessive ground water extraction will aggravate contamination situation.

**Mitigation Measures:**

- Expand use of surface water by protecting existing ponds and excavating new ponds.
- Introduce and popularize rain water harvesting system.
- Reduce dependency on ground water.

**12.6.1.4 Surface Water Pollution**

Various surface water sources of the town are regularly polluted by deliberate drainage of waste water in respect of pH, turbidity and coli form bacteria when compared with national standard. But present pollution level is low due to low density of population and no industrial agglomeration. The main sources of surface water pollution are, urban waste water, sanitary sewage and solid waste dumping. With the implementation of this plan the pollution level may further increase as population and activity will increase leading to increase in waste water, sanitary sewage and solid waste dumping.

**Mitigation Measures:**

- Abolish katcha and hanging latrines.
- Encourage practice of sanitary latrines.
- Take measures against indiscriminate dumping of solid waste.
- Improve sanitation conditions of slaughter house, fish market and katcha bazar.
- Propaganda for public awareness.
- In future set up sewerage treatment plant to treat waste water.

**12.6.1.5 Industrial Pollution**

There is no proposal for heavy industrial development. Though no significant industrial development has been marked in this Paurashava, provision for cottage or agro-based industries

have been designated in the plan. For this reason, no effluent industrial waste treatment plant is required here.

## **12.6.2 Natural calamities and regular hazard mitigation proposals**

### **12.6.2.1 Cyclone**

Cyclone is a regular natural calamity in the study area. It affects the poor people mostly who can not build houses with permanent materials. Cyclones also destroy trees and other establishments causing economic losses. It is not possible to prevent cyclones, but it is possible to reduce the losses by cyclones.

#### **Mitigation Measures:**

- Provide housing loan to build houses with permanent materials.
- Take measures to promote employment and reduce poverty.
- Take appropriate measures for post disaster loss mitigation.

### **12.6.2.2 Flood Protection**

The road along the canals has eroded to some extent. With implementation of Master Plan (MP) Project, the whole project area will be protected from flooding.

#### **Enhancement Activities:**

- Arrangement of pump drainage to canals during high flood when gravitational drainage fails.
- Pump of excess water will save the area from internal flooding.

**Responsible Organizations:** BWDB and Paurashava

### **12.6.2.3 Earthquake**

Although Char Fasson is not Earthquake prone area, however unplanned and unregulated urbanization and disregard to BNBC rules in building construction may cause it vulnerable in future. With the implementation of SMP the planned urbanization will strictly follow the actual zoning plan and following of BNBC rule will minimize the earthquake damage. In DMDP Urban Area Plan Volume-II, (Part-3, Interim Planning Rules) development restriction considering the geological fault line areas states “Structures above 2 storeys situated within 500 meters of a geological fault is not allowed unless built to the BNBC standards for Seismic Zone 3 (BNBC Section 6 Chapter 2.25)”.

#### **Enhancement Activities:**

- Ensure all new buildings are designed and constructed following the guideline of BNBC.
- Development of a comprehensive plan for managing post-earthquake situation.
- Train community workers who would carry out the initial search and rescue efforts.
- Launch a massive public awareness campaign.

**Responsible Organizations:** Paurashava, MOFDM, Civil Defense, Fire Service and DO

### **12.6.2.4 Fire Hazard**

Though fire hazard is low in the town it might increase in future with increased urbanization. Fire hazard will be severe when katcha housing will be built by low income poor people of the town. To avoid fire hazard following mitigation measures are recommended.

#### **Mitigation Measures:**

- Set up modern fire extinguishing devices.
- Discourage people from using low quality electrical wire in building and industries.
- Ensure periodical checking of electrical lines.

- Advise low income dwellers about cooking safety.
- Create awareness among people about the dangers of fire hazard.

#### 12.6.2.5 Protection Plan addressing encroachment and other relevant issues

Implementation of SMP activities like roads, drainage, bridge/culvert, housing and industrial estates and bazars will radically change the natural topography and land use pattern of the area. The agricultural area will be converted into urban and semi-urban area. The present green scenic beauty will disappear, water bodies will be lost due to rapid urbanization.

#### Mitigation Measures:

- Careful planning to minimize the change of the area.
- Avoid water bodies during construction of roads, housing and industrial estates.
- Practice good architectural/engineering design during planning of housing estates, buildings and the intersections of main roads.
- Enhancement of plantation and gardening to increase the scenic beauty of the town.
- Preserve the ponds, chhoras and large water bodies.
- Strict implementation of Environment Conservation Act(ECA), 1885
- Propaganda for public awareness

**Responsible Organizations:** Paurashava, DOE and Forest Department

### 12.7 Plan Implementation Strategies

#### 12.7.1 Regulations to Implement the Environment Management Plan

Related rules and regulations for urban environment management to protect environment for sustainable urban development:

1. **Local Government (Paurashava) Ordinance 2009**, Paurashava's responsibility to concern solid wastes and sustainable development.
2. **Environmental Conservation Act 1995**, to concern water quality, air quality, noise abatement and solid wastes etc. The Department of Environment is the law enforcing organization.
3. **Environmental Conservation Rules 1997**, to concern water quality, air quality, noise abatement and solid wastes etc. The Department of Environment is the law enforcing organization.
4. **Acquisition and Requisition of Immovable Property Ordinance, 1982** is needed for acquisition of land in view to construct environmental components. The authority, according to the demand, will apply to the Deputy Commissioner for such acquisition.
5. **Conservation of Environment Act, 1995** have prescribed duties and responsibilities of the Director. Most of those responsibilities are on the control of pollution.
6. **Playfield, Open space, Garden and Natural Tank in Urban Areas Preservation Act, 2000** will be needed for the preservation of playfield, garden, open space and natural tank of the Paurashava.
7. **Water Hyacinth Act, 1936** was enacted for preventing the spread of water hyacinth in Bangladesh and for its destruction. It is said in the section 5 that, no person shall grow or cultivate water hyacinth in any garden or in any ornamental water or receptacle. Again, according to the section 8(1) said, with a view to facilitating the discovery or destruction of water hyacinth, an Authorized Officer may, subject to any rules made under this Act, by a notice served in the prescribed manner, direct an occupier of any land, premises or water within a notified area to cause-
  - (a) any branches of trees or shrubs on any such land or premises which overhang the edge of any river, stream, waterway, ditch, marsh, bil, lake, tank, pond, pool or pit to be cut back and any undergrowth or jungle thereon to be removed from such edge, within a distance specified in the notice, or

- (b) any vegetation appearing above the surface of any such water to be removed from the water, within such period as may be specified in the notice.

### 12.7.2 Implementation, Monitoring, Evaluation and Coordination of the Plan

**Implementation through Multi-Sectoral Investment Programme:** Major infrastructure development works such as primary roads, water supply, drainage, etc., will largely be controlled by Government. Public works requires efficient co-ordination through the Multi-Sectoral Investment Programme (MSIP).

Objective of a Multi-Sectoral Investment Programme (MSIP) will match a list of the development projects with the funding stream necessary to implement them. There are two basic activities that would determine the contents of MSIP. Firstly, activity would be to prioritize and schedule the investment projects of all public agencies so they will collectively help to achieve the development goals and objectives of the Urban Area Plan. Second activity would be to analyze the source and availability of fund for the prioritized list of development projects.

**Implementation through Action Plans and Projects:** Action Plans and Projects will be the implementation plans to solve problems at the local level. Action plans will take a direct approach toward plan implementation with a minimum of research, reports or elaborate planning methods. These projects will be easily identifiable and will require minimum resource.

**Implementation through Development Control:** Landuse zoning is one of several methods of plan implementation to be considered. In all cases where some form of development, landuse control may be applied; careful consideration requires the following ideologies:

- The purpose to be achieved by the development controls;
- Where controls should be applied;
- What aspect of development needs to be controlled?
- What type of development controls are required;
- What degree or level of development control is required?
- Who will be affected by the required control?
- Who will be affected by the controls and in what manner?
- When the controls should be applied;
- What will be the likely impact of the controls?
- How and by whom will the controls be administered and enforced.

Development control as an instrument of plan implementation may be selectively applied within the Urban Area Plans. Development controls would also be varied in intensity and detail to suit the particular circumstances. It is important that they should be clear and easily understood by all parties concerned. Since the entire Paurashava Master Plan 'package' has become statutory, development controls associated with its component plans would also be statutory.

**Implementation by Facilitating Private Investment:** Another approach that would be taken by government toward plan implementation will be to guide and facilitate investments made by the private sector. Government can achieve this with relative ease and at very low cost by setting up a legal and operational framework, coupled with suitable incentives, to facilitate land consolidation, plot boundary readjustment, efficient layout of plots and provision of local infrastructure by the private sector. The benefits of this approach would be:

- increased efficiency of the urban land market would make, more private land available to urban households;
- would pass much of the development costs for local infrastructure to the private sector and land market mechanisms;
- would increase in land for development without large cash outlays by government to purchase land for development schemes; and
- would keep provision of land for community facilities virtually no cost to government.



### **Plan Monitoring**

The Urban Area Plan would simply be tools for guiding and encouraging the growth and development of an urban area in a preferred manner. In a rapidly changing urban environment, the Urban Area Plan would require to keep up to date. If this is not done, within a few years it will be obsolete. Therefore, it is imperative that the requirement for regular updating of the Urban Area Plan be made a legal requirement.

For implementation of the various programme components of the Urban Area Plan appropriate administrative measures will have to be undertaken. This will essentially include project preparation and monitoring of their execution and evaluation. For carrying out all these activities appropriate institutional measures are also be needed.

### **Evaluation**

Monitoring and evaluation of ongoing and implemented projects is essential to keep the future course of action on the right track. An ongoing project should be regularly monitored and handicaps identified to enable taking appropriate measures at the right time.

Post implementation evaluation is also needed to take appropriate measures correcting past errors-from project preparation to implementation.

The top level supervision has to be done by a high level supervisory committee headed by Paurashava Mayor, LGED representative and Local Government Ministry. Other members of the committee will be local Ward Councilors, local community leader/social workers and the Town Planner of the Paurashava. The committee will supervise implementation works.

### **Co-ordination**

A Planning Section of Paurashava should have close interaction with the citizen of Paurashava at large in order to make people aware of the benefits of a good plan and, therefore, their social responsibility to promote plan implementation in one hand and also resist contraventions on the other. In this way it will be possible to ensure governance at paurashava level. A specific interactive cell is recommended to operate in this regard with following responsibilities:

- Provide pre-application advice to residents, consultants and developers about landuse management issues and application procedures for the submission of development applications.
- Enforce planning and landuse management related legislation and zoning scheme regulations.
- Issue of property zoning certificates.
- Investigate and resolve landuse management complaints, illegal landuse and prosecuting contraventions.

Such interactive windows may be opened in various convenient locations to ensure ease of the answers to commonly asked questions may be shown in the internet. Besides, those may be shown in the print and electronic media time to time.

In spontaneous areas, while all out people's co-operation is needed for project implementation; there will also be some elements of negotiation. Negotiation will be particularly needed in case of road widening projects. It will be a crucial task for Paurashava to convince the affected people to give up their land for road use. Efforts should be made to convince the land owners on the ground of enhancement of property value due to road widening. In case people refuse to offer land free of cost necessary arrangements may have to be made for payment of compensation. This process of negotiation will be very critical, cumbersome and time consuming, and therefore, has to be handled with utmost care and patience. The best results can be accrued only by winning people's confidence. In case the authority fails to get peoples co-operation they should exercise power of compulsory acquisition of land. Attempts may be made to engage NGOs / CBOs to work as catalysts in negotiation.

## **Chapter – 13**

### **PLAN FOR URBAN SERVICES**

#### **13.1 Introduction**

Urban planning is critical to the healthy growth of cities. Unplanned growth leads a number of problems, creating misery for urban dwellers and making remedying of those difficulties. Yet flawed urban planning is little better, or perhaps worse, than no urban planning at all. It is thus important, when taking on such an enormous task as the drafting of an Urban Area Plan for a Paurashava, to ensure that the plan is well considered and likely to be conducive to good health and well-being of the urban dwellers.

#### **13.2 Consideration for the Preparation of Urban Service**

- Specify whether the urban service will be provided in the future by a city, county, district, authority or a combination of one or more cities, counties, districts or authorities.
- Set forth the functional role of each service provider in the future provision of the urban service.
- Determine the future service area for each provider of the urban service.
- Assign responsibilities for:
  - Planning and coordinating provision of the urban service with other urban services;
  - Planning, constructing and maintaining service facilities; and
  - Managing and administering provision of services to urban users.

#### **13.3 Range and Content of the Urban Service**

The Plan for Urban Services covers planning area of Char Fasson Paurashava for ten years' time-frame (from 2011 to 2021). It also comprises with report and maps.

The Plan is concerned where services will be located (expected development). It also indicates how the Structure Plan policies will govern the areas and the standard for services calculated based on the population projection.

Outline of the Plan gives guidance to the Paurashava how the urban services will be developed and be promoted, maintained with a coordinated manner.

This chapter describes the urban basic services development proposals for future development of the Paurashava. The proposals have been made at the town level, under the urban area plan. The local level development proposals will be addressed in the Ward Action Plan. The development proposals deal with the basic urban services, like, water supply, drainage, sanitation, solid waste, telecommunication, electricity and community facilities, education and health.

##### **13.3.1 Water Supply**

According to survey, the set-up of water supply facility divulged that very few households (0.60% of the total households) have water supply facility at Char Fasson Paurashava. Most of the households' uses different other sources such well, tube-well, pond etc as source of drinking water.

Quality of the supply system is not so satisfactory. About 94.4% of the surveyed households affirmed that there is no water supply facility available for them. About 5.6% of the household reported that the water supply facilities of the area are moderate.

### **13.3.2 Solid Waste**

There will be 5 waste transfer stations with an area of 2.63 acres for collection of solid waste located at suitable locations. A dumping site will be developed over an area of 7.75 acres for final disposal of the solid waste. The waste dumping site is located in Ward no. 09.

### **13.3.3 Telecommunication**

The town enjoys the networks of all mobile companies operating in the country. Due to easy and cheaper access to mobile, there is actually no demand for BTCL network.

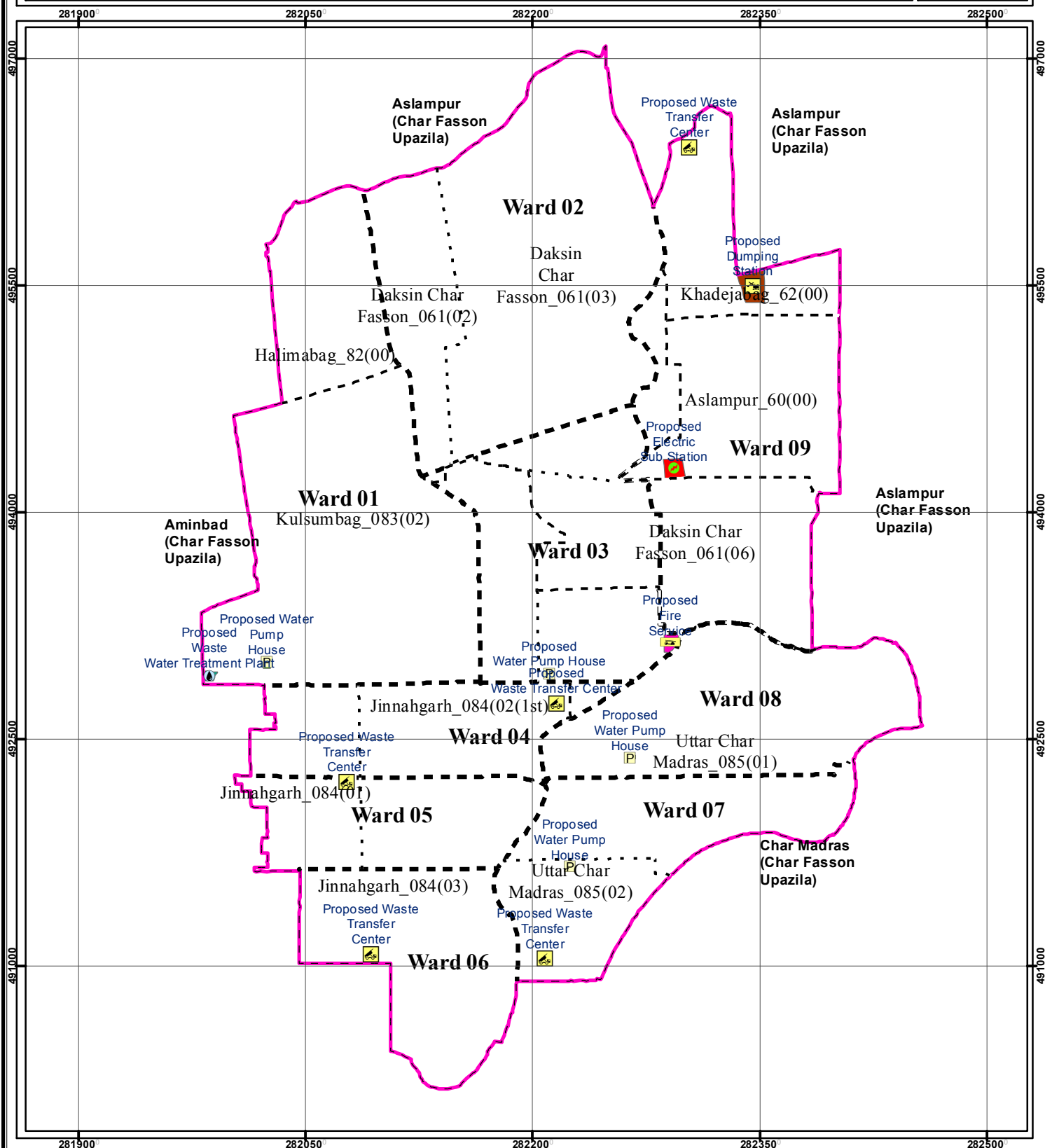
### **13.3.4 Sanitation**

The BBS data shows that about 86.21% of the households have other types of toilet such as kutcha toilet, hanging toilet, etc whereas about 10.26% households have sanitary toilet facilities. Furthermore, about 3.53% of the households have no toilet facilities.

The socio-economic survey results indicate that about 98.3% of the toilets are Pucca and the rest 1.7 % are Kutcha. However, the condition of toilet is not so bad since about 1.7% households has katcha toilet. Due to prohibitive expenditure one should not expect establishing network and treatment plant based sewerage system in the town by the Paurashava. So, for long the sanitary system of the Paurashava will remain on site. To promote healthy sanitation, Paurashava should promote low cost sanitary latrines in the town together with awareness building for healthy sanitation. It is proposed to set up public toilets in public gathering areas, like, existing and proposed bus stand, bazar and the main town center.

**Map 13.1** shows the proposed Utility Services in Char Fasson Paurashava.

Map 13.1: Proposed Urban Services of Char Fasson Paurashava



### Legend

#### Admin Boundary

- - - Mouza Boundary
- Paurashava Boundary
- - - Sheet Boundary
- - - Ward Boundary

#### Proposed Urban Service Features

- Dumping Station
- Electric Sub Station
- Fire Service
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

#### Proposed Urban Services

- Dumping Station
- Electric Sub Station
- Fire Service
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

0 262.5 525 1,050 Meters



Local Government Engineering Department (LGED)  
Government of the People's Republic of Bangladesh  
Ministry of Local Government,  
Rural Development and Cooperatives

#### CONSULTANT

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Dhaka - 1000  
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In Association with

### **13.4 Regulations to Address the Proposals**

#### **Local Government (Paurashava) Act, 2009 (Ordinance No. XLXVIII of 2009)**

According to the 2<sup>nd</sup> Schedule, Sl. No. 10, the Paurashava may provide supply of water sufficient for public and private purposes. Frame and execute water supply scheme for the construction and maintenance of such works for storage and distribution of water. In case of private sources of water supply, it is said that, all private sources of water supply within the Paurashava shall be subject to control, regulation and inspection by the Paurashava. No new well, water pump or any other source of water for drinking purposes will be dug, constructed or provided except with the sanction of the Paurashava.

The regulations, as discussed above, will be needed for provision of drinking water supply both Paurashava and private sources in the Paurashava.

The sewerage facilities may be provided by the Paurashava and Department of Public Health Engineering (DPHE). According to the 2<sup>nd</sup> Schedule, Sl. No. 12, of the Local Government (Paurashava) Ordinance, 2009, Paurashava provide an adequate system of public drains and all such drains shall be constructed, maintained, kept, cleared and emptied with due regard to the health and convenience of the public. All private drains shall be subject to control, regulation and inspection by the Paurashava.

#### **Public Health (Emergency Provisions) Ordinance, 1944 (Ordinance No. XXI of 1944)**

According to the section 2(e) "public health services" and "public health establishment" include respectively sanitary, water-supply, vaccination, sewage disposal, drainage and conservancy services and establishment maintained for the purposes of such services, and any other service or establishment of a local authority which the Government may by notification in the Official Gazette declare to be a public health service or public health establishment for any purpose of this Ordinance.

The Department of Public Health Engineering (DPHE) is performing activities for drinking water supply. At Paurashava level If DPHE likes to render their service according to the water supply network as presented in this plan, the regulation will be the safeguard for them.

#### **East Pakistan Water and Power Development Authority Rules, 1965 (No. 4-1(E))**

The Power Development Board (PDB) is empowered for power generation under the guidance of Electricity Act, 1910. At present, PDB and Rural Electrification Board (under the Rural Electrification Board Ordinance, 1977) is performing the role relevant with the electrification of the Paurashava. The existing authorities will be needed for electrification of the Paurashava according to the guidelines presented in the plan.

#### **Telegraph and Telephone Board Ordinance, 1975 (Ordinance No. XLVII of 1975)**

A Telegraph and Telephone Board (T&T Board) was composed through this Ordinance. Section 6(1) of the Ordinance has prescribed the functions of the Board and said, it shall be the function of the Board to provide efficient telegraph and telephone services and to do all acts and things necessary for the development of telegraphs and telephones. In the Paurashava, at present, a T & T Board is performing the functions prescribed in the section 6(1). T & T Board is the sole authority for performing the same and it will be continued in future also. But, the Mobile telephone system generates a revolution in the society. Most of the people are depended on the Mobile phone system. The plan does not consider this system.

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### 13.5 Implementation, Monitoring and Evaluation

#### Regulations to Address the Proposals

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#### Implementation, Monitoring and Evaluation of the Urban Services Plan

**Implementation through Multi-Sectoral Investment Program:** Major infrastructure development works such as primary roads, water supply, drainage, etc., will largely be controlled by Government. Public works requires efficient co-ordination through the Multi-Sectoral Investment Program (MSIP).

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### **Plan Monitoring**

The Urban Services Plan would simply be tools for guiding and encouraging the growth and development of an urban area in a preferred manner. In a rapidly changing urban environment, the Urban Services Plan would require to keep up to date. If this is not done, within a few years it will be obsolete. Therefore, it is imperative that the requirement for regular updating of the Urban Services Plan be made a legal requirement.

For implementation of the various program components of the Urban Services Plan appropriate administrative measures will have to be undertaken. This will essentially include project preparation and monitoring of their execution and evaluation. For carrying out all these activities appropriate institutional measures are also be needed.

### **Evaluation**

Monitoring and evaluation of ongoing and implemented projects is essential to keep the future course of action on the right track. An ongoing project should be regularly monitored and handicaps identified to enable taking appropriate measures at the right time.

Post implementation evaluation is also needed to take appropriate measures correcting past errors-from project preparation to implementation.

The top level supervision has to be done by a high level supervisory committee headed by the Paurashava Mayor, representatives of the service giving agencies and Local Government Ministry. Other members of the committee will be local Ward Councilors, local community leader/social workers and the Town Planner of the Paurashava. The committee will supervise implementation works regularly and issue necessary instructions to expedite the works of implementation.



## **Part C. Ward Action Plan**

## **Chapter-14**

### **WARD ACTION PLAN**

#### **14.1 Introduction**

This chapter contains Ward Action Plan of each individual Ward. First, the issues prevailing in different Wards have been briefly described followed by description of Development Proposals in first ward action plan (1<sup>st</sup> to 5<sup>th</sup> year of planning period) for each Ward.

##### **14.1.1 Background**

The Ward Action Plans are prepared under the framework of Structure Plan and Urban Area Plan. The Ward Action Plans contain details of development proposals at Ward level including the problems and opportunities existing therein and also include the proposals made in the upper level plan that is in the Urban Area Plan. The Ward Action Plans have been formulated for execution within a period of 5 years.

Ward Action Plan is a vital part of the current plan package as far as spatial development and development control is concerned. Absence of Ward Action Plan not only hampers undertaking of development projects by planning authority, but also leads to uncontrolled and unwanted spatial development in the private sector. Land use zoning is also provided in the Ward Action Plan to enable detailed view of proposed land use and development.

##### **14.1.2 Content and Form of Ward Action Plan**

The Ward Action Plan is detailed area plan based on the policy framework, guideline indication of Structure Plan and more detailed guideline of Urban Area Plan. The provision of Ward Action Plan is inherent in the Structure Plan with some specific purposes. The Ward Action Plan is to:

- a. Provide basic micro level infrastructure and services in the study area through systematic planning, under the framework of Structure Plan and proposals of the Urban Area Plan;
- b. Create congenial environment to promote economic activities;
- c. Improve drainage system and protect natural water channels from encroachment; and
- d. Create service centers to promote urban growth.

##### **14.1.3 Linkage with Structure and Urban Area Plan**

Ward Action Plan is the 3<sup>rd</sup> component of the Master Plan package. The other two upper level components are Structure Plan and Urban Area Plan. Structure Plan lay down the framework of the future plan including strategy and the sectoral policies. The Urban Area Plan and the Ward Action Plan detail out development proposals under the framework of Structure Plan.

#### **14.2 Derivation of Ward Action Plan**

The Ward Action Plan is derived from the conceptual framework, and guidelines and strategies for development under Structure Plan and detailed proposals of Urban Area Plan. Ward Action Plan is aimed to provide detailed infrastructure plan to guide the physical development of Char Fasson town including its all economic and social activities. This plan adheres to the policy directives spelled out in the Structure Plan.

##### **14.2.1 Revisiting Structure Plan and Urban Area Plan**

To guide long term growth of the Paurashava, potential locations of major development areas are

identified and the Structure Plan Area is broadly classified into nine categories, namely Established Urban Area, Sub Urban Area, New Urban Area, Recreational Facility, Circulation Network, Restricted Area, Urban Peripheral Area, Agriculture Area and Water Retention Area. The Urban Area Plan is prepared under the framework of Structure Plan and the infrastructure identified for improvement and development are listed as proposals in the Urban Area Plan. The broad classification of lands in the Structure Plan and detailed proposals in the Urban Area Plan form the basis for Ward Action Plan.

#### **14.2.2 Prioritization**

The prioritization of project proposals in Ward wise Action Plan are made on the basis of urgency for development depending on the needs of people and the town's requirement for infrastructure development.

#### **14.2.3 Ward Wise Action Plan**

The Ward Action Plan is prepared for each of the nine Wards and is presented in order of their serial number. The Ward Action Plans are a series of detailed spatial development plans of different use and facilities. The plans comprise maps of appropriate scale supported by explanatory report. The Ward Action Plans have been formulated for execution within a period of 5 years. They do not initially cover the entire Structure Plan area. While all sub-areas will eventually require Ward Action Plan, only priority areas are to be dealt with initially. The aim of a Ward Action Plan is to prevent haphazard urban development and ensure livable environment in areas that are likely to be urbanized soon. Initially Detailed Area Plan should be covered for only those areas where action is needed immediately or where development pressure is high.

## Ward Action Plan for Ward No. 01

### 14.3 Proposals and Plans for Ward-01

Ward No. 01 is located at the North-west corner part of Char Fasson Paurashava. The area of the Ward is 924.61 acres. After reviewing and commensuration the policies and proposals of Structure Plan & Urban Area Plan the following proposals are made in the Action Plan of Ward-1 for implementation within next 5 years up to 2016. Action Plan Map for Ward-1 is shown in **Map 14.1 and 14.2**

#### 14.3.1 Road Network Development Plan

In road network development plan there is about 41.45 km road (Local, Secondary and Primary) in ward no 01. All of the roads of this Paurashava will be constructed as a pucca road in different phases of plan. Road widening is considered for all the existing road.

**Table 14.1: Road Network Proposal at Ward no. 01**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_100	20	3rd Phase	0.48	New
Local Road	Lr_13	20	3rd Phase	0.26	New
Local Road	Lr_16	20	3rd Phase	0.05	New
Local Road	Lr_21	20	3rd Phase	0.30	New
Local Road	Lr_22	20	3rd Phase	0.30	New
Local Road	Lr_280	20	3rd Phase	0.26	New
Local Road	Lr_283	20	3rd Phase	0.05	New
Local Road	Lr_288	20	3rd Phase	0.30	New
Local Road	Lr_289	20	3rd Phase	0.30	New
Local Road	Lr_29	20	3rd Phase	0.61	New
Local Road	Lr_296	20	3rd Phase	0.61	New
Local Road	Lr_297	20	3rd Phase	0.31	New
Local Road	Lr_30	20	3rd Phase	0.31	New
Local Road	Lr_309	20	3rd Phase	0.31	New
Local Road	Lr_310	20	3rd Phase	0.28	New
Local Road	Lr_311	20	3rd Phase	0.43	New
Local Road	Lr_312	20	3rd Phase	0.43	New
Local Road	Lr_330	20	3rd Phase	0.52	New
Local Road	Lr_331	20	3rd Phase	0.23	New
Local Road	Lr_332	20	3rd Phase	0.26	New
Local Road	Lr_333	20	3rd Phase	0.46	New
Local Road	Lr_334	20	3rd Phase	0.01	New
Local Road	Lr_345	20	3rd Phase	0.26	New
Local Road	Lr_346	20	3rd Phase	0.14	New
Local Road	Lr_347	20	3rd Phase	0.08	New
Local Road	Lr_348	20	3rd Phase	0.43	New
Local Road	Lr_349	20	3rd Phase	0.12	New
Local Road	Lr_350	20	3rd Phase	0.11	New
Local Road	Lr_358	20	3rd Phase	0.51	New

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_359	20	3rd Phase	0.59	New
Local Road	Lr_360	20	3rd Phase	0.18	New
Local Road	Lr_361	20	3rd Phase	0.26	New
Local Road	Lr_362	20	3rd Phase	0.22	New
Local Road	Lr_363	20	3rd Phase	0.35	New
Local Road	Lr_367	20	3rd Phase	0.48	New
Local Road	Lr_42	20	3rd Phase	0.31	New
Local Road	Lr_43	20	3rd Phase	0.28	New
Local Road	Lr_44	20	3rd Phase	0.43	New
Local Road	Lr_45	20	3rd Phase	0.43	New
Local Road	Lr_63	20	3rd Phase	0.52	New
Local Road	Lr_64	20	3rd Phase	0.23	New
Local Road	Lr_65	20	3rd Phase	0.26	New
Local Road	Lr_66	20	3rd Phase	0.46	New
Local Road	Lr_67	20	3rd Phase	0.01	New
Local Road	Lr_78	20	3rd Phase	0.26	New
Local Road	Lr_79	20	3rd Phase	0.14	New
Local Road	Lr_80	20	3rd Phase	0.08	New
Local Road	Lr_81	20	3rd Phase	0.43	New
Local Road	Lr_82	20	3rd Phase	0.12	New
Local Road	Lr_83	20	3rd Phase	0.11	New
Local Road	Lr_91	20	3rd Phase	0.51	New
Local Road	Lr_92	20	3rd Phase	0.59	New
Local Road	Lr_93	20	3rd Phase	0.18	New
Local Road	Lr_94	20	3rd Phase	0.26	New
Local Road	Lr_95	20	3rd Phase	0.22	New
Local Road	Lr_96	20	3rd Phase	0.35	New
Local Road	Lr_115	20	3rd Phase	0.14	Widening
Local Road	Lr_116	20	3rd Phase	0.05	Widening
Local Road	Lr_125	20	3rd Phase	0.10	Widening
Local Road	Lr_126	20	3rd Phase	0.51	Widening
Local Road	Lr_127	20	3rd Phase	0.04	Widening
Local Road	Lr_128	20	3rd Phase	0.14	Widening
Local Road	Lr_129	20	3rd Phase	0.12	Widening
Local Road	Lr_130	20	3rd Phase	0.03	Widening
Local Road	Lr_131	20	3rd Phase	0.05	Widening
Local Road	Lr_132	20	3rd Phase	0.08	Widening
Local Road	Lr_133	20	3rd Phase	0.11	Widening
Local Road	Lr_134	20	3rd Phase	0.03	Widening
Local Road	Lr_137	20	3rd Phase	0.08	Widening
Local Road	Lr_141	20	3rd Phase	0.09	Widening
Local Road	Lr_142	20	3rd Phase	0.16	Widening
Local Road	Lr_147	20	3rd Phase	0.17	Widening

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_150	20	3rd Phase	0.14	Widening
Local Road	Lr_151	20	3rd Phase	0.01	Widening
Local Road	Lr_159	20	3rd Phase	0.03	Widening
Local Road	Lr_196	20	3rd Phase	0.06	Widening
Local Road	Lr_204	20	3rd Phase	1.11	Widening
Local Road	Lr_206	20	3rd Phase	0.06	Widening
Local Road	Lr_217	20	3rd Phase	0.29	Widening
Local Road	Lr_232	20	3rd Phase	0.05	Widening
Local Road	Lr_241	20	3rd Phase	0.08	Widening
Local Road	Lr_248	20	3rd Phase	0.61	Widening
Local Road	Lr_258	20	3rd Phase	0.08	Widening
Secondary Road	Sr_1	40	2nd Phase	0.95	New
Secondary Road	Sr_18	40	2nd Phase	0.91	New
Secondary Road	Sr_20	30	2nd Phase	0.99	New
Secondary Road	Sr_21	30	2nd Phase	0.45	New
Secondary Road	Sr_4	40	2nd Phase	0.31	New
Secondary Road	Sr_56	40	2nd Phase	0.95	New
Secondary Road	Sr_59	40	2nd Phase	0.31	New
Secondary Road	Sr_64	30	2nd Phase	0.31	New
Secondary Road	Sr_73	40	2nd Phase	0.91	New
Secondary Road	Sr_75	30	2nd Phase	0.99	New
Secondary Road	Sr_76	30	2nd Phase	0.45	New
Secondary Road	Sr_9	30	2nd Phase	0.31	New
Secondary Road	Sr_14	60	1st Phase	0.80	New
Secondary Road	Sr_17	60	1st Phase	1.28	New
Secondary Road	Sr_69	60	1st Phase	0.80	New
Secondary Road	Sr_72	60	1st Phase	1.28	New
Secondary Road	Sr_26	40	2nd Phase	0.37	Widening
Secondary Road	Sr_29	40	2nd Phase	0.61	Widening
Secondary Road	Sr_36	40	2nd Phase	0.61	Widening
Secondary Road	Sr_31	60	1st Phase	1.87	Widening
Secondary Road	Sr_38	60	1st Phase	0.62	Widening
Primary Road	Pr_3	80	1st Phase	0.92	Widening
Primary Road	Pr_8	100	1st Phase	3.05	Widening

#### 14.3.2 Drainage Network Development Plan

Drain is necessary for discharge all its waste water and storm water. The plan proposes 15810.32 meters of drains for ward no. 01 which will be developed during the different phase. The natural sources of drainage are playing the critical roles in drainage plan.

**Table 14.2: Drainage Development Plan Proposals for ward 01**

Proposed Hierarchy	ID	Length(m)	Phasing	Proposed Width
Secondary Drain	S_11	116.20	First Phase	1 to 3 meter
Secondary Drain	S_12	3262.80	First Phase	1 to 3 meter

Proposed Hierarchy	ID	Length(m)	Phasing	Proposed Width
Secondary Drain	S_8	1477.28	Second Phase	1 to 3 meter
Secondary Drain	S_24	591.55	Second Phase	1 to 3 meter
Secondary Drain	S_30	14.24	Second Phase	1 to 3 meter
Tertiary Drain	T_6	880.68	Third Phase	up to 1 meter
Tertiary Drain	T_15	589.25	Third Phase	up to 1 meter
Tertiary Drain	T_16	294.41	Third Phase	up to 1 meter
Tertiary Drain	T_17	294.48	Third Phase	up to 1 meter
Tertiary Drain	T_18	883.49	Third Phase	up to 1 meter
Tertiary Drain	T_26	478.99	Third Phase	up to 1 meter
Tertiary Drain	T_58	217.42	Third Phase	up to 1 meter
Tertiary Drain	T_59	217.46	Third Phase	up to 1 meter
Tertiary Drain	T_60	216.41	Third Phase	up to 1 meter
Tertiary Drain	T_61	610.69	Third Phase	up to 1 meter
Tertiary Drain	T_62	293.50	Third Phase	up to 1 meter
Tertiary Drain	T_63	353.50	Third Phase	up to 1 meter
Tertiary Drain	T_64	264.75	Third Phase	up to 1 meter
Tertiary Drain	T_80	4.69	Third Phase	up to 1 meter
Tertiary Drain	T_81	161.15	Third Phase	up to 1 meter
Tertiary Drain	T_89	456.33	Third Phase	up to 1 meter
Tertiary Drain	T_161	115.47	Third Phase	up to 1 meter
Tertiary Drain	T_162	327.51	Third Phase	up to 1 meter
Tertiary Drain	T_163	258.54	Third Phase	up to 1 meter
Tertiary Drain	T_164	169.21	Third Phase	up to 1 meter
Tertiary Drain	T_165	345.95	Third Phase	up to 1 meter
Tertiary Drain	T_167	444.90	Third Phase	up to 1 meter
Tertiary Drain	T_168	149.44	Third Phase	up to 1 meter
Tertiary Drain	T_169	196.90	Third Phase	up to 1 meter
Tertiary Drain	T_170	330.91	Third Phase	up to 1 meter
Tertiary Drain	T_171	415.79	Third Phase	up to 1 meter
Tertiary Drain	T_172	686.82	Third Phase	up to 1 meter
Tertiary Drain	T_173	417.29	Third Phase	up to 1 meter
Tertiary Drain	T_175	272.32	Third Phase	up to 1 meter

### 14.3.3 Urban Services

The urban services are the pre condition of any potential development. The proposal for service facilities of ward no 01 is shown in table 14.3 together with mouza name and plot number.

**Table 14.3: Development Proposals for ward 01**

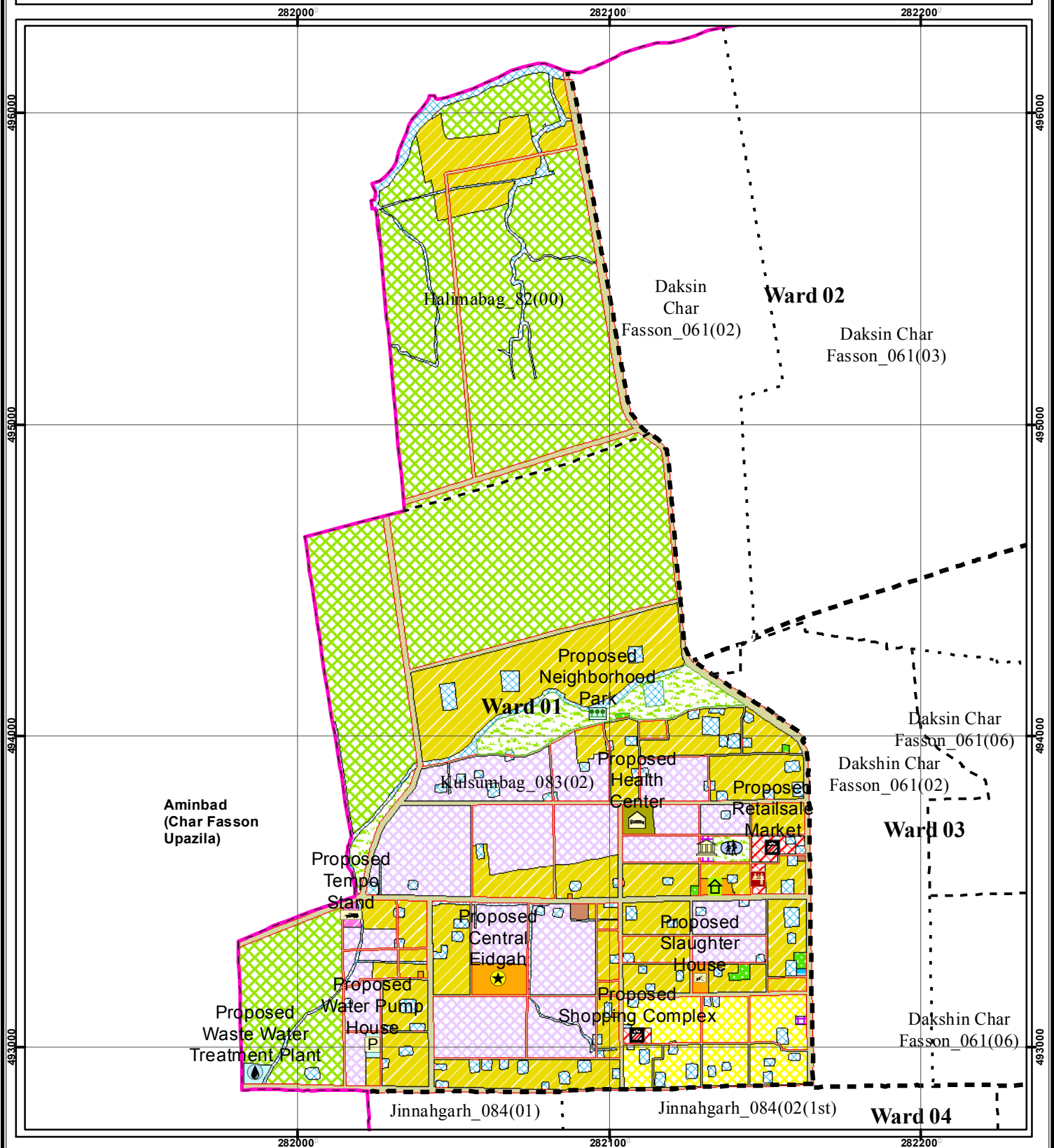
Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Central Eidgah	E-1	Kulsumbag	1327,1328	083	02	4.30
Cyclone Shelter	CS-1	Kulsumbag	1747	083	02	1.33
Health Center	HC-1	Kulsumbag	1705,1706,1707	083	02	2.34

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Kitchen Market	KM-1	Kulsumbag	1738,1743,1744,1745,1746,1747	083	02	1.09
Neighborhood Park	NP-1	Kulsumbag	1283,1284,1285,1286,1529,1530,1531,1532,1533,1534,1535,1536,1537,1538,1539,1540,1541,1542,1543,1544,1545,1546,1547,1548,1701,1702,1704,1705,1706,1707,1708,1709,1710,1711,1712,1713,1714,1715,1718,1719,1723,1724,1725,1726,1727,1728,1729,1730,1731,1732,1733,1734,1735	083	02	18.87
Playground	PG-1	Kulsumbag	1738	083	02	2.43
Retailsale Market	RM-1	Kulsumbag	1738	083	02	2.61
Shopping Complex	SC-1	Kulsumbag	1793,1802,1803,1804,1805	083	02	1.10
Slaughter House	SH-1	Kulsumbag	1792	083	02	1.18
Tempo Stand	TS-1	Kulsumbag	1116	083	02	0.96
Ward Center	WC-1	Kulsumbag	1747	083	02	0.86
Waste Water Treatment Plant	WW TP-1	Kulsumbag	1134,1135,1136,1137	083	02	1.17
Water Pump House	WP H-1	Kulsumbag	1154	083	02	0.91



Map 14.1: Proposed Landuse Plan of Ward No. 1



#### Admin Boundary

- - - Mouza Boundary
- Paurashava Boundary
- - - Sheet Boundary
- - - Ward Boundary

#### Development Features

- ★ Central Eidgah
- 🏠 Cyclone Shelter
- 🏥 Health Center
- 🏪 Kitchen Market
- 🌳 Neighborhood Park
- 🎡 Playground

#### Legend

- 🏪 Retailsale Market
- 🏪 Shopping Complex
- 🏪 Slaughter House
- 🏪 Tempo Stand
- 🏪 Ward Office
- 💧 Waste Water Treatment Plant
- 💧 Water Pump House

#### Landuse Type

- 🌱 Agricultural Zone
- 🛣️ Circulation Network
- 🏢 Commercial Zone
- 🏠 Community Facilities

- 🎓 Education & Research Zone
- 🏢 Government Office
- 🏥 Health Services
- 🏠 Miscellaneous
- 🌳 Open Space
- 🎡 Recreational Facilities
- 🏠 Rural Settlement
- 🚗 Transportation Facilities
- 🏠 Urban Deferred
- 🏠 Urban Residential Zone
- 🔌 Utility Services
- 💧 Waterbody

0 62.5 125 250 375 500 Meters

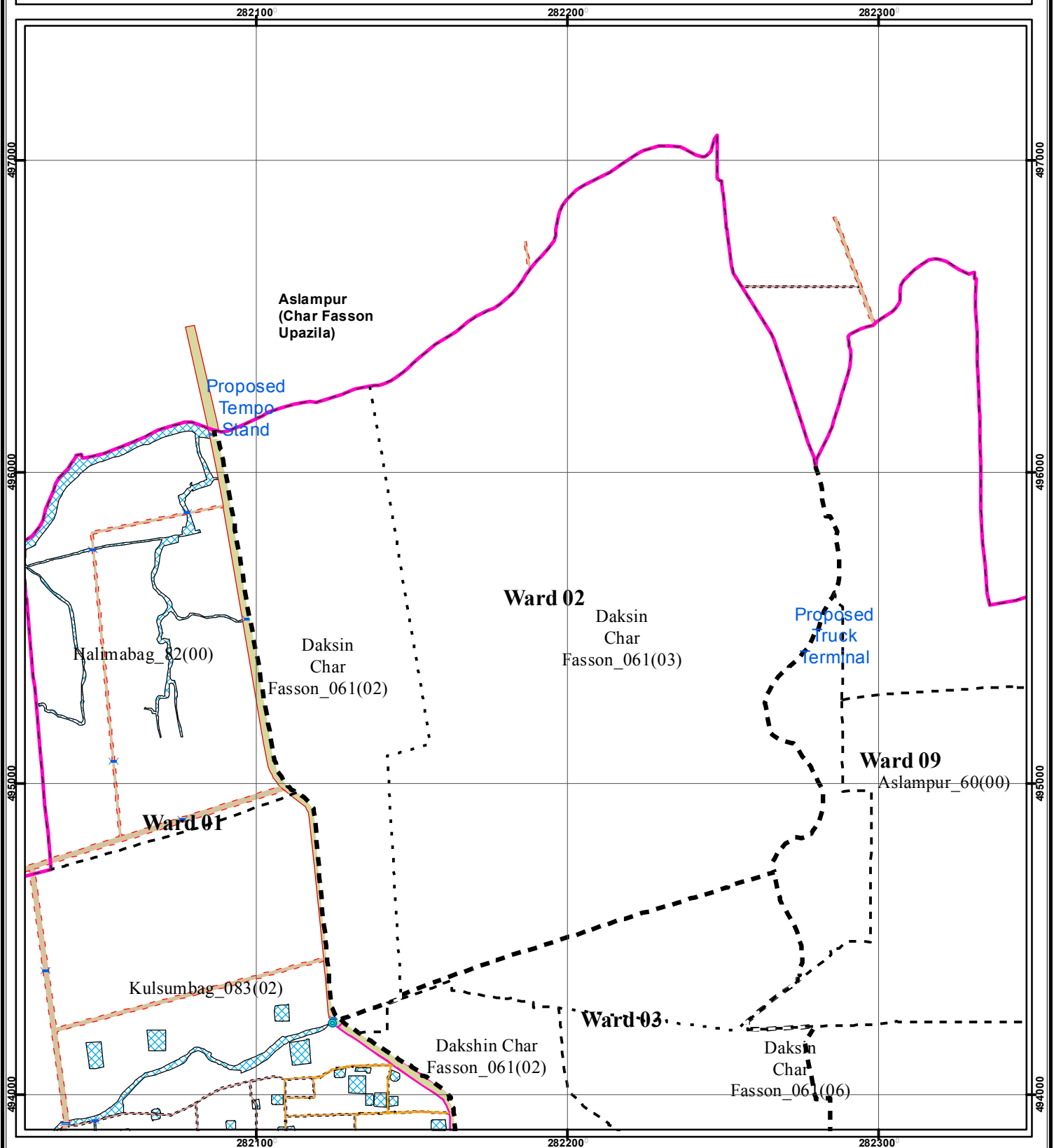


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# Map 14.2: Proposed Road & Drainage Network of Ward No.1



## Admin Boundary

- Mouza Boundary
- Paurashava Boundary
- Sheet Boundary
- Ward Boundary
- Existing Bridge**
  - Bridge
  - Culvert
- Proposed Bridge**
  - Bridge
  - Culvert

## Legend

### Development Features

- Bus Terminal
- Dumping Station
- Electric Sub Station
- Fire Service

- Tempo Stand
- Truck Terminal
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

- Drainage Outfall
- Secondary Drain
- Tertiary Drain
- Waterbody
- Primary Road
- Secondary Road
- Local Road

0 125 250 500 Meters



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## Ward Action Plan for Ward No. 02

### 14.4 Proposals and Plans for Ward-02

Ward No. 02 is located at the Northern part of Char Fasson Paurashava. The area of the Ward is 892.37 acres. After reviewing and commensuration the policies and proposals of Structure Plan & Urban Area Plan the following proposals are made in the Action Plan of Ward-2 for implementation within next 5 (five) years up to 2016. Action Plan Map for Ward-2 is shown in **Map 14.3 and Map 14.4**

#### 14.4.1 Road Network Development Plan

In road network development plan there is about 15.44 km road in ward no 02. All of the roads of this Paurashava will be constructed as a pucca road in different phases of plan. Road widening is considered for all the existing road.

**Table 14.4: Road Network Proposal at Ward no. 02**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_334	20	3rd Phase	0.26	New
Local Road	Lr_335	20	3rd Phase	0.76	New
Local Road	Lr_336	20	3rd Phase	0.76	New
Local Road	Lr_339	20	3rd Phase	0.56	New
Local Road	Lr_340	20	3rd Phase	0.53	New
Local Road	Lr_67	20	3rd Phase	0.26	New
Local Road	Lr_68	20	3rd Phase	0.76	New
Local Road	Lr_69	20	3rd Phase	0.76	New
Local Road	Lr_72	20	3rd Phase	0.56	New
Local Road	Lr_73	20	3rd Phase	0.53	New
Secondary Road	Sr_10	60	1st Phase	1.76	New
Secondary Road	Sr_65	60	1st Phase	1.76	New
Secondary Road	Sr_13	30	2nd Phase	1.50	New
Secondary Road	Sr_68	30	2nd Phase	1.50	New
Secondary Road	Sr_18	40	2nd Phase	0.00	New
Secondary Road	Sr_73	40	2nd Phase	0.00	New
Secondary Road	Sr_21	30	2nd Phase	1.38	New
Secondary Road	Sr_76	30	2nd Phase	1.38	New
Primary Road	Pr_8	100	1st Phase	0.42	Widening

#### 14.4.2 Drainage Development Plan

Drain is necessary for discharge all its waste water and storm water. The plan proposes 3328.13 meters of drains for ward no. 02 which will be developed during the different phase. The natural sources of drainage are playing the critical roles in drainage plan. Details of drainage network given below in the table no 14.5.

**Table 14.5: Drainage Development Plan Proposals for ward 02**

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Tertiary Drain	T_7	1450.12	Third Phase	up to 1 meter
Tertiary Drain	T_8	1367.75	Third Phase	up to 1 meter
Tertiary Drain	T_27	510.26	Third Phase	up to 1 meter

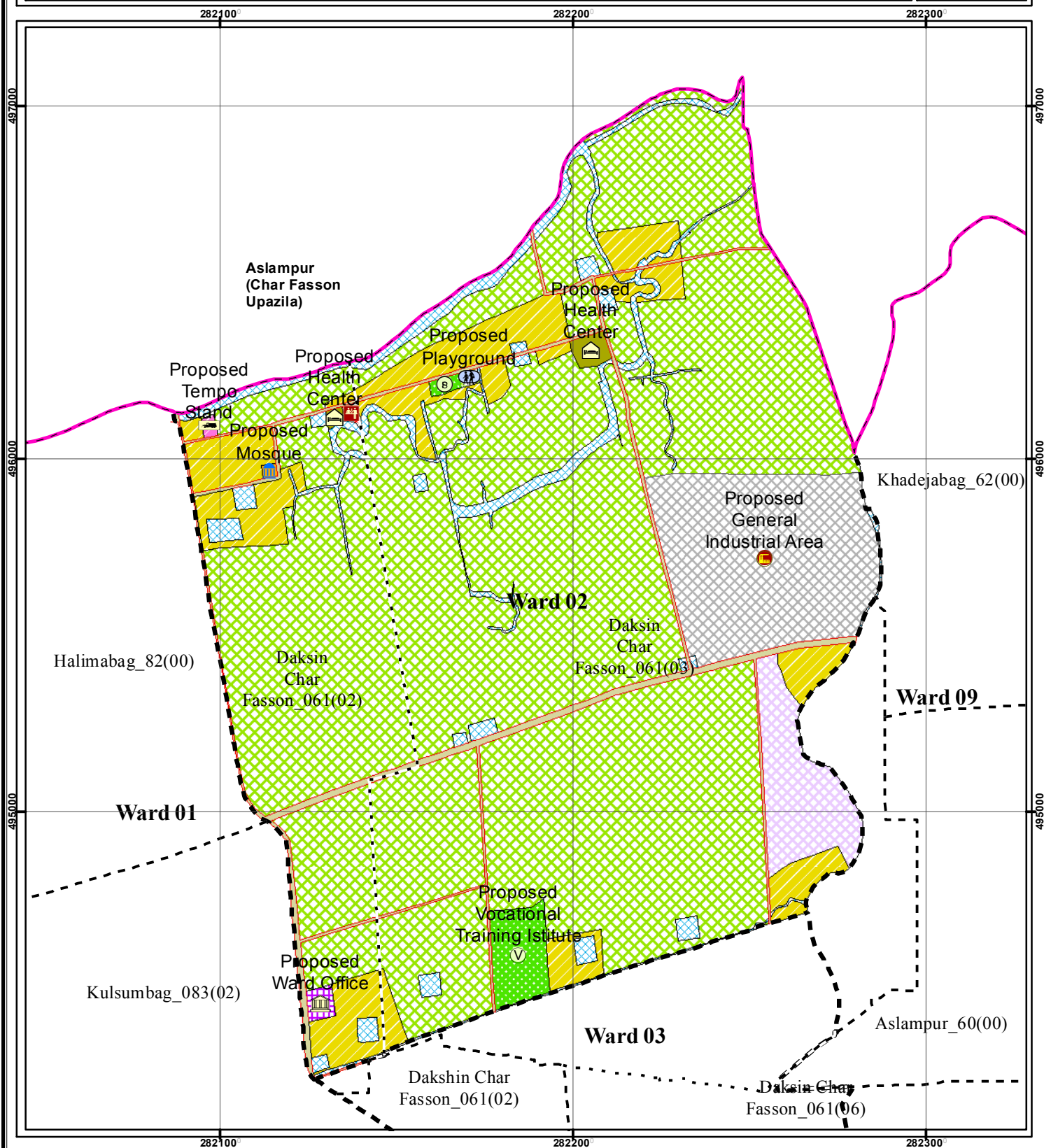
#### 14.4.3 Urban Services

The urban services are the pre condition of any potential development. The proposal for service facilities of ward no 02 is shown in table 14.6 together with mouza name and plot number.

**Table 14.6: Development Proposals for ward 02**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
General Industrial Area	GIZ-1	Daksin Char Fasson	765,865,866,870,871,872,873,875,878,879,880,881,882,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,918,919,920,921,922,924,927,930	061	03	71.14
Health Center	HC-2	Daksin Char Fasson	29,33,755,756,768,1160	061	02, 03	2.62
Kitchen Market	KM-2	Daksin Char Fasson	32	061	02	0.56
Mosque	M-1	Daksin Char Fasson	17,19,55,56	061	02	0.38
Playground	PG-2	Daksin Char Fasson	682,689	061	03	0.56
Primary School	PS-01	Daksin Char Fasson	659,660,661,664,677	061	03	0.94
Tempo Stand	TS-2	Daksin Char Fasson	8	061	02	0.55
Vocational Training Institute	VTI-1	Daksin Char Fasson	1023,1024,1025,1026,1027,1028,1029,1030,1031	061	03	10.22
Ward Center	WC-2	Daksin Char Fasson	110,111,114	061	02	1.64

Map 14.3: Proposed Landuse Plan of Ward No. 2



### Legend

#### Admin Boundary

- Mouza Boundary
- Paurashava Boundary
- ... Sheet Boundary
- - - Ward Boundary

#### Development Features

- General Industrial Area
- Health Center

- Playground
- Primary School
- Tempo Stand
- Vocational Training Institute
- Ward Office
- Kitchen Market
- Mosque

#### Landuse Type

- Agricultural Zone
- Circulation Network

- Commercial Zone
- Community Facilities
- Education & Research Zone
- General Industrial Zone
- Government Office
- Health Services
- Open Space
- Rural Settlement
- Transportation Facilities
- Urban Deffered
- Waterbody

0 55 110 220 330 440 Meters



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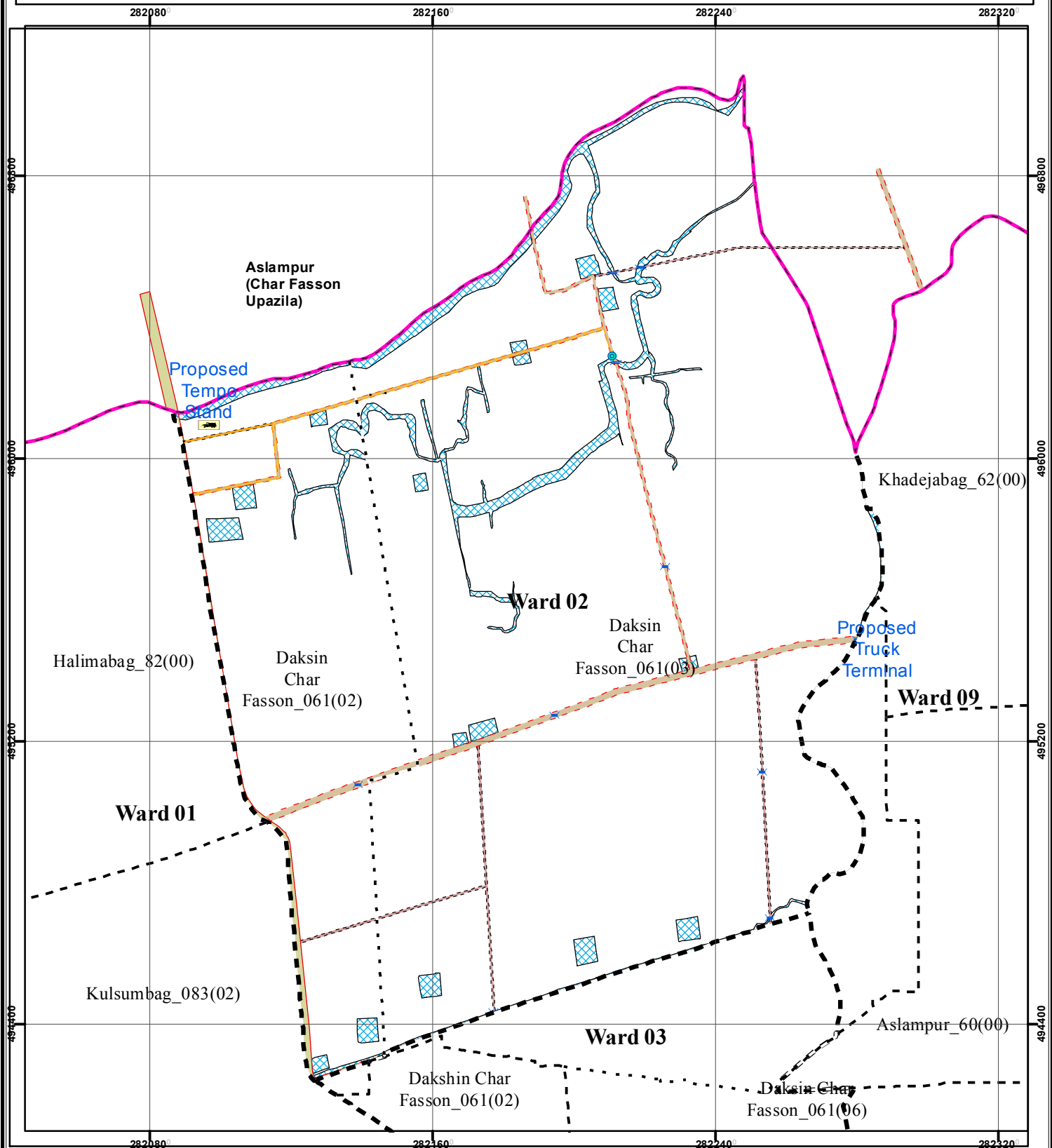
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Map 14.4: Proposed Road & Drainage Network of Ward No.2



#### Admin Boundary

- - - - - Mouza Boundary
- Paurashava Boundary
- - - - - Sheet Boundary
- - - - - Ward Boundary

#### Existing Bridge

- Bridge
- Culvert

#### Proposed Bridge

- Bridge
- Culvert

#### Legend

##### Development Features

- Bus Terminal
- Dumping Station
- Electric Sub Station
- Fire Service

- Tempo Stand
- Truck Terminal
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

- Drainage Outfall
- Secondary Drain
- Tertiary Drain
- Waterbody
- Primary Road
- Secondary Road
- Local Road

0 112.5 225 450 Meters



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## Ward Action Plan for Ward No. 03

### 14.5 Proposals and Plans for Ward-03

Ward No. 03 is located at the middle part of the Paurashava. The area of the Ward is 500.62 acres. After reviewing and commensuration the policies and proposals of Structure Plan and Urban Area Plan the following proposals are made in the Action Plan of Ward-3 for implementation within next 5 (five) years up to 2016. Action Plan Map for Ward-03 is shown in **Map 14.5 and Map 14.6**.

#### 14.5.1 Road Network Development Plan

In road network development plan there is about 28.26 km road in ward no 03. All of the roads of this Paurashava will be constructed as a pucca road in different phases of plan. Road widening is considered for all the existing road. Detail scenario of road network development proposal is given in table 14.7.

**Table 14.7: Road Network Proposal at Ward no. 03**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_38	20	3rd Phase	0.05	New
Local Road	Lr_305	20	3rd Phase	0.05	New
Local Road	Lr_46	20	3rd Phase	0.18	New
Local Road	Lr_313	20	3rd Phase	0.18	New
Local Road	Lr_47	20	3rd Phase	0.34	New
Local Road	Lr_314	20	3rd Phase	0.34	New
Local Road	Lr_48	20	3rd Phase	0.41	New
Local Road	Lr_315	20	3rd Phase	0.41	New
Local Road	Lr_49	20	3rd Phase	0.31	New
Local Road	Lr_316	20	3rd Phase	0.31	New
Local Road	Lr_50	20	3rd Phase	0.14	New
Local Road	Lr_317	20	3rd Phase	0.14	New
Local Road	Lr_51	20	3rd Phase	0.04	New
Local Road	Lr_318	20	3rd Phase	0.04	New
Local Road	Lr_52	20	3rd Phase	0.14	New
Local Road	Lr_319	20	3rd Phase	0.14	New
Local Road	Lr_53	20	3rd Phase	0.05	New
Local Road	Lr_320	20	3rd Phase	0.05	New
Local Road	Lr_54	20	3rd Phase	0.14	New
Local Road	Lr_321	20	3rd Phase	0.14	New
Local Road	Lr_55	20	3rd Phase	0.16	New
Local Road	Lr_322	20	3rd Phase	0.16	New
Local Road	Lr_68	20	3rd Phase	0.02	New
Local Road	Lr_335	20	3rd Phase	0.02	New
Local Road	Lr_69	20	3rd Phase	0.01	New
Local Road	Lr_336	20	3rd Phase	0.01	New
Local Road	Lr_70	20	3rd Phase	0.42	New
Local Road	Lr_337	20	3rd Phase	0.42	New
Local Road	Lr_71	20	3rd Phase	0.43	New

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_338	20	3rd Phase	0.43	New
Local Road	Lr_84	20	3rd Phase	0.31	New
Local Road	Lr_351	20	3rd Phase	0.31	New
Local Road	Lr_85	20	3rd Phase	0.58	New
Local Road	Lr_352	20	3rd Phase	0.58	New
Local Road	Lr_86	20	3rd Phase	0.11	New
Local Road	Lr_353	20	3rd Phase	0.11	New
Local Road	Lr_87	20	3rd Phase	0.22	New
Local Road	Lr_354	20	3rd Phase	0.22	New
Local Road	Lr_88	20	3rd Phase	0.15	New
Local Road	Lr_355	20	3rd Phase	0.15	New
Local Road	Lr_89	20	3rd Phase	0.26	New
Local Road	Lr_356	20	3rd Phase	0.26	New
Local Road	Lr_90	20	3rd Phase	0.47	New
Local Road	Lr_357	20	3rd Phase	0.47	New
Local Road	Lr_97	20	3rd Phase	0.23	New
Local Road	Lr_364	20	3rd Phase	0.23	New
Local Road	Lr_98	20	3rd Phase	0.37	New
Local Road	Lr_365	20	3rd Phase	0.37	New
Local Road	Lr_99	20	3rd Phase	0.16	New
Local Road	Lr_366	20	3rd Phase	0.16	New
Local Road	Lr_134	20	3rd Phase	0.57	Widening
Local Road	Lr_135	20	3rd Phase	0.17	Widening
Local Road	Lr_136	20	3rd Phase	0.11	Widening
Local Road	Lr_138	20	3rd Phase	0.11	Widening
Local Road	Lr_139	20	3rd Phase	0.07	Widening
Local Road	Lr_140	20	3rd Phase	0.11	Widening
Local Road	Lr_143	20	3rd Phase	0.08	Widening
Local Road	Lr_144	20	3rd Phase	0.03	Widening
Local Road	Lr_145	20	3rd Phase	0.18	Widening
Local Road	Lr_146	20	3rd Phase	0.20	Widening
Local Road	Lr_148	20	3rd Phase	0.05	Widening
Local Road	Lr_149	20	3rd Phase	0.03	Widening
Local Road	Lr_151	20	3rd Phase	0.30	Widening
Local Road	Lr_153	20	3rd Phase	0.08	Widening
Local Road	Lr_154	20	3rd Phase	0.20	Widening
Local Road	Lr_155	20	3rd Phase	0.06	Widening
Local Road	Lr_156	20	3rd Phase	0.05	Widening
Local Road	Lr_158	20	3rd Phase	0.21	Widening
Local Road	Lr_178	20	3rd Phase	0.16	Widening
Local Road	Lr_186	20	3rd Phase	0.28	Widening
Local Road	Lr_190	20	3rd Phase	0.18	Widening
Local Road	Lr_192	20	3rd Phase	0.05	Widening



Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_205	20	3rd Phase	0.45	Widening
Local Road	Lr_208	20	3rd Phase	0.40	Widening
Local Road	Lr_210	20	3rd Phase	0.12	Widening
Local Road	Lr_234	20	3rd Phase	0.02	Widening
Local Road	Lr_237	20	3rd Phase	0.05	Widening
Local Road	Lr_238	20	3rd Phase	0.28	Widening
Local Road	Lr_239	20	3rd Phase	0.07	Widening
Local Road	Lr_240	20	3rd Phase	0.30	Widening
Local Road	Lr_242	20	3rd Phase	0.15	Widening
Local Road	Lr_209	20	3rd Phase	0.04	Widening
Local Road	Lr_210	20	3rd Phase	0.04	Widening
Secondary Road	Sr_27	40	2nd Phase	0.29	Widening
Secondary Road	Sr_33	40	2nd Phase	0.45	Widening
Secondary Road	Sr_43	60	1st Phase	1.20	Widening
Secondary Road	Sr_49	40	2nd Phase	0.61	Widening
Secondary Road	Sr_54	30	2nd Phase	0.67	Widening
Secondary Road	Sr_12	40	2nd Phase	1.47	New
Secondary Road	Sr_67	40	2nd Phase	1.47	New
Secondary Road	Sr_15	40	2nd Phase	0.98	New
Secondary Road	Sr_70	40	2nd Phase	0.98	New
Secondary Road	Sr_19	30	2nd Phase	1.09	New
Secondary Road	Sr_74	30	2nd Phase	1.09	New
Secondary Road	Sr_24	30	2nd Phase	0.63	New
Secondary Road	Sr_79	30	2nd Phase	0.63	New
Primary Road	Pr_3	80	1st Phase	0.06	Widening
Primary Road	Pr_8	100	1st Phase	0.04	Widening

#### 14.5.2 Drainage Development Plan

Drain is necessary for discharge all its waste water and storm water. The plan proposes 9451.54 meters of drains for ward no. 03 which will be developed during the different phase. The natural sources of drainage are playing the critical roles in drainage plan. Table 14.8 shows the detail.

**Table 14.8: Drainage Development Plan Proposals for ward 03**

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Width (ft)
Secondary Drain	S_3	12.95	First Phase	1 to 3 meter
Secondary Drain	S_9	608.24	Second Phase	1 to 3 meter
Secondary Drain	S_11	1450.61	First Phase	1 to 3 meter
Secondary Drain	S_18	539.58	Second Phase	1 to 3 meter
Secondary Drain	S_19	520.86	Second Phase	1 to 3 meter
Secondary Drain	S_25	242.60	First Phase	1 to 3 meter
Secondary Drain	S_31	220.87	First Phase	1 to 3 meter
Tertiary Drain	T_19	472.57	Third Phase	up to 1 meter
Tertiary Drain	T_20	373.03	Third Phase	up to 1 meter
Tertiary Drain	T_65	744.81	Third Phase	up to 1 meter
Tertiary Drain	T_66	235.96	Third Phase	up to 1 meter

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Width (ft)
Tertiary Drain	T_67	236.40	Third Phase	up to 1 meter
Tertiary Drain	T_68	201.54	Third Phase	up to 1 meter
Tertiary Drain	T_69	609.85	Third Phase	up to 1 meter
Tertiary Drain	T_70	165.26	Third Phase	up to 1 meter
Tertiary Drain	T_71	195.48	Third Phase	up to 1 meter
Tertiary Drain	T_72	108.18	Third Phase	up to 1 meter
Tertiary Drain	T_73	369.56	Third Phase	up to 1 meter
Tertiary Drain	T_74	278.12	Third Phase	up to 1 meter
Tertiary Drain	T_75	359.33	Third Phase	up to 1 meter
Tertiary Drain	T_76	373.78	Third Phase	up to 1 meter
Tertiary Drain	T_77	217.63	Third Phase	up to 1 meter
Tertiary Drain	T_78	180.67	Third Phase	up to 1 meter
Tertiary Drain	T_79	197.49	Third Phase	up to 1 meter
Tertiary Drain	T_80	362.52	Third Phase	up to 1 meter
Tertiary Drain	T_166	173.65	Third Phase	up to 1 meter

#### 14.5.3 Urban Services

The urban services are the pre condition of any potential development. The proposal for service facilities of ward no 03 is shown in table 14.9 together with mouza name and plot number

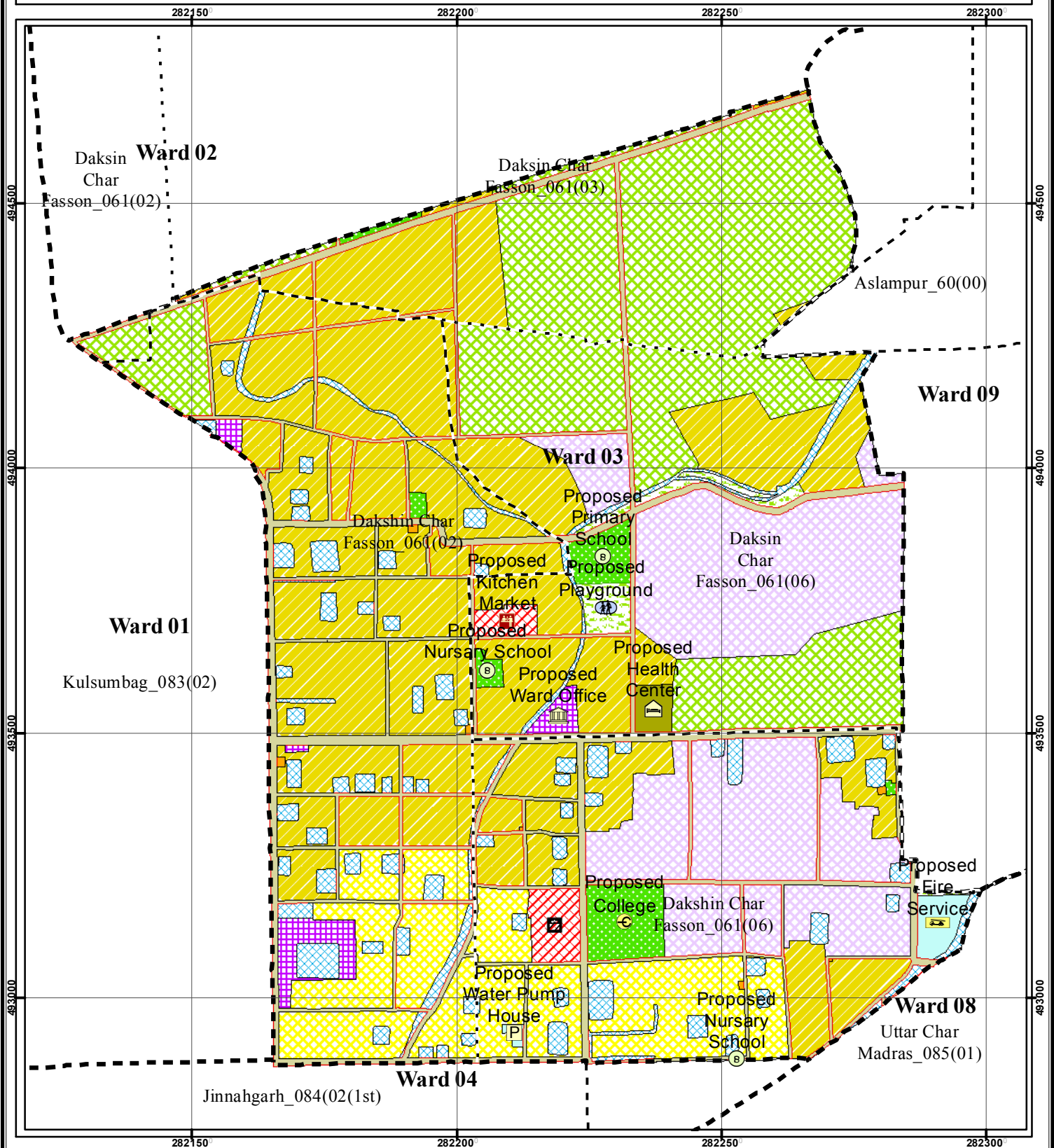
**Table 14.9: Development Proposals for ward 03**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Central Park	CP-1	Dakshin Char Fasson	2165,2166,2167,2168,2169,2170,2171,2172,2173,2176,2177,2302,2303,2304,2342	061	06	8.95
College	C-1	Dakshin Char Fasson	2285,2286,2287	061	06	5.06
Fire Service	FS-1	Dakshin Char Fasson	2307,2308,2309,99999	061	06	2.22
Health Center	HC-3	Daksin Char Fasson	1976,1982	061	06	1.54
Kitchen Market	KM-3	Daksin Char Fasson	1961,1962,1963,1964,1965	061	06	1.61
Nursary School	NS-1	Daksin Char Fasson	1966,2216,2325	061	06	0.80
Playground	PG-3	Daksin Char Fasson	2017,2018	061	06	2.13
Primary School	PS-02	Daksin Char Fasson	332,2016,2017,2018	061	06	2.73
Shopping Complex	SC-2	Dakshin Char Fasson	2223,2224	061	06	3.18
Vocational Training Institute	VTI-2	Daksin Char Fasson	1117,1118	061	03	0.44
Ward Center	WC-3	Daksin Char Fasson	1974	061	06	1.34

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Water Pump House	WPH -2	Dakshin Char Fasson	2224,2225	061	06	0.29

**Map 14.5: Proposed Landuse Plan of Ward No. 3**



**Legend**

**Admin Boundary**

- - - Mouza Boundary
- Paurashava Boundary
- . . . Sheet Boundary
- - - Ward Boundary

**Development Features**

- ⊙ College
- 🚒 Fire Service
- 🏠 Health Center
- 🛒 Kitchen Market

- ⊙ Nursery School
- ⊙ Playground
- ⊙ Primary School
- 🛒 Shopping Complex
- 🏠 Ward Office
- 🚰 Water Pump House

**Landuse Type**

- 🌱 Agricultural Zone
- 🛣️ Circulation Network

- 🏢 Commercial Zone
- 🏘️ Community Facilities
- 🎓 Education & Research Zone
- 🏛️ Government Office
- 🏥 Health Services
- 🌳 Open Space
- 🏡 Rural Settlement
- 🏠 Urban Deferred
- 🏘️ Urban Residential Zone
- 🚰 Utility Services
- 💧 Waterbody

0 35 70 140 210 280 Meters

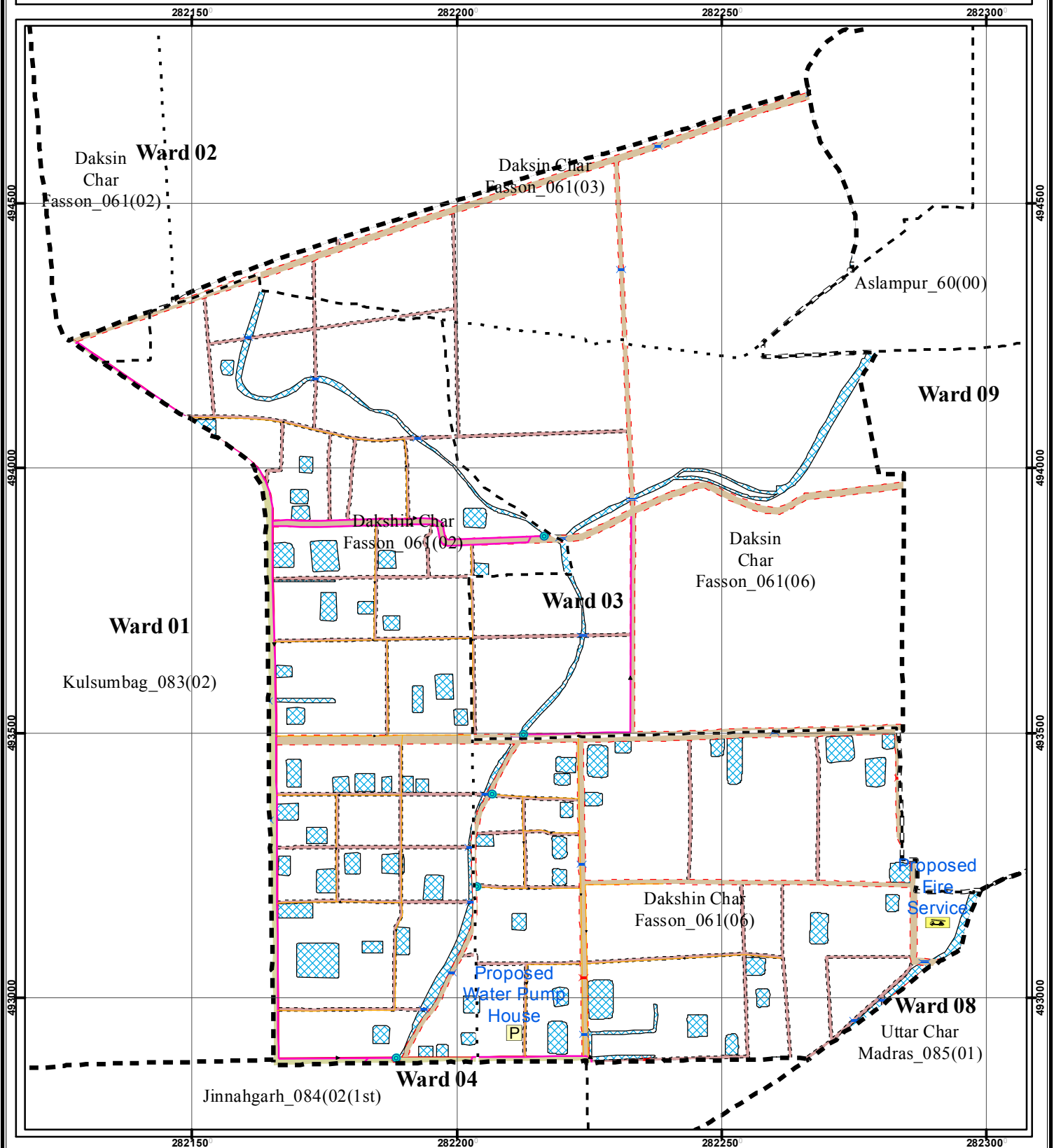


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Map 14.6: Proposed Road & Drainage Network of Ward No.3



#### Admin Boundary

- Mouza Boundary
- Paurashava Boundary
- Sheet Boundary
- Ward Boundary
- Existing Bridge**
  - Bridge
  - Culvert
- Proposed Bridge**
  - Bridge
  - Culvert

#### Legend

##### Development Features

- Bus Terminal
- Dumping Station
- Electric Sub Station
- Fire Service

- Tempo Stand
- Truck Terminal
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

- Drainage Outfall
- Secondary Drain
- Tertiary Drain
- Waterbody
- Primary Road
- Secondary Road
- Local Road

0 75 150 300 Meters



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## Ward Action Plan for Ward No. 04

### 14.6 Proposals and Plans for Ward-04

Ward No. 04 is located at the South-West part of Char Fasson Paurashava. The area of the Ward is 311.81 acres. After reviewing and commensuration the policies and proposals of Structure Plan and Urban Area Plan the following proposals are made in the Action Plan of Ward-04 for implementation within next 5 (five) years up to 2016. Action Plan Map for Ward-04 is shown in **Map 14.7** and **Map 14.8**

#### 14.6.1 Road Network Development Plan

In road network development plan there is about 15.84 km road in ward no 04. All of the roads of this Paurashava will be constructed as a pucca road in different phases of plan. Road widening is considered for all the existing road. Detail scenario of road network development proposal was given in Table 14.10.

**Table 14.10: Road Network Proposal at Ward no. 04**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_152	20	3rd Phase	0.20	Widening
Local Road	Lr_157	20	3rd Phase	0.36	Widening
Local Road	Lr_163	20	3rd Phase	0.28	Widening
Local Road	Lr_164	20	3rd Phase	0.29	Widening
Local Road	Lr_165	20	3rd Phase	0.39	Widening
Local Road	Lr_173	20	3rd Phase	0.14	Widening
Local Road	Lr_174	20	3rd Phase	0.09	Widening
Local Road	Lr_175	20	3rd Phase	0.09	Widening
Local Road	Lr_177	20	3rd Phase	0.12	Widening
Local Road	Lr_179	20	3rd Phase	0.04	Widening
Local Road	Lr_186	20	3rd Phase	0.69	Widening
Local Road	Lr_189	20	3rd Phase	0.28	Widening
Local Road	Lr_194	20	3rd Phase	0.28	Widening
Local Road	Lr_197	20	3rd Phase	0.44	Widening
Local Road	Lr_198	20	3rd Phase	0.15	Widening
Local Road	Lr_208	20	3rd Phase	0.02	Widening
Local Road	Lr_242	20	3rd Phase	0.07	Widening
Local Road	Lr_246	20	3rd Phase	0.36	Widening
Local Road	Lr_247	20	3rd Phase	0.10	Widening
Local Road	Lr_249	20	3rd Phase	0.16	Widening
Local Road	Lr_250	20	3rd Phase	0.03	Widening
Local Road	Lr_253	20	3rd Phase	0.11	Widening
Local Road	Lr_256	20	3rd Phase	0.04	Widening
Local Road	Lr_257	20	3rd Phase	0.22	Widening
Local Road	Lr_259	20	3rd Phase	0.14	Widening
Local Road	Lr_260	20	3rd Phase	0.15	Widening
Local Road	Lr_261	20	3rd Phase	0.05	Widening
Local Road	Lr_262	20	3rd Phase	0.11	Widening
Local Road	Lr_263	20	3rd Phase	0.15	Widening
Local Road	Lr_264	20	3rd Phase	0.09	Widening
Local Road	Lr_265	20	3rd Phase	0.10	Widening

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_14	20	3rd Phase	0.08	New
Local Road	Lr_281	20	3rd Phase	0.08	New
Local Road	Lr_17	20	3rd Phase	0.04	New
Local Road	Lr_284	20	3rd Phase	0.04	New
Local Road	Lr_18	20	3rd Phase	0.16	New
Local Road	Lr_285	20	3rd Phase	0.16	New
Local Road	Lr_19	20	3rd Phase	0.05	New
Local Road	Lr_286	20	3rd Phase	0.05	New
Local Road	Lr_21	20	3rd Phase	0.01	New
Local Road	Lr_288	20	3rd Phase	0.01	New
Local Road	Lr_22	20	3rd Phase	0.01	New
Local Road	Lr_289	20	3rd Phase	0.01	New
Local Road	Lr_25	20	3rd Phase	0.41	New
Local Road	Lr_292	20	3rd Phase	0.41	New
Local Road	Lr_26	20	3rd Phase	0.11	New
Local Road	Lr_293	20	3rd Phase	0.11	New
Local Road	Lr_62	20	3rd Phase	0.30	New
Local Road	Lr_329	20	3rd Phase	0.30	New
Local Road	Lr_101	20	3rd Phase	0.10	New
Local Road	Lr_368	20	3rd Phase	0.10	New
Local Road	Lr_102	20	3rd Phase	0.10	New
Local Road	Lr_369	20	3rd Phase	0.10	New
Local Road	Lr_103	20	3rd Phase	0.21	New
Local Road	Lr_370	20	3rd Phase	0.21	New
Secondary Road	Sr_23	30	2nd Phase	0.10	New
Secondary Road	Sr_78	30	2nd Phase	0.10	New
Secondary Road	Sr_28	30	2nd Phase	0.70	Widening
Secondary Road	Sr_32	40	2nd Phase	0.45	Widening
Secondary Road	Sr_34	30	2nd Phase	0.33	Widening
Secondary Road	Sr_40	30	2nd Phase	0.39	Widening
Secondary Road	Sr_52	30	2nd Phase	0.40	Widening
Secondary Road	Sr_53	30	2nd Phase	0.51	Widening
Secondary Road	Sr_54	30	2nd Phase	0.44	Widening
Secondary Road	Sr_38	60	1st Phase	0.60	Widening
Primary Road	Pr_12	80	1st Phase	0.00	New
Primary Road	Pr_3	80	1st Phase	0.00	Widening
Primary Road	Pr_3	80	1st Phase	1.68	Widening
Primary Road	Pr_9	80	1st Phase	0.61	Widening
Primary Road	Pr_9	80	1st Phase	0.00	Widening
Primary Road	Pr_8	100	1st Phase	0.63	Widening

### 14.6.2 Drainage Development Plan

Drain is necessary for discharge all its waste water and storm water. The plan proposes 12439.09 meters of drains for ward no. 04 which will be developed during the different phase. The natural sources of drainage are playing the critical roles in drainage plan. Table 14.11 shows the detail.

**Table 14.11: Drainage Development Plan Proposals for ward 04**

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_3	666.07	First Phase	1 to 3 meter
Secondary Drain	S_6	431.08	Second Phase	1 to 3 meter
Secondary Drain	S_14	316.39	Second Phase	1 to 3 meter
Secondary Drain	S_25	251.05	First Phase	1 to 3 meter
Secondary Drain	S_26	569.90	First Phase	1 to 3 meter
Secondary Drain	S_27	511.10	First Phase	1 to 3 meter
Secondary Drain	S_28	1155.61	First Phase	1 to 3 meter
Secondary Drain	S_29	64.62	First Phase	1 to 3 meter
Secondary Drain	S_30	917.21	Second Phase	1 to 3 meter
Secondary Drain	S_33	89.28	First Phase	1 to 3 meter
Tertiary Drain	T_1	1131.04	Third Phase	up to 1 meter
Tertiary Drain	T_2	898.37	Third Phase	up to 1 meter
Tertiary Drain	T_3	84.51	Third Phase	up to 1 meter
Tertiary Drain	T_4	468.13	Third Phase	up to 1 meter
Tertiary Drain	T_5	869.97	Third Phase	up to 1 meter
Tertiary Drain	T_54	213.83	Third Phase	up to 1 meter
Tertiary Drain	T_55	285.43	Third Phase	up to 1 meter
Tertiary Drain	T_56	101.40	Third Phase	up to 1 meter
Tertiary Drain	T_57	357.59	Third Phase	up to 1 meter
Tertiary Drain	T_86	693.65	Third Phase	up to 1 meter
Tertiary Drain	T_87	265.06	Third Phase	up to 1 meter
Tertiary Drain	T_88	330.38	Third Phase	up to 1 meter
Tertiary Drain	T_153	103.54	Third Phase	up to 1 meter
Tertiary Drain	T_154	238.93	Third Phase	up to 1 meter
Tertiary Drain	T_155	97.98	Third Phase	up to 1 meter
Tertiary Drain	T_156	193.11	Third Phase	up to 1 meter
Tertiary Drain	T_157	488.18	Third Phase	up to 1 meter
Tertiary Drain	T_158	386.69	Third Phase	up to 1 meter
Tertiary Drain	T_159	222.56	Third Phase	up to 1 meter
Tertiary Drain	T_160	36.43	Third Phase	up to 1 meter

### 14.6.3 Urban Services

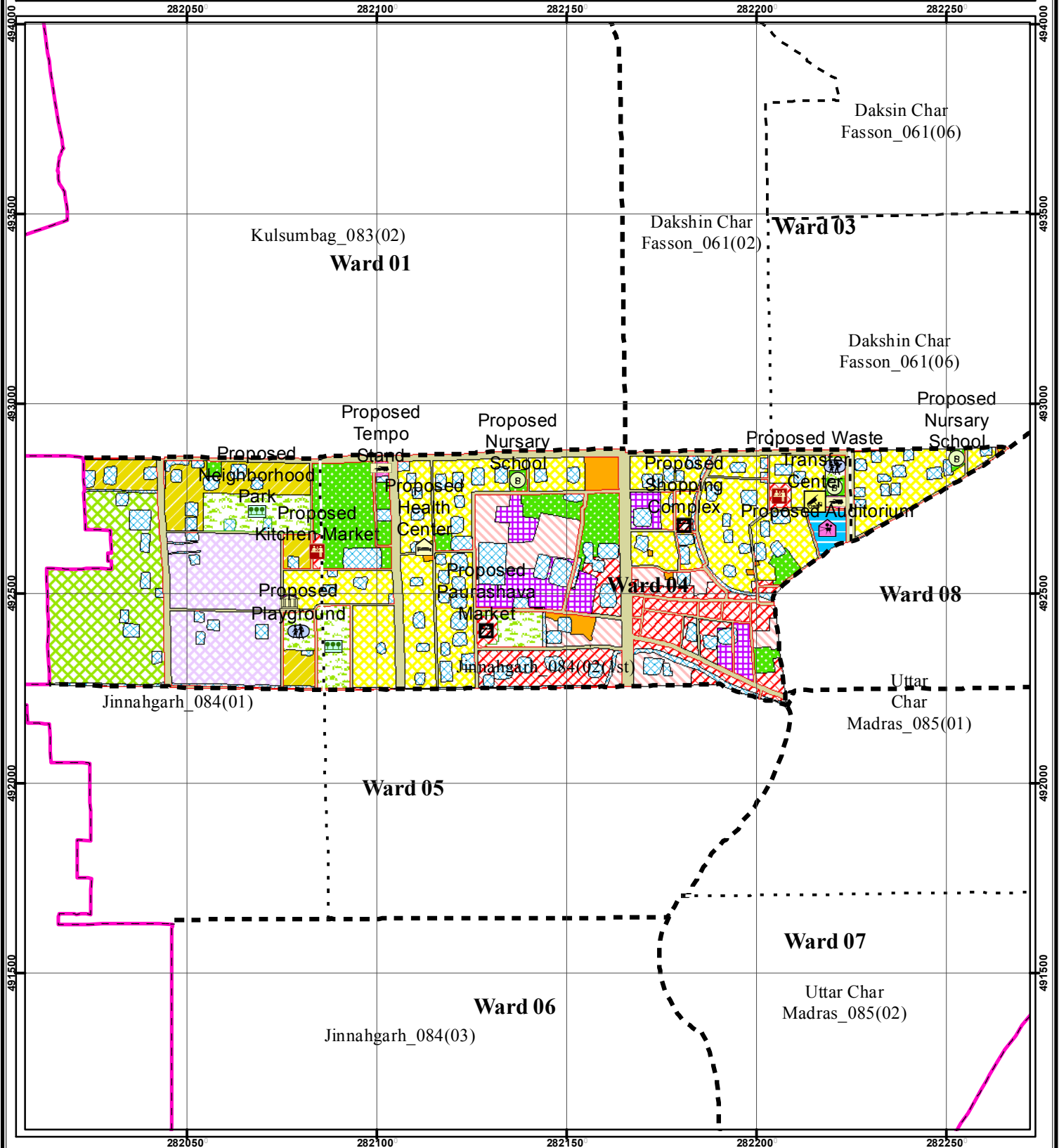
The urban services are the pre condition of any potential development. The proposal for service facilities of ward no 04 is shown in table 14.12 together with mouza name and plot number.



**Table 14.12: Development Proposals for ward 04**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Auditorium	A-1	Jinnahgarh	1325,1326,1327,1328,1329,1330,99999	084	02 (1st)	2.23
Health Center	HC-4	Jinnahgarh	1065,1097	084	02(1st	0.30
Kitchen Market	KM-4	Jinnahgarh	323,1315,1321,1325	084	01, 02	1.44
Neighborhood Park	NP-2	Jinnahgarh	319,320,323,331,332,1011,1012,1013	084	01, 02	11.20
Nursary School	NS-2	Jinnahgarh	1131,1133,1325	084	02 (1st)	1.71
Nursary School	NS-2	Dakshin Char Fasson	2241,2242	061	06	00
Paurashava Market	PM-1	Jinnahgarh	1258,1259,1260	084	02 (1st)	1.07
Playground	PG-4	Jinnahgarh	323,331,1325	084	01, 02	2.86
Shopping Complex	SC-3	Jinnahgarh	1282	084	02(1st	0.31
Tempo Stand	TS-3	Jinnahgarh	1002,1325	084	02 (1st)	0.72
Ward Center	WC-4	Jinnahgarh	323,324	084	01	0.35
Waste Transfer Center	WTC-1	Jinnahgarh	1325	084	02 (1st)	0.42

Map 14.7: Proposed Landuse Plan of Ward No. 4



**Legend**

**Admin Boundary**

- - - Mouza Boundary
- Paurashava Boundary
- - - Sheet Boundary
- - - Ward Boundary

**Development Features**

- Kitchen Market
- Nursery School



Playground



Waste Transfer Center

**Landuse Type**

- Circulation Network
- Commercial Zone
- Community Facilities
- Education & Research Zone

Government Office

Mixed Use Zone

Open Space

Rural Settlement

Transportation Facilities

Urban Residential Zone

Utility Services

Waterbody

0 50 100 200 300 400 Meters



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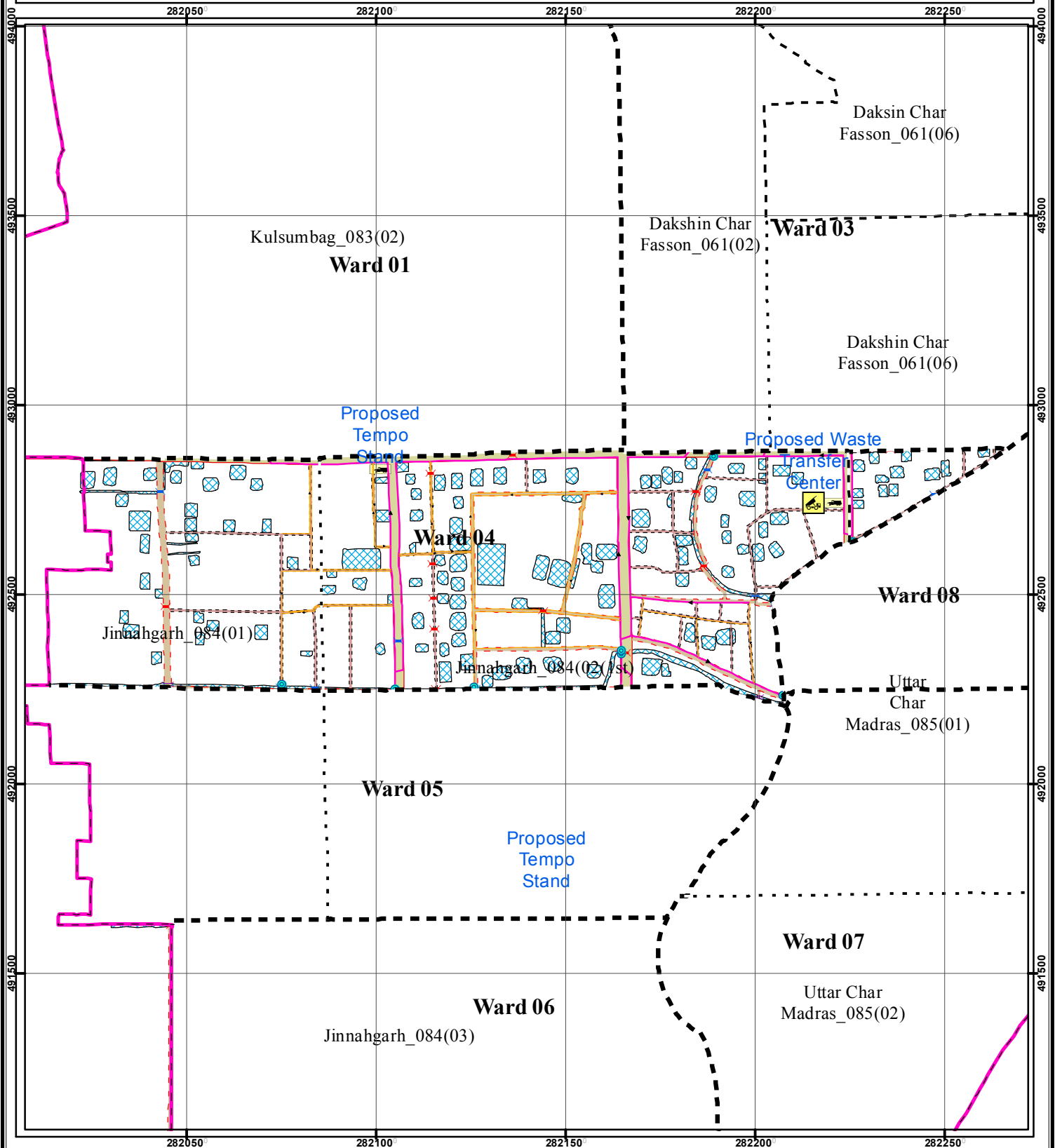
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Map 14.8: Proposed Road & Drainage Network of Ward No.4



#### Admin Boundary

- Mouza Boundary
- Paurashava Boundary
- Sheet Boundary
- Ward Boundary

#### Existing Bridge

- Bridge
- Culvert

#### Proposed Bridge

- Bridge
- Culvert

#### Legend

##### Development Features

- Bus Terminal
- Dumping Station
- Electric Sub Station
- Fire Service

- Tempo Stand
- Truck Terminal
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

- Drainage Outfall
- Secondary Drain
- Tertiary Drain
- Waterbody
- Primary Road
- Secondary Road
- Local Road

0 105 210 420 Meters



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## Ward Action Plan for Ward No. 05

### 14.7 Proposals and Plans for Ward-05

Ward No. 05 is located at the Northern part of Paurashava. The area of the Ward is 234.04 acres. After reviewing and commensuration the policies and proposals of Structure Plan and Urban Area Plan the following proposals are made in the Action Plan of Ward-05 for implementation within next 5 (five) years up to 2016. Action Plan Map for Ward-05 is shown in **Map 14.9 and Map 14.10**

#### 14.7.1 Road Network Development Plan

In road network development plan there is about 15.72 km road in ward no 05. All of the roads of this Paurashava will be constructed as a pucca road in different phases of plan. Road widening is considered for all the existing road. Detail scenario of road network development proposal was given in table 14.13.

**Table 14.13: Road Network Proposal at Ward no. 05**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_161	20	3rd Phase	0.42	Widening
Local Road	Lr_162	20	3rd Phase	0.61	Widening
Local Road	Lr_181	20	3rd Phase	0.13	Widening
Local Road	Lr_182	20	3rd Phase	0.14	Widening
Local Road	Lr_191	20	3rd Phase	0.29	Widening
Local Road	Lr_199	20	3rd Phase	0.07	Widening
Local Road	Lr_214	20	3rd Phase	0.33	Widening
Local Road	Lr_215	20	3rd Phase	0.08	Widening
Local Road	Lr_216	20	3rd Phase	0.13	Widening
Local Road	Lr_243	20	3rd Phase	0.59	Widening
Local Road	Lr_244	20	3rd Phase	0.03	Widening
Local Road	Lr_245	20	3rd Phase	0.08	Widening
Local Road	Lr_246	20	3rd Phase	0.01	Widening
Local Road	Lr_250	20	3rd Phase	0.42	Widening
Local Road	Lr_251	20	3rd Phase	0.41	Widening
Local Road	Lr_252	20	3rd Phase	0.14	Widening
Local Road	Lr_254	20	3rd Phase	0.25	Widening
Local Road	Lr_255	20	3rd Phase	0.16	Widening
Local Road	Lr_266	20	3rd Phase	0.17	Widening
Local Road	Lr_1	20	3rd Phase	0.27	New
Local Road	Lr_268	20	3rd Phase	0.27	New
Local Road	Lr_2	20	3rd Phase	0.53	New
Local Road	Lr_269	20	3rd Phase	0.53	New
Local Road	Lr_6	20	3rd Phase	0.21	New
Local Road	Lr_273	20	3rd Phase	0.21	New
Local Road	Lr_7	20	3rd Phase	0.14	New
Local Road	Lr_274	20	3rd Phase	0.14	New
Local Road	Lr_8	20	3rd Phase	0.23	New
Local Road	Lr_275	20	3rd Phase	0.23	New
Local Road	Lr_9	20	3rd Phase	0.09	New

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_276	20	3rd Phase	0.09	New
Local Road	Lr_10	20	3rd Phase	0.23	New
Local Road	Lr_277	20	3rd Phase	0.23	New
Local Road	Lr_11	20	3rd Phase	0.49	New
Local Road	Lr_278	20	3rd Phase	0.49	New
Local Road	Lr_12	20	3rd Phase	0.22	New
Local Road	Lr_279	20	3rd Phase	0.22	New
Local Road	Lr_20	20	3rd Phase	0.08	New
Local Road	Lr_287	20	3rd Phase	0.08	New
Local Road	Lr_25	20	3rd Phase	0.00	New
Local Road	Lr_292	20	3rd Phase	0.00	New
Local Road	Lr_27	20	3rd Phase	0.61	New
Local Road	Lr_294	20	3rd Phase	0.61	New
Local Road	Lr_28	20	3rd Phase	0.27	New
Local Road	Lr_295	20	3rd Phase	0.27	New
Local Road	Lr_107	20	3rd Phase	0.17	New
Local Road	Lr_374	20	3rd Phase	0.17	New
Local Road	Lr_108	20	3rd Phase	0.10	New
Local Road	Lr_375	20	3rd Phase	0.10	New
Local Road	Lr_109	20	3rd Phase	0.32	New
Local Road	Lr_376	20	3rd Phase	0.32	New
Secondary Road	Sr_38	60	1st Phase	0.62	Widening
Secondary Road	Sr_50	40	2nd Phase	0.60	Widening
Secondary Road	Sr_51	40	2nd Phase	0.61	Widening
Secondary Road	Sr_23	30	2nd Phase	0.01	New
Secondary Road	Sr_78	30	2nd Phase	0.01	New
Primary Road	Pr_8	100	1st Phase	0.61	Widening
Primary Road	Pr_7	80	1st Phase	0.22	Widening
Primary Road	Pr_9	80	1st Phase	0.61	Widening
Primary Road	Pr_10	80	1st Phase	0.05	Widening

#### 14.7.2 Drainage Development Plan

Drain is necessary for discharge all its waste water and storm water. The plan proposes 16492.94 meters of drains for ward no. 05 which will be developed during the different phase. The natural sources of drainage are playing the critical roles in drainage plan. Table 14.14 shows the detail.

**Table 14.14: Drainage Development Plan Proposals for ward 05**

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_2	1160.49	First Phase	1 to 3 meter
Secondary Drain	S_4	573.27	Second Phase	1 to 3 meter
Secondary Drain	S_21	592.32	Second Phase	1 to 3 meter
Secondary Drain	S_22	110.40	Second Phase	1 to 3 meter
Secondary Drain	S_29	672.27	First Phase	1 to 3 meter
Secondary Drain	S_32	613.84	First Phase	1 to 3 meter
Secondary Drain	S_33	608.67	First Phase	1 to 3 meter

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Tertiary Drain	T_21	350.36	Third Phase	up to 1 meter
Tertiary Drain	T_22	188.04	Third Phase	up to 1 meter
Tertiary Drain	T_23	351.46	Third Phase	up to 1 meter
Tertiary Drain	T_25	146.79	Third Phase	up to 1 meter
Tertiary Drain	T_33	151.02	Third Phase	up to 1 meter
Tertiary Drain	T_34	452.88	Third Phase	up to 1 meter
Tertiary Drain	T_35	325.58	Third Phase	up to 1 meter
Tertiary Drain	T_36	244.98	Third Phase	up to 1 meter
Tertiary Drain	T_37	263.06	Third Phase	up to 1 meter
Tertiary Drain	T_38	90.16	Third Phase	up to 1 meter
Tertiary Drain	T_39	100.11	Third Phase	up to 1 meter
Tertiary Drain	T_40	250.50	Third Phase	up to 1 meter
Tertiary Drain	T_41	106.21	Third Phase	up to 1 meter
Tertiary Drain	T_42	81.85	Third Phase	up to 1 meter
Tertiary Drain	T_43	276.46	Third Phase	up to 1 meter
Tertiary Drain	T_44	135.98	Third Phase	up to 1 meter
Tertiary Drain	T_45	136.76	Third Phase	up to 1 meter
Tertiary Drain	T_46	132.39	Third Phase	up to 1 meter
Tertiary Drain	T_47	134.76	Third Phase	up to 1 meter
Tertiary Drain	T_48	0.72	Third Phase	up to 1 meter
Tertiary Drain	T_49	226.93	Third Phase	up to 1 meter
Tertiary Drain	T_50	323.38	Third Phase	up to 1 meter
Tertiary Drain	T_51	522.36	Third Phase	up to 1 meter
Tertiary Drain	T_84	416.33	Third Phase	up to 1 meter
Tertiary Drain	T_85	603.42	Third Phase	up to 1 meter
Tertiary Drain	T_97	2.33	Third Phase	up to 1 meter
Tertiary Drain	T_102	410.91	Third Phase	up to 1 meter
Tertiary Drain	T_103	385.49	Third Phase	up to 1 meter
Tertiary Drain	T_104	135.55	Third Phase	up to 1 meter
Tertiary Drain	T_105	304.71	Third Phase	up to 1 meter
Tertiary Drain	T_106	757.02	Third Phase	up to 1 meter
Tertiary Drain	T_107	505.96	Third Phase	up to 1 meter
Tertiary Drain	T_108	365.29	Third Phase	up to 1 meter
Tertiary Drain	T_109	235.03	Third Phase	up to 1 meter
Tertiary Drain	T_110	292.42	Third Phase	up to 1 meter
Tertiary Drain	T_111	467.55	Third Phase	up to 1 meter
Tertiary Drain	T_112	271.58	Third Phase	up to 1 meter
Tertiary Drain	T_113	325.41	Third Phase	up to 1 meter
Tertiary Drain	T_114	335.66	Third Phase	up to 1 meter
Tertiary Drain	T_115	635.88	Third Phase	up to 1 meter
Tertiary Drain	T_116	367.08	Third Phase	up to 1 meter
Tertiary Drain	T_117	351.32	Third Phase	up to 1 meter

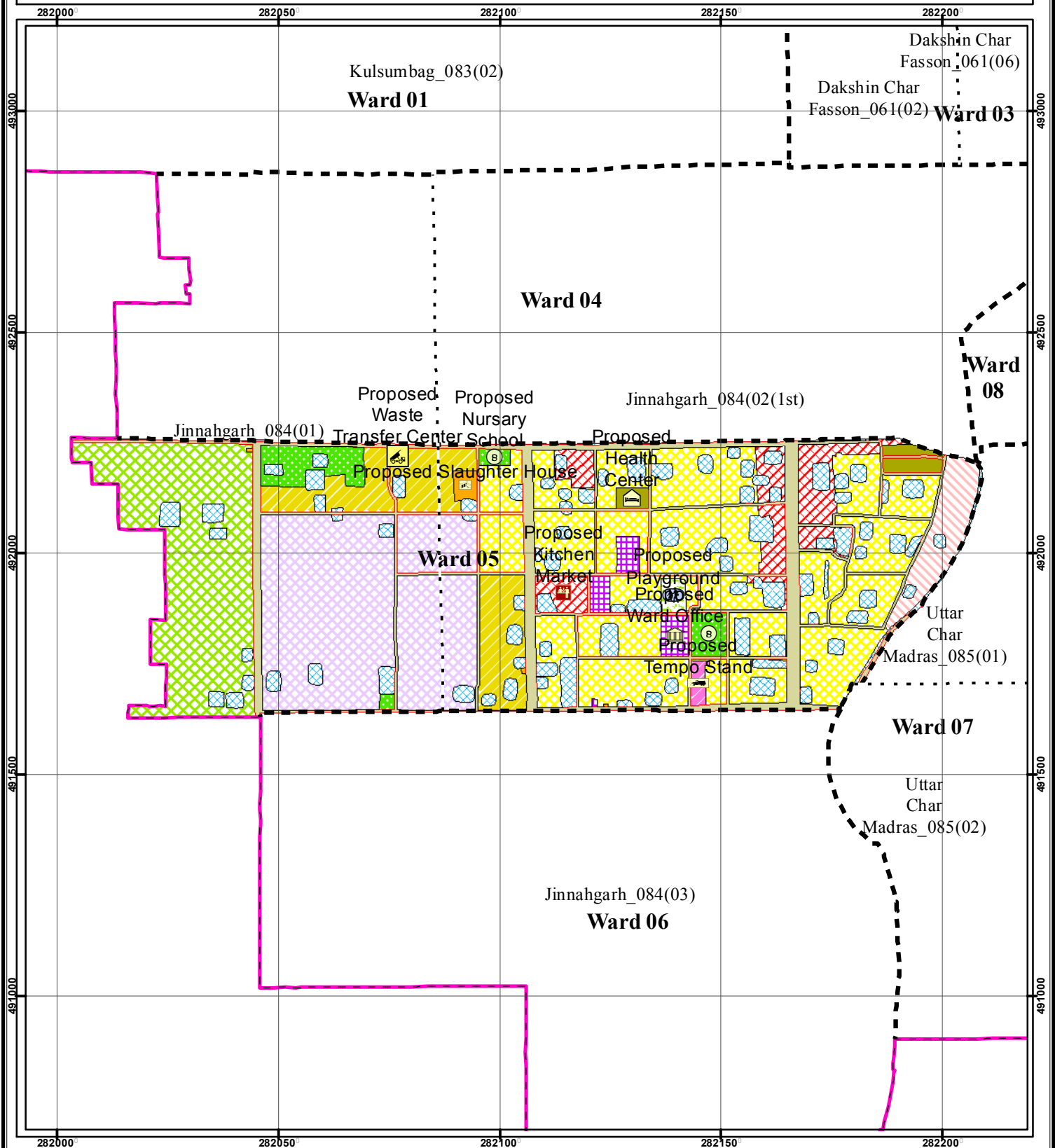
### 14.7.3 Urban Services

The urban services are the pre condition of any potential development. Proposal for service facilities of ward no 05 is shown in table 14.15 together with mouza name and plot number.

**Table 14.15: Development Proposals for ward 05**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Health Center	HC-5	Jinnahgarh	1379	084	02(1st	0.85
Kitchen Market	KM-5	Jinnahgarh	1378,1394,1396,1397,1398,1399,1400	084	02 (1st)	2.04
Nursary School	NS-3	Jinnahgarh	1403,1409	084	02 (1st)	0.66
Playground	PG-5	Jinnahgarh	1429	084	02 (1st)	1.06
Primary School	PS-03	Jinnahgarh	1429	084	02 (1st)	1.97
Slaughter House	SH-2	Jinnahgarh	1409,1410,1411,1412,1413,1414,1415,1416	084	02 (1st)	0.85
Tempo Stand	TS-4	Jinnahgarh	1429	084	02 (1st)	0.84
Ward Center	WC-5	Jinnahgarh	1429	084	02 (1st)	1.44
Waste Transfer Center	WTC-2	Jinnahgarh	334	084	01	0.35

Map 14.9: Proposed Landuse Plan of Ward No. 5



### Legend

#### Admin Boundary

- - - Mouza Boundary
- Paurashava Boundary
- - - Sheet Boundary
- - - Ward Boundary

#### Development Features

- Health Center
- Kitchen Market
- Nursery School

- Primary School
- Slaughter House
- Tempo Stand
- Ward Office
- Waste Transfer Center
- Playground

#### Landuse Type

- Agricultural Zone
- Circulation Network
- Commercial Zone

- Community Facilities
- Education & Research Zone
- Government Office
- Health Services
- Mixed Use Zone
- Open Space
- Rural Settlement
- Transportation Facilities
- Urban Deffered
- Urban Residential Zone
- Utility Services
- Waterbody

0 40 80 160 240 320 Meters



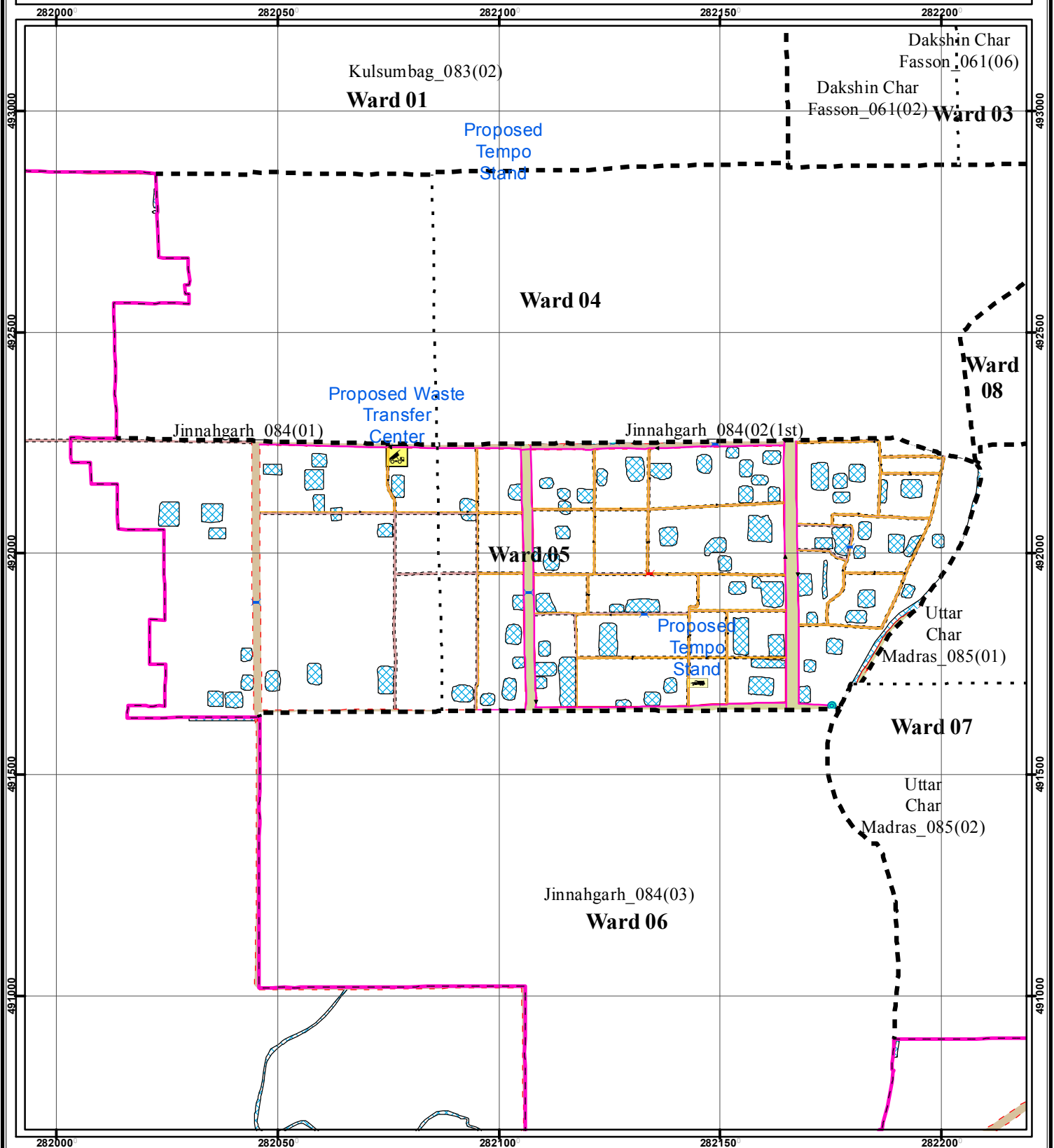
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Map 14.10: Proposed Road & Drainage Network of Ward No.5



#### Admin Boundary

- - - - Mouza Boundary
- Paurashava Boundary
- - - - Sheet Boundary
- - - - Ward Boundary
- Existing Bridge**
  - Bridge
  - Culvert
- Proposed Bridge**
  - Bridge
  - Culvert

#### Legend

##### Development Features

- Bus Terminal
- Dumping Station
- Electric Sub Station
- Fire Service

- Tempo Stand
- Truck Terminal
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

- Drainage Outfall
- Secondary Drain
- Tertiary Drain
- Waterbody
- Primary Road
- Secondary Road
- Local Road

0 90 180 360 Meters



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## Ward Action Plan for Ward No. 06

### 14.8 Proposals and Plans for Ward-06

Ward No. 06 is located at the South-Western part of Char Fasson Paurashava. The area of the Ward is 348.80 acres. After reviewing & commensuration the policies and proposals of Structure Plan & Urban Area Plan the following proposals are made in the Action Plan of Ward-6 for implementation within next 5 years up to 2016. Action Plan Map for Ward-6 is shown in Map 14.11 and Map 14.12.

#### 14.8.1 Road Network Development Plan

In road network development plan there is about 15.34 km road in ward no 06. All of the roads of this Paurashava will be constructed as a pucca road in different phases of plan. Road widening is considered for all the existing road.

**Table 14.16: Road Network Proposal at Ward no. 06**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_122	20	3rd Phase	0.30	Widening
Local Road	Lr_123	20	3rd Phase	0.04	Widening
Local Road	Lr_167	20	3rd Phase	0.07	Widening
Local Road	Lr_176	20	3rd Phase	0.60	Widening
Local Road	Lr_180	20	3rd Phase	0.06	Widening
Local Road	Lr_185	20	3rd Phase	0.04	Widening
Local Road	Lr_193	20	3rd Phase	0.31	Widening
Local Road	Lr_200	20	3rd Phase	0.17	Widening
Local Road	Lr_201	20	3rd Phase	0.68	Widening
Local Road	Lr_202	20	3rd Phase	0.60	Widening
Local Road	Lr_203	20	3rd Phase	0.21	Widening
Local Road	Lr_207	20	3rd Phase	0.13	Widening
Local Road	Lr_211	20	3rd Phase	0.76	Widening
Local Road	Lr_212	20	3rd Phase	0.25	Widening
Local Road	Lr_213	20	3rd Phase	0.06	Widening
Local Road	Lr_3	20	3rd Phase	0.20	New
Local Road	Lr_270	20	3rd Phase	0.20	New
Local Road	Lr_4	20	3rd Phase	0.21	New
Local Road	Lr_271	20	3rd Phase	0.21	New
Local Road	Lr_5	20	3rd Phase	0.24	New
Local Road	Lr_272	20	3rd Phase	0.24	New
Local Road	Lr_39	20	3rd Phase	0.53	New
Local Road	Lr_306	20	3rd Phase	0.53	New
Local Road	Lr_40	20	3rd Phase	0.31	New
Local Road	Lr_307	20	3rd Phase	0.31	New
Local Road	Lr_104	20	3rd Phase	0.82	New
Local Road	Lr_371	20	3rd Phase	0.82	New
Local Road	Lr_105	20	3rd Phase	0.12	New
Local Road	Lr_372	20	3rd Phase	0.12	New
Secondary Road	Sr_7	40	2nd Phase	0.01	New
Secondary Road	Sr_62	40	2nd Phase	0.01	New

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Secondary Road	Sr_7	40	2nd Phase	0.10	New
Secondary Road	Sr_62	40	2nd Phase	0.10	New
Secondary Road	Sr_35	40	2nd Phase	1.16	Widening
Secondary Road	Sr_37	40	2nd Phase	0.61	Widening
Secondary Road	Sr_41	40	2nd Phase	0.29	Widening
Secondary Road	Sr_41	40	2nd Phase	0.10	Widening
Secondary Road	Sr_6	60	1st Phase	0.06	New
Secondary Road	Sr_61	60	1st Phase	0.06	New
Secondary Road	Sr_38	60	1st Phase	0.61	Widening
Secondary Road	Sr_39	60	1st Phase	1.21	Widening
Primary Road	Pr_10	80	1st Phase	0.05	Widening
Primary Road	Pr_7	80	1st Phase	0.38	Widening
Primary Road	Pr_8	100	1st Phase	1.45	Widening

#### 14.8.2 Drainage Development Plan

Drain is necessary for discharge all its waste water and storm water. The plan proposes 6910.4 meters of drains for ward no. 06 which will be developed during the different phase. The natural sources of drainage are playing the critical roles in drainage plan. Table 14.17 shows the detail.

**Table 14.17: Drainage Development Plan Proposals for ward 06**

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_32	904.11	First Phase	1 to 3 meter
Secondary Drain	S_33	6.87	First Phase	1 to 3 meter
Secondary Drain	S_36	735.67	Second Phase	1 to 3 meter
Secondary Drain	S_37	595.13	Second Phase	1 to 3 meter
Secondary Drain	S_38	595.23	Second Phase	1 to 3 meter
Tertiary Drain	T_90	390.92	Third Phase	up to 1 meter
Tertiary Drain	T_91	533.49	Third Phase	up to 1 meter
Tertiary Drain	T_92	387.17	Third Phase	up to 1 meter
Tertiary Drain	T_93	616.71	Third Phase	up to 1 meter
Tertiary Drain	T_94	300.55	Third Phase	up to 1 meter
Tertiary Drain	T_95	240.80	Third Phase	up to 1 meter
Tertiary Drain	T_96	292.84	Third Phase	up to 1 meter
Tertiary Drain	T_97	226.82	Third Phase	up to 1 meter
Tertiary Drain	T_98	105.09	Third Phase	up to 1 meter
Tertiary Drain	T_99	640.97	Third Phase	up to 1 meter
Tertiary Drain	T_100	105.06	Third Phase	up to 1 meter
Tertiary Drain	T_101	232.97	Third Phase	up to 1 meter
		6910.4		

#### 14.8.3 Urban Services

The urban services are the pre condition of any potential development. The proposal for service facilities of ward no 06 is shown in table 14.18 together with mouza name and plot number.

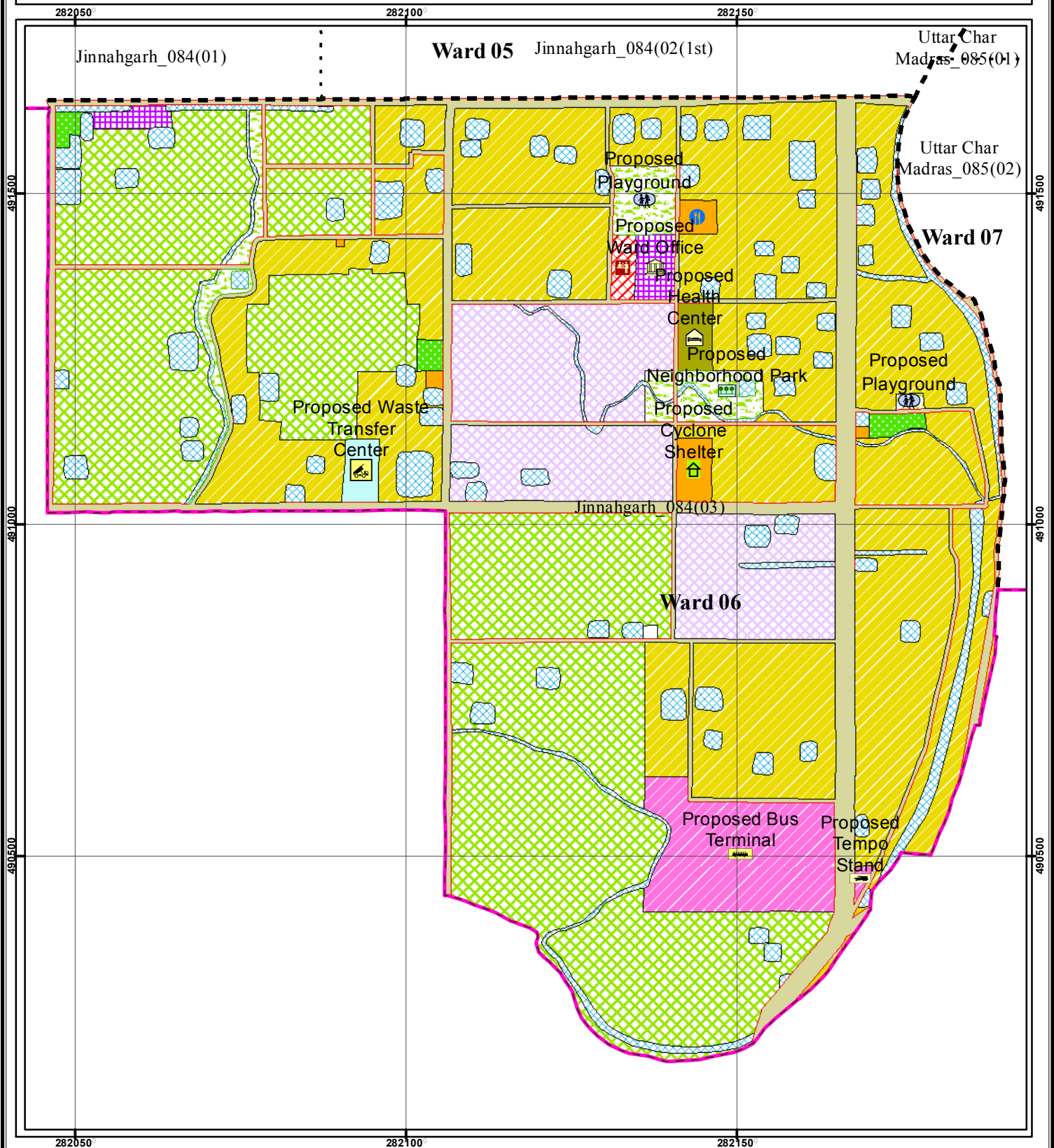
**Table 14.18: Development Proposals for ward 06**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Bus Terminal	BT-1	Jinnahgarh	3910,3915	084	03	11.71

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Community Center	CC-1	Jinnahgarh	3821,3822	084	03	0.72
Cyclone Shelter	CS-2	Jinnahgarh	3757	084	03	1.28
Health Center	HC-6	Jinnahgarh	3772	084	03	1.30
Kitchen Market	KM-6	Jinnahgarh	3824	084	03	0.88
Neighborhood Park	NP-3	Jinnahgarh	3773,3775,3776,3778,3779,3781,3782,3784,3785,3799,3800,3801,3802	084	03	2.83
Playground	PG-6	Jinnahgarh	3819,3822,3833,3837,3838,3869	084	03	2.65
Tempo Stand	TS-5	Jinnahgarh	3906,3907,3908	084	03	0.23
Ward Center	WC-6	Jinnahgarh	3823,4101	084	03	1.44
Waste Transfer Center	WTC-3	Jinnahgarh	3751	084	03	1.24

**Map 14.11: Proposed Landuse Plan of Ward No. 6**



**Legend**

**Admin Boundary**

- - - Mouza Boundary
- Paurashava Boundary
- - - Sheet Boundary
- - - Ward Boundary

**Development Features**

- Bus Terminal
- Community Center
- Cyclone Shelter
- Health Center

- Kitchen Market
- Neighborhood Park
- Playground
- Tempo Stand
- Ward Office
- Waste Transfer Center

**Landuse Type**

- Agricultural Zone
- Circulation Network

- Commercial Zone
- Community Facilities
- Education & Research Zone
- Government Office
- Health Services
- Open Space
- Rural Settlement
- Transportation Facilities
- Urban Deferred
- Utility Services
- Waterbody

0 250 100 150 200 Meters

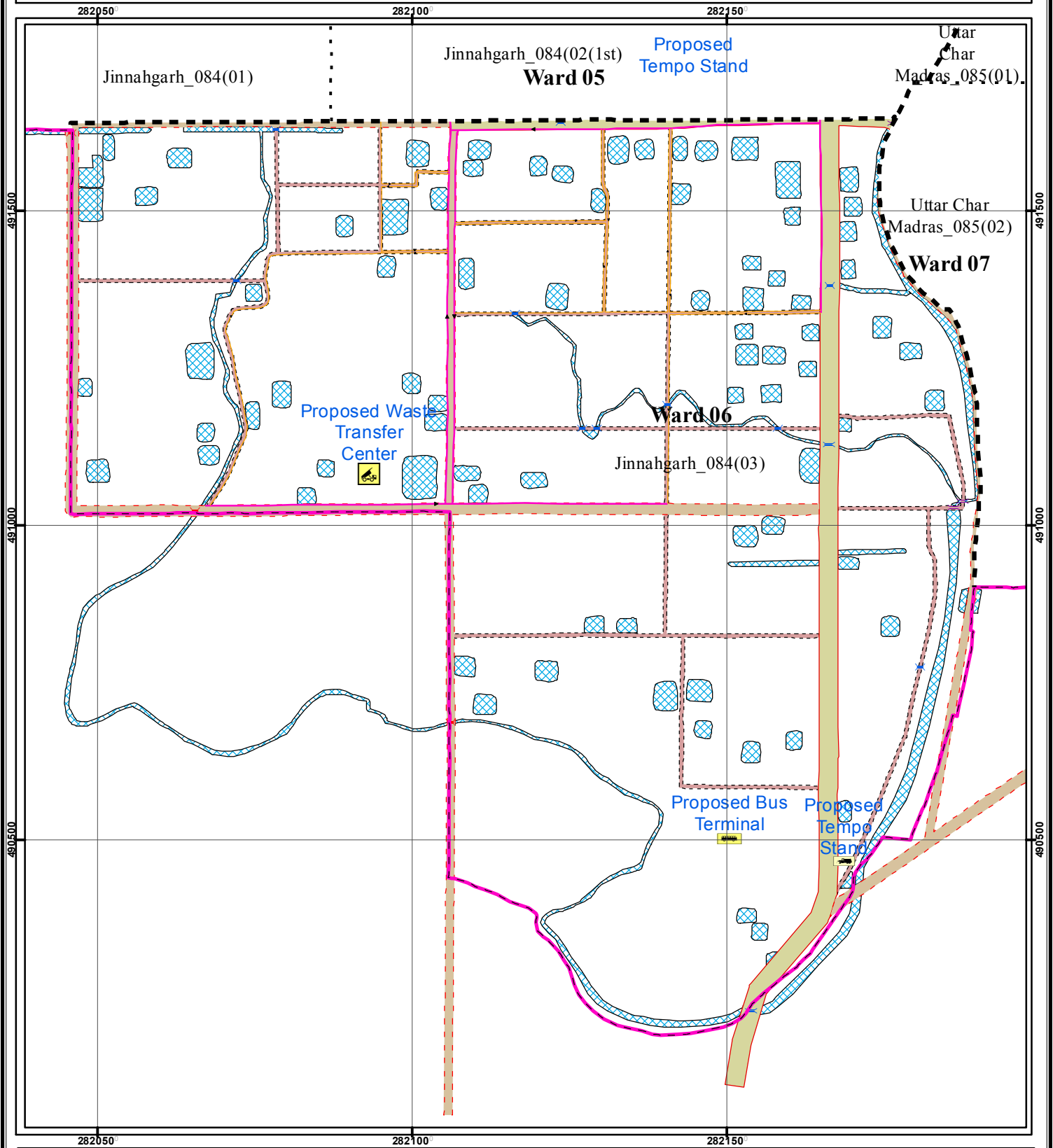


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Map 14.12: Proposed Road & Drainage Network of Ward No.6



#### Admin Boundary

- - - - Mouza Boundary
- Paurashava Boundary
- - - - Sheet Boundary
- - - - Ward Boundary
- Existing Bridge**
  - Bridge
  - Culvert
- Proposed Bridge**
  - Bridge
  - Culvert

#### Legend

##### Development Features

- Bus Terminal
- Dumping Station
- Electric Sub Station
- Fire Service

- Tempo Stand
- Truck Terminal
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

- Drainage Outfall
- Secondary Drain
- Tertiary Drain
- Waterbody
- Primary Road
- Secondary Road
- Local Road

0 62.5 125 250 Meters



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## Ward Action Plan for Ward No. 07

### 14.9 Proposals and Plans for Ward-07

Ward No. 07 is located at the South-Eastern part of Char Fasson Paurashava. The area of the Ward is 421.66 acres. After reviewing and commensuration the policies and proposals of Structure Plan and Urban Area Plan the following proposals are made in the Action Plan of Ward-7 for implementation within next 5 (five) years up to 2016. Action Plan Map for Ward-07 is shown in Map 14.13 and Map 14.14.

#### 14.9.1 Road Network Development Plan

In road network development plan there is about 25.04 km road in ward no 06. All of the roads of this Paurashava will be constructed as a pucca road in different phases of plan. Road widening is considered for all the existing road.

**Table 14.19: Road Network Proposal at Ward no. 07**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_117	20	3rd Phase	0.45	Widening
Local Road	Lr_118	20	3rd Phase	0.15	Widening
Local Road	Lr_119	20	3rd Phase	0.33	Widening
Local Road	Lr_120	20	3rd Phase	0.41	Widening
Local Road	Lr_121	20	3rd Phase	0.10	Widening
Local Road	Lr_124	20	3rd Phase	0.05	Widening
Local Road	Lr_166	20	3rd Phase	0.10	Widening
Local Road	Lr_168	20	3rd Phase	0.19	Widening
Local Road	Lr_170	20	3rd Phase	0.19	Widening
Local Road	Lr_171	20	3rd Phase	0.07	Widening
Local Road	Lr_172	20	3rd Phase	0.08	Widening
Local Road	Lr_183	20	3rd Phase	0.15	Widening
Local Road	Lr_187	20	3rd Phase	0.29	Widening
Local Road	Lr_188	20	3rd Phase	0.44	Widening
Local Road	Lr_218	20	3rd Phase	0.22	Widening
Local Road	Lr_219	20	3rd Phase	0.23	Widening
Local Road	Lr_220	20	3rd Phase	0.29	Widening
Local Road	Lr_221	20	3rd Phase	0.14	Widening
Local Road	Lr_222	20	3rd Phase	0.08	Widening
Local Road	Lr_223	20	3rd Phase	0.29	Widening
Local Road	Lr_224	20	3rd Phase	0.20	Widening
Local Road	Lr_225	20	3rd Phase	0.20	Widening
Local Road	Lr_226	20	3rd Phase	0.10	Widening
Local Road	Lr_227	20	3rd Phase	0.21	Widening
Local Road	Lr_228	20	3rd Phase	0.19	Widening
Local Road	Lr_229	20	3rd Phase	0.44	Widening
Local Road	Lr_230	20	3rd Phase	0.16	Widening
Local Road	Lr_231	20	3rd Phase	0.16	Widening
Local Road	Lr_233	20	3rd Phase	0.01	Widening
Local Road	Lr_234	20	3rd Phase	0.01	Widening
Local Road	Lr_267	20	3rd Phase	0.05	Widening

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_15	20	3rd Phase	0.09	New
Local Road	Lr_282	20	3rd Phase	0.09	New
Local Road	Lr_24	20	3rd Phase	0.01	New
Local Road	Lr_291	20	3rd Phase	0.01	New
Local Road	Lr_35	20	3rd Phase	0.20	New
Local Road	Lr_302	20	3rd Phase	0.20	New
Local Road	Lr_36	20	3rd Phase	0.24	New
Local Road	Lr_303	20	3rd Phase	0.24	New
Local Road	Lr_37	20	3rd Phase	0.13	New
Local Road	Lr_304	20	3rd Phase	0.13	New
Local Road	Lr_41	20	3rd Phase	0.15	New
Local Road	Lr_308	20	3rd Phase	0.15	New
Local Road	Lr_56	20	3rd Phase	0.27	New
Local Road	Lr_323	20	3rd Phase	0.27	New
Local Road	Lr_57	20	3rd Phase	0.31	New
Local Road	Lr_324	20	3rd Phase	0.31	New
Local Road	Lr_58	20	3rd Phase	0.40	New
Local Road	Lr_325	20	3rd Phase	0.40	New
Local Road	Lr_59	20	3rd Phase	0.40	New
Local Road	Lr_326	20	3rd Phase	0.40	New
Local Road	Lr_60	20	3rd Phase	0.30	New
Local Road	Lr_327	20	3rd Phase	0.30	New
Local Road	Lr_61	20	3rd Phase	0.25	New
Local Road	Lr_328	20	3rd Phase	0.25	New
Local Road	Lr_76	20	3rd Phase	0.01	New
Local Road	Lr_343	20	3rd Phase	0.01	New
Local Road	Lr_106	20	3rd Phase	0.31	New
Local Road	Lr_373	20	3rd Phase	0.31	New
Local Road	Lr_110	20	3rd Phase	0.32	New
Local Road	Lr_377	20	3rd Phase	0.32	New
Local Road	Lr_111	20	3rd Phase	0.14	New
Local Road	Lr_378	20	3rd Phase	0.14	New
Local Road	Lr_112	20	3rd Phase	0.12	New
Local Road	Lr_379	20	3rd Phase	0.12	New
Local Road	Lr_113	20	3rd Phase	0.08	New
Local Road	Lr_380	20	3rd Phase	0.08	New
Secondary Road	Sr_6	60	1st Phase	0.80	New
Secondary Road	Sr_61	60	1st Phase	0.80	New
Secondary Road	Sr_16	60	1st Phase	0.01	New
Secondary Road	Sr_71	60	1st Phase	0.01	New
Secondary Road	Sr_45	60	1st Phase	1.65	Widening
Secondary Road	Sr_2	40	2nd Phase	0.02	New
Secondary Road	Sr_57	40	2nd Phase	0.02	New



Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Secondary Road	Sr_7	40	2nd Phase	0.01	New
Secondary Road	Sr_62	40	2nd Phase	0.01	New
Secondary Road	Sr_7	40	2nd Phase	0.10	New
Secondary Road	Sr_62	40	2nd Phase	0.10	New
Secondary Road	Sr_32	40	2nd Phase	0.32	Widening
Secondary Road	Sr_41	40	2nd Phase	0.64	Widening
Secondary Road	Sr_42	40	2nd Phase	0.91	Widening
Secondary Road	Sr_44	40	2nd Phase	0.01	Widening
Secondary Road	Sr_55	40	2nd Phase	0.42	Widening
Secondary Road	Sr_41	40	2nd Phase	0.10	Widening
Secondary Road	Sr_8	30	2nd Phase	0.78	New
Secondary Road	Sr_63	30	2nd Phase	0.78	New
Secondary Road	Sr_46	30	2nd Phase	0.58	Widening
Secondary Road	Sr_47	30	2nd Phase	0.41	Widening
Primary Road	Pr_4	80	1st Phase	0.39	Widening
Primary Road	Pr_6	80	1st Phase	0.28	Widening
Primary Road	Pr_10	80	1st Phase	0.30	Widening
Primary Road	Pr_11	80	1st Phase	1.73	Widening
Primary Road	Pr_2	80	1st Phase	0.21	New
Primary Road	Pr_13	80	1st Phase	0.21	New

#### 14.9.2 Drainage Development Plan

Drain is necessary for discharge all its waste water and storm water. The plan proposes 26129.58 meters of drains for ward no. 07 which will be developed during the different phase. The natural sources of drainage are playing the critical roles in drainage plan. Table 14.20 shows the detail.

**Table 14.20: Drainage Development Plan Proposals for ward 07**

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_1	128.04	Second Phase	1 to 3 meter
Secondary Drain	S_5	299.35	Second Phase	1 to 3 meter
Secondary Drain	S_7	683.02	Second Phase	1 to 3 meter
Secondary Drain	S_13	595.89	Second Phase	1 to 3 meter
Secondary Drain	S_15	1486.27	First Phase	1 to 3 meter
Secondary Drain	S_16	227.58	Second Phase	1 to 3 meter
Secondary Drain	S_17	849.14	Second Phase	1 to 3 meter
Secondary Drain	S_23	3208.74	Second Phase	1 to 3 meter
Secondary Drain	S_34	22.20	First Phase	1 to 3 meter
Secondary Drain	S_35	771.61	Second Phase	1 to 3 meter
Tertiary Drain	T_9	767.14	Third Phase	up to 1 meter
Tertiary Drain	T_10	767.08	Third Phase	up to 1 meter
Tertiary Drain	T_11	564.13	Third Phase	up to 1 meter
Tertiary Drain	T_12	557.73	Third Phase	up to 1 meter
Tertiary Drain	T_13	375.67	Third Phase	up to 1 meter
Tertiary Drain	T_14	373.40	Third Phase	up to 1 meter
Tertiary Drain	T_24	695.09	Third Phase	up to 1 meter
Tertiary Drain	T_28	147.64	Third Phase	up to 1 meter
Tertiary Drain	T_29	147.69	Third Phase	up to 1 meter

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Tertiary Drain	T_30	184.33	Third Phase	up to 1 meter
Tertiary Drain	T_31	231.01	Third Phase	up to 1 meter
Tertiary Drain	T_32	129.98	Third Phase	up to 1 meter
Tertiary Drain	T_52	134.23	Third Phase	up to 1 meter
Tertiary Drain	T_82	475.59	Third Phase	up to 1 meter
Tertiary Drain	T_83	458.04	Third Phase	up to 1 meter
Tertiary Drain	T_118	46.08	Third Phase	up to 1 meter
Tertiary Drain	T_119	313.85	Third Phase	up to 1 meter
Tertiary Drain	T_120	295.44	Third Phase	up to 1 meter
Tertiary Drain	T_121	303.63	Third Phase	up to 1 meter
Tertiary Drain	T_122	611.04	Third Phase	up to 1 meter
Tertiary Drain	T_123	403.36	Third Phase	up to 1 meter
Tertiary Drain	T_124	702.55	Third Phase	up to 1 meter
Tertiary Drain	T_125	733.48	Third Phase	up to 1 meter
Tertiary Drain	T_126	271.68	Third Phase	up to 1 meter
Tertiary Drain	T_127	533.99	Third Phase	up to 1 meter
Tertiary Drain	T_128	476.52	Third Phase	up to 1 meter
Tertiary Drain	T_129	459.62	Third Phase	up to 1 meter
Tertiary Drain	T_130	464.51	Third Phase	up to 1 meter
Tertiary Drain	T_131	330.70	Third Phase	up to 1 meter
Tertiary Drain	T_132	427.57	Third Phase	up to 1 meter
Tertiary Drain	T_133	125.69	Third Phase	up to 1 meter
Tertiary Drain	T_134	312.14	Third Phase	up to 1 meter
Tertiary Drain	T_135	437.31	Third Phase	up to 1 meter
Tertiary Drain	T_136	296.54	Third Phase	up to 1 meter
Tertiary Drain	T_137	42.10	Third Phase	up to 1 meter
Tertiary Drain	T_138	621.10	Third Phase	up to 1 meter
Tertiary Drain	T_139	317.23	Third Phase	up to 1 meter
Tertiary Drain	T_140	235.49	Third Phase	up to 1 meter
Tertiary Drain	T_141	623.18	Third Phase	up to 1 meter
Tertiary Drain	T_142	116.88	Third Phase	up to 1 meter
Tertiary Drain	T_143	190.53	Third Phase	up to 1 meter
Tertiary Drain	T_144	550.68	Third Phase	up to 1 meter
Tertiary Drain	T_146	5.02	Third Phase	up to 1 meter
Tertiary Drain	T_147	3.52	Third Phase	up to 1 meter
Tertiary Drain	T_150	1.56	Third Phase	up to 1 meter
Tertiary Drain	T_174	1596.00	Third Phase	up to 1 meter

### 14.9.3 Urban Services

The urban services are the pre condition of any potential development. The proposal for service facilities of ward no 07 is shown in table 14.21 together with mouza name and plot number.

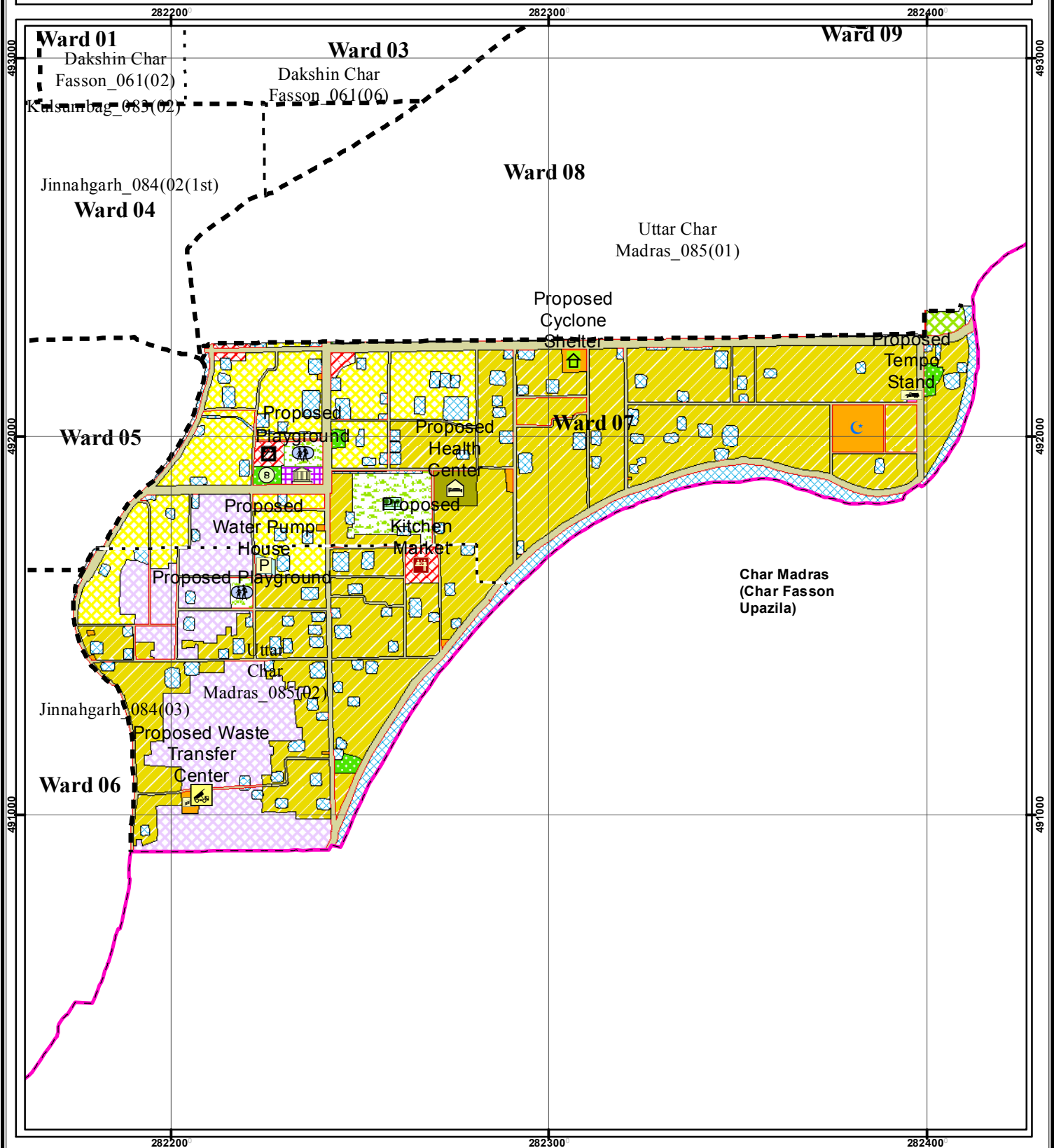
**Table 14.21: Development Proposals for ward 07**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Central Graveyard	G-1	Uttar Char Madras	561,659,661 ,662,663,66 4,665,668	085	01	4.14
Cyclone Shelter	CS-3	Uttar Char Madras	500,501	085	01	0.99
Health Center	HC-7	Uttar Char Madras	454	085	01	2.63
Kitchen Market	KM-7	Uttar Char Madras	844	085	02	2.01
Neighborhood Park	NP-4	Uttar Char Madras	454,455	085	01	8.67

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

<b>Proposals</b>	<b>ID</b>	<b>Mouza</b>	<b>Plot</b>	<b>JL No.</b>	<b>Sheet No</b>	<b>Area (acre)</b>
Nursary School	NS-4	Uttar Char Madras	417	085	01	0.87
Playground	PG-7	Uttar Char Madras	417,420,829,830	085	01, 02	2.90
Retaisale Market	RM-3	Uttar Char Madras	417	085	01	1.28
Slaughter House	SH-3	Uttar Char Madras	906,908	085	02	0.56
Tempo Stand	TS-6	Uttar Char Madras	670	085	01	0.20
Ward Center	WC-7	Uttar Char Madras	417	085	01	1.28
Waste Transfer Center	WTC-4	Uttar Char Madras	907	085	02	0.26
Water Pump House	WPH-3	Uttar Char Madras	837	085	02	0.66

Map 14.13: Proposed Landuse Plan of Ward No. 7



#### Admin Boundary

- - - Mouza Boundary
- Paurashava Boundary
- - - Sheet Boundary
- - - Ward Boundary

#### Development Features

- Central Graveyard
- Cyclone Shelter
- Health Center
- Kitchen Market
- Neighborhood Park
- Nursery School

#### Legend

- Playground
- Retail Market
- Slaughter House
- Tempo Stand
- Ward Office
- Waste Transfer Center
- Water Pump House

#### Landuse Type

- Agricultural Zone
- Circulation Network

- Commercial Zone
- Community Facilities
- Education & Research Zone
- Government Office
- Health Services
- Mixed Use Zone
- Open Space
- Rural Settlement
- Transportation Facilities
- Urban Deferred
- Urban Residential Zone
- Utility Services
- Waterbody

0 50 100 200 300 400 Meters

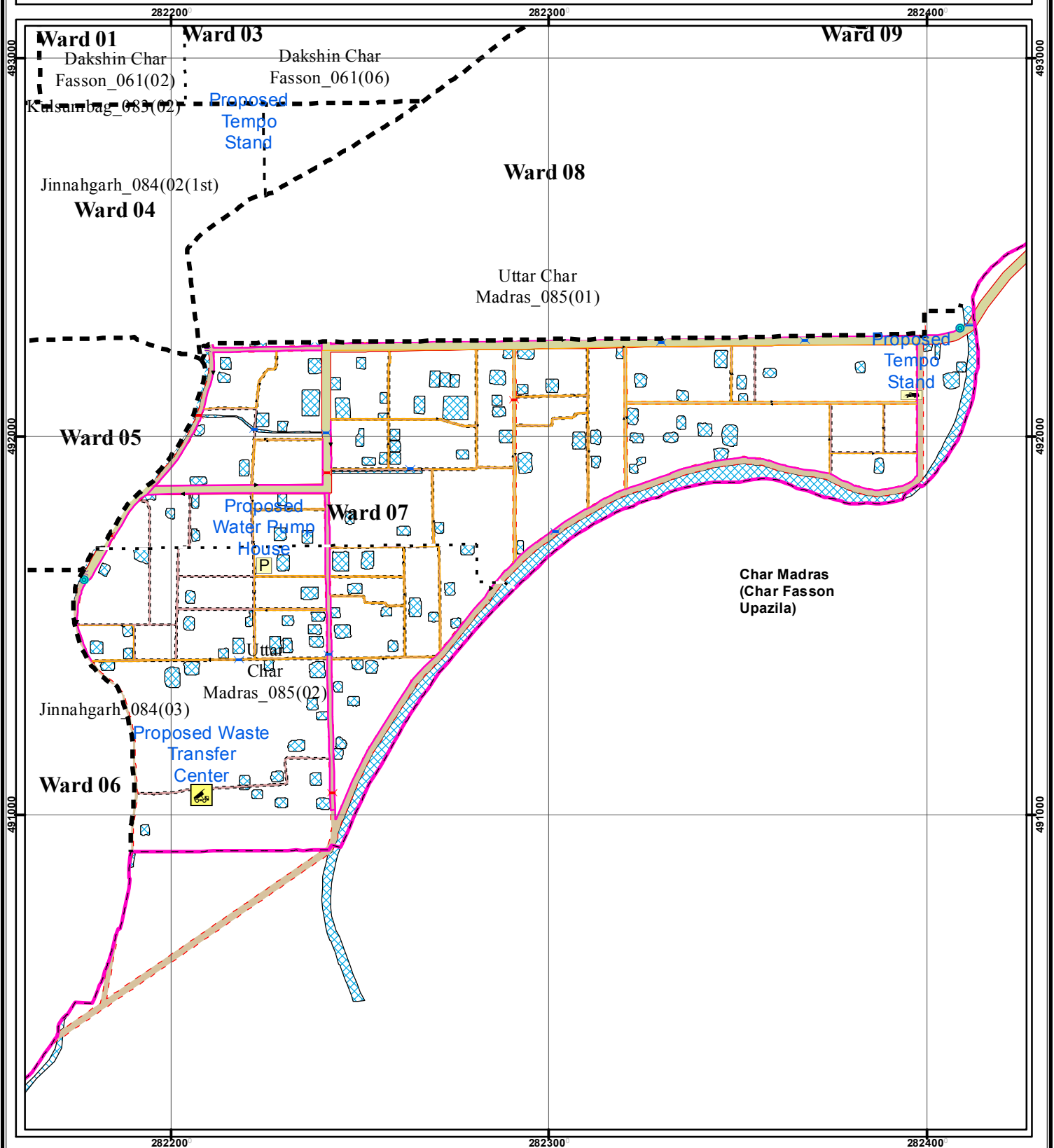


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Map 14.14: Proposed Road & Drainage Network of Ward No.7



#### Admin Boundary

- - - - Mouza Boundary
- Paurashava Boundary
- - - - Sheet Boundary
- - - - Ward Boundary
- Existing Bridge**
  - Bridge
  - Culvert
- Proposed Bridge**
  - Bridge
  - Culvert

#### Legend

##### Development Features

- Bus Terminal
- Dumping Station
- Electric Sub Station
- Fire Service
- Temp Stand
- Truck Terminal
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

- Drainage Outfall
- Secondary Drain
- Tertiary Drain
- Waterbody
- Primary Road
- Secondary Road
- Local Road

0 105 210 420 Meters



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## Ward Action Plan for Ward No. 08

### 14.10 Proposals and Plans for Ward-08

Ward No. 08 is located at the extreme Eastern part of Char Fasson Paurashava. The area of the Ward is 444.62 acres. After reviewing and commensuration the policies and proposals of Structure Plan & Urban Area Plan the following proposals are made in the Action Plan of Ward-8 for implementation within next 5 years up to 2016. Action Plan Map for Ward-8 is shown in Map 14.15 and Map 14.16.

#### 14.10.1 Road Network Development Plan

In road network development plan there is about 18.66 km road in ward no 08. All of the roads of this Paurashava will be constructed as a pucca road in different phases of plan. Road widening is considered for all the existing road.

**Table 14.22: Road Network Proposal at Ward no.08**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_160	20	3rd Phase	0.08	Widening
Local Road	Lr_169	20	3rd Phase	0.02	Widening
Local Road	Lr_184	20	3rd Phase	0.09	Widening
Local Road	Lr_186	20	3rd Phase	0.07	Widening
Local Road	Lr_195	20	3rd Phase	0.25	Widening
Local Road	Lr_233	20	3rd Phase	0.64	Widening
Local Road	Lr_234	20	3rd Phase	0.73	Widening
Local Road	Lr_235	20	3rd Phase	0.11	Widening
Local Road	Lr_236	20	3rd Phase	0.13	Widening
Local Road	Lr_23	20	3rd Phase	0.18	New
Local Road	Lr_290	20	3rd Phase	0.18	New
Local Road	Lr_24	20	3rd Phase	0.10	New
Local Road	Lr_291	20	3rd Phase	0.10	New
Local Road	Lr_31	20	3rd Phase	0.40	New
Local Road	Lr_298	20	3rd Phase	0.40	New
Local Road	Lr_32	20	3rd Phase	0.37	New
Local Road	Lr_299	20	3rd Phase	0.37	New
Local Road	Lr_33	20	3rd Phase	0.33	New
Local Road	Lr_300	20	3rd Phase	0.33	New
Local Road	Lr_34	20	3rd Phase	0.32	New
Local Road	Lr_301	20	3rd Phase	0.32	New
Local Road	Lr_74	20	3rd Phase	0.89	New
Local Road	Lr_341	20	3rd Phase	0.89	New
Local Road	Lr_75	20	3rd Phase	0.43	New
Local Road	Lr_342	20	3rd Phase	0.43	New
Local Road	Lr_76	20	3rd Phase	0.81	New
Local Road	Lr_343	20	3rd Phase	0.81	New
Local Road	Lr_77	20	3rd Phase	0.16	New
Local Road	Lr_344	20	3rd Phase	0.16	New
Local Road	Lr_114	20	3rd Phase	0.20	New
Local Road	Lr_381	20	3rd Phase	0.20	New

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Secondary Road	Sr_30	40	2nd Phase	0.30	Widening
Secondary Road	Sr_32	40	2nd Phase	0.01	Widening
Secondary Road	Sr_33	40	2nd Phase	0.01	Widening
Secondary Road	Sr_40	30	2nd Phase	0.02	Widening
Secondary Road	Sr_44	40	2nd Phase	0.83	Widening
Secondary Road	Sr_47	30	2nd Phase	0.81	Widening
Secondary Road	Sr_48	60	1st Phase	2.78	Widening
Secondary Road	Sr_3	40	2nd Phase	0.16	New
Secondary Road	Sr_58	40	2nd Phase	0.16	New
Secondary Road	Sr_5	60	1st Phase	0.07	New
Secondary Road	Sr_60	60	1st Phase	0.07	New
Secondary Road	Sr_16	60	1st Phase	0.99	New
Secondary Road	Sr_71	60	1st Phase	0.99	New
Primary Road	Pr_5	80	1st Phase	0.19	Widening
Primary Road	Pr_11	80	1st Phase	0.23	Widening
Primary Road	Pr_1	80	1st Phase	0.27	New
Primary Road	Pr_12	80	1st Phase	0.27	New

#### 14.10.2 Drainage Development Plan

Drain is necessary for discharge all its waste water and storm water. The plan proposes 5703.51 meters of drains for ward no. 08 which will be developed during the different phase. The natural sources of drainage are playing the critical roles in drainage plan. Table 14.23 shows the detail.

**Table 14.23: Drainage Development Plan Proposals for ward 08**

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_5	444.86	Second Phase	1 to 3 meter
Secondary Drain	S_15	621.89	First Phase	1 to 3 meter
Secondary Drain	S_25	1.30	First Phase	1 to 3 meter
Secondary Drain	S_34	431.50	First Phase	1 to 3 meter
Tertiary Drain	T_53	124.94	Third Phase	up to 1 meter
Tertiary Drain	T_145	660.22	Third Phase	up to 1 meter
Tertiary Drain	T_146	506.21	Third Phase	up to 1 meter
Tertiary Drain	T_147	189.54	Third Phase	up to 1 meter
Tertiary Drain	T_148	405.32	Third Phase	up to 1 meter
Tertiary Drain	T_149	386.87	Third Phase	up to 1 meter
Tertiary Drain	T_150	713.37	Third Phase	up to 1 meter
Tertiary Drain	T_151	832.51	Third Phase	up to 1 meter
Tertiary Drain	T_152	384.98	Third Phase	up to 1 meter

#### 14.10.3 Urban Services

The urban services are the pre condition of any potential development. The proposal for service facilities of ward no 08 is shown in table 14.24 together with mouza name and plot number.

**Table 14.24: Development Proposals for ward 08**

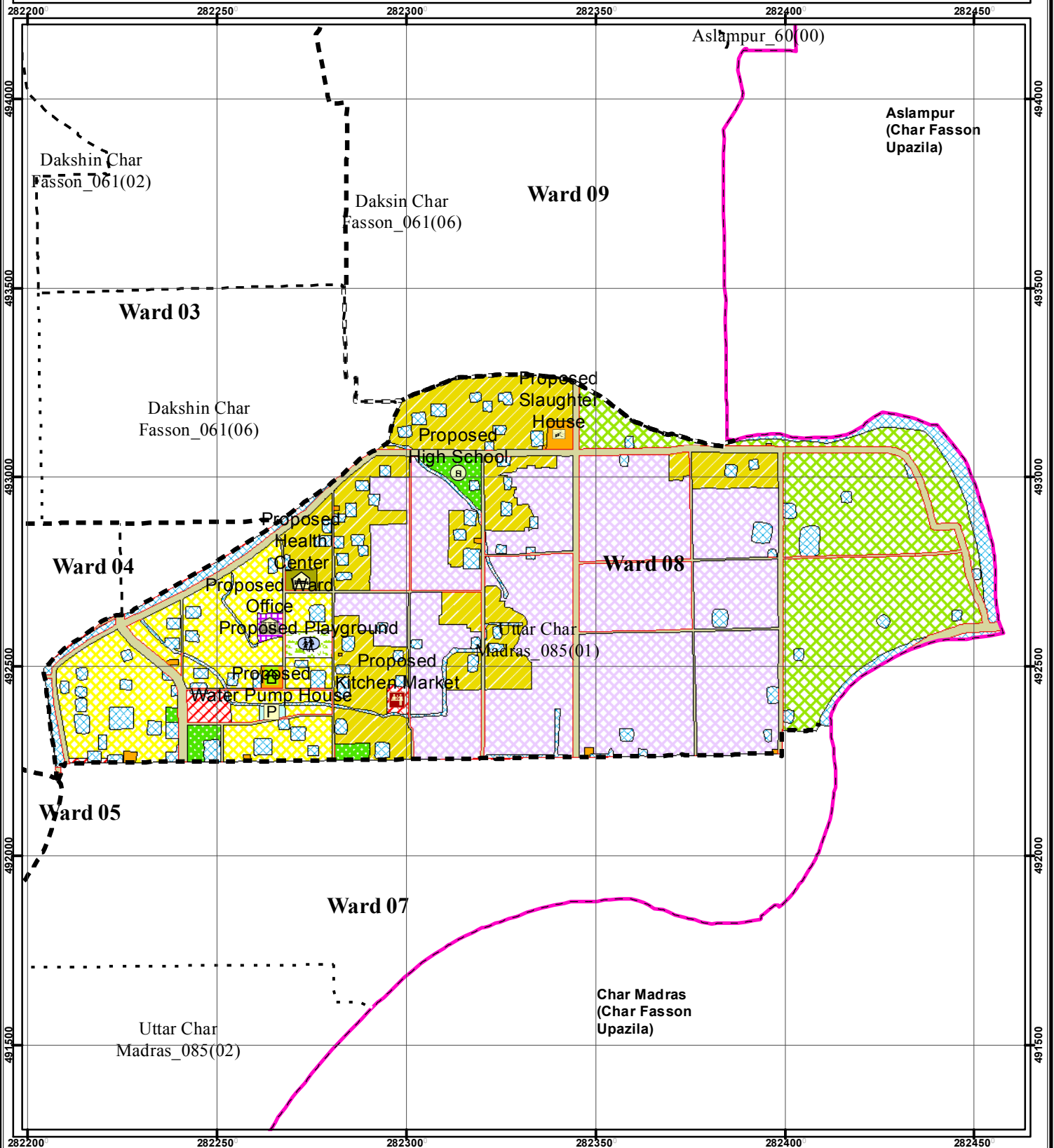
Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Cyclone Shelter	CS-4	Uttar Char Madras	68	085	01	0.86

**Char Fasson Paurashava Master Plan: 2011-2031**  
**Urban Area Plan**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Health Center	HC-8	Uttar Char Madras	62	085	01	1.15
High School	HS-1	Uttar Char Madras	139,235	085	01	2.68
Kitchen Market	KM-8	Uttar Char Madras	111,112,113,190	085	01	1.00
Playground	PG-8	Uttar Char Madras	63,64,65,66,67,68,69	085	01	2.09
Slaughter House	SH-4	Uttar Char Madras	264	085	01	1.26
Ward Center	WC-8	Uttar Char Madras	63	085	01	1.14
Water Pump House	WPH-4	Uttar Char Madras	94	085	01	0.58



**Map 14.15: Proposed Landuse Plan of Ward No. 8**



**Legend**

**Admin Boundary**

- - - Mouza Boundary
- Paurashava Boundary
- ... Sheet Boundary
- - - Ward Boundary

**Development Features**

- Cyclone Shelter
- Health Center
- High School

- Kitchen Market
- Playground
- Slaughter House
- Ward Office
- Water Pump House

**Landuse Type**

- Agricultural Zone
- Circulation Network
- Commercial Zone
- Community Facilities

- Education & Research Zone
- Government Office
- Health Services
- Mixed Use Zone
- Open Space
- Recreational Facilities
- Rural Settlement
- Urban Deferred
- Urban Residential Zone
- Utility Services
- Waterbody

0 50 100 200 300 400 Meters

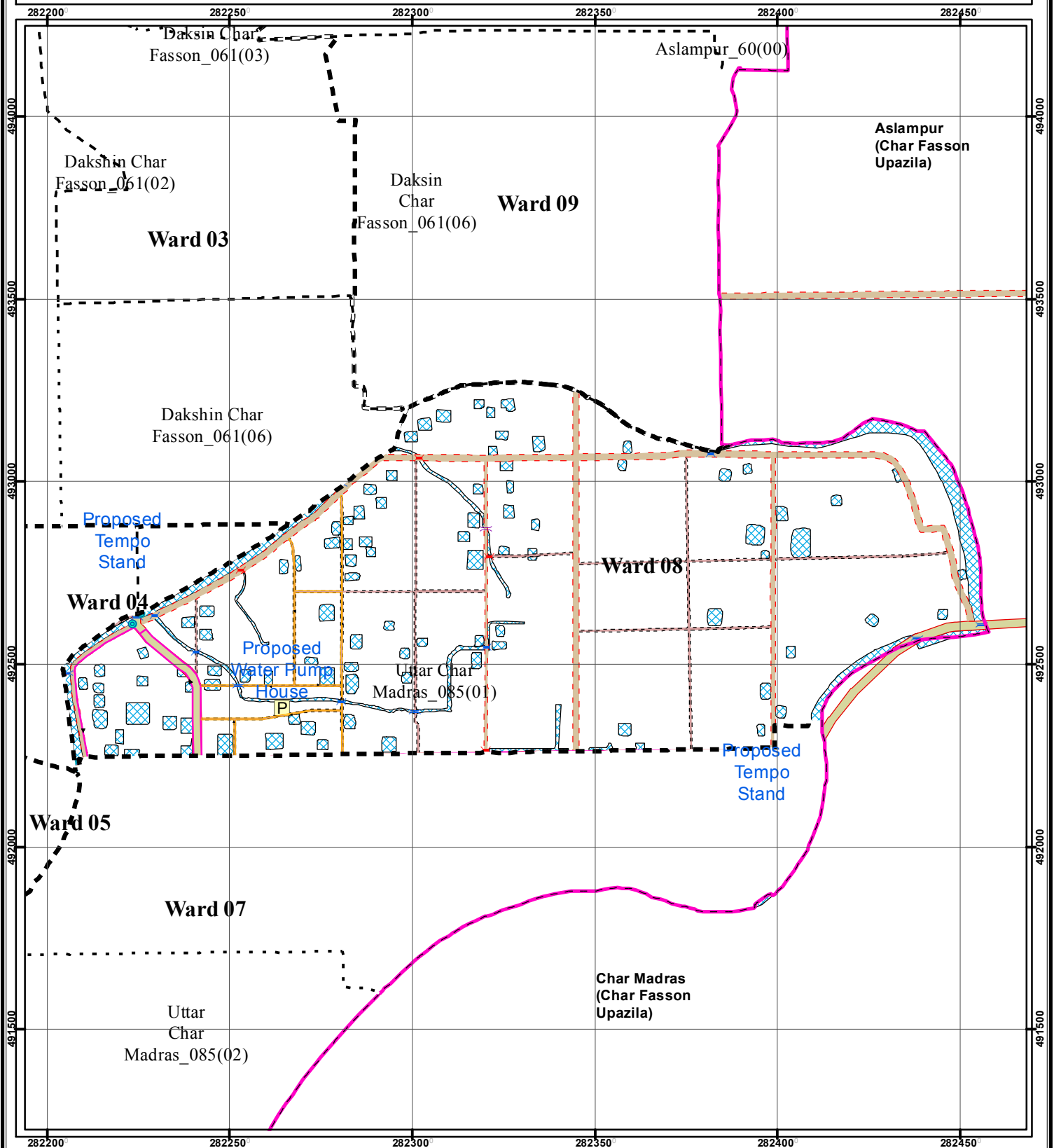


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**Map 14.16: Proposed Road & Drainage Network of Ward No.8**



**Admin Boundary**

- Mouza Boundary
- Paurashava Boundary
- Sheet Boundary
- Ward Boundary
- Existing Bridge**
  - Bridge
  - Culvert
- Proposed Bridge**
  - Bridge
  - Culvert

**Legend**

**Development Features**

- Bus Terminal
- Dumping Station
- Electric Sub Station
- Fire Service

- Tempo Stand
- Truck Terminal
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

- Drainage Outfall
- Secondary Drain
- Tertiary Drain
- Waterbody
- Primary Road
- Secondary Road
- Local Road

0 105 210 420 Meters



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## Ward Action Plan for Ward No. 09

### 14.11 Proposals and Plans for Ward-09

Ward No. 09 is located at the North-Eastern part of Char Fasson Paurashava. The area of the Ward is 825.86 acres. After reviewing and commensuration the policies and proposals of Structure Plan & Urban Area Plan the following proposals are made in the Action Plan of Ward-9 for implementation within next 5 (five) years up to 2016. Action Plan Map for Ward-9 is shown in Map 14.17 and Map 14.18

#### 14.11.1 Road Network Development Plan

In road network development plan there is about 16.78 km road in ward no 09. All of the roads of this Paurashava will be constructed as a pucca road in different phases of plan. Road widening is considered for all the existing road. Detail scenario of road network development proposal was given in Table 14.25.

**Table 14.25: Road Network Proposal at Ward no. 09**

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Secondary Road	Sr_43	60	1st Phase	1.00	Widening
Secondary Road	Sr_10	60	1st Phase	1.27	New
Secondary Road	Sr_65	60	1st Phase	1.27	New
Secondary Road	Sr_16	60	1st Phase	2.13	New
Secondary Road	Sr_71	60	1st Phase	2.13	New
Secondary Road	Sr_33	40	2nd Phase	0.04	Widening
Secondary Road	Sr_12	40	2nd Phase	0.80	New
Secondary Road	Sr_67	40	2nd Phase	0.80	New
Secondary Road	Sr_15	40	2nd Phase	0.61	New
Secondary Road	Sr_70	40	2nd Phase	0.61	New
Secondary Road	Sr_22	40	2nd Phase	1.13	New
Secondary Road	Sr_77	40	2nd Phase	1.13	New
Secondary Road	Sr_11	30	2nd Phase	0.63	New
Secondary Road	Sr_66	30	2nd Phase	0.63	New
Secondary Road	Sr_25	30	2nd Phase	1.30	New
Secondary Road	Sr_80	30	2nd Phase	1.30	New

#### 14.11.2 Drainage Development Plan

Drain is necessary for discharge all its waste water and storm water. The plan proposes 2961.30 meters of drains for ward no. 09 which will be developed during the different phase. The natural sources of drainage are playing the critical roles in drainage plan. Detail scenario of drain network development proposal was given in Table 14.26

**Table 14.26: Drainage Development Plan Proposals for ward 09**

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_10	1466.65	Second Phase	1 to 3 meter
Secondary Drain	S_20	1494.65	Second Phase	1 to 3 meter

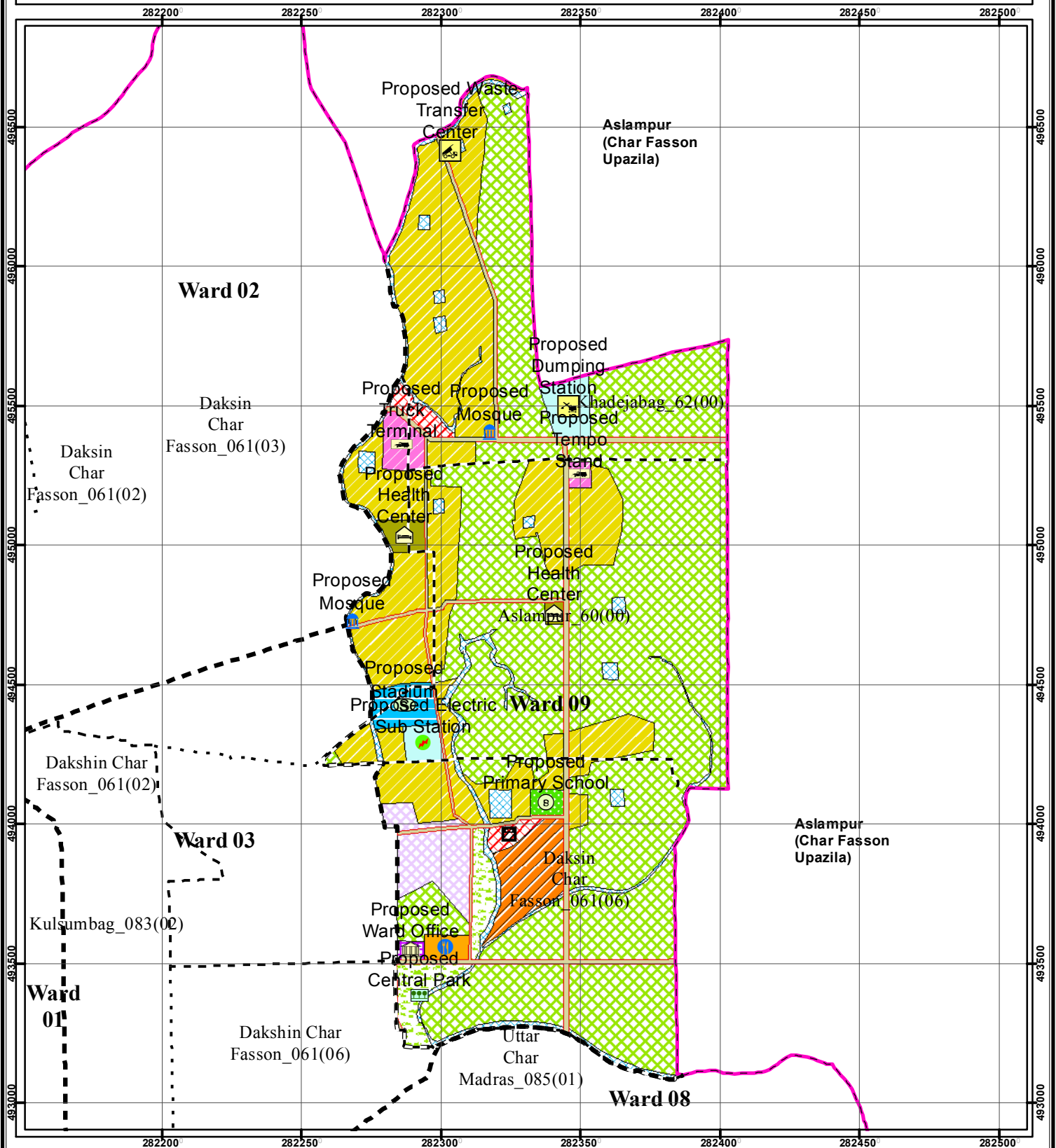
### 14.11.3 Urban Services

The urban services are the pre condition of any potential development. The proposal for service facilities of ward no 09 is shown in table 14.27 together with mouza name and plot number.

**Table 14.27: Development Proposals for ward 09**

Proposals	ID	Mouza	Plot	JL No.	Sheet No	Area (acre)
Community Center	CC-2	Daksin Char Fasson	2155,2156,2157,2158, 2160,2163,2164,2327	061	06	3.47
Electric Sub Station	ESS-1	Aslampur	1745,1747	60	00	4.09
Health Center	HC-9	Daksin Char Fasson	1101,1104,1105,1109, 1110,1114,1167,1168	061	03	5.35
Health Center	HC-9	Aslampur	1668,1693,1696,1701, 1710	60	00	00
Mosque	M-2	Daksin Char Fasson	1071,1564	061	03	0.44
Primary School	PS-04	Daksin Char Fasson	2065,2109	061	06	2.77
Retailsale Market	RM-2	Daksin Char Fasson	2063,2110,2111,2113, 2114,2122,2123	061	06	3.15
Stadium	S-1	Daksin Char Fasson	1151,1152,1156	061	03	8.23
Stadium	S-1	Aslampur	1742,1743,1744,1745, 1746,1747	60	00	00
Tempo Stand	TS-7	Aslampur	1633	60	00	1.88
Truck Terminal	TT-1	Daksin Char Fasson	912,914,1167	061	03	6.45
Truck Terminal	TT-1	Khadejabag	1563	62	00	00
Ward Center	WC-9	Daksin Char Fasson	2161,2162	061	06	1.52
Waste Dumping Ground	WDG-1	Khadejabag	1566,1567	62	00	7.75
Waste Transfer Center	WTC-5	Khadejabag	1406,1409	62	00	0.36

Map 14.17: Proposed Landuse Plan of Ward No. 9



#### Admin Boundary

- - - Mouza Boundary
- Paurashava Boundary
- - - Sheet Boundary
- - - Ward Boundary

#### Development Features

- Central Park
- Community Center
- Dumping Station
- Electric Sub Station
- Health Center

#### Legend

- Primary School
- Retailsale Market
- Stadium
- Tempo Stand
- Truck Terminal
- Ward Office
- Waste Transfer Center
- Mosque

#### Landuse Type

- Agricultural Zone
- Circulation Network

- Commercial Zone
- Community Facilities
- Education & Research Zone
- Government Office
- Health Services
- Open Space
- Recreational Facilities
- Restricted Area
- Rural Settlement
- Transportation Facilities
- Urban Deferred
- Utility Services
- Waterbody

0 70 140 280 420 560 Meters

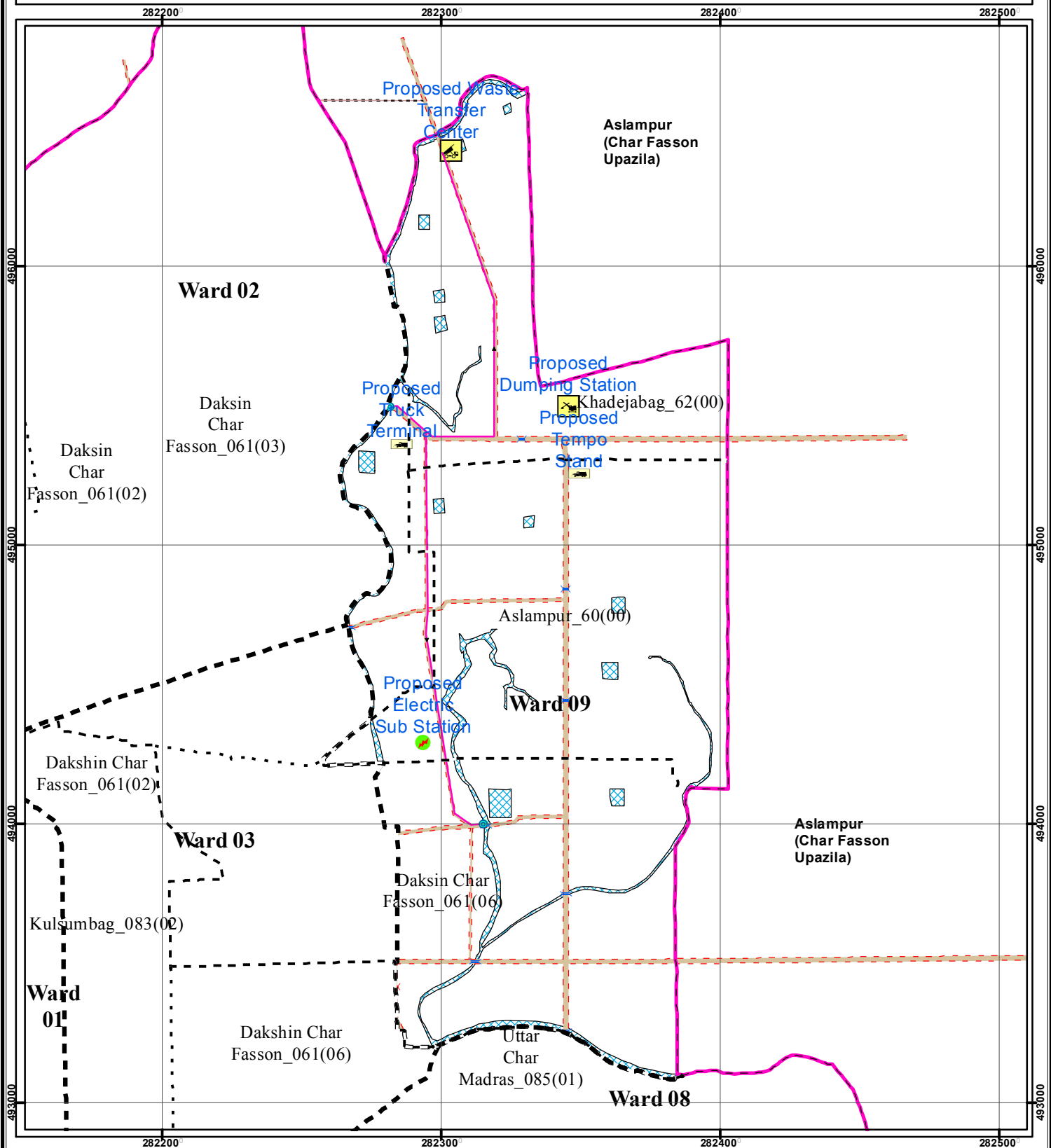


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Map 14.18: Proposed Road & Drainage Network of Ward No.9



#### Admin Boundary

- Mouza Boundary
- Paurashava Boundary
- Sheet Boundary
- Ward Boundary
- Existing Bridge**
  - Bridge
  - Culvert
- Proposed Bridge**
  - Bridge
  - Culvert

#### Legend

##### Development Features

- Bus Terminal
- Dumping Station
- Electric Sub Station
- Fire Service

- Tempo Stand
- Truck Terminal
- Waste Transfer Center
- Waste Water Treatment Plant
- Water Pump House

- Drainage Outfall
- Secondary Drain
- Tertiary Drain
- Waterbody
- Primary Road
- Secondary Road
- Local Road

0 140 280 560 Meters



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#### **14.12: Implementation Guidelines**

The Master Plan of Char Fasson Paurashava will be an effective tool for planned urban development, if it is implemented properly with legal enforcement. The different components of the Master Plan have varied implications if they are not implemented in an integrated manner. There is no separate laws related directly to the implementation of Master Plan of the Paurashavas in the country other than the Paurashava Ordinance/Act 2009 and some relevant national policies and laws as discussed in chapter 5 under the Structure Plan.

However, the legal provisions that have been made in the Paurashava Ordinance/Act 2009 can effectively be applied in the implementation of the Master Plan of Char Fasson Paurashava for the time being along with other relevant national policies and laws that have also implications at Paurashava level, such as Wetland Conservation Act 2000 and BNBC 1993. Other national policies, guidelines and laws relevant to population, agriculture, environment, tourism, building materials, building construction etc. have implications for the implementation of various components including the Ward Action Plan of the Master Plan of Char Fasson Paurashava.

Therefore, until specific laws and guidelines are made by the government for the Paurashavas in Bangladesh for the implementation of Master Plans, the existing laws, policies and guidelines should be strictly followed so that the goal and objectives of these plans are achieved. Effective application of the various existing policies and laws require prudent exercise of professional knowledge and expertise, which is lacking in the existing human resources of the Paurashavas in Bangladesh. In particular, the Paurashavas require professional urban/town planner(s) in the set up of their manpower. In this context, there is an urgent need for the creation of a planning division/section in the existing set up of the Paurashava Organogram.

##### **14.12.1 Proposals for Mitigation of Identified Issues**

The critical issues of planning and development identified in the Structure Plan have been addressed through the preparation of Urban Area Plan and Ward Action Plan. The proposals made in these plans resolve the issues addressed in the Structure Plan.

##### **14.12.2 Comparative Advantage of Master Plan**

The Paurashavas in Bangladesh do not have any practicing plans at present in regard to organized development of land use or infrastructure. This situation has been continuing over a long period of time in the past promoting spontaneous land and infrastructure development. As a result, there are examples of unplanned development creating discomfort to the people living in almost all Paurashavas in the country. The implementation of the currently prepared Master Plan of the Paurashava will remove those obstacles by applying the principles, guidelines and proposals of various components of its Master Plan. The Ward Action Plan prepared following the Urban Area Plan will solve the most pressing needs of the town in infrastructure development.

#### **14.13 Conclusion**

The Paurashavas in Bangladesh for the first time in its history are having their detailed Master Plans prepared scientifically using modern tools and techniques. These Master Plans will be effective tools for planned development of most of the urban centers in Bangladesh. The planned township development will also ensure required services for the rural areas of the country. This in turn will make a positive impact on economic growth, social progress and environmental sustainability. Char Fasson Paurashava must avail this opportunity for its progress in the future by implementing its newly prepared Master Plan.

## *Annexure*



## Team Composition of Master Plan Preparation

### A.1 Personnel of the Project Management Office (UTIDP, LGED)

SI No.	Name	Position
1	Md. Moslah Uddin	Project Director
2	Md. Manzurul Islam	Deputy Project Director
3	Syed Shahriar Amin	Urban Planner
4	Md. Swarup Hasnaine	Urban Planner
5	Mirza Zaid Hasan	Urban Planner
6	Md. Saifur Rahman	Urban Planner

### A.2 Personnel of the Consultancy Firm Sheltech Consultants (Pvt.) Ltd.

#### A. Key Personnel:

SI No.	Name	Position
1	Sultana Dilruba Aziz	Team Leader
2	Afsana M Kamal	Deputy Team Leader
3	Rukhsana Parveen	Urban Planner
4	Dr. Md. Altaf Hossain	Urban Planner
5	A.K.M. Mahfuzul Kabir	Demographer/Statistician
6	Dr. Santi Ranjan Hawlader	Urban Development Economist
7	Lipika Khan	Transport Planning Expert
8	Mohammed Iqbal Hossain	Municipal Engineer
9	Mohammad Ferozuddin	Architect Planner
10	Mohammad Quadiruzzaman	Environmental Analyst
11	Tripal Kumar Sen	GIS Specialist
12	Md. Hefzul Bari	Legal Expert

#### B. Supporting Stuff:

SI No.	Name	Position
1	Mohammad Helal	Office Manager
2	M.A. Quayum	Computer Operator
3	Md. Jhangir Hossain	Computer Operator
4	Raihanul Islam	CAD Operator
5	Zakaria Ahmed	CAD Operator
6	ANM Shafiqul Alam	Surveyor
7	Aolad Hossain	Surveyor

রেজিস্টার্ড নং ডি এ-১

বাংলাদেশ



গেজেট

অতিরিক্ত সংখ্যা

কর্তৃপক্ষ কর্তৃক প্রকাশিত

সোমবার, জুন ১৮, ২০০৭

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

স্থানীয় সরকার, পল্লী উন্নয়ন ও সমবায় মন্ত্রণালয়

স্থানীয় সরকার বিভাগ

(পৌর-৩ শাখা)

প্রজ্ঞাপন

তারিখ, ২৮ জ্যৈষ্ঠ ১৪১৪/১২ জুন ২০০৭

এস, আর, ও নং ১০৬-আইন/২০০৭।—যেহেতু, সরকার অত্র বিভাগের প্রজ্ঞাপন এস, আর, ও নং ২২২-আইন/২০০৬, তারিখ ২৯ ভাদ্র, ১৪১৩ বঙ্গাব্দ মোতাবেক ১৩ সেপ্টেম্বর ২০০৬ খ্রিস্টাব্দ দ্বারা নিম্ন তফসিলে বর্ণিত এলাকাকে শহর এলাকা ঘোষণা করিয়াছে ; এবং

যেহেতু, সরকার উক্ত এলাকাকে ভোলা জেলার চরফ্যাশন মিউনিসিপ্যালিটিভুক্ত করিয়া উহার সীমানা সম্প্রসারণের উদ্দেশ্যে Declaration and Alterations of Municipalities Rules, 1978, অতঃপর উক্ত Rules বলিয়া উল্লিখিত, এর rule 3 এর বিধান মোতাবেক উক্তরূপ সম্প্রসারণের প্রস্তাব সম্বলিত একটি পাবলিক নোটিশ জারী এবং উহার উপর পরামর্শ ও আপত্তি আহবান করিবার জন্য ভোলা জেলার ডেপুটি কমিশনারকে নির্দেশ প্রদান করিয়াছিল ; এবং

যেহেতু, উক্ত নির্দেশ অনুযায়ী ডেপুটি কমিশনার প্রয়োজনীয় ব্যবস্থা গ্রহণ করিয়া উক্ত এলাকাকে চরফ্যাশন মিউনিসিপ্যালিটিভুক্ত করিবার পক্ষে প্রতিবেদন দাখিল করিয়াছেন ; এবং

যেহেতু, সরকার উক্ত প্রতিবেদন বিবেচনান্তে উক্ত Rules এর rule 4(2) এর অধীন উক্তরূপ সম্প্রসারণের চূড়ান্ত সিদ্ধান্ত গ্রহণ করিয়াছে ;

( ৬১৫৩ )

মূল্য ৳ টাকা ২.০০

৬১৫৪

বাংলাদেশ গেজেট, অতিরিক্ত, জুন ১৮, ২০০৭

সেহেতু, Paurashava Ordinance, 1977 (Ord. No. XXVI of 1977) এর section 4(b) তে প্রদত্ত ক্ষমতাবলে এবং উক্ত Rules এর rule 5 এর বিধান মোতাবেক সরকার ভোলা জেলার চরফ্যাশন উপজেলাধীন নিম্ন তফসিলে বর্ণিত শহর এলাকাকে আগামী ৩১শে জ্যৈষ্ঠ, ১৪১৪ বঙ্গাব্দ মোতাবেক ১৪ই জুন, ২০০৭ খ্রিস্টাব্দ তারিখ হইতে চরফ্যাশন মিউনিসিপ্যালিটির অন্তর্ভুক্ত করিয়া উহার সীমানা সম্প্রসারণ করিল, যথা :-

## তফসিল

ক্রমিক নং	ইউনিয়নের নাম	মৌজার নাম	জে, এল নং	দাগ নং
১	২	৩	৪	৫
(১)	আমিনাবাদ	কুলসুমবাগ	৮৩	১১৫০ হইতে ১১৫৫, ১১৬১ হইতে ১১৬৫, ১২৭৫, ১২৭৬, ১২৯২ হইতে ১৩২৪, ১৫২৯ হইতে ১৫৪৮, ১৭০০ হইতে ১৭৩১।
(২)	জিন্মাগড়	জিন্মাগড়	৮৪	১৯৮ হইতে ২১৩, ২৩০ হইতে ২৩৬, ২৪০ হইতে ১৪৬, ২৭৬ হইতে ২৭৮, ৩১৪ হইতে ৩১৬, ৩৬৬ হইতে ৩৮৮, ৩৮৭৯ হইতে ৩৯৬০, ৪০৫৯ হইতে ৪০৮১, ৪০৯৩, ৪০৯৪, ৪১০৭, ৪১০৮।
(৩)	জিন্মাগড়	উত্তর চরফ্যাশন	৮৫	১৩৭ হইতে ১৩৮, ১৯৫ হইতে ১৩৩, ২৩৭ হইতে ৩৩৮, ৪৩২, ৪৫৬ হইতে ৪১১, ৪৭৩, ৪৭৫, ৪৭৭, ৫০৮ হইতে ৫১০, ৫১৩, ৫১৫ হইতে ৬৮৯, ৮৪৫ হইতে ৯৩৩।

রাষ্ট্রপতির আদেশক্রমে

আহসানুল হক  
সিনিয়র সহকারী সচিব

এ, কে, এম রফিকুল ইসলাম (উপ-সচিব), উপ-নিয়ন্ত্রক, বাংলাদেশ সরকারি মুদ্রণালয়, ঢাকা কর্তৃক মুদ্রিত।  
মোঃ আব্দুল হোসেন (উপ-সচিব), উপ-নিয়ন্ত্রক, বাংলাদেশ ফরম ও প্রকাশনা অফিস,  
তেজগাঁও, ঢাকা কর্তৃক প্রকাশিত।

## Annexure- C: Land use Permission

### a. Urban Residential Land Use

#### Land Use Permitted

The following uses in the tables are proposed to be applicable for this zone only.

Table C.1: Land Use Permitted

Permitted Urban Residential Uses
Artisan's Shop
Assisted Living or Elderly Home
Confectionery Shop
Barber Shop
Child Daycare \ Preschool
Cleaning \ Laundry Shop
Communication Service Facilities
Communication Tower Within Permitted Height
Condominium or Apartment
Cottage
Cyber Café
Daycare Center (Commercial or Nonprofit)
Drug Store or Pharmacy
Employee Housing (Guards \ Drivers) \ Ancillary Use
General Store
Grocery Store
High School
Household Appliance and Furniture Repair Service (No Outside Storage)
Housing For Seasonal Firm Labor
Landscape and Horticultural Services
Mosque, Place Of Worship
Newspaper Stand
Nursery School
Orphanage
Eidgah
Photocopying and Duplicating Services (No Outside Storage)
Pipelines and Utility Lines
Playing Field
Primary School
Private Garages (Ancillary Use)
Project Identification Signs
Property Management Signs
Public Transport Facility
Satellite Dish Antenna
Shelter (Passers By)
Shoe Repair or Shoeshine Shop (Small)

Permitted Urban Residential Uses
CBO Office
Special Dwelling
Temporary Tent
Temporary tent for Permitted Function
Newspaper Stand
Specialized School: Dance, Art, Music, Physically Challenged & Others
Transmission Lines
Urban-Nature Reserve
Utility Lines
Woodlot
Children's Park (Must Have Parking)
ATM Booth
Water Pump \ Reservoir
Monument (Neighborhood Scale)
Bill Payment Booth
Boarding and Rooming House
Dormitory
Memorial Structure (Ancillary)
<b>Neighborhood Center*</b> (Where Neighborhood Center exists)
Permitted
Community Center
Doctor \ Dentist Chamber
Cultural Exhibits and Libraries
Fast Food Establishment \ Food Kiosk
Flowers, Nursery Stock and Florist Supplies
Fitness Centre
Gaming Clubs
Departmental Stores
Retail Shops \ Facilities

Source: Compiled by the Consultants

\*Permission of Neighborhood Center Facilities in absence of formal neighborhood should be subject to Landuse Permit Committee

#### Land Use Conditionally Permitted

The following uses may be permitted or disallowed in this zone after review and approval by the authority/committee following appropriate procedure while the application meets the criteria mentioned in the requirement.

Table C.2: Land Use Conditionally Permitted

Conditionally Permitted Residential Uses	Urban
Addiction Treatment Center	
Amusement and Recreation (Indoors)	
Funeral Services	
Art Gallery, Art Studio \ Workshop	
Automobile Driving Academy	
Beauty and Body Service	
Billiard Parlor \ Pool Hall	
Book or Stationery Store or Newsstand	
Building Maintenance \ Cleaning Services, No Outside Storage	
Bus Passenger Shelter	
Graveyard \ Cemetery	
Coffee Shop \ Tea Stall	
Correctional Institution	
Courier Service	
Crematorium	
Plantation (Except Narcotic Plant)	
Furniture & Variety Stores	
Emergency Shelter	
Energy Installation	
Garages	
Garden Center or Retail Nursery	
Fire Brigade Station	
Police Station	
Temporary Rescue Shed	
Guest House	
Slaughter House	
Static Transformer Stations	
Tourist Home or Resort	
Market (Bazar)	
Optical Goods Sales	
Outdoor Café	
Outdoor Fruit and Vegetable Markets	
Community Hall	
Neighborhood Co-Operative Office	
Overhead Water Storage Tanks	
Row House	
Paints and Varnishes Store	
Parking Lot	
Patio Homes	
Photofinishing Laboratory	
Post Office	
Postal Facilities	
Sports and Recreation Club	
Tennis Club	
Flood Management Structure	
Telephone Sub Station	
Electrical Sub Station	

Source: Compiled by the Consultants

### Restricted Uses

All uses except permitted and conditionally permitted uses are restricted in this zone.

### b. General Industry Land use Permitted

General Industry land use category approve only Green and Orange-A category industry mentioned in *The Environmental Conservation Rule, 1997*. The following uses in the tables are proposed to be applicable for this zone only.

Table C.3: Land Use Permitted

Permitted General Industrial Activities
Confectionery Shop
Bank & Financial Institution
Bicycle Assembly, Parts and Accessories
Blacksmith
Bus Passenger Shelter
Communication Tower Within Permitted Height
Freight Transport Facility
Police Box \ Barrack
Fire \ Rescue Station
Grocery Store
Household Appliance and Furniture Repair Service
Machine Sheds
Meat and Poultry (Packing & Processing)
Mosque, Place Of Worship
Newspaper Stand
Photocopying and Duplicating Services
Pipelines and Utility Lines
Printing, Publishing and Distributing
Public Transport Facility
Restaurant
Retail Shops \ Facilities
Salvage Processing
Salvage Yards
Satellite Dish Antenna
Sawmill, Chipping and Pallet Mill
Shelter (Passers By)
Television, Radio or Electronics Repair (No Outside Storage)
Transmission Lines
Truck Stop & Washing or Freight Terminal
Utility Lines
Wood Products

<b>Permitted General Industrial Activities</b>
Woodlot
ATM Booth
Water Pump \ Reservoir
Effluent Treatment Plant
Social Forestry

Source: Compiled by the Consultants

#### **Land Use Conditionally Permitted**

The following uses may be permitted or denied in this zone after review and approval by the authority/committee following appropriate procedure.

Table C.4: Land Use Conditionally Permitted

<b>Conditionally Permitted General Industrial Land Uses</b>
Amusement and Recreation (Indoors)
Appliance Store
Plantation (Except Narcotic Plant)
Cyber Café
Daycare Center (Commercial or Nonprofit)
Doctor \ Dentist Chamber
Electrical and Electronic Equipment and Instruments Sales
Employee Housing
Energy Installation
Fast Food Establishment \ Food Kiosk
Garages
Grain & Feed Mills
Incineration Facility
Super Store
Lithographic or Print Shop
Motor Vehicle Fuelling Station \ Gas Station
Motorcycle Sales Outlet
Outdoor Fruit and Vegetable Markets
Outside Bulk Storage
Overhead Water Storage Tanks
Painting and Wallpaper Sales
Paints and Varnishes
Parking Lot
Parking Lot (Commercial)
Private Garages
Retail Shops Ancillary To Studio \ Workshop
Jute Mill

Source: Compiled by the Consultants

#### **Restricted Uses**

All other uses; except the permitted and conditionally permitted uses.

### **c. Commercial Zone**

#### **Land Use Permitted**

Commercial zone is mainly intended for supporting the office and business works. There are several functions that are permitted in this zone.

Table C.5: Land Use Permitted

<b>Permitted Commercial Activity</b>
Accounting, Auditing or Bookkeeping Services
Billboards, Advertisements & Advertising Structure
Agri-Business
Agricultural Sales and Services
Ambulance Service
Antique Shop
Appliance Store
Auction Market
Auditorium, Coliseum, Meeting Halls, and Conference Facilities, Convention
Auto Leasing or Rental Office
Auto Paint Shop
Auto Parts and Accessory Sales (Indoors)
Auto Repair Shop (With Garage)
Automobile Wash
Automobile Sales
Confectionery Shop
Bakery or Confectionery Retail
Bank & Financial Institution
Bar (Licensed)
Barber Shop
Beauty and Body Service
Bicycle Shop
Billiard Parlor \ Pool Hall
Book or Stationery Store or Newsstand
Building Material Sales or Storage (Indoors)
Bulk Mail and Packaging
Bus Passenger Shelter
Cinema Hall
Communication Service Facilities
Communication Tower Within Permitted Height
Computer Maintenance and Repair
Computer Sales & Services
Conference Center
Construction Company
Courier Service
Cyber Café
Daycare Center (Commercial or Nonprofit)

Permitted Commercial Activity
Department Stores, Furniture & Variety Stores
Doctor \ Dentist Chamber
Drug Store or Pharmacy
Electrical and Electronic Equipment and Instruments Sales
Fast Food Establishment \ Food Kiosk
Freight Handling, Storage & Distribution
Freight Transport Facility
Freight Yard
General Store
Grocery Store
Guest House
Hotel or Motel
Inter-City Bus Terminal
Jewelry and Silverware Sales
Junk \ Salvage Yard
Super Store
Market (Bazar)
Mosque, Place Of Worship
Motorcycle Sales Outlet
Multi-Storey Car Park
Newspaper Stand
Outdoor Fruit and Vegetable Markets
Outdoor Recreation, Commercial
Parking Lot (Commercial)
Pet Store
Photocopying and Duplicating Services
Photofinishing Laboratory & Studio
Pipelines and Utility Lines
Post Office
Preserved Fruits and Vegetables Facility \ Cold Storage
Printing, Publishing and Distributing
Project Identification Signs
Property Management Signs
Public Transport Facility
Refrigerator or Large Appliance Repair
Resort
Restaurant
Retail Shops \ Facilities
Salvage Processing
Salvage Yards
Satellite Dish Antenna
Sawmill, Chipping and Pallet Mill
Shelter (Passers By)
Shopping Mall \ Plaza
Slaughter House
Software Development

Permitted Commercial Activity
Sporting Goods and Toys Sales
Taxi Stand
Telephone Exchanges
Television, Radio or Electronics Repair (No Outside Storage)
Theater (Indoor)
Transmission Lines
Utility Lines
Vehicle Sales & Service, Leasing or Rental
Veterinarian Clinics, Animal Hospitals, Kennels and Boarding Facilities
Warehousing
Wood Products
Woodlot
ATM Booth
Water Pump \ Reservoir
Agro-Based Industry (Rice Mill, Saw Mill, Cold Storage)
Social Forestry

Source: Compiled by the Consultants

#### Land Use Conditionally Permitted

Some functions are permitted with some condition in this zone.

Table C.6: Land Use Conditionally Permitted

Conditionally permitted commercial activities
Amusement and Recreation (Indoors)
Bicycle Assembly, Parts and Accessories
Broadcast Studio \ Recording Studio (No Audience)
Coffee Shop \ Tea Stall
Concert Hall, Stage Shows
Construction, Survey, Soil Testing Firms
Trade Shows
Craft Workshop
Plantation (Except Narcotic Plant)
Energy Installation
Firm Equipment Sales & Service
Agricultural Chemicals, Pesticides or Fertilizers Shop
Fitness Centre
Flowers, Nursery Stock and Florist Supplies
Forest Products Sales
Fuel and Ice Dealers
Garages
Garden Center or Retail Nursery
Police Box \ Barrack

<b>Conditionally permitted commercial activities</b>
Fire \ Rescue Station
Grain & Feed Mills
Household Appliance and Furniture Repair Service
Incineration Facility
Indoor Amusement Centers, Game Arcades
Indoor Theatre
Lithographic or Print Shop
Motor Vehicle Fuelling Station \ Gas Station
Musical Instrument Sales or Repair
Optical Goods Sales
Painting and Wallpaper Sales
Paints and Varnishes
Parking Lot
Patio Homes
Postal Facilities
Poultry
Private Garages
Professional Office
Retail Shops Ancillary To Studio \ Workshop
Stone \ Cut Stone Products Sales

Source: Compiled by the Consultants

#### **Restricted Uses**

All other uses except, the permitted and conditionally permitted uses.

#### **d. Rural Settlement**

##### **Land Use Permitted**

The following uses in the tables are proposed to be applicable for this zone only.

Table C.7: Land Use Permitted

<b>Permitted Rural Settlement</b>
Agricultural Dwellings
Animal Husbandry
Animal Shelter
Graveyard \ Cemetery
Child Daycare \ Preschool
Primary School
Communication Tower Within Permitted Height
Cottage
Crematorium
Dairy Farming
General Store
Grocery Store
Handloom (Cottage Industry)

<b>Permitted Rural Settlement</b>
Housing For Seasonal Firm Labor
Mosque, Place Of Worship
Newspaper Stand
Nursery School
orphanage
Outdoor Religious Events (Eidgah)
Playing Field
Satellite Dish Antenna
NGO \ CBO Facilities
Special Dwelling (E.G. Dorm For Physically Challenged Etc.)
Temporary Shed \ Tent
Specialized School: Dance, Art, Music, Physically Challenged & Others
Static Electrical Sub Stations
Transmission Lines
Utility Lines
Woodlot
Plantation (Except Narcotic Plant)
Social Forestry
Memorial Structure

Source: Compiled by the Consultants

#### **Land Use Conditionally Permitted**

The following uses may be permitted or disallowed in this zone after review and approval by the authority/committee following appropriate procedure while the application meets the criteria mentioned in the requirement.

Table No. C.8: Land Use Conditionally Permitted

<b>Conditionally permitted uses under Rural Settlement</b>
Artisan's Shop (Potter, Blacksmith, and Goldsmith Etc.)
Research organization (Agriculture \ Fisheries)
Energy Installation
Fish Hatchery
Garden Center or Retail Nursery
Emergency Shelter
Sports and Recreation Club, Firing Range: Indoor

Source: Compiled by the Consultants

#### **Restricted Uses**

All uses except permitted and conditionally permitted uses are restricted in this zone.



**e. Mixed use zone****Land Use Permitted**

The following uses in the tables are proposed to be applicable for this zone only.

Table C.9: Land Use Permitted

<b>Permitted uses in Mixed Use Zone</b>
Accounting, Auditing or Bookkeeping Services
Addiction Treatment Center
Billboards, Advertisements & Advertising Structure
Agricultural Sales and Services
Antique Store
Appliance Store
Art Gallery, Art Studio \ Workshop
Artisan's Shop
Assisted Living or Elderly Home
Auditorium, Coliseum, Meeting Halls, and Conference Facilities, Convention
Auto Leasing or Rental Office
Automobile Wash
Automobile Driving Academy
Confectionery Shop
Bakery or Confectionery Retail
Bank & Financial Institution
Barber Shop
Bicycle Shop
Billiard Parlor \ Pool Hall
Blacksmith
Boarding and Rooming House
Book or Stationery Store or Newsstand
Bus Passenger Shelter
Child Daycare \ Preschool
Cleaning \ Laundry Shop
Commercial Recreational Buildings
Communication Service Facilities
Communication Tower Within Permitted Height
Community Center
Condominium or Apartment
Correctional Institution
Courier Service
Cyber Café
Daycare Center (Commercial or Nonprofit)
Doctor \ Dentist Chamber
Employee Housing
Fabric Store
Fast Food Establishment \ Food Kiosk

<b>Permitted uses in Mixed Use Zone</b>
Funeral Services
General Store
Grocery Store
Guest House
Hospital
Jewelry and Silverware Sales
Landscape and Horticultural Services
Mosque, Place Of Worship
Newspaper Stand
Nursery School
Photocopying and Duplicating Services
Pipelines and Utility Lines
Primary School
Project Identification Signs
Property Management Signs
Public Transport Facility
Resort
Satellite Dish Antenna
Shelter (Passers By)
Shoe Repair or Shoeshine Shop (Small)
Slaughter House
Social organization
Software Development
Special Dwelling
Toys and Hobby Goods Processing and Supplies
Training Centre
Transmission Lines
Utility Lines
Vehicle Sales & Service, Leasing or Rental
Warehousing
Woodlot
Children's Park
ATM Booth
Water Pump \ Reservoir
Social Forestry
Dormitory
Rickshaw \ Auto Rickshaw Stand

Source: Compiled by the Consultants

**Land Use Conditionally Permitted**

The following uses may be permitted or disallowed in this zone after review and approval by the authority/committee.

Table C.10: Land Use Conditionally Permitted

<b>Conditionally permitted uses in Mixed Use Zone</b>
Agricultural Chemicals, Pesticides or Fertilizers

Conditionally permitted uses in Mixed Use Zone
Shop
Amusement and Recreation (Indoors)
Beauty and Body Service
Broadcast Studio \ Recording Studio (No Audience)
Building Maintenance \ Cleaning Services, No Outside Storage
Building Material Sales or Storage (Indoors)
Graveyard \ Cemetery
Coffee Shop \ Tea Stall
Computer Maintenance and Repair
Computer Sales & Services
Concert Hall, Stage Shows
Conference Center
Construction Company
Construction, Survey, Soil Testing Firms
Cottage
Counseling Services
Craft Workshop
Crematorium
Plantation (Except Narcotic Plant)
Cultural Exhibits and Libraries
Department Stores, Furniture & Variety Stores
Drug Store or Pharmacy
Energy Installation
Fitness Centre
Flowers, Nursery Stock and Florist Supplies
Freight Handling, Storage & Distribution
Freight Transport Facility
Gaming Clubs
Garages
Garden Center or Retail Nursery
Commercial Office
Project Office
Government Office
Hotel or Motel
Household Appliance and Furniture Repair Service
Indoor Amusement Centers, Game Arcades
Indoor Theatre
Lithographic or Print Shop
Market (Bazar)
Health Office, Dental Laboratory, Clinic or Lab
Musical Instrument Sales or Repair
Optical Goods Sales
Outdoor Café
Outdoor Fruit and Vegetable Markets
Painting and Wallpaper Sales
Paints and Varnishes
Patio Homes
Photofinishing Laboratory & Studio
Poultry
Printing, Publishing and Distributing

Conditionally permitted uses in Mixed Use Zone
Psychiatric Hospital
Retail Shops Ancillary To Studio \ Workshop
Radio \ Television or T&T Station With Transmitter Tower
Refrigerator or Large Appliance Repair
Restaurant
Retail Shops \ Facilities
Sporting Goods and Toys Sales
Sports and Recreation Club, Firing Range: Indoor
Telephone Exchanges
Television, Radio or Electronics Repair (No Outside Storage)

Source: Compiled by the Consultants

### Restricted Uses

All uses except permitted and conditionally permitted uses are restricted in this zone.

### f. Education and Research Area

#### Land Use Permitted

The following uses in the tables are proposed to be applicable for this zone only.

Table C.11: Land Use Permitted

Permitted uses under Education & Research Zone
Addiction Treatment Center
Billboards, Advertisements & Advertising Structure
Art Gallery, Art Studio \ Workshop
Automobile Driving Academy
Confectionery Shop
Bus Passenger Shelter
Child Daycare \ Preschool
College, University, Technical Institute
Communication Service Facilities
Communication Tower Within Permitted Height
Conference Center
Correctional Institution
Cultural Exhibits and Libraries
Cyber Café
Freight Transport Facility
General Store
Grocery Store
High School
Hospital
Lithographic or Print Shop
Mosque, Place Of Worship
Multi-Storey Car Park
Newspaper Stand

<b>Permitted uses under Education &amp; Research Zone</b>
Nursery School
Outdoor Religious Events
Photocopying and Duplicating Services
Post Office
Primary School
Professional Office
Project Identification Signs
Property Management Signs
Public Transport Facility
Satellite Dish Antenna
School (Retarded)
Scientific Research Establishment
Shelter (Passers By)
Specialized School: Dance, Art, Music & Others
Training Centre
Transmission Lines
Utility Lines
Vocational, Business, Secretarial School
Woodlot
ATM Booth
Water Pump \ Reservoir
Social Forestry
Dormitory
Veterinary School \ College and Hospital

Source: Compiled by the Consultants

#### **Land Use Conditionally Permitted**

The following uses may be permitted or denied in this zone after review and approval by the authority/committee.

Table C.12: Land Use Conditionally Permitted

<b>Conditionally permitted uses under Education and Research Zone</b>
Auditorium, Coliseum, Meeting Halls, and Conference Facilities, Convention
Bank & Financial Institution
Barber Shop
Boarding and Rooming House
Book or Stationery Store or Newsstand
Coffee Shop \ Tea Stall
Counseling Services
Courier Service
Plantation (Except Narcotic Plant)
Daycare Center (Commercial or Nonprofit)
Doctor \ Dentist Chamber
Drug Store or Pharmacy
Fast Food Establishment \ Food Kiosk
Flowers, Nursery Stock and Florist Supplies
Gallery \ Museum
Garages

<b>Conditionally permitted uses under Education and Research Zone</b>
Indoor Theatre
orphanage
Outdoor Café
Parking Lot
Pipelines and Utility Lines
Postal Facilities
Psychiatric Hospital

Source: Compiled by the Consultants

#### **Restricted Uses**

All uses except permitted and conditionally permitted uses are restricted in this zone.

#### **g. Government Office**

##### **Land Use Permitted**

The following uses in the tables are proposed to be applicable for this zone only.

Table C.13: Land Use Permitted

<b>Permitted uses under Government Office Zone</b>
Accounting, Auditing or Bookkeeping Services
Billboards, Advertisements & Advertising Structure
Confectionery Shop
Bus Passenger Shelter
Civic Administration
Communication Service Facilities
Communication Tower Within Permitted Height
Construction, Survey, Soil Testing Firms
Cultural Exhibits and Libraries
Cyber Café
Emergency Shelter
Freight Transport Facility
General Store
Project Office
Government Office
Grocery Store
Guest House
Multi-Storey Car Park
Newspaper Stand
Outdoor Religious Events
Photocopying and Duplicating Services
Post Office
Professional Office
Public Transport Facility
Satellite Dish Antenna

<b>Permitted uses under Government Office Zone</b>
Scientific Research Establishment
Shelter (Passers By)
Training Centre
Transmission Lines
Utility Lines
Woodlot
ATM Booth
Water Pump \ Reservoir
Social Forestry

Source: Compiled by the Consultants

#### **Land Use Conditionally Permitted**

The following uses may be permitted or denied in this zone after review and approval by the authority/committee.

Table C.14: Land Use Conditionally Permitted

<b>Conditionally permitted uses under Government office</b>
Amusement and Recreation (Indoors)
Auditorium, Coliseum, Meeting Halls, and Conference Facilities, Convention
Bank & Financial Institution
Boarding and Rooming House
Book or Stationery Store or Newsstand
Coffee Shop \ Tea Stall
Conference Center
Courier Service
Plantation (Except Narcotic Plant)
Daycare Center (Commercial or Nonprofit)
Detention Facilities
Doctor \ Dentist Chamber
Energy Installation
Fast Food Establishment \ Food Kiosk
Flowers, Nursery Stock and Florist Supplies
Freight Handling, Storage & Distribution
Freight Yard
Gallery \ Museum
Garages
Police Box \ Barrack
Fire \ Rescue Station
Lithographic or Print Shop
Mosque, Place Of Worship
Outdoor Café
Parking Lot
Parking Lot (Commercial)
Pipelines and Utility Lines
Postal Facilities

Source: Compiled by the Consultants

#### **Restricted Uses**

All uses except permitted and conditionally permitted uses are restricted in this zone.

#### **h. Agricultural Zone**

##### **Land Use Permitted**

The following uses in the tables are proposed to be applicable for this zone only.

Table C.15: Land Use Permitted

<b>Permitted uses under Agricultural Zone</b>
Food Grain Cultivation
Vegetable Cultivation
Cash Crop Cultivation
Horticulture
Arboriculture
Dairy Farming
Deep Tube Well
Shallow Tube Well
Irrigation Facilities (Irrigation Canal, Culvert, Flood Wall etc)
Temporary Structure (Agricultural)
Animal Shelter
Duckery
Aquatic Recreation Facility (Without Structure)
Tree Plantation (Except Narcotic Plant)
Aquaculture
Static Transformer Stations
Transmission Lines
Utility Lines
Woodlot
Social Forestry

Source: Compiled by the Consultants

#### **Land Use Conditionally Permitted**

Table C.16: Land Use Conditionally Permitted

<b>Conditionally permitted uses under Agricultural Zone</b>
Graveyard \ Cemetery
Communication Tower Within Permitted Height
Crematorium
Fish Hatchery
Garden Center or Retail Nursery
Poultry

Source: Compiled by the Consultants

#### **Restricted Uses**

All uses except permitted and conditionally permitted uses are restricted in this zone.

**j. Open Space****Land Use Permitted**

The following uses in the tables are proposed to be applicable for this zone only.

Table C.17: Land Use Permitted

<b>Permitted uses under Open Space</b>
Botanical Garden & Arboretum
Bus Passenger Shelter
Caravan Park \ Camping Ground
Carnivals and Fairs
Circus
Plantation (Except Narcotic Plant)
Landscape and Horticultural Services
Open Theater
Park and Recreation Facilities (General)
Pipelines and Utility Lines
Playing Field
Special Function Tent
Tennis Club
Transmission Lines
Urban-Nature Reserve
Utility Lines
Woodlot
Zoo
Roadside Parking
Social Forestry
Memorial Structure

Source: Compiled by the Consultants

**Landuse Conditionally Permitted**

Table C.18: Land Use Conditionally Permitted

<b>Conditionally permitted uses under open space</b>
Communication Tower Within Permitted Height
Trade Shows
Fitness Centre
Flowers, Nursery Stock and Florist Supplies
Golf Course
Motorized Recreation
Outdoor Recreation Facilities
Outdoor Recreation, Commercial
Outdoor Sports and Recreation
Park Maintenance Facility
Retreat Center
Sports and Recreation Club, Firing Range: Indoor

Source: Compiled by the Consultants

**Restricted Uses**

All uses except permitted and conditionally permitted uses are restricted.

**k. Water Body**

Retaining water is the main purpose of this type of Landuse.

**Land Use Permitted**

The following uses in the tables are proposed to be applicable for this zone only.

Table C.19: Land Use Permitted

<b>Permitted uses under Water Body</b>
Aquatic Recreation Facility (Without Structure)
Fishing Club
Utility Lines
Water Parks
Memorial Structure

Source: Compiled by the Consultants

**Land Use Conditionally Permitted**

The following uses may be permitted or denied in this zone after review and approval by the authority/committee.

Table C.20: Land Use Conditionally Permitted

<b>Conditionally permitted uses under water body</b>
Plantation (Except Narcotic Plant)
Marina \ Boating Facility
Motorized Recreation

Source: Compiled by the Consultants

**Restricted Uses**

All uses except permitted and conditionally permitted uses are restricted.

## চরফ্যাশন পৌরসভার মহাপরিকল্পণার উপর চূড়ান্ত মতবিনিময় সভার কার্যবিবরণী

তারিখ: ২৯/৯/২০১৩

স্থান: চরফ্যাশন পৌরসভা

সময়: সকাল ১১:০০ ঘটিকায়

স্থানীয় সরকার প্রকৌশল অধিদপ্তর, চরফ্যাশন পৌরসভা ও পরামর্শক প্রতিষ্ঠানের যৌথ উদ্যোগে চরফ্যাশন পৌরসভার মহাপরিকল্পণার উপর মাননীয় মেয়র জনাব আঃ ছালাম হাওলাদার এর সভাপতিত্বে চূড়ান্ত মতবিনিময় সভা অনুষ্ঠিত হয়। উক্ত মতবিনিময় সভায় পৌরসভার কাউন্সিলরবৃন্দ সহ স্থানীয় গণ্যমাণ্য ব্যক্তি বর্গ, বিভিন্ন সরকারি-বেসরকারি অধিদপ্তরের কর্মকর্তাবৃন্দ, স্থানীয় সরকার প্রকৌশল অধিদপ্তরের প্রতিনিধি, এবং মহাপরিকল্পনার প্রণয়ণ প্রকল্পে নিযুক্ত পরামর্শকবৃন্দ উপস্থিত হয়ে আলোচনায় অংশগ্রহণ করেন।

সভার শুরুতে মাননীয় মেয়র মহোদয় জনাব আঃ ছালাম হাওলাদার উপস্থিত সকলকে শুভেচ্ছা জানিয়ে আনুষ্ঠানিকভাবে সভার কার্যক্রম শুরু করেন এবং স্বাগত বক্তব্যে উল্লেখ করেন যে, আগামী (২০) বিশ বছরের জন্য এই মহাপরিকল্পনার উক্ত পরিকল্পণায় উপস্থিত সকলকে সুচিন্তিত মতামত প্রদানের জন্য আহ্বান করেন যাতে করে পরিকল্পনাটি আরও গঠনমূলক ও বাস্তব সম্মত হয়।

উপজেলা শহর অবকাঠামো উন্নয়ন প্রকল্পের পরিকল্পণাবিদ মোঃ জিয়াউল হক মহাপরিকল্পণার স্বয়ংসম্পূর্ণ ও যথাযথ বাস্তবায়নের জন্য সকলের সহযোগীতা কামনা করেন এবং তিনি বলেন যে সকলের মূল্যবান মতামত পরিকল্পণাকে আরো গঠনমূলক ও সময়োপযোগী করে তুলবে।

পরামর্শক প্রতিষ্ঠানের পক্ষ থেকে পরিকল্পণাবিদ ডঃ নুরুল ইসলাম নাজেম, উপস্থিত সকলকে স্বাগত জানিয়ে চূড়ান্ত মহাপরিকল্পনার উপর Power Point Presentation এর মাধ্যমে তার বক্তব্য তুলে ধরেন। তিনি কার্যক্রমসমূহ, উন্নয়নের সম্ভাবনাসমূহ ধাপে ধাপে বর্ণনা করেন। এরপর মহাপরিকল্পণার কোথায় কিভাবে প্রস্তাবনা সমূহ ওয়ার্ড ভিত্তিক দেওয়া হয়েছে সেসব বিষয় আলোচনা করেন। তিনি আরও উল্লেখ করেন যে, সকলের মতামতের ভিত্তিতে যে প্রস্তাবসমূহ দেওয়া হয়েছিল তা নিম্নরূপ:

Type of facility	Area (Acre)	Ward no	Plot No	Mouza Name_JL_Sheet
Planned Housing 1	9.57	01	1326, 1327, 1330, 1331, 1333, 1349	Kulsumbag_83_02
Planned Housing 2	13.41	01	1326, 1327, 1333, 1334, 1758	
Planned Housing 3	22.69	01	1334, 1336, 1337, 1338, 1762, 1763, 1764, 1766	
Private Housing	12.18	05	1424, 1425, 1426, 1429, 1430, 1431, 1432	Jinnagarh_84_02 (1 <sup>st</sup> part)
Cattle Market	13.17	05	344, 357, 360, 361, 362, 99999	Jinnagarh_84_01
			1416, 1420, 99999	Jinnagarh_84_02 (1 <sup>st</sup> part)
Neighborhood Market	2.94	09	516, 525	Uttar Char Madrasa_85_01

Type of facility	Area (Acre)	Ward no	Plot No	Mouza Name_JL_Sheet
		02	459	Dakshin Char Fasson_61_02
		05	1416, 1418, 1419, 1420	Jinnagarh_84_02 (1 <sup>st</sup> part)
		06	3757, 3758	Jinnagarh_84_03
New City Center	17.66	05	1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1379, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1394, 1429, 1432, 1433, 1434, 1495, 1497	Jinnagarh_84_02 (1 <sup>st</sup> part)
Retail Market	4.37	1	1748, 1749, 1750, 1751	Kulsumbag_83_02
		2	432	Dakshin Char Fasson_61_02
		4	823, 831	Jinnagarh_84_01
		5	1374, 1375	Jinnagarh_84_02 (1 <sup>st</sup> part)
		7	321	Uttar Char Madrasa_85_01
		8	91	Uttar Char Madrasa_85_01
		9	501, 512, 632, 633	Uttar Char Madrasa_85_01
Slaughter House	2.16	7	852, 862	Uttar Char Madrasa_85_02
Wholesale Market	2.21	7	394, 398	Uttar Char Madrasa_85_01
Fish Processing and Manufacturing Zone	3.69	5	338, 342, 343, 344, 339	Jinnagarh_84_01
			1420, 99999	Jinnagarh_84_02 (1 <sup>st</sup> part)
Small Scale Industry	30.24	5	342, 343, 344, 345, 346, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 362	Jinnagarh_84_01
Ward Offices	0.24	1	1748	Kulsumbag_83_02
	0.23	2	459	Dakshin Char Fasson_61_02
	0.38	3	1325	Jinnagarh_84_02 (1st part)
	0.23	4	320	Jinnagarh_84_01
	0.35	5	334	Jinnagarh_84_01
	0.44	6	3845, 3852	Jinnagarh_84_03
	0.34	7	387, 417	Uttar Char Madrasa_85_01
	0.27	8	91	Uttar Char Madrasa_85_01
	0.13	9	512	Uttar Char Madrasa_85_01
College	7.32	8	166, 175, 176, 189, 191, 192, 193, 194	Uttar Char Madrasa_85_01
		9	319	
Secondary School	7.03	2	459	Dakshin Char Fasson_61_02
		5	1402, 1403, 1404, 1405, 1409, 1411, 1412, 1413, 1414, 1415, 1416,	Jinnagarh_84_02 (1st part)
		6	3712, 3714	Jinnagarh_84_03
		9	533, 36	Uttar Char Madrasa_85_01
Primary School	4.26	2	432	Dakshin Char Fasson_61_02

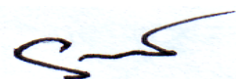
Type of facility	Area (Acre)	Ward no	Plot No	Mouza Name_JL_Sheet
		3	1325, 1326, 1327, 1328	Jinnagarh_84_02 (1st part)
		8	86, 87, 90	Uttar Char Madrasa_85_01
		9	582, 593, 594, 631, 644	Uttar Char Madrasa_85_01
Vocational Training Center	2.18	3	1325	Jinnagarh_84_02 (1st part)
Kindergarten	1.77	7	417	Uttar Char Madrasa_85_01
		9	487, 490	Uttar Char Madrasa_85_01
		1	1785	Kulsumbag_83_02
Amusement Park	28.18	6	3757, 3758, 3759, 3760, 3761, 3762, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3771, 3772, 3773, 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3790, 3791, 3795, 3796, 3800, 3801, 3802	Jinnagarh_84_03
Neighborhood Park	5.48	2	432, 439, 440, 441, 442	Dakshin Char Fasson_61_02
		3	1325, 1326, 1327, 1328, 1329	Jinnagarh_84_02 (1st part)
		7	417	Uttar Char Madrasa_85_01
Park	37.47	1	1778, 1788, 1792	Kulsumbag_83_02
		3	2228, 2230, 2248, 2250, 2251, 2276, 2277, 2278, 2280, 2281, 2282, 2284, 2285, 2286	Dakshin Char Fasson_61_06
		4	327, 328, 329, 330, 331, 332	Jinnagarh_84_01
		8	68, 80, 91, 93, 94, 101, 102, 105, 119, 139, 141, 142, 143, 144, 147, 148, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 169, 680, 99999	Uttar Char Madrasa_85_01
		9	500, 501	Uttar Char Madrasa_85_01
Play ground	10.31	2	459	Dakshin Char Fasson_61_02
		3	1314, 1315, 1321, 1325	Jinnagarh_84_02 (1st part)
		4	318, 319, 320	Jinnagarh_84_01
		6	316, 318, 321	Jinnagarh_84_03
		7	417, 420	Uttar Char Madrasa_85_01
		8	90, 91	
Stadium	5.55	4	321, 322, 324, 325, 326	Jinnagarh_84_01
Bus Terminal	7.13	2	432, 434	Dakshin Char Fasson_61_02
		3	1325	Jinnagarh_84_02 (1st part)
		6	3910, 391	Jinnagarh_84_03
Bus Stand	0.82	5	1416, 1418	Jinnagarh_84_02 (1st part)
		7	321	Uttar Char Madrasa_85_01
		8	91	
Truck Terminal	1.34	6	3699, 3700, 3711	Jinnagarh_84_03
Ricksaw Stand	0.47	5	1364, 1366, 1367, 1369	Jinnagarh_84_02 (1st part)



Type of facility	Area (Acre)	Ward no	Plot No	Mouza Name_JL_Sheet
Tempu/ Baby Taxi Stand	0.87	3	1325	Jinnagarh_84_02 (1st part)
		5	1418, 1419, 1420	
Passengers Shed	0.02	3	1325	Jinnagarh_84_02 (1st part)
Waste Transfer Station	0.42	1	1748, 1811, 1818	Kulsumbag_83_02
	0.70	2	434	Dakshin Char Fasson_61_02
			2224	Dakshin Char Fasson_61_06
	0.31	3	2298	Dakshin Char Fasson_61_06
			1325	Jinnagarh_84_02 (1st part)
	0.95	4	1148, 1151, 1152, 1153, 1237, 1238, 1243, 1244, 1245, 1277, 99999	Jinnagarh_84_02 (1st part)
	0.94	5	344	Jinnagarh_84_01
	0.46	6	1436, 1448, 1449	Jinnagarh_84_02 (1st part)
			3848, 3923	Jinnagarh_84_03
	0.50	7	394, 395	Uttar Char Madrasa_85_01
			844, 852	Uttar Char Madrasa_85_02
	0.53	8	61, 62, 87, 89, 90, 91	Uttar Char Madrasa_85_01
	0.81	9	308, 601	Uttar Char Madrasa_85_01
Waste Dumping Site	4.98	1	1300, 1302, 1304, 1306, 1307, 1308, 1309, 1310, 1311, 1313, 1314, 1315, 1316, 1319, 1320, 1321, 1322, 1323	Kulsumbag_83_02
Overhead Tank	0.35	1	1747, 1748	Kulsumbag_83_02
	1.18	2	459, 460	Dakshin Char Fasson_61_01
	0.19	3	1325, 1327, 1328, 1329	Jinnagarh_84_02 (1st part)
	0.93	4	331, 332	Jinnagarh_84_01
	0.15	5	1369, 1370	Jinnagarh_84_02 (1st part)
	0.25	6	3824	Jinnagarh_84_03
	0.14	7	394	Uttar Char Madrasa_85_01
	0.66	8	91, 235	
	0.95	9	515, 16	
Water Treatment Plant	1.23	9	664, 665, 686	Uttar Char Madrasa_85_01
Health Centre/ Maternity Clinic	2.33	2	2222	Dakshin Char Fasson_61_06
	0.45	3	1325	Jinnagarh_84_02 (1st part)
	1.76	6	3716, 3718, 3869	Jinnagarh_84_03
	1.15	7	389, 394, 416, 417	Uttar Char Madrasa_85_01
	1.65	8	91, 139, 235	Uttar Char Madrasa_85_01
	2.96	9	512, 513, 600, 601	Uttar Char Madrasa_85_01
Hospital/ Health Complex	3.95	1	1701, 1702, 1704, 1748, 1749, 1750, 1754, 1755	Kulsumbag_83_02
	4.50	4	328, 329, 332	Jinnagarh_84_01
Central Mosque & Eidgah	12.96	3	2271, 2272, 2273, 2276, 2277, 2278, 2279, 2280, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291	Dakshin Char Fasson_61_06
Central Graveyard	12.15	9	533, 534, 552, 553, 560, 561, 562, 659, 660, 661, 662, 663, 664, 665,	Uttar Char Madrasa_85_01

Type of facility	Area (Acre)	Ward no	Plot No	Mouza Name_JL_Sheet
			668, 669	
Graveyard	0.44	6	3869, 4082	Jinnagarh_84_03
Community Center	0.44	1	1748, 1749	Kulsumbag_83_02
	0.35	2	459	Dakshin Char Fasson_61_02
	0.35	3	1325	Jinnagarh_84_02 (1st part)
	0.29	4	320	Jinnagarh_84_01
	0.72	5	333, 334, 335	Jinnagarh_84_01
	0.66	6	3841, 3843, 3844, 3845	Jinnagarh_84_03
	1.22	7	387, 416, 417	Uttar Char Madrasa_85_01
	0.48	8	89, 91, 92, 93, 99999	Uttar Char Madrasa_85_01
	0.20	9	501, 512	Uttar Char Madrasa_85_01
Cremation Plane	3.63	6	3693, 3694, 3698, 3700, 3701, 3702, 3703, 3704, 3707	Jinnagarh_84_03
	0.32	3	1325, 1327, 1328, 1329, 1330	Jinnagarh_84_02 (1st part)

সমাপনী বক্তব্যে মেয়র মহোদয় পরামর্শক প্রতিষ্ঠানের পরিকল্পণাবিদগণকে এবং স্থানীয় সরকার প্রকৌশল অধিদপ্তরকে পৌরসভার মহাপরিকল্পণা প্রণয়নের জন্য পুনরায় ধন্যবাদ জ্ঞাপন করেন এবং সম্ভাব্য সকল দিকনির্দেশনাগুলি সন্নিবেশিত করে যথাশীঘ্রসম্ভব চূড়ান্ত মহাপরিকল্পণা প্রণয়ন করার জন্য অনুরোধ করেন। সভায় আর কোন আলোচনা না থাকায় সকলকে ধন্যবাদ জানিয়ে পৌরসভার স্বপ্ন বাস্তবায়নের আশা ব্যক্ত করে সভার কার্যক্রম সমাপ্তি ঘোষণা করেন।



.....  
(জনাব আঃ ছালাম হাওলাদার)  
মেয়র,  
চরফ্যাশন পৌরসভা

স্থানীয় সরকার প্রকৌশল অধিদপ্তর, ঢাকা-১২০৭  
উপজেলা শহর অবকাঠামো উন্নয়ন প্রকল্প, প্যাকেজ-১১

চরফ্যাশন পৌরসভার মহাপরিকল্পনার উপর চূড়ান্ত মতবিনিময় সভা  
চরফ্যাশন পৌরসভা।

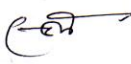






স্থান: চরফ্যাশন পৌরসভা। তারিখ: ২৯ সেপ্টেম্বর, ২০১৩ খ্রিঃ; সকাল ১১:০০ ঘটিকা

অংশগ্রহনকারীর তালিকা

ক্রমিক নং	নাম	প্রতিষ্ঠান ও পদবী	ফোন নম্বর	সাক্ষর
১	মো: আলী হান্নান	চরফ্যাশন পৌরসভা	০১৭২৭৪৩৭২৬	স্বাক্ষর
২	মো: আব্দুল হান্নান	কর্তৃপক্ষ	০১৭১৬-০৭০১১৮	স্বাক্ষর
৩	মো: জহির রামহান	প্যানেল মেম্বর-২	০১৭১২-৭৭৬৭০০	স্বাক্ষর
৪	মো: মাহিদীন	কর্তৃপক্ষ	০১৭২৭-৫৭২৪৪৫	স্বাক্ষর
৫	মো: হান্নান বেগম	কর্তৃপক্ষ	০১৭৪২১০৪০২৮	স্বাক্ষর
৬	মো: হান্নান বেগম	কর্তৃপক্ষ	০১৭১৮৩৪১৭৮১	স্বাক্ষর
৭	মো: হান্নান বেগম	কর্তৃপক্ষ	০১৬৪৬৪৭৭৫৪	স্বাক্ষর
৮	মো: আহম্মদ হুসৈন	কর্তৃপক্ষ	০১৭১৬২০৭৭	স্বাক্ষর
৯	মো: আব্দুল হান্নান	কর্তৃপক্ষ	০১৭১০২৫৪৫৪	স্বাক্ষর
১০	মো: কবির হান্নান	কর্তৃপক্ষ	০১৭১৬৭১৪৬০	স্বাক্ষর
১১	মো: কালিমুল্লাহ	কর্তৃপক্ষ	০১৭১৬-২৬৭৭৬৭	স্বাক্ষর

ক্রমিক নং	নাম	প্রতিষ্ঠান ও পদবী	ফোন নম্বর	সাক্ষর
১২	ডাঃ এমসমী	স্বৈক্যসমীচ- উন্নয়ন কেন্দ্র	০১৭২৭৪১১৬৬	Alamgir, 29/09/20
১৩	ডাঃ মোহাম্মদ হুসাইন	১ নং ডি.পি.ও.	০১৭৬১৩৭৫৩০	16/09/20
১৪	ডাঃ মোসাদ্দিক	উপাচার্য জিলা সচিবালয়	০১৭১২৪৬৭৪১	21/09/20
১৫	ডাঃ আব্দুল করিম আব্দুল	উপ-ডেপুটি মুন্সিফ অফিস	০২৩২৫২৪৪৭৭	20/09/20
১৬	ডাঃ মোহাম্মদ হুসাইন	সি.এস.ও. মুন্সিফ অফিস	০২৩২৫০২ ৬৬০৪	2
১৭	ডাঃ এ.বি. হুসাইন	উপ-ডেপুটি মুন্সিফ অফিস	০১৭২৬৩১৪১০১	20/09/20
১৮	ডাঃ মোসাদ্দিক	প্রধান অফিসার	০১৭৬০২২০২৫	21/09/20
১৯	ডাঃ মোসাদ্দিক	কম্পিউটার অফিসার	০২৩২৫০২৪৪৭৭	20/09/20
২০	ডাঃ মোসাদ্দিক	কম্পিউটার অফিসার	০২৩২০৬৪৪২০	20/09/20
২১	ডাঃ মোসাদ্দিক	কম্পিউটার অফিসার	০১৭৩১৩৪ ৩১৬২	20/09/20
২২	ডাঃ মোসাদ্দিক	কম্পিউটার অফিসার	০১৭১৬২৩৩৩৪৪	20/09/20
২৩	ডাঃ মোসাদ্দিক	কম্পিউটার অফিসার	০১৭১৩-৬৫৭১৫২	20/09/20
২৪	ডাঃ মোসাদ্দিক	কম্পিউটার অফিসার	০১৭১৩৫২০২৪৪	20/09/20
২৫	ডাঃ মোসাদ্দিক	কম্পিউটার অফিসার	০১৭১৭-০৩ ৬৭৪৭	20/09/20



ক্রমিক নং	নাম	প্রতিষ্ঠান ও পদবী	ফোন নম্বর	সাক্ষর
২৬	ডোঃ নেহা রুড্রিগ্‌স	২২৩৪ বঙ্গবন্ধু চরভদ্রনাথপুর	০১৭১৬৩৭০২ ৭৩	
২৭	ডোঃ মোস্তাফিজ হোসেন	ইন-সার্জারী সুলে (বিঃস)	০১৭২৪০৩৪৪৫	
২৮	ডুঃ ফারুক হোসেন	ফার্মাসিউটিক্যাল কোম্পানী - (এল)	০১৭২৪৫৭১৩৭৭	ডুঃ ফারুক হোসেন
২৯	ডাঃ এমিলি রুড্রিগ্‌স	ফার্মাসিউটিক্যাল	০১৭১৬৭১৭৭৫	
৩০	মুজিব চন্দ্র দাস	ফার্মাসিউটিক্যাল/ইন-সার্জারী (সিঃস)	০১৭১৭১৪৭৭৪৪	
৩১	ডাঃ মোহাম্মদ হোসেন	ফার্মাসিউটিক্যাল CPL SUPPLY	০১৭৪৭০৭২৭৬	
৩২	ডাঃ মোহাম্মদ হোসেন	ফার্মাসিউটিক্যাল (সিঃস)	০১৮১৭২৬২০৭২	
৩৩	মুজিব হোসেন	ফার্মাসিউটিক্যাল ফার্মাসিউটিক্যাল	০১৮১৭২৩৪০৪	
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৩৫				
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৩৭				
৩৮				
৩৯				

ক্রমিক নং	নাম	প্রতিষ্ঠান ও পদবী	ফোন নম্বর	সাক্ষর
৪০	ডাঃ মোহাম্মদ সম্মতি	চরভদ্রনাথ জেলা EPI Supervisor	০২১৪৭০৭২ ২৬	সাক্ষর
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## Annexure E: Phase wise existing road widening proposals

Ward No. 01

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_100	20	3rd Phase	0.48	New
Local Road	Lr_13	20	3rd Phase	0.26	New
Local Road	Lr_16	20	3rd Phase	0.05	New
Local Road	Lr_21	20	3rd Phase	0.30	New
Local Road	Lr_22	20	3rd Phase	0.30	New
Local Road	Lr_280	20	3rd Phase	0.26	New
Local Road	Lr_283	20	3rd Phase	0.05	New
Local Road	Lr_288	20	3rd Phase	0.30	New
Local Road	Lr_289	20	3rd Phase	0.30	New
Local Road	Lr_29	20	3rd Phase	0.61	New
Local Road	Lr_296	20	3rd Phase	0.61	New
Local Road	Lr_297	20	3rd Phase	0.31	New
Local Road	Lr_30	20	3rd Phase	0.31	New
Local Road	Lr_309	20	3rd Phase	0.31	New
Local Road	Lr_310	20	3rd Phase	0.28	New
Local Road	Lr_311	20	3rd Phase	0.43	New
Local Road	Lr_312	20	3rd Phase	0.43	New
Local Road	Lr_330	20	3rd Phase	0.52	New
Local Road	Lr_331	20	3rd Phase	0.23	New
Local Road	Lr_332	20	3rd Phase	0.26	New
Local Road	Lr_333	20	3rd Phase	0.46	New
Local Road	Lr_334	20	3rd Phase	0.01	New
Local Road	Lr_345	20	3rd Phase	0.26	New
Local Road	Lr_346	20	3rd Phase	0.14	New
Local Road	Lr_347	20	3rd Phase	0.08	New
Local Road	Lr_348	20	3rd Phase	0.43	New
Local Road	Lr_349	20	3rd Phase	0.12	New
Local Road	Lr_350	20	3rd Phase	0.11	New
Local Road	Lr_358	20	3rd Phase	0.51	New
Local Road	Lr_359	20	3rd Phase	0.59	New
Local Road	Lr_360	20	3rd Phase	0.18	New
Local Road	Lr_361	20	3rd Phase	0.26	New
Local Road	Lr_362	20	3rd Phase	0.22	New
Local Road	Lr_363	20	3rd Phase	0.35	New
Local Road	Lr_367	20	3rd Phase	0.48	New
Local Road	Lr_42	20	3rd Phase	0.31	New

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_43	20	3rd Phase	0.28	New
Local Road	Lr_44	20	3rd Phase	0.43	New
Local Road	Lr_45	20	3rd Phase	0.43	New
Local Road	Lr_63	20	3rd Phase	0.52	New
Local Road	Lr_64	20	3rd Phase	0.23	New
Local Road	Lr_65	20	3rd Phase	0.26	New
Local Road	Lr_66	20	3rd Phase	0.46	New
Local Road	Lr_67	20	3rd Phase	0.01	New
Local Road	Lr_78	20	3rd Phase	0.26	New
Local Road	Lr_79	20	3rd Phase	0.14	New
Local Road	Lr_80	20	3rd Phase	0.08	New
Local Road	Lr_81	20	3rd Phase	0.43	New
Local Road	Lr_82	20	3rd Phase	0.12	New
Local Road	Lr_83	20	3rd Phase	0.11	New
Local Road	Lr_91	20	3rd Phase	0.51	New
Local Road	Lr_92	20	3rd Phase	0.59	New
Local Road	Lr_93	20	3rd Phase	0.18	New
Local Road	Lr_94	20	3rd Phase	0.26	New
Local Road	Lr_95	20	3rd Phase	0.22	New
Local Road	Lr_96	20	3rd Phase	0.35	New
Local Road	Lr_115	20	3rd Phase	0.14	Widening
Local Road	Lr_116	20	3rd Phase	0.05	Widening
Local Road	Lr_125	20	3rd Phase	0.10	Widening
Local Road	Lr_126	20	3rd Phase	0.51	Widening
Local Road	Lr_127	20	3rd Phase	0.04	Widening
Local Road	Lr_128	20	3rd Phase	0.14	Widening
Local Road	Lr_129	20	3rd Phase	0.12	Widening
Local Road	Lr_130	20	3rd Phase	0.03	Widening
Local Road	Lr_131	20	3rd Phase	0.05	Widening
Local Road	Lr_132	20	3rd Phase	0.08	Widening
Local Road	Lr_133	20	3rd Phase	0.11	Widening
Local Road	Lr_134	20	3rd Phase	0.03	Widening
Local Road	Lr_137	20	3rd Phase	0.08	Widening
Local Road	Lr_141	20	3rd Phase	0.09	Widening
Local Road	Lr_142	20	3rd Phase	0.16	Widening
Local Road	Lr_147	20	3rd Phase	0.17	Widening
Local Road	Lr_150	20	3rd Phase	0.14	Widening
Local Road	Lr_151	20	3rd Phase	0.01	Widening
Local Road	Lr_159	20	3rd Phase	0.03	Widening
Local Road	Lr_196	20	3rd Phase	0.06	Widening



Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_204	20	3rd Phase	1.11	Widening
Local Road	Lr_206	20	3rd Phase	0.06	Widening
Local Road	Lr_217	20	3rd Phase	0.29	Widening
Local Road	Lr_232	20	3rd Phase	0.05	Widening
Local Road	Lr_241	20	3rd Phase	0.08	Widening
Local Road	Lr_248	20	3rd Phase	0.61	Widening
Local Road	Lr_258	20	3rd Phase	0.08	Widening
Secondary Road	Sr_1	40	2nd Phase	0.95	New
Secondary Road	Sr_18	40	2nd Phase	0.91	New
Secondary Road	Sr_20	30	2nd Phase	0.99	New
Secondary Road	Sr_21	30	2nd Phase	0.45	New
Secondary Road	Sr_4	40	2nd Phase	0.31	New
Secondary Road	Sr_56	40	2nd Phase	0.95	New
Secondary Road	Sr_59	40	2nd Phase	0.31	New
Secondary Road	Sr_64	30	2nd Phase	0.31	New
Secondary Road	Sr_73	40	2nd Phase	0.91	New
Secondary Road	Sr_75	30	2nd Phase	0.99	New
Secondary Road	Sr_76	30	2nd Phase	0.45	New
Secondary Road	Sr_9	30	2nd Phase	0.31	New
Secondary Road	Sr_14	60	1st Phase	0.80	New
Secondary Road	Sr_17	60	1st Phase	1.28	New
Secondary Road	Sr_69	60	1st Phase	0.80	New
Secondary Road	Sr_72	60	1st Phase	1.28	New
Secondary Road	Sr_26	40	2nd Phase	0.37	Widening
Secondary Road	Sr_29	40	2nd Phase	0.61	Widening
Secondary Road	Sr_36	40	2nd Phase	0.61	Widening
Secondary Road	Sr_31	60	1st Phase	1.87	Widening
Secondary Road	Sr_38	60	1st Phase	0.62	Widening
Primary Road	Pr_3	80	1st Phase	0.92	Widening
Primary Road	Pr_8	100	1st Phase	3.05	Widening

#### Ward No. 02

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_334	20	3rd Phase	0.26	New
Local Road	Lr_335	20	3rd Phase	0.76	New
Local Road	Lr_336	20	3rd Phase	0.76	New
Local Road	Lr_339	20	3rd Phase	0.56	New
Local Road	Lr_340	20	3rd Phase	0.53	New
Local Road	Lr_67	20	3rd Phase	0.26	New

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_68	20	3rd Phase	0.76	New
Local Road	Lr_69	20	3rd Phase	0.76	New
Local Road	Lr_72	20	3rd Phase	0.56	New
Local Road	Lr_73	20	3rd Phase	0.53	New
Secondary Road	Sr_10	60	1st Phase	1.76	New
Secondary Road	Sr_65	60	1st Phase	1.76	New
Secondary Road	Sr_13	30	2nd Phase	1.50	New
Secondary Road	Sr_68	30	2nd Phase	1.50	New
Secondary Road	Sr_18	40	2nd Phase	0.00	New
Secondary Road	Sr_73	40	2nd Phase	0.00	New
Secondary Road	Sr_21	30	2nd Phase	1.38	New
Secondary Road	Sr_76	30	2nd Phase	1.38	New
Primary Road	Pr_8	100	1st Phase	0.42	Widening

#### Ward No. 03

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_38	20	3rd Phase	0.05	New
Local Road	Lr_305	20	3rd Phase	0.05	New
Local Road	Lr_46	20	3rd Phase	0.18	New
Local Road	Lr_313	20	3rd Phase	0.18	New
Local Road	Lr_47	20	3rd Phase	0.34	New
Local Road	Lr_314	20	3rd Phase	0.34	New
Local Road	Lr_48	20	3rd Phase	0.41	New
Local Road	Lr_315	20	3rd Phase	0.41	New
Local Road	Lr_49	20	3rd Phase	0.31	New
Local Road	Lr_316	20	3rd Phase	0.31	New
Local Road	Lr_50	20	3rd Phase	0.14	New
Local Road	Lr_317	20	3rd Phase	0.14	New
Local Road	Lr_51	20	3rd Phase	0.04	New
Local Road	Lr_318	20	3rd Phase	0.04	New
Local Road	Lr_52	20	3rd Phase	0.14	New
Local Road	Lr_319	20	3rd Phase	0.14	New
Local Road	Lr_53	20	3rd Phase	0.05	New
Local Road	Lr_320	20	3rd Phase	0.05	New
Local Road	Lr_54	20	3rd Phase	0.14	New
Local Road	Lr_321	20	3rd Phase	0.14	New
Local Road	Lr_55	20	3rd Phase	0.16	New
Local Road	Lr_322	20	3rd Phase	0.16	New
Local Road	Lr_68	20	3rd Phase	0.02	New
Local Road	Lr_335	20	3rd Phase	0.02	New
Local Road	Lr_69	20	3rd Phase	0.01	New

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_336	20	3rd Phase	0.01	New
Local Road	Lr_70	20	3rd Phase	0.42	New
Local Road	Lr_337	20	3rd Phase	0.42	New
Local Road	Lr_71	20	3rd Phase	0.43	New
Local Road	Lr_338	20	3rd Phase	0.43	New
Local Road	Lr_84	20	3rd Phase	0.31	New
Local Road	Lr_351	20	3rd Phase	0.31	New
Local Road	Lr_85	20	3rd Phase	0.58	New
Local Road	Lr_352	20	3rd Phase	0.58	New
Local Road	Lr_86	20	3rd Phase	0.11	New
Local Road	Lr_353	20	3rd Phase	0.11	New
Local Road	Lr_87	20	3rd Phase	0.22	New
Local Road	Lr_354	20	3rd Phase	0.22	New
Local Road	Lr_88	20	3rd Phase	0.15	New
Local Road	Lr_355	20	3rd Phase	0.15	New
Local Road	Lr_89	20	3rd Phase	0.26	New
Local Road	Lr_356	20	3rd Phase	0.26	New
Local Road	Lr_90	20	3rd Phase	0.47	New
Local Road	Lr_357	20	3rd Phase	0.47	New
Local Road	Lr_97	20	3rd Phase	0.23	New
Local Road	Lr_364	20	3rd Phase	0.23	New
Local Road	Lr_98	20	3rd Phase	0.37	New
Local Road	Lr_365	20	3rd Phase	0.37	New
Local Road	Lr_99	20	3rd Phase	0.16	New
Local Road	Lr_366	20	3rd Phase	0.16	New
Local Road	Lr_134	20	3rd Phase	0.57	Widening
Local Road	Lr_135	20	3rd Phase	0.17	Widening
Local Road	Lr_136	20	3rd Phase	0.11	Widening
Local Road	Lr_138	20	3rd Phase	0.11	Widening
Local Road	Lr_139	20	3rd Phase	0.07	Widening
Local Road	Lr_140	20	3rd Phase	0.11	Widening
Local Road	Lr_143	20	3rd Phase	0.08	Widening
Local Road	Lr_144	20	3rd Phase	0.03	Widening
Local Road	Lr_145	20	3rd Phase	0.18	Widening
Local Road	Lr_146	20	3rd Phase	0.20	Widening
Local Road	Lr_148	20	3rd Phase	0.05	Widening
Local Road	Lr_149	20	3rd Phase	0.03	Widening
Local Road	Lr_151	20	3rd Phase	0.30	Widening
Local Road	Lr_153	20	3rd Phase	0.08	Widening
Local Road	Lr_154	20	3rd Phase	0.20	Widening

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_155	20	3rd Phase	0.06	Widening
Local Road	Lr_156	20	3rd Phase	0.05	Widening
Local Road	Lr_158	20	3rd Phase	0.21	Widening
Local Road	Lr_178	20	3rd Phase	0.16	Widening
Local Road	Lr_186	20	3rd Phase	0.28	Widening
Local Road	Lr_190	20	3rd Phase	0.18	Widening
Local Road	Lr_192	20	3rd Phase	0.05	Widening
Local Road	Lr_205	20	3rd Phase	0.45	Widening
Local Road	Lr_208	20	3rd Phase	0.40	Widening
Local Road	Lr_210	20	3rd Phase	0.12	Widening
Local Road	Lr_234	20	3rd Phase	0.02	Widening
Local Road	Lr_237	20	3rd Phase	0.05	Widening
Local Road	Lr_238	20	3rd Phase	0.28	Widening
Local Road	Lr_239	20	3rd Phase	0.07	Widening
Local Road	Lr_240	20	3rd Phase	0.30	Widening
Local Road	Lr_242	20	3rd Phase	0.15	Widening
Local Road	Lr_209	20	3rd Phase	0.04	Widening
Local Road	Lr_210	20	3rd Phase	0.04	Widening
Secondary Road	Sr_27	40	2nd Phase	0.29	Widening
Secondary Road	Sr_33	40	2nd Phase	0.45	Widening
Secondary Road	Sr_43	60	1st Phase	1.20	Widening
Secondary Road	Sr_49	40	2nd Phase	0.61	Widening
Secondary Road	Sr_54	30	2nd Phase	0.67	Widening
Secondary Road	Sr_12	40	2nd Phase	1.47	New
Secondary Road	Sr_67	40	2nd Phase	1.47	New
Secondary Road	Sr_15	40	2nd Phase	0.98	New
Secondary Road	Sr_70	40	2nd Phase	0.98	New
Secondary Road	Sr_19	30	2nd Phase	1.09	New
Secondary Road	Sr_74	30	2nd Phase	1.09	New
Secondary Road	Sr_24	30	2nd Phase	0.63	New
Secondary Road	Sr_79	30	2nd Phase	0.63	New
Primary Road	Pr_3	80	1st Phase	0.06	Widening
Primary Road	Pr_8	100	1st Phase	0.04	Widening

Ward No. 04

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_152	20	3rd Phase	0.20	Widening
Local Road	Lr_157	20	3rd Phase	0.36	Widening
Local Road	Lr_163	20	3rd Phase	0.28	Widening
Local Road	Lr_164	20	3rd Phase	0.29	Widening
Local Road	Lr_165	20	3rd Phase	0.39	Widening

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_173	20	3rd Phase	0.14	Widening
Local Road	Lr_174	20	3rd Phase	0.09	Widening
Local Road	Lr_175	20	3rd Phase	0.09	Widening
Local Road	Lr_177	20	3rd Phase	0.12	Widening
Local Road	Lr_179	20	3rd Phase	0.04	Widening
Local Road	Lr_186	20	3rd Phase	0.69	Widening
Local Road	Lr_189	20	3rd Phase	0.28	Widening
Local Road	Lr_194	20	3rd Phase	0.28	Widening
Local Road	Lr_197	20	3rd Phase	0.44	Widening
Local Road	Lr_198	20	3rd Phase	0.15	Widening
Local Road	Lr_208	20	3rd Phase	0.02	Widening
Local Road	Lr_242	20	3rd Phase	0.07	Widening
Local Road	Lr_246	20	3rd Phase	0.36	Widening
Local Road	Lr_247	20	3rd Phase	0.10	Widening
Local Road	Lr_249	20	3rd Phase	0.16	Widening
Local Road	Lr_250	20	3rd Phase	0.03	Widening
Local Road	Lr_253	20	3rd Phase	0.11	Widening
Local Road	Lr_256	20	3rd Phase	0.04	Widening
Local Road	Lr_257	20	3rd Phase	0.22	Widening
Local Road	Lr_259	20	3rd Phase	0.14	Widening
Local Road	Lr_260	20	3rd Phase	0.15	Widening
Local Road	Lr_261	20	3rd Phase	0.05	Widening
Local Road	Lr_262	20	3rd Phase	0.11	Widening
Local Road	Lr_263	20	3rd Phase	0.15	Widening
Local Road	Lr_264	20	3rd Phase	0.09	Widening
Local Road	Lr_265	20	3rd Phase	0.10	Widening
Local Road	Lr_14	20	3rd Phase	0.08	New
Local Road	Lr_281	20	3rd Phase	0.08	New
Local Road	Lr_17	20	3rd Phase	0.04	New
Local Road	Lr_284	20	3rd Phase	0.04	New
Local Road	Lr_18	20	3rd Phase	0.16	New
Local Road	Lr_285	20	3rd Phase	0.16	New
Local Road	Lr_19	20	3rd Phase	0.05	New
Local Road	Lr_286	20	3rd Phase	0.05	New
Local Road	Lr_21	20	3rd Phase	0.01	New
Local Road	Lr_288	20	3rd Phase	0.01	New
Local Road	Lr_22	20	3rd Phase	0.01	New
Local Road	Lr_289	20	3rd Phase	0.01	New
Local Road	Lr_25	20	3rd Phase	0.41	New
Local Road	Lr_292	20	3rd Phase	0.41	New

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_26	20	3rd Phase	0.11	New
Local Road	Lr_293	20	3rd Phase	0.11	New
Local Road	Lr_62	20	3rd Phase	0.30	New
Local Road	Lr_329	20	3rd Phase	0.30	New
Local Road	Lr_101	20	3rd Phase	0.10	New
Local Road	Lr_368	20	3rd Phase	0.10	New
Local Road	Lr_102	20	3rd Phase	0.10	New
Local Road	Lr_369	20	3rd Phase	0.10	New
Local Road	Lr_103	20	3rd Phase	0.21	New
Local Road	Lr_370	20	3rd Phase	0.21	New
Secondary Road	Sr_23	30	2nd Phase	0.10	New
Secondary Road	Sr_78	30	2nd Phase	0.10	New
Secondary Road	Sr_28	30	2nd Phase	0.70	Widening
Secondary Road	Sr_32	40	2nd Phase	0.45	Widening
Secondary Road	Sr_34	30	2nd Phase	0.33	Widening
Secondary Road	Sr_40	30	2nd Phase	0.39	Widening
Secondary Road	Sr_52	30	2nd Phase	0.40	Widening
Secondary Road	Sr_53	30	2nd Phase	0.51	Widening
Secondary Road	Sr_54	30	2nd Phase	0.44	Widening
Secondary Road	Sr_38	60	1st Phase	0.60	Widening
Primary Road	Pr_12	80	1st Phase	0.00	New
Primary Road	Pr_3	80	1st Phase	0.00	Widening
Primary Road	Pr_3	80	1st Phase	1.68	Widening
Primary Road	Pr_9	80	1st Phase	0.61	Widening
Primary Road	Pr_9	80	1st Phase	0.00	Widening
Primary Road	Pr_8	100	1st Phase	0.63	Widening

Ward No. 05

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_161	20	3rd Phase	0.42	Widening
Local Road	Lr_162	20	3rd Phase	0.61	Widening
Local Road	Lr_181	20	3rd Phase	0.13	Widening
Local Road	Lr_182	20	3rd Phase	0.14	Widening
Local Road	Lr_191	20	3rd Phase	0.29	Widening
Local Road	Lr_199	20	3rd Phase	0.07	Widening
Local Road	Lr_214	20	3rd Phase	0.33	Widening
Local Road	Lr_215	20	3rd Phase	0.08	Widening
Local Road	Lr_216	20	3rd Phase	0.13	Widening
Local Road	Lr_243	20	3rd Phase	0.59	Widening
Local Road	Lr_244	20	3rd Phase	0.03	Widening
Local Road	Lr_245	20	3rd Phase	0.08	Widening

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_246	20	3rd Phase	0.01	Widening
Local Road	Lr_250	20	3rd Phase	0.42	Widening
Local Road	Lr_251	20	3rd Phase	0.41	Widening
Local Road	Lr_252	20	3rd Phase	0.14	Widening
Local Road	Lr_254	20	3rd Phase	0.25	Widening
Local Road	Lr_255	20	3rd Phase	0.16	Widening
Local Road	Lr_266	20	3rd Phase	0.17	Widening
Local Road	Lr_1	20	3rd Phase	0.27	New
Local Road	Lr_268	20	3rd Phase	0.27	New
Local Road	Lr_2	20	3rd Phase	0.53	New
Local Road	Lr_269	20	3rd Phase	0.53	New
Local Road	Lr_6	20	3rd Phase	0.21	New
Local Road	Lr_273	20	3rd Phase	0.21	New
Local Road	Lr_7	20	3rd Phase	0.14	New
Local Road	Lr_274	20	3rd Phase	0.14	New
Local Road	Lr_8	20	3rd Phase	0.23	New
Local Road	Lr_275	20	3rd Phase	0.23	New
Local Road	Lr_9	20	3rd Phase	0.09	New
Local Road	Lr_276	20	3rd Phase	0.09	New
Local Road	Lr_10	20	3rd Phase	0.23	New
Local Road	Lr_277	20	3rd Phase	0.23	New
Local Road	Lr_11	20	3rd Phase	0.49	New
Local Road	Lr_278	20	3rd Phase	0.49	New
Local Road	Lr_12	20	3rd Phase	0.22	New
Local Road	Lr_279	20	3rd Phase	0.22	New
Local Road	Lr_20	20	3rd Phase	0.08	New
Local Road	Lr_287	20	3rd Phase	0.08	New
Local Road	Lr_25	20	3rd Phase	0.00	New
Local Road	Lr_292	20	3rd Phase	0.00	New
Local Road	Lr_27	20	3rd Phase	0.61	New
Local Road	Lr_294	20	3rd Phase	0.61	New
Local Road	Lr_28	20	3rd Phase	0.27	New
Local Road	Lr_295	20	3rd Phase	0.27	New
Local Road	Lr_107	20	3rd Phase	0.17	New
Local Road	Lr_374	20	3rd Phase	0.17	New
Local Road	Lr_108	20	3rd Phase	0.10	New
Local Road	Lr_375	20	3rd Phase	0.10	New
Local Road	Lr_109	20	3rd Phase	0.32	New
Local Road	Lr_376	20	3rd Phase	0.32	New
Secondary Road	Sr_38	60	1st Phase	0.62	Widening

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Secondary Road	Sr_50	40	2nd Phase	0.60	Widening
Secondary Road	Sr_51	40	2nd Phase	0.61	Widening
Secondary Road	Sr_23	30	2nd Phase	0.01	New
Secondary Road	Sr_78	30	2nd Phase	0.01	New
Primary Road	Pr_8	100	1st Phase	0.61	Widening
Primary Road	Pr_7	80	1st Phase	0.22	Widening
Primary Road	Pr_9	80	1st Phase	0.61	Widening
Primary Road	Pr_10	80	1st Phase	0.05	Widening

Ward No. 06

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_122	20	3rd Phase	0.30	Widening
Local Road	Lr_123	20	3rd Phase	0.04	Widening
Local Road	Lr_167	20	3rd Phase	0.07	Widening
Local Road	Lr_176	20	3rd Phase	0.60	Widening
Local Road	Lr_180	20	3rd Phase	0.06	Widening
Local Road	Lr_185	20	3rd Phase	0.04	Widening
Local Road	Lr_193	20	3rd Phase	0.31	Widening
Local Road	Lr_200	20	3rd Phase	0.17	Widening
Local Road	Lr_201	20	3rd Phase	0.68	Widening
Local Road	Lr_202	20	3rd Phase	0.60	Widening
Local Road	Lr_203	20	3rd Phase	0.21	Widening
Local Road	Lr_207	20	3rd Phase	0.13	Widening
Local Road	Lr_211	20	3rd Phase	0.76	Widening
Local Road	Lr_212	20	3rd Phase	0.25	Widening
Local Road	Lr_213	20	3rd Phase	0.06	Widening
Local Road	Lr_3	20	3rd Phase	0.20	New
Local Road	Lr_270	20	3rd Phase	0.20	New
Local Road	Lr_4	20	3rd Phase	0.21	New
Local Road	Lr_271	20	3rd Phase	0.21	New
Local Road	Lr_5	20	3rd Phase	0.24	New
Local Road	Lr_272	20	3rd Phase	0.24	New
Local Road	Lr_39	20	3rd Phase	0.53	New
Local Road	Lr_306	20	3rd Phase	0.53	New
Local Road	Lr_40	20	3rd Phase	0.31	New
Local Road	Lr_307	20	3rd Phase	0.31	New
Local Road	Lr_104	20	3rd Phase	0.82	New
Local Road	Lr_371	20	3rd Phase	0.82	New
Local Road	Lr_105	20	3rd Phase	0.12	New
Local Road	Lr_372	20	3rd Phase	0.12	New
Secondary Road	Sr_7	40	2nd Phase	0.01	New



Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Secondary Road	Sr_62	40	2nd Phase	0.01	New
Secondary Road	Sr_7	40	2nd Phase	0.10	New
Secondary Road	Sr_62	40	2nd Phase	0.10	New
Secondary Road	Sr_35	40	2nd Phase	1.16	Widening
Secondary Road	Sr_37	40	2nd Phase	0.61	Widening
Secondary Road	Sr_41	40	2nd Phase	0.29	Widening
Secondary Road	Sr_41	40	2nd Phase	0.10	Widening
Secondary Road	Sr_6	60	1st Phase	0.06	New
Secondary Road	Sr_61	60	1st Phase	0.06	New
Secondary Road	Sr_38	60	1st Phase	0.61	Widening
Secondary Road	Sr_39	60	1st Phase	1.21	Widening
Primary Road	Pr_10	80	1st Phase	0.05	Widening
Primary Road	Pr_7	80	1st Phase	0.38	Widening
Primary Road	Pr_8	100	1st Phase	1.45	Widening

#### Ward No. 07

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_117	20	3rd Phase	0.45	Widening
Local Road	Lr_118	20	3rd Phase	0.15	Widening
Local Road	Lr_119	20	3rd Phase	0.33	Widening
Local Road	Lr_120	20	3rd Phase	0.41	Widening
Local Road	Lr_121	20	3rd Phase	0.10	Widening
Local Road	Lr_124	20	3rd Phase	0.05	Widening
Local Road	Lr_166	20	3rd Phase	0.10	Widening
Local Road	Lr_168	20	3rd Phase	0.19	Widening
Local Road	Lr_170	20	3rd Phase	0.19	Widening
Local Road	Lr_171	20	3rd Phase	0.07	Widening
Local Road	Lr_172	20	3rd Phase	0.08	Widening
Local Road	Lr_183	20	3rd Phase	0.15	Widening
Local Road	Lr_187	20	3rd Phase	0.29	Widening
Local Road	Lr_188	20	3rd Phase	0.44	Widening
Local Road	Lr_218	20	3rd Phase	0.22	Widening
Local Road	Lr_219	20	3rd Phase	0.23	Widening
Local Road	Lr_220	20	3rd Phase	0.29	Widening
Local Road	Lr_221	20	3rd Phase	0.14	Widening
Local Road	Lr_222	20	3rd Phase	0.08	Widening
Local Road	Lr_223	20	3rd Phase	0.29	Widening
Local Road	Lr_224	20	3rd Phase	0.20	Widening
Local Road	Lr_225	20	3rd Phase	0.20	Widening
Local Road	Lr_226	20	3rd Phase	0.10	Widening
Local Road	Lr_227	20	3rd Phase	0.21	Widening

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_228	20	3rd Phase	0.19	Widening
Local Road	Lr_229	20	3rd Phase	0.44	Widening
Local Road	Lr_230	20	3rd Phase	0.16	Widening
Local Road	Lr_231	20	3rd Phase	0.16	Widening
Local Road	Lr_233	20	3rd Phase	0.01	Widening
Local Road	Lr_234	20	3rd Phase	0.01	Widening
Local Road	Lr_267	20	3rd Phase	0.05	Widening
Local Road	Lr_15	20	3rd Phase	0.09	New
Local Road	Lr_282	20	3rd Phase	0.09	New
Local Road	Lr_24	20	3rd Phase	0.01	New
Local Road	Lr_291	20	3rd Phase	0.01	New
Local Road	Lr_35	20	3rd Phase	0.20	New
Local Road	Lr_302	20	3rd Phase	0.20	New
Local Road	Lr_36	20	3rd Phase	0.24	New
Local Road	Lr_303	20	3rd Phase	0.24	New
Local Road	Lr_37	20	3rd Phase	0.13	New
Local Road	Lr_304	20	3rd Phase	0.13	New
Local Road	Lr_41	20	3rd Phase	0.15	New
Local Road	Lr_308	20	3rd Phase	0.15	New
Local Road	Lr_56	20	3rd Phase	0.27	New
Local Road	Lr_323	20	3rd Phase	0.27	New
Local Road	Lr_57	20	3rd Phase	0.31	New
Local Road	Lr_324	20	3rd Phase	0.31	New
Local Road	Lr_58	20	3rd Phase	0.40	New
Local Road	Lr_325	20	3rd Phase	0.40	New
Local Road	Lr_59	20	3rd Phase	0.40	New
Local Road	Lr_326	20	3rd Phase	0.40	New
Local Road	Lr_60	20	3rd Phase	0.30	New
Local Road	Lr_327	20	3rd Phase	0.30	New
Local Road	Lr_61	20	3rd Phase	0.25	New
Local Road	Lr_328	20	3rd Phase	0.25	New
Local Road	Lr_76	20	3rd Phase	0.01	New
Local Road	Lr_343	20	3rd Phase	0.01	New
Local Road	Lr_106	20	3rd Phase	0.31	New
Local Road	Lr_373	20	3rd Phase	0.31	New
Local Road	Lr_110	20	3rd Phase	0.32	New
Local Road	Lr_377	20	3rd Phase	0.32	New
Local Road	Lr_111	20	3rd Phase	0.14	New
Local Road	Lr_378	20	3rd Phase	0.14	New
Local Road	Lr_112	20	3rd Phase	0.12	New

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_379	20	3rd Phase	0.12	New
Local Road	Lr_113	20	3rd Phase	0.08	New
Local Road	Lr_380	20	3rd Phase	0.08	New
Secondary Road	Sr_6	60	1st Phase	0.80	New
Secondary Road	Sr_61	60	1st Phase	0.80	New
Secondary Road	Sr_16	60	1st Phase	0.01	New
Secondary Road	Sr_71	60	1st Phase	0.01	New
Secondary Road	Sr_45	60	1st Phase	1.65	Widening
Secondary Road	Sr_2	40	2nd Phase	0.02	New
Secondary Road	Sr_57	40	2nd Phase	0.02	New
Secondary Road	Sr_7	40	2nd Phase	0.01	New
Secondary Road	Sr_62	40	2nd Phase	0.01	New
Secondary Road	Sr_7	40	2nd Phase	0.10	New
Secondary Road	Sr_62	40	2nd Phase	0.10	New
Secondary Road	Sr_32	40	2nd Phase	0.32	Widening
Secondary Road	Sr_41	40	2nd Phase	0.64	Widening
Secondary Road	Sr_42	40	2nd Phase	0.91	Widening
Secondary Road	Sr_44	40	2nd Phase	0.01	Widening
Secondary Road	Sr_55	40	2nd Phase	0.42	Widening
Secondary Road	Sr_41	40	2nd Phase	0.10	Widening
Secondary Road	Sr_8	30	2nd Phase	0.78	New
Secondary Road	Sr_63	30	2nd Phase	0.78	New
Secondary Road	Sr_46	30	2nd Phase	0.58	Widening
Secondary Road	Sr_47	30	2nd Phase	0.41	Widening
Primary Road	Pr_4	80	1st Phase	0.39	Widening
Primary Road	Pr_6	80	1st Phase	0.28	Widening
Primary Road	Pr_10	80	1st Phase	0.30	Widening
Primary Road	Pr_11	80	1st Phase	1.73	Widening
Primary Road	Pr_2	80	1st Phase	0.21	New
Primary Road	Pr_13	80	1st Phase	0.21	New

Ward No. 08

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_160	20	3rd Phase	0.08	Widening
Local Road	Lr_169	20	3rd Phase	0.02	Widening
Local Road	Lr_184	20	3rd Phase	0.09	Widening
Local Road	Lr_186	20	3rd Phase	0.07	Widening
Local Road	Lr_195	20	3rd Phase	0.25	Widening
Local Road	Lr_233	20	3rd Phase	0.64	Widening
Local Road	Lr_234	20	3rd Phase	0.73	Widening
Local Road	Lr_235	20	3rd Phase	0.11	Widening

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Local Road	Lr_236	20	3rd Phase	0.13	Widening
Local Road	Lr_23	20	3rd Phase	0.18	New
Local Road	Lr_290	20	3rd Phase	0.18	New
Local Road	Lr_24	20	3rd Phase	0.10	New
Local Road	Lr_291	20	3rd Phase	0.10	New
Local Road	Lr_31	20	3rd Phase	0.40	New
Local Road	Lr_298	20	3rd Phase	0.40	New
Local Road	Lr_32	20	3rd Phase	0.37	New
Local Road	Lr_299	20	3rd Phase	0.37	New
Local Road	Lr_33	20	3rd Phase	0.33	New
Local Road	Lr_300	20	3rd Phase	0.33	New
Local Road	Lr_34	20	3rd Phase	0.32	New
Local Road	Lr_301	20	3rd Phase	0.32	New
Local Road	Lr_74	20	3rd Phase	0.89	New
Local Road	Lr_341	20	3rd Phase	0.89	New
Local Road	Lr_75	20	3rd Phase	0.43	New
Local Road	Lr_342	20	3rd Phase	0.43	New
Local Road	Lr_76	20	3rd Phase	0.81	New
Local Road	Lr_343	20	3rd Phase	0.81	New
Local Road	Lr_77	20	3rd Phase	0.16	New
Local Road	Lr_344	20	3rd Phase	0.16	New
Local Road	Lr_114	20	3rd Phase	0.20	New
Local Road	Lr_381	20	3rd Phase	0.20	New
Secondary Road	Sr_30	40	2nd Phase	0.30	Widening
Secondary Road	Sr_32	40	2nd Phase	0.01	Widening
Secondary Road	Sr_33	40	2nd Phase	0.01	Widening
Secondary Road	Sr_40	30	2nd Phase	0.02	Widening
Secondary Road	Sr_44	40	2nd Phase	0.83	Widening
Secondary Road	Sr_47	30	2nd Phase	0.81	Widening
Secondary Road	Sr_48	60	1st Phase	2.78	Widening
Secondary Road	Sr_3	40	2nd Phase	0.16	New
Secondary Road	Sr_58	40	2nd Phase	0.16	New
Secondary Road	Sr_5	60	1st Phase	0.07	New
Secondary Road	Sr_60	60	1st Phase	0.07	New
Secondary Road	Sr_16	60	1st Phase	0.99	New
Secondary Road	Sr_71	60	1st Phase	0.99	New
Primary Road	Pr_5	80	1st Phase	0.19	Widening
Primary Road	Pr_11	80	1st Phase	0.23	Widening
Primary Road	Pr_1	80	1st Phase	0.27	New
Primary Road	Pr_12	80	1st Phase	0.27	New

Ward No. 09

Type	Proposed ID	Width in ft	Phase	Length in km	Remarks
Secondary Road	Sr_43	60	1st Phase	1.00	Widening
Secondary Road	Sr_10	60	1st Phase	1.27	New
Secondary Road	Sr_65	60	1st Phase	1.27	New
Secondary Road	Sr_16	60	1st Phase	2.13	New
Secondary Road	Sr_71	60	1st Phase	2.13	New
Secondary Road	Sr_33	40	2nd Phase	0.04	Widening
Secondary Road	Sr_12	40	2nd Phase	0.80	New
Secondary Road	Sr_67	40	2nd Phase	0.80	New
Secondary Road	Sr_15	40	2nd Phase	0.61	New
Secondary Road	Sr_70	40	2nd Phase	0.61	New
Secondary Road	Sr_22	40	2nd Phase	1.13	New
Secondary Road	Sr_77	40	2nd Phase	1.13	New
Secondary Road	Sr_11	30	2nd Phase	0.63	New
Secondary Road	Sr_66	30	2nd Phase	0.63	New
Secondary Road	Sr_25	30	2nd Phase	1.30	New
Secondary Road	Sr_80	30	2nd Phase	1.30	New

## Phase wise Drainage Network Development proposal of Charfasson Paurashava

## Ward No.01

Proposed Hierarchy	ID	Length(m)	Phasing	Proposed Width
Secondary Drain	S_11	116.20	First Phase	1 to 3 meter
Secondary Drain	S_12	3262.80	First Phase	1 to 3 meter
Secondary Drain	S_8	1477.28	Second Phase	1 to 3 meter
Secondary Drain	S_24	591.55	Second Phase	1 to 3 meter
Secondary Drain	S_30	14.24	Second Phase	1 to 3 meter
Tertiary Drain	T_6	880.68	Third Phase	up to 1 meter
Tertiary Drain	T_15	589.25	Third Phase	up to 1 meter
Tertiary Drain	T_16	294.41	Third Phase	up to 1 meter
Tertiary Drain	T_17	294.48	Third Phase	up to 1 meter
Tertiary Drain	T_18	883.49	Third Phase	up to 1 meter
Tertiary Drain	T_26	478.99	Third Phase	up to 1 meter
Tertiary Drain	T_58	217.42	Third Phase	up to 1 meter
Tertiary Drain	T_59	217.46	Third Phase	up to 1 meter
Tertiary Drain	T_60	216.41	Third Phase	up to 1 meter
Tertiary Drain	T_61	610.69	Third Phase	up to 1 meter
Tertiary Drain	T_62	293.50	Third Phase	up to 1 meter
Tertiary Drain	T_63	353.50	Third Phase	up to 1 meter
Tertiary Drain	T_64	264.75	Third Phase	up to 1 meter
Tertiary Drain	T_80	4.69	Third Phase	up to 1 meter
Tertiary Drain	T_81	161.15	Third Phase	up to 1 meter
Tertiary Drain	T_89	456.33	Third Phase	up to 1 meter
Tertiary Drain	T_161	115.47	Third Phase	up to 1 meter
Tertiary Drain	T_162	327.51	Third Phase	up to 1 meter
Tertiary Drain	T_163	258.54	Third Phase	up to 1 meter
Tertiary Drain	T_164	169.21	Third Phase	up to 1 meter
Tertiary Drain	T_165	345.95	Third Phase	up to 1 meter
Tertiary Drain	T_167	444.90	Third Phase	up to 1 meter
Tertiary Drain	T_168	149.44	Third Phase	up to 1 meter
Tertiary Drain	T_169	196.90	Third Phase	up to 1 meter
Tertiary Drain	T_170	330.91	Third Phase	up to 1 meter
Tertiary Drain	T_171	415.79	Third Phase	up to 1 meter
Tertiary Drain	T_172	686.82	Third Phase	up to 1 meter
Tertiary Drain	T_173	417.29	Third Phase	up to 1 meter
Tertiary Drain	T_175	272.32	Third Phase	up to 1 meter

## Ward No.02

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Tertiary Drain	T_7	1450.12	Third Phase	up to 1 meter
Tertiary Drain	T_8	1367.75	Third Phase	up to 1 meter
Tertiary Drain	T_27	510.26	Third Phase	up to 1 meter

## Phase wise Drainage Network Development proposal of Charfasson Paurashava

## Ward No.03

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Width (ft)
Secondary Drain	S_3	12.95	First Phase	1 to 3 meter
Secondary Drain	S_9	608.24	Second Phase	1 to 3 meter
Secondary Drain	S_11	1450.61	First Phase	1 to 3 meter
Secondary Drain	S_18	539.58	Second Phase	1 to 3 meter
Secondary Drain	S_19	520.86	Second Phase	1 to 3 meter
Secondary Drain	S_25	242.60	First Phase	1 to 3 meter
Secondary Drain	S_31	220.87	First Phase	1 to 3 meter
Tertiary Drain	T_19	472.57	Third Phase	up to 1 meter
Tertiary Drain	T_20	373.03	Third Phase	up to 1 meter
Tertiary Drain	T_65	744.81	Third Phase	up to 1 meter
Tertiary Drain	T_66	235.96	Third Phase	up to 1 meter
Tertiary Drain	T_67	236.40	Third Phase	up to 1 meter
Tertiary Drain	T_68	201.54	Third Phase	up to 1 meter
Tertiary Drain	T_69	609.85	Third Phase	up to 1 meter
Tertiary Drain	T_70	165.26	Third Phase	up to 1 meter
Tertiary Drain	T_71	195.48	Third Phase	up to 1 meter
Tertiary Drain	T_72	108.18	Third Phase	up to 1 meter
Tertiary Drain	T_73	369.56	Third Phase	up to 1 meter
Tertiary Drain	T_74	278.12	Third Phase	up to 1 meter
Tertiary Drain	T_75	359.33	Third Phase	up to 1 meter
Tertiary Drain	T_76	373.78	Third Phase	up to 1 meter
Tertiary Drain	T_77	217.63	Third Phase	up to 1 meter
Tertiary Drain	T_78	180.67	Third Phase	up to 1 meter
Tertiary Drain	T_79	197.49	Third Phase	up to 1 meter
Tertiary Drain	T_80	362.52	Third Phase	up to 1 meter
Tertiary Drain	T_166	173.65	Third Phase	up to 1 meter

## Ward No.04

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_3	666.07	First Phase	1 to 3 meter
Secondary Drain	S_6	431.08	Second Phase	1 to 3 meter
Secondary Drain	S_14	316.39	Second Phase	1 to 3 meter
Secondary Drain	S_25	251.05	First Phase	1 to 3 meter
Secondary Drain	S_26	569.90	First Phase	1 to 3 meter
Secondary Drain	S_27	511.10	First Phase	1 to 3 meter
Secondary Drain	S_28	1155.61	First Phase	1 to 3 meter
Secondary Drain	S_29	64.62	First Phase	1 to 3 meter
Secondary Drain	S_30	917.21	Second Phase	1 to 3 meter
Secondary Drain	S_33	89.28	First Phase	1 to 3 meter
Tertiary Drain	T_1	1131.04	Third Phase	up to 1 meter
Tertiary Drain	T_2	898.37	Third Phase	up to 1 meter

## Phase wise Drainage Network Development proposal of Charfasson Paurashava

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Tertiary Drain	T_3	84.51	Third Phase	up to 1 meter
Tertiary Drain	T_4	468.13	Third Phase	up to 1 meter
Tertiary Drain	T_5	869.97	Third Phase	up to 1 meter
Tertiary Drain	T_54	213.83	Third Phase	up to 1 meter
Tertiary Drain	T_55	285.43	Third Phase	up to 1 meter
Tertiary Drain	T_56	101.40	Third Phase	up to 1 meter
Tertiary Drain	T_57	357.59	Third Phase	up to 1 meter
Tertiary Drain	T_86	693.65	Third Phase	up to 1 meter
Tertiary Drain	T_87	265.06	Third Phase	up to 1 meter
Tertiary Drain	T_88	330.38	Third Phase	up to 1 meter
Tertiary Drain	T_153	103.54	Third Phase	up to 1 meter
Tertiary Drain	T_154	238.93	Third Phase	up to 1 meter
Tertiary Drain	T_155	97.98	Third Phase	up to 1 meter
Tertiary Drain	T_156	193.11	Third Phase	up to 1 meter
Tertiary Drain	T_157	488.18	Third Phase	up to 1 meter
Tertiary Drain	T_158	386.69	Third Phase	up to 1 meter
Tertiary Drain	T_159	222.56	Third Phase	up to 1 meter
Tertiary Drain	T_160	36.43	Third Phase	up to 1 meter

## Ward No.05

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_2	1160.49	First Phase	1 to 3 meter
Secondary Drain	S_4	573.27	Second Phase	1 to 3 meter
Secondary Drain	S_21	592.32	Second Phase	1 to 3 meter
Secondary Drain	S_22	110.40	Second Phase	1 to 3 meter
Secondary Drain	S_29	672.27	First Phase	1 to 3 meter
Secondary Drain	S_32	613.84	First Phase	1 to 3 meter
Secondary Drain	S_33	608.67	First Phase	1 to 3 meter
Tertiary Drain	T_21	350.36	Third Phase	up to 1 meter
Tertiary Drain	T_22	188.04	Third Phase	up to 1 meter
Tertiary Drain	T_23	351.46	Third Phase	up to 1 meter
Tertiary Drain	T_25	146.79	Third Phase	up to 1 meter
Tertiary Drain	T_33	151.02	Third Phase	up to 1 meter
Tertiary Drain	T_34	452.88	Third Phase	up to 1 meter
Tertiary Drain	T_35	325.58	Third Phase	up to 1 meter
Tertiary Drain	T_36	244.98	Third Phase	up to 1 meter
Tertiary Drain	T_37	263.06	Third Phase	up to 1 meter
Tertiary Drain	T_38	90.16	Third Phase	up to 1 meter
Tertiary Drain	T_39	100.11	Third Phase	up to 1 meter
Tertiary Drain	T_40	250.50	Third Phase	up to 1 meter
Tertiary Drain	T_41	106.21	Third Phase	up to 1 meter
Tertiary Drain	T_42	81.85	Third Phase	up to 1 meter



## Phase wise Drainage Network Development proposal of Charfasson Paurashava

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Tertiary Drain	T_43	276.46	Third Phase	up to 1 meter
Tertiary Drain	T_44	135.98	Third Phase	up to 1 meter
Tertiary Drain	T_45	136.76	Third Phase	up to 1 meter
Tertiary Drain	T_46	132.39	Third Phase	up to 1 meter
Tertiary Drain	T_47	134.76	Third Phase	up to 1 meter
Tertiary Drain	T_48	0.72	Third Phase	up to 1 meter
Tertiary Drain	T_49	226.93	Third Phase	up to 1 meter
Tertiary Drain	T_50	323.38	Third Phase	up to 1 meter
Tertiary Drain	T_51	522.36	Third Phase	up to 1 meter
Tertiary Drain	T_84	416.33	Third Phase	up to 1 meter
Tertiary Drain	T_85	603.42	Third Phase	up to 1 meter
Tertiary Drain	T_97	2.33	Third Phase	up to 1 meter
Tertiary Drain	T_102	410.91	Third Phase	up to 1 meter
Tertiary Drain	T_103	385.49	Third Phase	up to 1 meter
Tertiary Drain	T_104	135.55	Third Phase	up to 1 meter
Tertiary Drain	T_105	304.71	Third Phase	up to 1 meter
Tertiary Drain	T_106	757.02	Third Phase	up to 1 meter
Tertiary Drain	T_107	505.96	Third Phase	up to 1 meter
Tertiary Drain	T_108	365.29	Third Phase	up to 1 meter
Tertiary Drain	T_109	235.03	Third Phase	up to 1 meter
Tertiary Drain	T_110	292.42	Third Phase	up to 1 meter
Tertiary Drain	T_111	467.55	Third Phase	up to 1 meter
Tertiary Drain	T_112	271.58	Third Phase	up to 1 meter
Tertiary Drain	T_113	325.41	Third Phase	up to 1 meter
Tertiary Drain	T_114	335.66	Third Phase	up to 1 meter
Tertiary Drain	T_115	635.88	Third Phase	up to 1 meter
Tertiary Drain	T_116	367.08	Third Phase	up to 1 meter
Tertiary Drain	T_117	351.32	Third Phase	up to 1 meter

## Ward No.06

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_32	904.11	First Phase	1 to 3 meter
Secondary Drain	S_33	6.87	First Phase	1 to 3 meter
Secondary Drain	S_36	735.67	Second Phase	1 to 3 meter
Secondary Drain	S_37	595.13	Second Phase	1 to 3 meter
Secondary Drain	S_38	595.23	Second Phase	1 to 3 meter
Tertiary Drain	T_90	390.92	Third Phase	up to 1 meter
Tertiary Drain	T_91	533.49	Third Phase	up to 1 meter
Tertiary Drain	T_92	387.17	Third Phase	up to 1 meter
Tertiary Drain	T_93	616.71	Third Phase	up to 1 meter
Tertiary Drain	T_94	300.55	Third Phase	up to 1 meter
Tertiary Drain	T_95	240.80	Third Phase	up to 1 meter
Tertiary Drain	T_96	292.84	Third Phase	up to 1 meter
Tertiary Drain	T_97	226.82	Third Phase	up to 1 meter
Tertiary Drain	T_98	105.09	Third Phase	up to 1 meter

## Phase wise Drainage Network Development proposal of Charfasson Paurashava

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Tertiary Drain	T_99	640.97	Third Phase	up to 1 meter
Tertiary Drain	T_100	105.06	Third Phase	up to 1 meter
Tertiary Drain	T_101	232.97	Third Phase	up to 1 meter

## Ward No.07

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_1	128.04	Second Phase	1 to 3 meter
Secondary Drain	S_5	299.35	Second Phase	1 to 3 meter
Secondary Drain	S_7	683.02	Second Phase	1 to 3 meter
Secondary Drain	S_13	595.89	Second Phase	1 to 3 meter
Secondary Drain	S_15	1486.27	First Phase	1 to 3 meter
Secondary Drain	S_16	227.58	Second Phase	1 to 3 meter
Secondary Drain	S_17	849.14	Second Phase	1 to 3 meter
Secondary Drain	S_23	3208.74	Second Phase	1 to 3 meter
Secondary Drain	S_34	22.20	First Phase	1 to 3 meter
Secondary Drain	S_35	771.61	Second Phase	1 to 3 meter
Tertiary Drain	T_9	767.14	Third Phase	up to 1 meter
Tertiary Drain	T_10	767.08	Third Phase	up to 1 meter
Tertiary Drain	T_11	564.13	Third Phase	up to 1 meter
Tertiary Drain	T_12	557.73	Third Phase	up to 1 meter
Tertiary Drain	T_13	375.67	Third Phase	up to 1 meter
Tertiary Drain	T_14	373.40	Third Phase	up to 1 meter
Tertiary Drain	T_24	695.09	Third Phase	up to 1 meter
Tertiary Drain	T_28	147.64	Third Phase	up to 1 meter
Tertiary Drain	T_29	147.69	Third Phase	up to 1 meter
Tertiary Drain	T_30	184.33	Third Phase	up to 1 meter
Tertiary Drain	T_31	231.01	Third Phase	up to 1 meter
Tertiary Drain	T_32	129.98	Third Phase	up to 1 meter
Tertiary Drain	T_52	134.23	Third Phase	up to 1 meter
Tertiary Drain	T_82	475.59	Third Phase	up to 1 meter
Tertiary Drain	T_83	458.04	Third Phase	up to 1 meter
Tertiary Drain	T_118	46.08	Third Phase	up to 1 meter
Tertiary Drain	T_119	313.85	Third Phase	up to 1 meter
Tertiary Drain	T_120	295.44	Third Phase	up to 1 meter
Tertiary Drain	T_121	303.63	Third Phase	up to 1 meter
Tertiary Drain	T_122	611.04	Third Phase	up to 1 meter
Tertiary Drain	T_123	403.36	Third Phase	up to 1 meter
Tertiary Drain	T_124	702.55	Third Phase	up to 1 meter
Tertiary Drain	T_125	733.48	Third Phase	up to 1 meter
Tertiary Drain	T_126	271.68	Third Phase	up to 1 meter
Tertiary Drain	T_127	533.99	Third Phase	up to 1 meter
Tertiary Drain	T_128	476.52	Third Phase	up to 1 meter
Tertiary Drain	T_129	459.62	Third Phase	up to 1 meter
Tertiary Drain	T_130	464.51	Third Phase	up to 1 meter
Tertiary Drain	T_131	330.70	Third Phase	up to 1 meter
Tertiary Drain	T_132	427.57	Third Phase	up to 1 meter
Tertiary Drain	T_133	125.69	Third Phase	up to 1 meter
Tertiary Drain	T_134	312.14	Third Phase	up to 1 meter
Tertiary Drain	T_135	437.31	Third Phase	up to 1 meter
Tertiary Drain	T_136	296.54	Third Phase	up to 1 meter
Tertiary Drain	T_137	42.10	Third Phase	up to 1 meter
Tertiary Drain	T_138	621.10	Third Phase	up to 1 meter

## Phase wise Drainage Network Development proposal of Charfasson Paurashava

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Tertiary Drain	T_139	317.23	Third Phase	up to 1 meter
Tertiary Drain	T_140	235.49	Third Phase	up to 1 meter
Tertiary Drain	T_141	623.18	Third Phase	up to 1 meter
Tertiary Drain	T_142	116.88	Third Phase	up to 1 meter
Tertiary Drain	T_143	190.53	Third Phase	up to 1 meter
Tertiary Drain	T_144	550.68	Third Phase	up to 1 meter
Tertiary Drain	T_146	5.02	Third Phase	up to 1 meter
Tertiary Drain	T_147	3.52	Third Phase	up to 1 meter
Tertiary Drain	T_150	1.56	Third Phase	up to 1 meter
Tertiary Drain	T_174	1596.00	Third Phase	up to 1 meter

## Ward No.08

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_5	444.86	Second Phase	1 to 3 meter
Secondary Drain	S_15	621.89	First Phase	1 to 3 meter
Secondary Drain	S_25	1.30	First Phase	1 to 3 meter
Secondary Drain	S_34	431.50	First Phase	1 to 3 meter
Tertiary Drain	T_53	124.94	Third Phase	up to 1 meter
Tertiary Drain	T_145	660.22	Third Phase	up to 1 meter
Tertiary Drain	T_146	506.21	Third Phase	up to 1 meter
Tertiary Drain	T_147	189.54	Third Phase	up to 1 meter
Tertiary Drain	T_148	405.32	Third Phase	up to 1 meter
Tertiary Drain	T_149	386.87	Third Phase	up to 1 meter
Tertiary Drain	T_150	713.37	Third Phase	up to 1 meter
Tertiary Drain	T_151	832.51	Third Phase	up to 1 meter
Tertiary Drain	T_152	384.98	Third Phase	up to 1 meter

## Ward No.09

Proposed Hierarchy	Drain ID	Proposed Length(m)	Phasing	Proposed Width (ft)
Secondary Drain	S_10	1466.65	Second Phase	1 to 3 meter
Secondary Drain	S_20	1494.65	Second Phase	1 to 3 meter

**Table G: Planning Schedule of Waterbodies in Char Fasson Paurashava**

Name	Type	Plot No	Mouza	JI No	Sheet No	Ward No.	Area (Acre)
Boalkhali Khal	Canal	10	Uttar Char Madras	085	01	Ward 08	0.93
Boalkhali Khal	Canal	35	Uttar Char Madras	085	01	Ward 08	0.25
	Canal	35	Daksin Char Fasson	061	02	Ward 02	0.28
Boalkhali Khal	Canal	36	Uttar Char Madras	085	01	Ward 08	0.35
	Canal	41	Daksin Char Fasson	061	02	Ward 02	0.63
	Canal	43	Daksin Char Fasson	061	02	Ward 02	0.20
Boalkhali Khal	Canal	46	Uttar Char Madras	085	01	Ward 08	0.52
	Canal	47	Daksin Char Fasson	061	02	Ward 02	0.47
Boalkhali Khal	Canal	48	Uttar Char Madras	085	01	Ward 08	0.42
Boalkhali Khal	Canal	51	Uttar Char Madras	085	01	Ward 08	0.33
	Canal	51	Daksin Char Fasson	061	02	Ward 02	0.28
Boalkhali Khal	Canal	53	Uttar Char Madras	085	01	Ward 08	0.23
Boalkhali Khal	Canal	54	Uttar Char Madras	085	01	Ward 08	0.38
	Canal	70	Uttar Char Madras	085	01	Ward 08	0.36
Eastern Para Khal	Canal	120	Daksin Char Fasson	061	02	Ward 02	0.26
	Canal	139	Uttar Char Madras	085	01	Ward 08	0.62
	Canal	168	Uttar Char Madras	085	01	Ward 08	0.18
	Canal	176	Uttar Char Madras	085	01	Ward 08	0.42
	Canal	176	Uttar Char Madras	085	01	Ward 08	0.22
	Canal	195	Uttar Char Madras	085	01	Ward 08	0.46
	Canal	196	Uttar Char Madras	085	01	Ward 08	0.17
	Canal	207	Uttar Char Madras	085	01	Ward 08	0.18
	Canal	213	Uttar Char Madras	085	01	Ward 08	0.33
Eastern Para Khal	Canal	222	Dakshin Char Fasson	061	02	Ward 03	0.22
Mandar Toli Khal	Canal	266	Jinnahgarh	084	01	Ward 04	0.32
Mandar Toli Khal	Canal	269	Jinnahgarh	084	01	Ward 04	0.16
	Canal	315	Jinnahgarh	084	01	Ward 04	0.22
	Canal	315	Jinnahgarh	084	01	Ward 04	0.23
	Canal	319	Uttar Char Madras	085	01	Ward 07	0.26
Mandar Toli Khal	Canal	328	Jinnahgarh	084	01	Ward 04	0.49
Eastern Para Khal	Canal	331	Dakshin Char Fasson	061	02	Ward 03	0.21
Mandar Toli Khal	Canal	332	Jinnahgarh	084	01	Ward 04	0.50
Eastern Para Khal	Canal	333	Daksin Char Fasson	061	06	Ward 03	0.54
	Canal	347	Jinnahgarh	084	01	Ward 05	0.16
	Canal	349	Jinnahgarh	084	01	Ward 05	0.24
Mandar Toli Khal	Canal	371	Uttar Char Madras	085	01	Ward 07	0.82
	Canal	372	Jinnahgarh	084	01	Ward 01	0.17
	Canal	379	Uttar Char Madras	085	01	Ward 07	0.16
	Canal	417	Uttar Char Madras	085	01	Ward 07	0.19
Eastern Para Khal	Canal	454	Dakshin Char Fasson	061	02	Ward 03	0.45
	Canal	454	Uttar Char Madras	085	01	Ward 07	0.24
Eastern Para Khal	Canal	455	Dakshin Char Fasson	061	02	Ward 03	0.48

Name	Type	Plot No	Mouza	JI No	Sheet No	Ward No.	Area (Acre)
Eastern Para Khal	Canal	456	Dakshin Char Fasson	061	02	Ward 03	0.36
Eastern Para Khal	Canal	466	Dakshin Char Fasson	061	02	Ward 03	0.59
Eastern Para Khal	Canal	469	Dakshin Char Fasson	061	02	Ward 03	0.28
	Canal	601	Daksin Char Fasson	061	03	Ward 02	2.84
	Canal	622	Daksin Char Fasson	061	03	Ward 02	0.70
	Canal	629	Daksin Char Fasson	061	03	Ward 02	0.43
	Canal	649	Uttar Char Madras	085	01	Ward 08	2.85
	Canal	653	Uttar Char Madras	085	01	Ward 07	0.17
	Canal	685	Daksin Char Fasson	061	03	Ward 02	0.15
	Canal	687	Daksin Char Fasson	061	03	Ward 02	0.21
	Canal	699	Daksin Char Fasson	061	03	Ward 02	0.17
	Canal	705	Daksin Char Fasson	061	03	Ward 02	0.34
	Canal	706	Daksin Char Fasson	061	03	Ward 02	0.35
	Canal	708	Daksin Char Fasson	061	03	Ward 02	0.21
	Canal	709	Daksin Char Fasson	061	03	Ward 02	0.48
	Canal	710	Daksin Char Fasson	061	03	Ward 02	0.16
	Canal	716	Daksin Char Fasson	061	03	Ward 02	0.23
	Canal	717	Daksin Char Fasson	061	03	Ward 02	0.49
	Canal	744	Daksin Char Fasson	061	03	Ward 02	0.32
	Canal	745	Daksin Char Fasson	061	03	Ward 02	0.17
	Canal	757	Daksin Char Fasson	061	03	Ward 02	0.27
	Canal	762	Daksin Char Fasson	061	03	Ward 02	1.51
	Canal	767	Daksin Char Fasson	061	03	Ward 02	0.58
	Canal	799	Daksin Char Fasson	061	03	Ward 02	0.29
	Canal	804	Daksin Char Fasson	061	03	Ward 02	0.34
	Canal	825	Daksin Char Fasson	061	03	Ward 02	0.26
	Canal	829	Daksin Char Fasson	061	03	Ward 02	0.48
	Canal	851	Daksin Char Fasson	061	03	Ward 02	0.33
	Canal	857	Daksin Char Fasson	061	03	Ward 02	0.16
Eastern Para Khal	Canal	874	Daksin Char Fasson	061	03	Ward 09	0.58
Eastern Para Khal	Canal	875	Daksin Char Fasson	061	03	Ward 02	0.17
	Canal	950	Uttar Char Madras	085	02	Ward 06	5.78
Mandar Toli Khal	Canal	950	Uttar Char Madras	085	02	Ward 06	1.62
	Canal	950	Uttar Char Madras	085	02	Ward 06	1.62
	Canal	967	Daksin Char Fasson	061	03	Ward 02	0.26
	Canal	975	Daksin Char Fasson	061	03	Ward 02	0.23
	Canal	978	Daksin Char Fasson	061	03	Ward 02	0.15
	Canal	989	Daksin Char Fasson	061	03	Ward 02	0.78
	Canal	994	Daksin Char Fasson	061	03	Ward 02	0.54
Mandar Toli Khal	Canal	1013	Jinnahgarh	084	02(1st	Ward 04	0.33
Eastern Para Khal	Canal	1014	Daksin Char Fasson	061	03	Ward 02	0.99
Eastern Para Khal	Canal	1090	Daksin Char Fasson	061	03	Ward 09	0.91
Mukharbanda Khal	Canal	1118	Kulsumbag	083	02	Ward 01	0.71

Name	Type	Plot No	Mouza	JI No	Sheet No	Ward No.	Area (Acre)
	Canal	1118	Kulsumbag	083	02	Ward 01	0.71
Mukharbanda Khal	Canal	1130	Kulsumbag	083	02	Ward 01	0.21
Mukharbanda Khal	Canal	1138	Kulsumbag	083	02	Ward 01	0.16
Eastern Para Khal	Canal	1150	Daksin Char Fasson	061	03	Ward 09	2.08
	Canal	1158	Daksin Char Fasson	061	03	Ward 02	0.15
	Canal	1161	Kulsumbag	083	02	Ward 01	0.34
Eastern Para Khal	Canal	1179	Kulsumbag	083	02	Ward 01	0.60
Mukharbanda Khal	Canal	1179	Kulsumbag	083	02	Ward 01	0.60
Eastern Para Khal	Canal	1234	Kulsumbag	083	02	Ward 01	0.74
	Canal	1248	Halimabag	82	00	Ward 01	0.17
Eastern Para Khal	Canal	1255	Kulsumbag	083	02	Ward 01	0.35
Mukharbanda Khal	Canal	1255	Kulsumbag	083	02	Ward 01	0.35
	Canal	1256	Halimabag	82	00	Ward 01	0.20
	Canal	1258	Jinnahgarh	084	02(1st	Ward 04	0.19
Eastern Para Khal	Canal	1275	Kulsumbag	083	02	Ward 01	0.50
Mukharbanda Khal	Canal	1275	Kulsumbag	083	02	Ward 01	0.50
Eastern Para Khal	Canal	1276	Kulsumbag	083	02	Ward 01	0.21
Mukharbanda Khal	Canal	1276	Kulsumbag	083	02	Ward 01	0.21
	Canal	1286	Halimabag	82	00	Ward 01	0.37
	Canal	1300	Daksin Char Fasson	061	03	Ward 02	3.34
Eastern Para Khal	Canal	1309	Jinnahgarh	084	02(1st	Ward 04	1.09
	Canal	1317	Halimabag	82	00	Ward 01	0.21
	Canal	1323	Daksin Char Fasson	061	03	Ward 02	0.30
	Canal	1326	Kulsumbag	083	02	Ward 01	0.65
	Canal	1328	Kulsumbag	083	02	Ward 01	0.15
	Canal	1329	Kulsumbag	083	02	Ward 01	0.19
	Canal	1330	Halimabag	82	00	Ward 01	0.86
	Canal	1332	Daksin Char Fasson	061	03	Ward 02	0.28
	Canal	1335	Kulsumbag	083	02	Ward 01	0.16
Mandar Toli Khal	Canal	1343	Jinnahgarh	084	02(1st	Ward 04	0.65
Mandar Toli Khal	Canal	1344	Jinnahgarh	084	02(1st	Ward 04	0.29
	Canal	1352	Jinnahgarh	084	02(1st	Ward 05	0.49
	Canal	1356	Jinnahgarh	084	02(1st	Ward 05	0.37
	Canal	1377	Halimabag	82	00	Ward 01	0.18
	Canal	1386	Halimabag	82	00	Ward 01	0.16
	Canal	1394	Halimabag	82	00	Ward 01	0.22
	Canal	1395	Halimabag	82	00	Ward 01	0.16
Eastern Para Khal	Canal	1401	Khadejabag	62	00	Ward 09	2.07
Mandar Toli Khal	Canal	1407	Jinnahgarh	084	02(1st	Ward 05	0.62
	Canal	1418	Halimabag	82	00	Ward 01	0.41
Moniar Khal	Canal	1421				Ward 06	0.19
	Canal	1422	Halimabag	82	00	Ward 01	0.34
	Canal	1423	Halimabag	82	00	Ward 01	0.74

Name	Type	Plot No	Mouza	JI No	Sheet No	Ward No.	Area (Acre)
Eastern Para Khal	Canal	1425	Khadejabag	62	00	Ward 09	1.04
	Canal	1432	Halimabag	82	00	Ward 01	0.20
	Canal	1433	Halimabag	82	00	Ward 01	0.30
	Canal	1435	Halimabag	82	00	Ward 01	0.22
	Canal	1436	Halimabag	82	00	Ward 01	0.18
	Canal	1440	Halimabag	82	00	Ward 01	0.33
	Canal	1457	Halimabag	82	00	Ward 01	0.23
	Canal	1472	Halimabag	82	00	Ward 01	0.16
Eastern Para Khal	Canal	1542	Khadejabag	62	00	Ward 09	0.25
Eastern Para Khal	Canal	1545	Khadejabag	62	00	Ward 09	0.31
Eastern Para Khal	Canal	1550	Kulsumbag	083	02	Ward 01	2.32
Eastern Para Khal	Canal	1550	Khadejabag	62	00	Ward 09	0.16
	Canal	1616	Daksin Char Fasson	061	06	Ward 09	0.47
Eastern Para Khal	Canal	1703	Kulsumbag	083	02	Ward 01	0.83
	Canal	1717	Aslampur	60	00	Ward 09	0.34
	Canal	1718	Aslampur	60	00	Ward 09	0.35
	Canal	1725	Aslampur	60	00	Ward 09	0.85
	Canal	1732	Aslampur	60	00	Ward 09	0.31
	Canal	1733	Aslampur	60	00	Ward 09	0.35
	Canal	1737	Aslampur	60	00	Ward 09	0.27
	Canal	1740	Aslampur	60	00	Ward 09	0.31
Eastern Para Khal	Canal	1749	Aslampur	60	00	Ward 09	0.63
	Canal	1752	Aslampur	60	00	Ward 09	0.22
	Canal	1753	Aslampur	60	00	Ward 09	0.45
	Canal	1758	Kulsumbag	083	02	Ward 01	0.20
	Canal	1764	Kulsumbag	083	02	Ward 01	0.30
	Canal	1808	Aslampur	60	00	Ward 09	0.71
	Canal	1825	Aslampur	60	00	Ward 09	0.20
Eastern Para Khal	Canal	1971	Dakshin Char Fasson	061	06	Ward 03	0.38
Eastern Para Khal	Canal	1971	Daksin Char Fasson	061	06	Ward 03	0.27
Eastern Para Khal	Canal	1973	Daksin Char Fasson	061	06	Ward 03	0.27
Eastern Para Khal	Canal	2024	Daksin Char Fasson	061	06	Ward 03	0.26
Eastern Para Khal	Canal	2026	Daksin Char Fasson	061	06	Ward 03	0.71
Eastern Para Khal	Canal	2033	Daksin Char Fasson	061	06	Ward 03	0.24
Eastern Para Khal	Canal	2035	Daksin Char Fasson	061	06	Ward 03	0.47
	Canal	2056	Daksin Char Fasson	061	06	Ward 09	0.78
	Canal	2125	Daksin Char Fasson	061	06	Ward 09	0.59
	Canal	2131	Daksin Char Fasson	061	06	Ward 09	1.45
	Canal	2230	Dakshin Char Fasson	061	06	Ward 03	0.26
	Canal	2315	Daksin Char Fasson	061	06	Ward 09	7.47
	Canal	2319	Dakshin Char Fasson	061	06	Ward 03	0.21
Moniar Khal	Canal	3703	Jinnahgarh	084	03	Ward 06	0.15
Moniar Khal	Canal	3711	Jinnahgarh	084	03	Ward 06	0.23

Name	Type	Plot No	Mouza	JI No	Sheet No	Ward No.	Area (Acre)
	Canal	3798	Jinnahgarh	084	03	Ward 06	0.18
	Canal	3862	Jinnahgarh	084	03	Ward 06	0.19
	Canal	3882	Jinnahgarh	084	03	Ward 06	0.20
Moniar Khal	Canal	3901	Jinnahgarh	084	03	Ward 06	0.72
	Canal	3953	Jinnahgarh	084	03	Ward 06	0.31
Moniar Khal	Canal	3994	Jinnahgarh	084	03	Ward 06	0.17
Moniar Khal	Canal	4065	Jinnahgarh	084	03	Ward 06	0.44
Moniar Khal	Canal	4068	Jinnahgarh	084	03	Ward 06	0.18
Moniar Khal	Canal	4091	Jinnahgarh	084	03	Ward 06	1.34
Moniar Khal	Canal	4093	Jinnahgarh	084	03	Ward 06	1.00
	Canal	9999	Halimabag	82	00	Ward 01	1.64
	Canal	9999	Daksin Char Fasson	061	02	Ward 02	0.84
	Canal	9999	Halimabag	82	00	Ward 01	3.63
	Canal	9999	Daksin Char Fasson	061	03	Ward 02	2.76
	Canal	9999	Daksin Char Fasson	061	02	Ward 02	1.29
	Canal	9999	Halimabag	82	00	Ward 01	0.17
Boalkhali Khal	Canal	99999	Uttar Char Madras	085	01	Ward 08	1.01
Boalkhali Khal	Canal	99999	Dakshin Char Fasson	061	06	Ward 03	0.55
Mandar Toli Khal	Canal	99999	Jinnahgarh	084	02(1st	Ward 05	0.29
Mandar Toli Khal	Canal	99999	Uttar Char Madras	085	01	Ward 05	0.27
Mandar Toli Khal	Canal	99999	Uttar Char Madras	085	02	Ward 07	0.23
	Canal	99999	Uttar Char Madras	085	01	Ward 08	0.17
	Canal	99999	Uttar Char Madras	085	01	Ward 08	7.65
	Canal	99999	Uttar Char Madras	085	01	Ward 07	14.35
	Canal	99999	Uttar Char Madras	085	02	Ward 07	5.27
	Canal	99999	Dakshin Char Fasson	061	06	Ward 03	0.39
	Ditch	372	Jinnahgarh	084	01	Ward 01	0.39
	Ditch	1158	Jinnahgarh	084	02(1st	Ward 04	0.28
	Ditch	1272	Jinnahgarh	084	02(1st	Ward 04	0.60
	Ditch	1274	Jinnahgarh	084	02(1st	Ward 04	0.19
	Ditch	1453	Jinnahgarh	084	02(1st	Ward 05	0.57
	Pond	13	Uttar Char Madras	085	01	Ward 08	0.30
	Pond	23	Uttar Char Madras	085	01	Ward 08	0.74
	Pond	24	Uttar Char Madras	085	01	Ward 08	0.17
	Pond	24	Daksin Char Fasson	061	02	Ward 02	0.31
	Pond	25	Uttar Char Madras	085	01	Ward 08	0.44
	Pond	25	Daksin Char Fasson	061	02	Ward 02	0.26
	Pond	57	Daksin Char Fasson	061	02	Ward 02	0.46
	Pond	58	Daksin Char Fasson	061	02	Ward 02	0.67
	Pond	63	Daksin Char Fasson	061	02	Ward 02	0.52
	Pond	64	Uttar Char Madras	085	01	Ward 08	0.24
	Pond	65	Uttar Char Madras	085	01	Ward 08	0.48
	Pond	68	Daksin Char Fasson	061	02	Ward 02	0.24



Name	Type	Plot No	Mouza	JI No	Sheet No	Ward No.	Area (Acre)
	Pond	69	Daksin Char Fasson	061	02	Ward 02	0.24
	Pond	90	Uttar Char Madras	085	01	Ward 08	0.61
	Pond	94	Uttar Char Madras	085	01	Ward 08	0.37
	Pond	108	Uttar Char Madras	085	01	Ward 08	0.27
	Pond	113	Daksin Char Fasson	061	02	Ward 02	0.59
	Pond	115	Daksin Char Fasson	061	02	Ward 02	0.47
	Pond	116	Daksin Char Fasson	061	02	Ward 02	0.49
	Pond	147	Uttar Char Madras	085	01	Ward 08	0.20
	Pond	148	Uttar Char Madras	085	01	Ward 08	0.22
	Pond	229	Jinnahgarh	084	01	Ward 05	0.46
	Pond	240	Jinnahgarh	084	01	Ward 05	0.33
	Pond	314	Jinnahgarh	084	01	Ward 04	0.71
	Pond	337	Jinnahgarh	084	01	Ward 05	0.29
	Pond	359	Jinnahgarh	084	01	Ward 05	0.52
	Pond	360	Uttar Char Madras	085	01	Ward 07	0.39
	Pond	362	Uttar Char Madras	085	01	Ward 07	0.39
	Pond	369	Uttar Char Madras	085	01	Ward 07	0.34
	Pond	413	Dakshin Char Fasson	061	02	Ward 03	0.72
	Pond	426	Uttar Char Madras	085	01	Ward 07	0.33
	Pond	445	Dakshin Char Fasson	061	02	Ward 03	0.41
	Pond	449	Uttar Char Madras	085	01	Ward 07	0.33
	Pond	450	Dakshin Char Fasson	061	02	Ward 03	0.33
	Pond	451	Uttar Char Madras	085	01	Ward 07	0.29
	Pond	451	Dakshin Char Fasson	061	02	Ward 03	0.23
	Pond	451	Dakshin Char Fasson	061	02	Ward 03	0.41
	Pond	453	Uttar Char Madras	085	01	Ward 07	0.42
	Pond	460	Dakshin Char Fasson	061	02	Ward 03	1.03
	Pond	460	Dakshin Char Fasson	061	02	Ward 03	0.49
	Pond	482	Uttar Char Madras	085	01	Ward 07	0.44
	Pond	540	Uttar Char Madras	085	01	Ward 07	0.22
	Pond	541	Uttar Char Madras	085	01	Ward 07	0.30
	Pond	573	Uttar Char Madras	085	01	Ward 08	0.42
	Pond	626	Uttar Char Madras	085	01	Ward 08	0.61
	Pond	627	Uttar Char Madras	085	01	Ward 08	0.16
	Pond	644	Uttar Char Madras	085	01	Ward 08	0.41
	Pond	674	Uttar Char Madras	085	01	Ward 07	0.30
	Pond	688	Uttar Char Madras	085	01	Ward 08	0.33
	Pond	729	Daksin Char Fasson	061	03	Ward 02	0.31
	Pond	730	Daksin Char Fasson	061	03	Ward 02	0.45
	Pond	771	Daksin Char Fasson	061	03	Ward 02	0.33
	Pond	772	Daksin Char Fasson	061	03	Ward 02	0.45
	Pond	775	Daksin Char Fasson	061	03	Ward 02	0.50
	Pond	776	Daksin Char Fasson	061	03	Ward 02	0.30

Name	Type	Plot No	Mouza	JI No	Sheet No	Ward No.	Area (Acre)
	Pond	816	Uttar Char Madras	085	02	Ward 07	0.40
	Pond	844	Uttar Char Madras	085	02	Ward 07	0.54
	Pond	875	Uttar Char Madras	085	02	Ward 07	0.28
	Pond	887	Uttar Char Madras	085	02	Ward 07	0.47
	Pond	890	Daksin Char Fasson	061	03	Ward 02	0.59
	Pond	891	Daksin Char Fasson	061	03	Ward 02	0.40
	Pond	925	Daksin Char Fasson	061	03	Ward 02	0.22
	Pond	926	Daksin Char Fasson	061	03	Ward 02	0.35
	Pond	996	Daksin Char Fasson	061	03	Ward 02	0.44
	Pond	1002	Jinnahgarh	084	02(1st	Ward 04	1.45
	Pond	1002	Jinnahgarh	084	02(1st	Ward 04	0.56
	Pond	1002	Daksin Char Fasson	061	03	Ward 02	0.71
	Pond	1003	Daksin Char Fasson	061	03	Ward 02	0.35
	Pond	1005	Daksin Char Fasson	061	03	Ward 02	0.20
	Pond	1006	Daksin Char Fasson	061	03	Ward 02	0.24
	Pond	1010	Daksin Char Fasson	061	03	Ward 02	0.52
	Pond	1011	Daksin Char Fasson	061	03	Ward 02	0.42
	Pond	1027	Daksin Char Fasson	061	03	Ward 02	0.38
	Pond	1028	Daksin Char Fasson	061	03	Ward 02	0.34
	Pond	1035	Daksin Char Fasson	061	03	Ward 02	0.54
	Pond	1036	Daksin Char Fasson	061	03	Ward 02	0.57
	Pond	1048	Daksin Char Fasson	061	03	Ward 02	0.36
	Pond	1050	Daksin Char Fasson	061	03	Ward 02	0.38
	Pond	1092	Daksin Char Fasson	061	03	Ward 09	0.58
	Pond	1093	Daksin Char Fasson	061	03	Ward 09	0.53
	Pond	1115	Jinnahgarh	084	02(1st	Ward 04	0.33
	Pond	1146	Kulsumbag	083	02	Ward 01	0.36
	Pond	1155	Kulsumbag	083	02	Ward 01	0.58
	Pond	1157	Jinnahgarh	084	02(1st	Ward 04	0.52
	Pond	1158	Jinnahgarh	084	02(1st	Ward 04	1.24
	Pond	1169	Jinnahgarh	084	02(1st	Ward 04	0.50
	Pond	1170	Jinnahgarh	084	02(1st	Ward 04	0.72
	Pond	1183	Jinnahgarh	084	02(1st	Ward 04	0.16
	Pond	1185	Jinnahgarh	084	02(1st	Ward 04	0.36
	Pond	1190	Jinnahgarh	084	02(1st	Ward 04	0.41
	Pond	1206	Jinnahgarh	084	02(1st	Ward 04	0.42
	Pond	1216	Jinnahgarh	084	02(1st	Ward 04	0.41
	Pond	1223	Jinnahgarh	084	02(1st	Ward 04	0.41
	Pond	1278	Kulsumbag	083	02	Ward 01	0.40
	Pond	1282	Jinnahgarh	084	02(1st	Ward 04	0.41
	Pond	1288	Jinnahgarh	084	02(1st	Ward 04	0.45
	Pond	1322	Kulsumbag	083	02	Ward 01	0.40
	Pond	1337	Jinnahgarh	084	02(1st	Ward 04	0.48

Name	Type	Plot No	Mouza	JI No	Sheet No	Ward No.	Area (Acre)
	Pond	1347	Jinnahgarh	084	02(1st	Ward 04	0.48
	Pond	1363	Jinnahgarh	084	02(1st	Ward 05	0.41
	Pond	1366	Jinnahgarh	084	02(1st	Ward 05	0.49
	Pond	1394	Jinnahgarh	084	02(1st	Ward 05	0.80
	Pond	1394	Jinnahgarh	084	02(1st	Ward 05	0.25
	Pond	1400	Jinnahgarh	084	02(1st	Ward 05	0.30
	Pond	1408	Khadejabag	62	00	Ward 09	0.23
	Pond	1415	Jinnahgarh	084	02(1st	Ward 05	0.43
	Pond	1418	Kulsumbag	083	02	Ward 01	0.72
	Pond	1419	Kulsumbag	083	02	Ward 01	0.29
	Pond	1420	Jinnahgarh	084	02(1st	Ward 05	0.41
	Pond	1424	Jinnahgarh	084	02(1st	Ward 05	0.25
	Pond	1424	Jinnahgarh	084	02(1st	Ward 05	0.80
	Pond	1425	Jinnahgarh	084	02(1st	Ward 05	0.95
	Pond	1429	Jinnahgarh	084	02(1st	Ward 05	0.61
	Pond	1430	Jinnahgarh	084	02(1st	Ward 05	0.55
	Pond	1431	Jinnahgarh	084	02(1st	Ward 05	0.44
	Pond	1431	Jinnahgarh	084	02(1st	Ward 05	0.80
	Pond	1432	Jinnahgarh	084	02(1st	Ward 05	0.74
	Pond	1432	Khadejabag	62	00	Ward 09	0.19
	Pond	1441	Jinnahgarh	084	02(1st	Ward 05	0.57
	Pond	1441	Kulsumbag	083	02	Ward 01	0.25
	Pond	1442	Kulsumbag	083	02	Ward 01	0.68
	Pond	1448	Jinnahgarh	084	02(1st	Ward 05	0.41
	Pond	1453	Jinnahgarh	084	02(1st	Ward 05	0.37
	Pond	1458	Khadejabag	62	00	Ward 09	0.25
	Pond	1459	Khadejabag	62	00	Ward 09	0.23
	Pond	1510	Khadejabag	62	00	Ward 09	0.16
	Pond	1512	Khadejabag	62	00	Ward 09	0.16
	Pond	1521	Kulsumbag	083	02	Ward 01	0.29
	Pond	1522	Kulsumbag	083	02	Ward 01	0.29
	Pond	1652	Aslampur	60	00	Ward 09	0.32
	Pond	1653	Aslampur	60	00	Ward 09	0.36
	Pond	1676	Aslampur	60	00	Ward 09	0.39
	Pond	1687	Aslampur	60	00	Ward 09	0.22
	Pond	1694	Aslampur	60	00	Ward 09	0.25
	Pond	1716	Kulsumbag	083	02	Ward 01	0.70
	Pond	1717	Kulsumbag	083	02	Ward 01	0.49
	Pond	1735	Kulsumbag	083	02	Ward 01	0.43
	Pond	1735	Kulsumbag	083	02	Ward 01	0.78
	Pond	1737	Kulsumbag	083	02	Ward 01	0.42
	Pond	1738	Kulsumbag	083	02	Ward 01	0.49
	Pond	1769	Aslampur	60	00	Ward 09	0.35

Name	Type	Plot No	Mouza	JI No	Sheet No	Ward No.	Area (Acre)
	Pond	1770	Aslampur	60	00	Ward 09	0.47
	Pond	1784	Kulsumbag	083	02	Ward 01	0.73
	Pond	1791	Kulsumbag	083	02	Ward 01	0.31
	Pond	1798	Kulsumbag	083	02	Ward 01	0.44
	Pond	1820	Kulsumbag	083	02	Ward 01	0.43
	Pond	2060	Daksin Char Fasson	061	06	Ward 09	0.87
	Pond	2061	Daksin Char Fasson	061	06	Ward 09	1.10
	Pond	2089	Daksin Char Fasson	061	06	Ward 09	0.34
	Pond	2090	Daksin Char Fasson	061	06	Ward 09	0.41
	Pond	2198	Dakshin Char Fasson	061	06	Ward 03	0.38
	Pond	2203	Dakshin Char Fasson	061	06	Ward 03	0.55
	Pond	2206	Dakshin Char Fasson	061	06	Ward 03	0.63
	Pond	2210	Dakshin Char Fasson	061	06	Ward 03	0.53
	Pond	2224	Dakshin Char Fasson	061	06	Ward 03	0.56
	Pond	2228	Dakshin Char Fasson	061	06	Ward 03	0.21
	Pond	2282	Dakshin Char Fasson	061	06	Ward 03	0.55
	Pond	2297	Dakshin Char Fasson	061	06	Ward 03	0.49
	Pond	2301	Dakshin Char Fasson	061	06	Ward 03	0.46
	Pond	3698	Jinnahgarh	084	03	Ward 06	0.23
	Pond	3699	Jinnahgarh	084	03	Ward 06	0.54
	Pond	3699	Jinnahgarh	084	03	Ward 06	0.51
	Pond	3702	Jinnahgarh	084	03	Ward 06	0.36
	Pond	3718	Jinnahgarh	084	03	Ward 06	0.70
	Pond	3733	Jinnahgarh	084	03	Ward 06	0.37
	Pond	3755	Jinnahgarh	084	03	Ward 06	0.80
	Pond	3795	Jinnahgarh	084	03	Ward 06	0.44
	Pond	3819	Jinnahgarh	084	03	Ward 06	0.22
	Pond	3848	Jinnahgarh	084	03	Ward 06	0.31
	Pond	3919	Jinnahgarh	084	03	Ward 06	0.23

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Dakshin Char Fasson	061	02	207	0.0008
Water Body	Dakshin Char Fasson	061	02	206	0.1609
Water Body	Dakshin Char Fasson	061	02	206	0.0712
Water Body	Dakshin Char Fasson	061	02	206	0.1209
Water Body	Dakshin Char Fasson	061	02	206	0.1004
Water Body	Dakshin Char Fasson	061	02	206	0.0598
Water Body	Dakshin Char Fasson	061	02	208	0.0737
Water Body	Dakshin Char Fasson	061	02	208	0.0079
Water Body	Dakshin Char Fasson	061	02	208	0.0323
Water Body	Dakshin Char Fasson	061	02	208	0.0162
Water Body	Dakshin Char Fasson	061	02	228	0.0432
Water Body	Dakshin Char Fasson	061	02	227	0.0597
Water Body	Dakshin Char Fasson	061	02	226	0.0767
Water Body	Dakshin Char Fasson	061	02	202	0.0294
Water Body	Dakshin Char Fasson	061	02	223	0.1471
Water Body	Dakshin Char Fasson	061	02	290	0.0306
Water Body	Dakshin Char Fasson	061	02	222	0.2205
Water Body	Dakshin Char Fasson	061	02	222	0.0203
Water Body	Dakshin Char Fasson	061	02	221	0.0267
Water Body	Dakshin Char Fasson	061	02	289	0.0042

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Dakshin Char Fasson	061	02	220	0.0802
Water Body	Dakshin Char Fasson	061	02	251	0.0392
Water Body	Dakshin Char Fasson	061	02	254	0.0499
Water Body	Dakshin Char Fasson	061	02	255	0.0346
Water Body	Dakshin Char Fasson	061	02	259	0.0352
Water Body	Dakshin Char Fasson	061	02	259	0.0553
Water Body	Dakshin Char Fasson	061	02	260	0.0201
Water Body	Dakshin Char Fasson	061	02	260	0.0307
Water Body	Dakshin Char Fasson	061	02	264	0.0107
Water Body	Kulsumbag	83	4	1706	0.0389
Water Body	Kulsumbag	83	4	1706	0.0897
Water Body	Kulsumbag	83	4	1705	0.0753
Water Body	Dakshin Char Fasson	061	02	266	0.0079
Water Body	Dakshin Char Fasson	061	02	263	0.0520
Water Body	Dakshin Char Fasson	061	02	263	0.0227
Water Body	Dakshin Char Fasson	061	02	256	0.0000
Water Body	Kulsumbag	83	4	1704	0.0743
Water Body	Kulsumbag	83	4	1704	0.0532
Water Body	Kulsumbag	83	4	1707	0.1864
Water Body	Kulsumbag	83	4	1707	0.0799
Water Body	Kulsumbag	83	4	1707	0.0318
Water Body	Dakshin Char Fasson	061	02	267	0.0460
Water Body	Dakshin Char Fasson	061	02	272	0.0024
Water Body	Dakshin Char Fasson	061	02	219	0.0396
Water Body	Dakshin Char Fasson	061	02	219	0.0050
Water Body	Kulsumbag	83	4	1719	0.0590
Water Body	Kulsumbag	83	4	1723	0.0083
Water Body	Kulsumbag	83	4	1723	0.0379
Water Body	Kulsumbag	83	4	1702	0.1498
Water Body	Kulsumbag	83	4	1702	0.1007
Water Body	Dakshin Char Fasson	061	02	268	0.0483
Water Body	Kulsumbag	83	4	1735	0.1741
Water Body	Kulsumbag	83	4	1735	0.2384
Water Body	Kulsumbag	83	4	1735	0.1348
Water Body	Kulsumbag	83	4	1735	0.2093
Water Body	Kulsumbag	83	4	1735	0.7773
Water Body	Kulsumbag	83	4	1735	0.1464
Water Body	Kulsumbag	83	4	1735	0.4338
Water Body	Kulsumbag	83	4	1735	0.2200
Water Body	Kulsumbag	83	4	1735	0.0597
Water Body	Dakshin Char Fasson	061	02	271	0.0115
Water Body	Dakshin Char Fasson	061	02	274	0.0249
Water Body	Dakshin Char Fasson	061	02	269	0.0211
Water Body	Dakshin Char Fasson	061	02	262	0.0125
Water Body	Dakshin Char Fasson	061	02	210	0.0022
Water Body	Dakshin Char Fasson	061	02	261	0.0119
Water Body	Dakshin Char Fasson	061	02	261	0.0005
Water Body	Dakshin Char Fasson	061	02	258	0.0095
Water Body	Dakshin Char Fasson	061	02	258	0.0197
Water Body	Dakshin Char Fasson	061	02	270	0.0122
Water Body	Dakshin Char Fasson	061	02	211	0.1646
Water Body	Dakshin Char Fasson	061	02	218	0.0872
Water Body	Kulsumbag	83	4	1701	0.1056
Water Body	Dakshin Char Fasson	061	02	22222	0.0009
Water Body	Dakshin Char Fasson	061	02	465	0.0018
Water Body	Dakshin Char Fasson	061	02	465	0.0295
Water Body	Dakshin Char Fasson	061	02	466	0.1293
Water Body	Dakshin Char Fasson	061	02	466	0.4522
Water Body	Dakshin Char Fasson	061	02	429	0.0817
Water Body	Dakshin Char Fasson	061	02	429	0.0179
Water Body	Dakshin Char Fasson	061	02	429	0.1411
Water Body	Dakshin Char Fasson	061	02	429	0.0748
Water Body	Dakshin Char Fasson	061	02	429	0.1102
Water Body	Dakshin Char Fasson	061	02	429	0.0315
Water Body	Dakshin Char Fasson	061	02	429	0.0334
Water Body	Dakshin Char Fasson	061	02	429	0.0584
Water Body	Dakshin Char Fasson	061	02	429	0.0373
Water Body	Dakshin Char Fasson	061	02	429	0.0495
Water Body	Dakshin Char Fasson	061	02	429	0.0909
Water Body	Dakshin Char Fasson	061	02	429	0.1168

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Dakshin Char Fasson	061	02	429	0.1033
Water Body	Dakshin Char Fasson	061	02	429	0.1037
Water Body	Dakshin Char Fasson	061	02	429	0.1862
Water Body	Dakshin Char Fasson	061	02	429	0.1086
Water Body	Dakshin Char Fasson	061	02	429	0.0478
Water Body	Dakshin Char Fasson	061	02	429	0.0465
Water Body	Dakshin Char Fasson	061	02	429	0.0940
Water Body	Dakshin Char Fasson	061	02	429	0.0468
Water Body	Dakshin Char Fasson	061	02	429	0.1188
Water Body	Dakshin Char Fasson	061	02	429	0.1216
Water Body	Dakshin Char Fasson	061	02	429	0.0786
Water Body	Dakshin Char Fasson	061	02	429	0.0595
Water Body	Dakshin Char Fasson	061	02	429	0.0976
Water Body	Dakshin Char Fasson	061	02	429	0.0478
Water Body	Dakshin Char Fasson	061	02	429	0.0975
Water Body	Dakshin Char Fasson	061	02	429	0.0026
Water Body	Dakshin Char Fasson	061	02	429	0.0676
Water Body	Dakshin Char Fasson	061	02	429	0.0053
Water Body	Dakshin Char Fasson	061	02	429	0.0414
Water Body	Kulsumbag	083	02	1275	0.4963
Water Body	Dakshin Char Fasson	061	02	467	0.0046
Water Body	Dakshin Char Fasson	061	02	212	0.0091
Water Body	Kulsumbag	083	02	1276	0.2031
Water Body	Kulsumbag	083	02	1286	0.0808
Water Body	Kulsumbag	083	02	1285	0.1299
Water Body	Kulsumbag	083	02	1285	0.0010
Water Body	Dakshin Char Fasson	061	02	217	0.0164
Water Body	Kulsumbag	083	02	1294	0.0877
Water Body	Kulsumbag	083	02	1294	0.0496
Water Body	Kulsumbag	083	02	1284	0.0321
Water Body	Kulsumbag	083	02	1284	0.0016
Water Body	Kulsumbag	083	02	1295	0.0226
Water Body	Kulsumbag	083	02	1295	0.0823
Water Body	Kulsumbag	083	02	1297	0.0756
Water Body	Kulsumbag	083	02	1179	0.5960
Water Body	Kulsumbag	83	4	1736	0.1838
Water Body	Kulsumbag	83	4	1736	0.3930
Water Body	Kulsumbag	083	02	1301	0.0964
Water Body	Dakshin Char Fasson	061	02	464	0.0113
Water Body	Kulsumbag	083	02	1278	0.0605
Water Body	Kulsumbag	083	02	1278	0.4018
Water Body	Kulsumbag	083	02	1278	0.0412
Water Body	Kulsumbag	083	02	1255	0.3547
Water Body	Kulsumbag	083	02	1292	0.0028
Water Body	Kulsumbag	083	02	1292	0.0930
Water Body	Kulsumbag	083	02	1292	0.0513
Water Body	Kulsumbag	083	02	1292	0.2772
Water Body	Kulsumbag	083	02	1292	0.1260
Water Body	Kulsumbag	083	02	1302	0.0029
Water Body	Dakshin Char Fasson	061	02	463	0.0022
Water Body	Dakshin Char Fasson	061	02	463	0.0360
Water Body	Kulsumbag	083	02	1293	0.0076
Water Body	Kulsumbag	83	4	1722	0.0918
Water Body	Kulsumbag	083	02	1296	0.0584
Water Body	Kulsumbag	083	02	1296	0.2448
Water Body	Dakshin Char Fasson	061	02	428	0.0002
Water Body	Dakshin Char Fasson	061	02	427	0.0393
Water Body	Dakshin Char Fasson	061	02	331	0.1476
Water Body	Dakshin Char Fasson	061	02	356	0.0139
Water Body	Kulsumbag	83	4	1737	0.2531
Water Body	Kulsumbag	83	4	1737	0.4209
Water Body	Kulsumbag	83	4	1737	0.2544
Water Body	Kulsumbag	83	4	1737	0.2618
Water Body	Dakshin Char Fasson	061	02	423	0.0212
Water Body	Dakshin Char Fasson	061	02	423	0.0168
Water Body	Dakshin Char Fasson	061	02	426	0.0330
Water Body	Dakshin Char Fasson	061	02	372	0.0909
Water Body	Dakshin Char Fasson	061	02	371	0.2171
Water Body	Dakshin Char Fasson	061	02	355	0.0011
Water Body	Dakshin Char Fasson	061	02	403	0.0807

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Dakshin Char Fasson	061	02	357	0.0325
Water Body	Dakshin Char Fasson	061	02	354	0.0652
Water Body	Dakshin Char Fasson	061	02	412	0.0499
Water Body	Kulsumbag	83	4	1721	0.0300
Water Body	Dakshin Char Fasson	061	02	344	0.0117
Water Body	Dakshin Char Fasson	061	02	424	0.0000
Water Body	Dakshin Char Fasson	061	02	424	0.1119
Water Body	Dakshin Char Fasson	061	02	425	0.0188
Water Body	Dakshin Char Fasson	061	02	413	0.0090
Water Body	Dakshin Char Fasson	061	02	413	0.6935
Water Body	Dakshin Char Fasson	061	02	413	0.0003
Water Body	Dakshin Char Fasson	061	02	358	0.0199
Water Body	Dakshin Char Fasson	061	02	369	0.0058
Water Body	Dakshin Char Fasson	061	02	370	0.0008
Water Body	Dakshin Char Fasson	061	02	395	0.0808
Water Body	Dakshin Char Fasson	061	02	345	0.0167
Water Body	Dakshin Char Fasson	061	02	422	0.0753
Water Body	Dakshin Char Fasson	061	02	407	0.0169
Water Body	Dakshin Char Fasson	061	02	421	0.1050
Water Body	Dakshin Char Fasson	061	02	420	0.0552
Water Body	Dakshin Char Fasson	061	02	417	0.0457
Water Body	Dakshin Char Fasson	061	02	408	0.0017
Water Body	Dakshin Char Fasson	061	02	408	0.0007
Water Body	Dakshin Char Fasson	061	02	401	0.0348
Water Body	Dakshin Char Fasson	061	02	346	0.0057
Water Body	Dakshin Char Fasson	061	02	362	0.0181
Water Body	Dakshin Char Fasson	061	02	362	0.1078
Water Body	Dakshin Char Fasson	061	02	368	0.0462
Water Body	Kulsumbag	83	4	1747	0.1327
Water Body	Kulsumbag	83	4	1747	0.0950
Water Body	Kulsumbag	83	4	1747	0.0506
Water Body	Kulsumbag	83	4	1747	0.0036
Water Body	Kulsumbag	83	4	1747	0.0369
Water Body	Kulsumbag	83	4	1747	0.1845
Water Body	Kulsumbag	83	4	1747	0.0733
Water Body	Kulsumbag	83	4	1747	0.0484
Water Body	Kulsumbag	83	4	1738	0.1672
Water Body	Kulsumbag	83	4	1738	0.1791
Water Body	Kulsumbag	83	4	1738	0.1942
Water Body	Kulsumbag	83	4	1738	0.2507
Water Body	Kulsumbag	83	4	1738	0.0551
Water Body	Kulsumbag	83	4	1738	0.4398
Water Body	Dakshin Char Fasson	061	02	399	0.0015
Water Body	Dakshin Char Fasson	061	02	342	0.0012
Water Body	Dakshin Char Fasson	061	02	342	0.0276
Water Body	Dakshin Char Fasson	061	02	400	0.0250
Water Body	Dakshin Char Fasson	061	02	402	0.0804
Water Body	Dakshin Char Fasson	061	02	363	0.0030
Water Body	Dakshin Char Fasson	061	02	363	0.0478
Water Body	Dakshin Char Fasson	061	02	406	0.0045
Water Body	Dakshin Char Fasson	061	02	406	0.0470
Water Body	Dakshin Char Fasson	061	02	406	0.0284
Water Body	Kulsumbag	83	4	1818	0.1295
Water Body	Kulsumbag	83	4	1818	0.1441
Water Body	Dakshin Char Fasson	061	02	405	0.0336
Water Body	Dakshin Char Fasson	061	02	405	0.0002
Water Body	Dakshin Char Fasson	061	02	341	0.0295
Water Body	Dakshin Char Fasson	061	02	336	0.0465
Water Body	Dakshin Char Fasson	061	02	340	0.0094
Water Body	Dakshin Char Fasson	061	02	432	0.0901
Water Body	Dakshin Char Fasson	061	02	432	0.0909
Water Body	Dakshin Char Fasson	061	02	432	0.0562
Water Body	Dakshin Char Fasson	061	02	432	0.0067
Water Body	Dakshin Char Fasson	061	02	432	0.0867
Water Body	Dakshin Char Fasson	061	02	432	0.0251
Water Body	Dakshin Char Fasson	061	02	432	0.3931
Water Body	Dakshin Char Fasson	061	02	432	0.0484
Water Body	Dakshin Char Fasson	061	02	432	0.2013
Water Body	Dakshin Char Fasson	061	02	432	0.1154
Water Body	Dakshin Char Fasson	061	02	432	0.0684

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Dakshin Char Fasson	061	02	432	0.0467
Water Body	Dakshin Char Fasson	061	02	432	0.1629
Water Body	Dakshin Char Fasson	061	02	337	0.0120
Water Body	Dakshin Char Fasson	061	02	462	0.0467
Water Body	Dakshin Char Fasson	061	06	1971	0.1368
Water Body	Dakshin Char Fasson	061	06	1971	0.0020
Water Body	Kulsumbag	083	02	1323	0.0685
Water Body	Kulsumbag	083	02	1319	0.0355
Water Body	Kulsumbag	083	02	1320	0.0042
Water Body	Kulsumbag	083	02	1178	0.0537
Water Body	Kulsumbag	083	02	1322	0.0000
Water Body	Kulsumbag	083	02	1322	0.1322
Water Body	Kulsumbag	083	02	1322	0.1257
Water Body	Kulsumbag	083	02	1322	0.3975
Water Body	Kulsumbag	083	02	1166	0.1376
Water Body	Kulsumbag	83	4	1748	0.0016
Water Body	Kulsumbag	83	4	1748	0.1315
Water Body	Kulsumbag	83	4	1748	0.0229
Water Body	Dakshin Char Fasson	061	02	434	0.0004
Water Body	Dakshin Char Fasson	061	02	434	0.0737
Water Body	Dakshin Char Fasson	061	02	434	0.2192
Water Body	Dakshin Char Fasson	061	02	434	0.0375
Water Body	Dakshin Char Fasson	061	02	434	0.0711
Water Body	Dakshin Char Fasson	061	02	434	0.1823
Water Body	Dakshin Char Fasson	061	02	434	0.1115
Water Body	Dakshin Char Fasson	061	02	434	0.2524
Water Body	Dakshin Char Fasson	061	02	434	0.1902
Water Body	Dakshin Char Fasson	061	02	434	0.0777
Water Body	Dakshin Char Fasson	061	02	434	0.0962
Water Body	Dakshin Char Fasson	061	02	434	0.0222
Water Body	Kulsumbag	083	02	1290	0.1077
Water Body	Kulsumbag	083	02	1291	0.0746
Water Body	Kulsumbag	083	02	1291	0.0702
Water Body	Kulsumbag	083	02	1291	0.0096
Water Body	Kulsumbag	083	02	1291	0.0944
Water Body	Kulsumbag	083	02	1291	0.0520
Water Body	Kulsumbag	083	02	1291	0.0444
Water Body	Kulsumbag	083	02	1291	0.0267
Water Body	Kulsumbag	83	4	1756	0.0813
Water Body	Kulsumbag	83	4	1756	0.0980
Water Body	Kulsumbag	083	02	1325	0.0001
Water Body	Kulsumbag	83	4	1754	0.0167
Water Body	Kulsumbag	83	4	1750	0.0097
Water Body	Kulsumbag	83	4	1750	0.0010
Water Body	Kulsumbag	83	4	1750	0.0154
Water Body	Kulsumbag	83	4	1750	0.0062
Water Body	Kulsumbag	083	02	1165	0.0002
Water Body	Kulsumbag	083	02	1117	0.0480
Water Body	Kulsumbag	83	4	1749	0.0710
Water Body	Kulsumbag	083	02	1164	0.0006
Water Body	Kulsumbag	083	02	1164	0.2494
Water Body	Kulsumbag	083	02	1164	0.0762
Water Body	Kulsumbag	083	02	1118	0.7148
Water Body	Kulsumbag	83	4	1742	0.0945
Water Body	Kulsumbag	083	02	1162	0.0188
Water Body	Kulsumbag	083	02	1162	0.1069
Water Body	Kulsumbag	083	02	1162	0.0162
Water Body	Kulsumbag	083	02	1326	0.1624
Water Body	Kulsumbag	083	02	1326	0.0789
Water Body	Kulsumbag	083	02	1326	0.0098
Water Body	Kulsumbag	083	02	1326	0.1741
Water Body	Kulsumbag	083	02	1326	0.0258
Water Body	Kulsumbag	083	02	1326	0.0161
Water Body	Kulsumbag	083	02	1326	0.0582
Water Body	Kulsumbag	083	02	1326	0.1326
Water Body	Kulsumbag	083	02	1326	0.3348
Water Body	Kulsumbag	083	02	1326	0.0070
Water Body	Kulsumbag	083	02	1326	0.0710
Water Body	Kulsumbag	83	4	1746	0.0401
Water Body	Kulsumbag	83	4	1746	0.0723



Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Kulsumbag	83	4	1746	0.0138
Water Body	Kulsumbag	83	4	1741	0.0348
Water Body	Kulsumbag	83	4	1740	0.0012
Water Body	Kulsumbag	83	4	1753	0.0139
Water Body	Kulsumbag	83	4	1752	0.0016
Water Body	Kulsumbag	83	4	1752	0.0196
Water Body	Dakshin Char Fasson	061	02	433	0.0266
Water Body	Dakshin Char Fasson	061	02	433	0.0118
Water Body	Kulsumbag	083	02	1330	0.0508
Water Body	Kulsumbag	083	02	1331	0.0239
Water Body	Kulsumbag	083	02	1349	0.0274
Water Body	Kulsumbag	083	02	1349	0.1131
Water Body	Kulsumbag	83	4	1751	0.0059
Water Body	Kulsumbag	83	4	1751	0.0174
Water Body	Kulsumbag	083	02	1332	0.0208
Water Body	Kulsumbag	083	02	1332	0.0159
Water Body	Kulsumbag	083	02	1332	0.0336
Water Body	Kulsumbag	83	4	1758	0.0469
Water Body	Kulsumbag	83	4	1758	0.0231
Water Body	Kulsumbag	83	4	1758	0.1397
Water Body	Kulsumbag	83	4	1758	0.1483
Water Body	Kulsumbag	83	4	1758	0.0385
Water Body	Kulsumbag	83	4	1758	0.1579
Water Body	Kulsumbag	83	4	1758	0.0359
Water Body	Kulsumbag	83	4	1758	0.0008
Water Body	Kulsumbag	83	4	1758	0.0049
Water Body	Kulsumbag	83	4	1758	0.0382
Water Body	Kulsumbag	83	4	1758	0.1082
Water Body	Kulsumbag	83	4	1758	0.1881
Water Body	Kulsumbag	83	4	1758	0.0588
Water Body	Kulsumbag	83	4	1758	0.0670
Water Body	Kulsumbag	83	4	1771	0.0041
Water Body	Kulsumbag	83	4	1777	0.0001
Water Body	Kulsumbag	83	4	1778	0.2956
Water Body	Kulsumbag	83	4	1778	0.1445
Water Body	Kulsumbag	83	4	1778	0.1049
Water Body	Kulsumbag	83	4	1778	0.0997
Water Body	Kulsumbag	83	4	1778	0.0008
Water Body	Kulsumbag	83	4	1778	0.1834
Water Body	Kulsumbag	83	4	1778	0.0194
Water Body	Kulsumbag	83	4	1772	0.0000
Water Body	Kulsumbag	83	4	1772	0.3768
Water Body	Kulsumbag	83	4	1772	0.0945
Water Body	Kulsumbag	83	4	1773	0.0026
Water Body	Kulsumbag	083	02	1163	0.0259
Water Body	Kulsumbag	083	02	1163	0.2175
Water Body	Kulsumbag	083	02	1329	0.0818
Water Body	Kulsumbag	083	02	1329	0.0429
Water Body	Kulsumbag	083	02	1333	0.0009
Water Body	Kulsumbag	83	4	1779	0.0561
Water Body	Kulsumbag	83	4	1783	0.0893
Water Body	Kulsumbag	083	02	1327	0.0847
Water Body	Kulsumbag	083	02	1327	0.2138
Water Body	Kulsumbag	083	02	1327	0.3497
Water Body	Kulsumbag	083	02	1327	0.1232
Water Body	Kulsumbag	83	4	1784	0.0449
Water Body	Kulsumbag	83	4	1784	0.7312
Water Body	Kulsumbag	83	4	1784	0.0411
Water Body	Dakshin Char Fasson	061	02	436	0.0185
Water Body	Dakshin Char Fasson	061	02	436	0.3521
Water Body	Dakshin Char Fasson	061	02	436	0.1991
Water Body	Dakshin Char Fasson	061	02	436	0.2326
Water Body	Dakshin Char Fasson	061	02	436	0.1227
Water Body	Dakshin Char Fasson	061	02	437	0.0027
Water Body	Dakshin Char Fasson	061	02	437	0.0205
Water Body	Dakshin Char Fasson	061	02	437	0.0100
Water Body	Dakshin Char Fasson	061	02	437	0.1219
Water Body	Dakshin Char Fasson	061	02	437	0.1601
Water Body	Dakshin Char Fasson	061	02	437	0.1402
Water Body	Dakshin Char Fasson	061	02	437	0.0542

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Dakshin Char Fasson	061	06	2221	0.0052
Water Body	Dakshin Char Fasson	061	06	2221	0.0749
Water Body	Dakshin Char Fasson	061	06	2221	0.0052
Water Body	Kulsumbag	83	4	1775	0.0382
Water Body	Kulsumbag	83	4	1775	0.0020
Water Body	Kulsumbag	83	4	1819	0.0487
Water Body	Kulsumbag	83	4	1819	0.0253
Water Body	Kulsumbag	83	4	1819	0.0092
Water Body	Dakshin Char Fasson	061	06	2222	0.0003
Water Body	Dakshin Char Fasson	061	06	2222	0.2691
Water Body	Dakshin Char Fasson	061	06	2222	0.1529
Water Body	Dakshin Char Fasson	061	06	2222	0.1639
Water Body	Dakshin Char Fasson	061	06	2222	0.0844
Water Body	Dakshin Char Fasson	061	06	2222	0.0755
Water Body	Dakshin Char Fasson	061	06	2222	0.0847
Water Body	Dakshin Char Fasson	061	06	2222	0.1116
Water Body	Dakshin Char Fasson	061	06	2222	0.1005
Water Body	Dakshin Char Fasson	061	06	2222	0.1690
Water Body	Dakshin Char Fasson	061	06	2222	0.1137
Water Body	Dakshin Char Fasson	061	06	2222	0.0758
Water Body	Dakshin Char Fasson	061	06	2222	0.0155
Water Body	Dakshin Char Fasson	061	06	2222	0.1103
Water Body	Dakshin Char Fasson	061	06	2222	0.1012
Water Body	Dakshin Char Fasson	061	06	2222	0.0925
Water Body	Dakshin Char Fasson	061	06	2222	0.0564
Water Body	Dakshin Char Fasson	061	06	2222	0.0837
Water Body	Kulsumbag	83	4	1781	0.0222
Water Body	Dakshin Char Fasson	061	06	2216	0.0177
Water Body	Dakshin Char Fasson	061	06	2216	0.0001
Water Body	Kulsumbag	83	4	1776	0.0472
Water Body	Kulsumbag	83	4	1776	0.0143
Water Body	Dakshin Char Fasson	061	06	2207	0.0029
Water Body	Dakshin Char Fasson	061	06	2207	0.0001
Water Body	Dakshin Char Fasson	061	06	2206	0.6077
Water Body	Dakshin Char Fasson	061	06	2206	0.1975
Water Body	Dakshin Char Fasson	061	06	2206	0.1096
Water Body	Dakshin Char Fasson	061	06	2206	0.0775
Water Body	Dakshin Char Fasson	061	06	2206	0.0718
Water Body	Dakshin Char Fasson	061	06	2206	0.1202
Water Body	Dakshin Char Fasson	061	06	2206	0.0412
Water Body	Dakshin Char Fasson	061	06	2206	0.0809
Water Body	Dakshin Char Fasson	061	06	2206	0.0947
Water Body	Dakshin Char Fasson	061	06	2206	0.2020
Water Body	Dakshin Char Fasson	061	06	2206	0.0645
Water Body	Dakshin Char Fasson	061	06	2206	0.0605
Water Body	Dakshin Char Fasson	061	06	2209	0.0529
Water Body	Kulsumbag	83	4	1788	0.1266
Water Body	Kulsumbag	83	4	1788	0.0384
Water Body	Kulsumbag	83	4	1788	0.0229
Water Body	Kulsumbag	83	4	1788	0.0970
Water Body	Kulsumbag	83	4	1788	0.0087
Water Body	Kulsumbag	83	4	1788	0.0447
Water Body	Kulsumbag	83	4	1788	0.2444
Water Body	Kulsumbag	83	4	1788	0.0910
Water Body	Dakshin Char Fasson	061	06	2210	0.5264
Water Body	Kulsumbag	083	02	1161	0.3365
Water Body	Kulsumbag	083	02	1161	0.1365
Water Body	Kulsumbag	083	02	1161	0.1090
Water Body	Kulsumbag	083	02	1161	0.1005
Water Body	Kulsumbag	083	02	1161	0.1050
Water Body	Dakshin Char Fasson	061	02	438	0.1001
Water Body	Dakshin Char Fasson	061	02	438	0.0933
Water Body	Dakshin Char Fasson	061	02	438	0.0685
Water Body	Dakshin Char Fasson	061	02	438	0.0987
Water Body	Dakshin Char Fasson	061	02	438	0.0012
Water Body	Dakshin Char Fasson	061	06	2201	0.0019
Water Body	Dakshin Char Fasson	061	06	2201	0.0076
Water Body	Dakshin Char Fasson	061	06	2201	0.0341
Water Body	Dakshin Char Fasson	061	06	2202	0.0169
Water Body	Dakshin Char Fasson	061	06	2195	0.0009

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Dakshin Char Fasson	061	06	2195	0.0168
Water Body	Dakshin Char Fasson	061	06	2194	0.0137
Water Body	Dakshin Char Fasson	061	06	2192	0.1147
Water Body	Dakshin Char Fasson	061	06	2192	0.0239
Water Body	Dakshin Char Fasson	061	06	2203	0.5485
Water Body	Dakshin Char Fasson	061	06	2191	0.0274
Water Body	Dakshin Char Fasson	061	06	2191	0.0326
Water Body	Dakshin Char Fasson	061	06	2204	0.0291
Water Body	Kulsumbag	83	4	1785	0.0847
Water Body	Dakshin Char Fasson	061	02	439	0.0001
Water Body	Dakshin Char Fasson	061	02	439	0.0014
Water Body	Dakshin Char Fasson	061	02	439	0.3045
Water Body	Kulsumbag	83	4	1787	0.0184
Water Body	Kulsumbag	083	02	1328	0.1183
Water Body	Kulsumbag	083	02	1328	0.0105
Water Body	Dakshin Char Fasson	061	06	2197	0.0621
Water Body	Dakshin Char Fasson	061	06	2198	0.3756
Water Body	Dakshin Char Fasson	061	06	2198	0.0000
Water Body	Dakshin Char Fasson	061	02	440	0.3022
Water Body	Dakshin Char Fasson	061	02	440	0.0698
Water Body	Kulsumbag	83	4	1789	0.0485
Water Body	Kulsumbag	83	4	1792	0.0333
Water Body	Kulsumbag	83	4	1792	0.1041
Water Body	Kulsumbag	83	4	1792	0.1049
Water Body	Kulsumbag	83	4	1792	0.1556
Water Body	Kulsumbag	83	4	1792	0.1773
Water Body	Kulsumbag	83	4	1792	0.0437
Water Body	Kulsumbag	83	4	1792	0.1845
Water Body	Kulsumbag	83	4	1792	0.0867
Water Body	Kulsumbag	83	4	1792	0.0152
Water Body	Kulsumbag	83	4	1792	0.1483
Water Body	Kulsumbag	83	4	1792	0.1531
Water Body	Kulsumbag	83	4	1792	0.1059
Water Body	Kulsumbag	83	4	1792	0.1067
Water Body	Kulsumbag	83	4	1792	0.1009
Water Body	Kulsumbag	83	4	1792	0.0920
Water Body	Kulsumbag	83	4	1792	0.1145
Water Body	Kulsumbag	83	4	1792	0.0496
Water Body	Kulsumbag	083	02	1155	0.1744
Water Body	Kulsumbag	083	02	1155	0.5842
Water Body	Kulsumbag	083	02	1155	0.0851
Water Body	Kulsumbag	083	02	1155	0.0006
Water Body	Dakshin Char Fasson	061	06	2215	0.0013
Water Body	Dakshin Char Fasson	061	06	2190	0.0005
Water Body	Dakshin Char Fasson	061	06	2190	0.0081
Water Body	Dakshin Char Fasson	061	06	2189	0.0081
Water Body	Dakshin Char Fasson	061	06	2189	0.0024
Water Body	Dakshin Char Fasson	061	02	455	0.1306
Water Body	Kulsumbag	83	4	1791	0.3089
Water Body	Dakshin Char Fasson	061	06	2187	0.0166
Water Body	Dakshin Char Fasson	061	06	2187	0.0020
Water Body	Dakshin Char Fasson	061	02	445	0.2850
Water Body	Dakshin Char Fasson	061	02	445	0.2538
Water Body	Dakshin Char Fasson	061	02	445	0.2011
Water Body	Dakshin Char Fasson	061	02	445	0.4072
Water Body	Dakshin Char Fasson	061	02	445	0.0517
Water Body	Dakshin Char Fasson	061	02	445	0.0219
Water Body	Dakshin Char Fasson	061	06	2185	0.0083
Water Body	Dakshin Char Fasson	061	06	2188	0.0521
Water Body	Kulsumbag	083	02	1159	0.0068
Water Body	Kulsumbag	083	02	1156	0.0742
Water Body	Dakshin Char Fasson	061	02	444	0.0015
Water Body	Dakshin Char Fasson	061	02	444	0.0737
Water Body	Dakshin Char Fasson	061	02	443	0.0001
Water Body	Kulsumbag	083	02	1129	0.1276
Water Body	Dakshin Char Fasson	061	06	2178	0.0006
Water Body	Dakshin Char Fasson	061	06	2178	0.0479
Water Body	Dakshin Char Fasson	061	06	2179	0.0443
Water Body	Kulsumbag	083	02	1335	0.1620
Water Body	Dakshin Char Fasson	061	06	2224	0.1660

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Dakshin Char Fasson	061	06	2224	0.0353
Water Body	Dakshin Char Fasson	061	06	2224	0.1246
Water Body	Dakshin Char Fasson	061	06	2224	0.1970
Water Body	Dakshin Char Fasson	061	06	2224	0.1404
Water Body	Dakshin Char Fasson	061	06	2224	0.2123
Water Body	Dakshin Char Fasson	061	06	2224	0.0645
Water Body	Dakshin Char Fasson	061	06	2224	0.0627
Water Body	Dakshin Char Fasson	061	06	2224	0.0854
Water Body	Dakshin Char Fasson	061	06	2224	0.0376
Water Body	Dakshin Char Fasson	061	06	2224	0.0878
Water Body	Dakshin Char Fasson	061	06	2224	0.0385
Water Body	Dakshin Char Fasson	061	06	2224	0.0000
Water Body	Dakshin Char Fasson	061	06	2224	0.2415
Water Body	Dakshin Char Fasson	061	06	2224	0.0428
Water Body	Dakshin Char Fasson	061	06	2224	0.1222
Water Body	Dakshin Char Fasson	061	06	2224	0.5597
Water Body	Kulsumbag	83	4	1762	0.1745
Water Body	Kulsumbag	83	4	1762	0.2583
Water Body	Kulsumbag	83	4	1762	0.0785
Water Body	Kulsumbag	83	4	1762	0.1011
Water Body	Kulsumbag	83	4	1762	0.0089
Water Body	Kulsumbag	83	4	1762	0.0494
Water Body	Kulsumbag	83	4	1762	0.1028
Water Body	Dakshin Char Fasson	061	06	2287	0.1160
Water Body	Dakshin Char Fasson	061	06	2302	0.0001
Water Body	Kulsumbag	083	02	1130	0.2112
Water Body	Kulsumbag	083	02	1143	0.0262
Water Body	Dakshin Char Fasson	061	06	2288	0.0022
Water Body	Kulsumbag	83	4	1793	0.0122
Water Body	Kulsumbag	83	4	1793	0.1161
Water Body	Kulsumbag	83	4	1793	0.0466
Water Body	Kulsumbag	83	4	1793	0.0906
Water Body	Kulsumbag	83	4	1793	0.1032
Water Body	Kulsumbag	83	4	1793	0.0522
Water Body	Kulsumbag	83	4	1793	0.1780
Water Body	Kulsumbag	83	4	1793	0.1572
Water Body	Kulsumbag	83	4	1793	0.1008
Water Body	Kulsumbag	83	4	1793	0.0842
Water Body	Kulsumbag	83	4	1793	0.0504
Water Body	Kulsumbag	83	4	1793	0.2311
Water Body	Kulsumbag	83	4	1793	0.0435
Water Body	Kulsumbag	83	4	1793	0.0969
Water Body	Kulsumbag	83	4	1793	0.0381
Water Body	Kulsumbag	83	4	1793	0.0686
Water Body	Dakshin Char Fasson	061	02	449	0.0461
Water Body	Dakshin Char Fasson	061	02	451	0.0123
Water Body	Dakshin Char Fasson	061	02	451	0.0010
Water Body	Dakshin Char Fasson	061	02	451	0.4069
Water Body	Dakshin Char Fasson	061	02	451	0.2215
Water Body	Dakshin Char Fasson	061	02	451	0.2298
Water Body	Dakshin Char Fasson	061	02	448	0.0478
Water Body	Kulsumbag	083	02	1154	0.1955
Water Body	Kulsumbag	083	02	1154	0.1674
Water Body	Kulsumbag	083	02	1154	0.3095
Water Body	Dakshin Char Fasson	061	06	2298	0.1473
Water Body	Dakshin Char Fasson	061	06	2298	0.0593
Water Body	Dakshin Char Fasson	061	06	2298	0.1273
Water Body	Dakshin Char Fasson	061	02	450	0.3344
Water Body	Dakshin Char Fasson	061	02	460	0.4546
Water Body	Dakshin Char Fasson	061	02	460	1.0351
Water Body	Dakshin Char Fasson	061	02	460	0.0856
Water Body	Dakshin Char Fasson	061	02	460	0.0456
Water Body	Dakshin Char Fasson	061	02	460	0.0468
Water Body	Dakshin Char Fasson	061	02	460	0.0369
Water Body	Dakshin Char Fasson	061	02	460	0.0501
Water Body	Dakshin Char Fasson	061	02	460	0.0389
Water Body	Dakshin Char Fasson	061	02	460	0.0111
Water Body	Dakshin Char Fasson	061	02	460	0.2621
Water Body	Dakshin Char Fasson	061	02	460	0.0352
Water Body	Kulsumbag	083	02	1142	0.0672

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Kulsumbag	83	4	1764	0.2994
Water Body	Kulsumbag	83	4	1764	0.0014
Water Body	Kulsumbag	83	4	1764	0.0038
Water Body	Kulsumbag	83	4	1764	0.0088
Water Body	Kulsumbag	83	4	1764	0.0307
Water Body	Kulsumbag	83	4	1794	0.0326
Water Body	Dakshin Char Fasson	061	06	2299	0.0388
Water Body	Kulsumbag	83	4	1766	0.3720
Water Body	Kulsumbag	83	4	1766	0.0214
Water Body	Kulsumbag	83	4	1766	0.0668
Water Body	Kulsumbag	83	4	1766	0.0408
Water Body	Kulsumbag	83	4	1766	0.0631
Water Body	Kulsumbag	83	4	1766	0.3279
Water Body	Dakshin Char Fasson	061	06	2301	0.4106
Water Body	Dakshin Char Fasson	061	02	469	0.0894
Water Body	Kulsumbag	083	02	1132	0.0615
Water Body	Uttar Char Madras	085	01	241	0.4553
Water Body	Uttar Char Madras	085	01	241	0.0004
Water Body	Uttar Char Madras	085	01	243	0.0001
Water Body	Uttar Char Madras	085	01	243	0.1342
Water Body	Uttar Char Madras	085	01	245	0.0299
Water Body	Uttar Char Madras	085	01	245	0.0373
Water Body	Uttar Char Madras	085	01	245	0.0001
Water Body	Uttar Char Madras	085	01	245	0.0372
Water Body	Uttar Char Madras	085	01	255	0.0928
Water Body	Uttar Char Madras	085	01	256	1.9780
Water Body	Uttar Char Madras	085	01	256	0.0015
Water Body	Kulsumbag	83	4	1803	0.1139
Water Body	Kulsumbag	83	4	1803	0.0678
Water Body	Kulsumbag	83	4	1803	0.0626
Water Body	Uttar Char Madras	085	01	240	1.0099
Water Body	Uttar Char Madras	085	01	240	0.0473
Water Body	Uttar Char Madras	085	01	240	0.0093
Water Body	Uttar Char Madras	085	01	240	0.0024
Water Body	Kulsumbag	83	4	1802	0.2686
Water Body	Kulsumbag	83	4	1802	0.0734
Water Body	Kulsumbag	83	4	1802	0.0894
Water Body	Kulsumbag	83	4	1802	0.0337
Water Body	Kulsumbag	83	4	1802	0.0000
Water Body	Uttar Char Madras	085	01	244	0.0670
Water Body	Uttar Char Madras	085	01	244	0.0068
Water Body	Uttar Char Madras	085	01	234	0.0163
Water Body	Uttar Char Madras	085	01	234	0.0083
Water Body	Uttar Char Madras	085	01	234	0.0076
Water Body	Uttar Char Madras	085	01	234	0.0015
Water Body	Uttar Char Madras	085	01	234	0.0003
Water Body	Uttar Char Madras	085	01	234	0.0005
Water Body	Uttar Char Madras	085	01	234	0.0003
Water Body	Uttar Char Madras	085	01	254	0.0146
Water Body	Kulsumbag	83	4	99999	0.0071
Water Body	Uttar Char Madras	085	01	253	0.0215
Water Body	Uttar Char Madras	085	01	253	0.2170
Water Body	Uttar Char Madras	085	01	253	0.0523
Water Body	Uttar Char Madras	085	01	253	0.0094
Water Body	Uttar Char Madras	085	01	253	0.0718
Water Body	Kulsumbag	083	02	1138	0.1581
Water Body	Uttar Char Madras	085	01	263	0.0009
Water Body	Uttar Char Madras	085	01	246	0.0013
Water Body	Uttar Char Madras	085	01	246	0.0000
Water Body	Uttar Char Madras	085	01	246	0.0143
Water Body	Uttar Char Madras	085	01	246	0.0278
Water Body	Uttar Char Madras	085	01	246	0.1073
Water Body	Uttar Char Madras	085	01	246	0.0801
Water Body	Uttar Char Madras	085	01	246	0.0247
Water Body	Uttar Char Madras	085	01	246	0.0289
Water Body	Uttar Char Madras	085	01	246	0.1047
Water Body	Uttar Char Madras	085	01	239	0.0643
Water Body	Uttar Char Madras	085	01	239	0.1615
Water Body	Uttar Char Madras	085	01	239	0.0172
Water Body	Uttar Char Madras	085	01	239	0.1140

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	239	0.3226
Water Body	Uttar Char Madras	085	01	239	0.0356
Water Body	Uttar Char Madras	085	01	239	0.2734
Water Body	Uttar Char Madras	085	01	239	0.0146
Water Body	Uttar Char Madras	085	01	239	0.1072
Water Body	Uttar Char Madras	085	01	239	0.0761
Water Body	Uttar Char Madras	085	01	264	0.0113
Water Body	Uttar Char Madras	085	01	264	0.1243
Water Body	Uttar Char Madras	085	01	264	0.3304
Water Body	Uttar Char Madras	085	01	264	0.0217
Water Body	Uttar Char Madras	085	01	264	0.0347
Water Body	Uttar Char Madras	085	01	264	0.0338
Water Body	Uttar Char Madras	085	01	264	0.0098
Water Body	Kulsumbag	083	02	1150	0.1818
Water Body	Kulsumbag	083	02	1150	0.0487
Water Body	Kulsumbag	083	02	1150	0.0461
Water Body	Kulsumbag	083	02	1150	0.0652
Water Body	Kulsumbag	083	02	1140	0.0103
Water Body	Kulsumbag	083	02	1140	0.0515
Water Body	Kulsumbag	083	02	1146	0.3619
Water Body	Kulsumbag	083	02	1146	0.0661
Water Body	Kulsumbag	83	4	1800	0.0000
Water Body	Kulsumbag	83	4	1800	0.0467
Water Body	Kulsumbag	083	02	1147	0.0412
Water Body	Kulsumbag	083	02	1147	0.0370
Water Body	Kulsumbag	83	4	1797	0.0358
Water Body	Kulsumbag	83	4	1797	0.0037
Water Body	Kulsumbag	83	4	1797	0.1106
Water Body	Kulsumbag	83	4	1797	0.0408
Water Body	Kulsumbag	83	4	1797	0.0344
Water Body	Kulsumbag	83	4	1797	0.0507
Water Body	Kulsumbag	083	02	1153	0.1292
Water Body	Dakshin Char Fasson	061	06	99999	0.2424
Water Body	Dakshin Char Fasson	061	06	99999	0.2158
Water Body	Dakshin Char Fasson	061	06	99999	0.1543
Water Body	Dakshin Char Fasson	061	06	99999	0.0047
Water Body	Dakshin Char Fasson	061	06	99999	0.0093
Water Body	Dakshin Char Fasson	061	06	99999	0.0032
Water Body	Dakshin Char Fasson	061	06	99999	0.1014
Water Body	Dakshin Char Fasson	061	06	99999	0.0254
Water Body	Dakshin Char Fasson	061	06	99999	0.0245
Water Body	Dakshin Char Fasson	061	06	99999	0.0017
Water Body	Dakshin Char Fasson	061	06	99999	0.1012
Water Body	Dakshin Char Fasson	061	06	99999	0.0396
Water Body	Dakshin Char Fasson	061	06	99999	0.0590
Water Body	Dakshin Char Fasson	061	06	99999	0.0811
Water Body	Dakshin Char Fasson	061	06	99999	0.0128
Water Body	Kulsumbag	083	02	1338	0.3310
Water Body	Kulsumbag	083	02	1338	0.1849
Water Body	Kulsumbag	083	02	1338	0.2480
Water Body	Kulsumbag	083	02	1338	0.2947
Water Body	Kulsumbag	083	02	1338	0.1031
Water Body	Kulsumbag	083	02	1338	0.1332
Water Body	Kulsumbag	083	02	1338	0.0512
Water Body	Kulsumbag	083	02	1338	0.0825
Water Body	Kulsumbag	083	02	1338	0.0937
Water Body	Kulsumbag	083	02	1338	0.0176
Water Body	Kulsumbag	083	02	1338	0.0621
Water Body	Kulsumbag	083	02	1338	0.0826
Water Body	Kulsumbag	083	02	1338	0.0904
Water Body	Kulsumbag	083	02	1338	0.0649
Water Body	Kulsumbag	83	4	1798	0.4407
Water Body	Kulsumbag	83	4	1805	0.0284
Water Body	Kulsumbag	83	4	1805	0.1398
Water Body	Kulsumbag	83	4	1804	0.1122
Water Body	Kulsumbag	83	4	1804	0.2181
Water Body	Kulsumbag	083	02	1139	0.0229
Water Body	Kulsumbag	083	02	1139	0.0337
Water Body	Dakshin Char Fasson	061	06	2297	0.4851
Water Body	Dakshin Char Fasson	061	06	2297	0.0280

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Dakshin Char Fasson	061	06	2297	0.0408
Water Body	Dakshin Char Fasson	061	06	2297	0.1352
Water Body	Dakshin Char Fasson	061	06	2297	0.0507
Water Body	Dakshin Char Fasson	061	06	2297	0.0368
Water Body	Dakshin Char Fasson	061	06	2297	0.0386
Water Body	Dakshin Char Fasson	061	06	2297	0.1268
Water Body	Dakshin Char Fasson	061	06	2297	0.0015
Water Body	Kulsumbag	83	4	1799	0.0250
Water Body	Kulsumbag	83	4	1763	0.0118
Water Body	Kulsumbag	83	4	1763	0.0005
Water Body	Kulsumbag	83	4	1763	0.0000
Water Body	Dakshin Char Fasson	061	06	2308	0.0012
Water Body	Uttar Char Madras	085	01	247	0.0412
Water Body	Dakshin Char Fasson	061	02	456	0.0543
Water Body	Dakshin Char Fasson	061	02	461	0.0422
Water Body	Dakshin Char Fasson	061	02	461	0.0855
Water Body	Dakshin Char Fasson	061	02	461	0.1040
Water Body	Dakshin Char Fasson	061	02	461	0.1957
Water Body	Dakshin Char Fasson	061	02	461	0.0317
Water Body	Dakshin Char Fasson	061	02	461	0.0120
Water Body	Dakshin Char Fasson	061	02	461	0.0549
Water Body	Dakshin Char Fasson	061	02	461	0.1543
Water Body	Dakshin Char Fasson	061	02	461	0.1240
Water Body	Dakshin Char Fasson	061	02	461	0.0927
Water Body	Dakshin Char Fasson	061	02	461	0.1412
Water Body	Dakshin Char Fasson	061	02	454	0.1922
Water Body	Uttar Char Madras	085	01	238	0.2239
Water Body	Uttar Char Madras	085	01	238	0.0035
Water Body	Uttar Char Madras	085	01	238	0.0007
Water Body	Jinnahgarh	084	01	372	0.0013
Water Body	Dakshin Char Fasson	061	06	2276	0.0165
Water Body	Dakshin Char Fasson	061	06	2276	0.0241
Water Body	Dakshin Char Fasson	061	06	2277	0.0960
Water Body	Dakshin Char Fasson	061	06	2277	0.0008
Water Body	Uttar Char Madras	085	01	139	0.1181
Water Body	Uttar Char Madras	085	01	139	0.0009
Water Body	Uttar Char Madras	085	01	139	0.0078
Water Body	Uttar Char Madras	085	01	139	0.0104
Water Body	Uttar Char Madras	085	01	139	0.4039
Water Body	Uttar Char Madras	085	01	139	0.0736
Water Body	Kulsumbag	083	02	1152	0.0607
Water Body	Kulsumbag	83	4	1820	0.0000
Water Body	Kulsumbag	83	4	1820	0.0915
Water Body	Kulsumbag	83	4	1820	0.4296
Water Body	Kulsumbag	83	4	1820	0.1293
Water Body	Kulsumbag	83	4	1820	0.0002
Water Body	Dakshin Char Fasson	061	06	2272	0.2638
Water Body	Dakshin Char Fasson	061	06	2272	0.0147
Water Body	Dakshin Char Fasson	061	06	2269	0.0087
Water Body	Dakshin Char Fasson	061	06	2269	0.0717
Water Body	Dakshin Char Fasson	061	06	2269	0.1572
Water Body	Dakshin Char Fasson	061	06	2269	0.0910
Water Body	Dakshin Char Fasson	061	06	2269	0.0081
Water Body	Dakshin Char Fasson	061	06	2273	0.0437
Water Body	Kulsumbag	83	4	1765	0.0005
Water Body	Kulsumbag	83	4	1811	0.1712
Water Body	Kulsumbag	83	4	1811	0.1856
Water Body	Kulsumbag	83	4	1811	0.2523
Water Body	Kulsumbag	83	4	1811	0.0236
Water Body	Kulsumbag	83	4	1811	0.0764
Water Body	Uttar Char Madras	085	01	258	0.0080
Water Body	Uttar Char Madras	085	01	258	0.0120
Water Body	Uttar Char Madras	085	01	260	0.1074
Water Body	Uttar Char Madras	085	01	260	0.0737
Water Body	Uttar Char Madras	085	01	237	0.0011
Water Body	Jinnahgarh	084	01	315	0.0597
Water Body	Jinnahgarh	084	01	315	0.3685
Water Body	Jinnahgarh	084	01	315	0.2220
Water Body	Jinnahgarh	084	01	315	0.3203
Water Body	Jinnahgarh	084	01	315	0.1073

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	01	315	0.2076
Water Body	Kulsumbag	83	4	1821	0.0927
Water Body	Kulsumbag	83	4	1821	0.2074
Water Body	Kulsumbag	83	4	1821	0.0322
Water Body	Dakshin Char Fasson	061	06	2282	0.5514
Water Body	Kulsumbag	83	4	1810	0.0465
Water Body	Kulsumbag	83	4	1810	0.0086
Water Body	Kulsumbag	83	4	1807	0.1053
Water Body	Kulsumbag	83	4	1807	0.0010
Water Body	Dakshin Char Fasson	061	02	457	0.0092
Water Body	Uttar Char Madras	085	01	137	0.0162
Water Body	Kulsumbag	083	02	1339	0.1077
Water Body	Jinnahgarh	084	01	317	0.2218
Water Body	Jinnahgarh	084	01	317	0.1488
Water Body	Jinnahgarh	084	01	317	0.2738
Water Body	Jinnahgarh	084	01	317	0.2150
Water Body	Jinnahgarh	084	01	317	0.3342
Water Body	Jinnahgarh	084	01	317	0.0014
Water Body	Uttar Char Madras	085	01	252	0.0063
Water Body	Kulsumbag	83	4	1808	0.1349
Water Body	Kulsumbag	83	4	1809	0.1734
Water Body	Uttar Char Madras	085	01	250	0.0524
Water Body	Uttar Char Madras	085	01	250	0.0318
Water Body	Uttar Char Madras	085	01	250	0.0019
Water Body	Uttar Char Madras	085	01	251	0.0503
Water Body	Uttar Char Madras	085	01	251	0.0014
Water Body	Uttar Char Madras	085	01	130	0.0171
Water Body	Uttar Char Madras	085	01	259	0.0624
Water Body	Uttar Char Madras	085	01	259	0.0673
Water Body	Uttar Char Madras	085	01	259	0.0674
Water Body	Uttar Char Madras	085	01	259	0.0584
Water Body	Uttar Char Madras	085	01	259	0.0072
Water Body	Uttar Char Madras	085	01	259	0.0086
Water Body	Uttar Char Madras	085	01	134	0.0130
Water Body	Uttar Char Madras	085	01	134	0.1990
Water Body	Uttar Char Madras	085	01	134	0.0088
Water Body	Uttar Char Madras	085	01	48	0.0210
Water Body	Uttar Char Madras	085	01	48	0.3647
Water Body	Jinnahgarh	084	01	318	0.0603
Water Body	Jinnahgarh	084	01	318	0.0401
Water Body	Jinnahgarh	084	01	318	0.0009
Water Body	Jinnahgarh	084	01	318	0.0696
Water Body	Jinnahgarh	084	01	318	0.1097
Water Body	Jinnahgarh	084	01	318	0.2249
Water Body	Uttar Char Madras	085	01	131	0.0471
Water Body	Dakshin Char Fasson	061	06	2281	0.0003
Water Body	Dakshin Char Fasson	061	06	2265	0.0134
Water Body	Dakshin Char Fasson	061	06	2265	0.0273
Water Body	Uttar Char Madras	085	01	235	0.0326
Water Body	Uttar Char Madras	085	01	235	0.0647
Water Body	Uttar Char Madras	085	01	235	0.1262
Water Body	Uttar Char Madras	085	01	235	0.0273
Water Body	Uttar Char Madras	085	01	99999	1.9934
Water Body	Uttar Char Madras	085	01	141	0.0027
Water Body	Uttar Char Madras	085	01	141	0.2356
Water Body	Uttar Char Madras	085	01	141	0.1078
Water Body	Uttar Char Madras	085	01	141	0.0066
Water Body	Dakshin Char Fasson	061	06	2228	0.2083
Water Body	Uttar Char Madras	085	01	249	0.0004
Water Body	Uttar Char Madras	085	01	608	1.1143
Water Body	Uttar Char Madras	085	01	608	0.0204
Water Body	Uttar Char Madras	085	01	608	0.0072
Water Body	Uttar Char Madras	085	01	608	0.0490
Water Body	Uttar Char Madras	085	01	608	0.0304
Water Body	Uttar Char Madras	085	01	608	0.0055
Water Body	Dakshin Char Fasson	061	06	2230	0.0097
Water Body	Dakshin Char Fasson	061	06	2230	0.2610
Water Body	Uttar Char Madras	085	01	231	0.0006
Water Body	Uttar Char Madras	085	01	231	0.0331
Water Body	Uttar Char Madras	085	01	231	0.0372



Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	02(1st	1002	0.4571
Water Body	Jinnahgarh	084	02(1st	1002	0.2815
Water Body	Jinnahgarh	084	02(1st	1002	1.3229
Water Body	Dakshin Char Fasson	061	06	2248	0.0019
Water Body	Uttar Char Madras	085	01	233	0.0207
Water Body	Uttar Char Madras	085	01	233	0.2177
Water Body	Uttar Char Madras	085	01	233	0.0520
Water Body	Uttar Char Madras	085	01	132	0.0255
Water Body	Dakshin Char Fasson	061	06	2262	0.0684
Water Body	Dakshin Char Fasson	061	06	2262	0.0006
Water Body	Uttar Char Madras	085	01	229	0.0070
Water Body	Uttar Char Madras	085	01	229	0.0163
Water Body	Uttar Char Madras	085	01	229	0.0462
Water Body	Uttar Char Madras	085	01	229	0.1119
Water Body	Uttar Char Madras	085	01	229	0.0849
Water Body	Uttar Char Madras	085	01	229	0.0279
Water Body	Uttar Char Madras	085	01	229	0.1579
Water Body	Uttar Char Madras	085	01	229	0.0329
Water Body	Uttar Char Madras	085	01	229	0.0067
Water Body	Dakshin Char Fasson	061	06	2229	0.0720
Water Body	Jinnahgarh	084	02(1st	1095	0.1353
Water Body	Dakshin Char Fasson	061	06	2227	0.0115
Water Body	Dakshin Char Fasson	061	06	2227	0.0702
Water Body	Dakshin Char Fasson	061	06	2264	0.0271
Water Body	Dakshin Char Fasson	061	06	2264	0.0045
Water Body	Dakshin Char Fasson	061	06	2264	0.2248
Water Body	Dakshin Char Fasson	061	06	2264	0.0051
Water Body	Dakshin Char Fasson	061	06	2268	0.0476
Water Body	Uttar Char Madras	085	01	127	0.2246
Water Body	Uttar Char Madras	085	01	127	0.0103
Water Body	Uttar Char Madras	085	01	127	0.0084
Water Body	Uttar Char Madras	085	01	127	0.2185
Water Body	Uttar Char Madras	085	01	127	0.1369
Water Body	Uttar Char Madras	085	01	127	0.1076
Water Body	Uttar Char Madras	085	01	127	0.2201
Water Body	Uttar Char Madras	085	01	127	0.1607
Water Body	Uttar Char Madras	085	01	127	0.1561
Water Body	Uttar Char Madras	085	01	127	0.2198
Water Body	Uttar Char Madras	085	01	127	0.0927
Water Body	Uttar Char Madras	085	01	127	0.0823
Water Body	Dakshin Char Fasson	061	06	2226	0.0078
Water Body	Dakshin Char Fasson	061	06	2226	0.1028
Water Body	Dakshin Char Fasson	061	06	2225	0.0188
Water Body	Jinnahgarh	084	02(1st	1096	0.0567
Water Body	Uttar Char Madras	085	01	587	0.0279
Water Body	Jinnahgarh	084	02(1st	1101	0.0033
Water Body	Dakshin Char Fasson	061	06	2261	0.0489
Water Body	Jinnahgarh	084	01	314	0.0309
Water Body	Jinnahgarh	084	01	314	0.2520
Water Body	Jinnahgarh	084	01	314	0.7064
Water Body	Dakshin Char Fasson	061	06	2252	0.0112
Water Body	Uttar Char Madras	085	01	284	0.1578
Water Body	Uttar Char Madras	085	01	284	0.1100
Water Body	Dakshin Char Fasson	061	06	2253	0.2919
Water Body	Uttar Char Madras	085	01	609	2.6187
Water Body	Uttar Char Madras	085	01	597	0.0230
Water Body	Uttar Char Madras	085	01	597	0.0121
Water Body	Uttar Char Madras	085	01	133	0.0389
Water Body	Uttar Char Madras	085	01	133	0.0160
Water Body	Uttar Char Madras	085	01	585	0.0818
Water Body	Uttar Char Madras	085	01	585	0.0345
Water Body	Jinnahgarh	084	02(1st	1135	0.0262
Water Body	Uttar Char Madras	085	01	598	0.0017
Water Body	Uttar Char Madras	085	01	596	0.0136
Water Body	Uttar Char Madras	085	01	591	0.0030
Water Body	Jinnahgarh	084	02(1st	1141	0.0586
Water Body	Jinnahgarh	084	01	321	0.0066
Water Body	Jinnahgarh	084	01	321	0.2927
Water Body	Jinnahgarh	084	01	321	0.0518
Water Body	Jinnahgarh	084	01	321	0.0356

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	01	321	0.2589
Water Body	Jinnahgarh	084	01	321	0.0533
Water Body	Jinnahgarh	084	01	321	0.1707
Water Body	Jinnahgarh	084	01	321	0.0131
Water Body	Jinnahgarh	084	01	321	0.0587
Water Body	Jinnahgarh	084	01	321	0.0502
Water Body	Jinnahgarh	084	01	321	0.0593
Water Body	Jinnahgarh	084	01	321	0.0177
Water Body	Jinnahgarh	084	02(1st	1094	0.0505
Water Body	Uttar Char Madras	085	01	232	0.0140
Water Body	Dakshin Char Fasson	061	06	2263	0.0007
Water Body	Dakshin Char Fasson	061	06	2263	0.1099
Water Body	Uttar Char Madras	085	01	607	0.3669
Water Body	Dakshin Char Fasson	061	06	2319	0.1745
Water Body	Jinnahgarh	084	02(1st	1092	0.0074
Water Body	Jinnahgarh	084	02(1st	1092	0.0821
Water Body	Dakshin Char Fasson	061	06	2323	0.0381
Water Body	Dakshin Char Fasson	061	06	2323	0.0168
Water Body	Dakshin Char Fasson	061	06	2323	0.0238
Water Body	Dakshin Char Fasson	061	06	2323	0.0408
Water Body	Dakshin Char Fasson	061	06	2231	0.0013
Water Body	Dakshin Char Fasson	061	06	99999	0.0391
Water Body	Jinnahgarh	084	02(1st	1125	0.3345
Water Body	Uttar Char Madras	085	01	589	0.0233
Water Body	Uttar Char Madras	085	01	589	0.0005
Water Body	Uttar Char Madras	085	01	589	0.1497
Water Body	Uttar Char Madras	085	01	589	0.1259
Water Body	Uttar Char Madras	085	01	595	0.1022
Water Body	Uttar Char Madras	085	01	595	0.1157
Water Body	Uttar Char Madras	085	01	593	0.0362
Water Body	Uttar Char Madras	085	01	593	0.1489
Water Body	Uttar Char Madras	085	01	128	0.0153
Water Body	Uttar Char Madras	085	01	606	0.0426
Water Body	Uttar Char Madras	085	01	602	0.1189
Water Body	Jinnahgarh	084	02(1st	1130	0.0060
Water Body	Jinnahgarh	084	02(1st	1128	0.0283
Water Body	Jinnahgarh	084	02(1st	1279	0.0281
Water Body	Jinnahgarh	084	02(1st	1093	0.0920
Water Body	Jinnahgarh	084	02(1st	1295	0.0288
Water Body	Jinnahgarh	084	01	320	0.0509
Water Body	Jinnahgarh	084	01	320	0.0519
Water Body	Jinnahgarh	084	01	320	0.2083
Water Body	Jinnahgarh	084	01	320	0.2271
Water Body	Jinnahgarh	084	01	320	0.0661
Water Body	Jinnahgarh	084	02(1st	1100	0.0072
Water Body	Jinnahgarh	084	02(1st	1100	0.2727
Water Body	Jinnahgarh	084	02(1st	1296	0.0781
Water Body	Jinnahgarh	084	02(1st	1103	0.2606
Water Body	Jinnahgarh	084	02(1st	1129	0.3111
Water Body	Jinnahgarh	084	02(1st	1132	0.0339
Water Body	Dakshin Char Fasson	061	06	2311	0.0289
Water Body	Dakshin Char Fasson	061	06	2311	0.0264
Water Body	Dakshin Char Fasson	061	06	2311	0.0258
Water Body	Dakshin Char Fasson	061	06	2311	0.0052
Water Body	Uttar Char Madras	085	01	600	0.1337
Water Body	Jinnahgarh	084	02(1st	1299	0.1032
Water Body	Jinnahgarh	084	02(1st	1299	0.1999
Water Body	Jinnahgarh	084	02(1st	1299	0.0015
Water Body	Dakshin Char Fasson	061	06	2267	0.0361
Water Body	Jinnahgarh	084	02(1st	1136	0.0020
Water Body	Jinnahgarh	084	02(1st	1136	0.0125
Water Body	Uttar Char Madras	085	01	601	0.1889
Water Body	Uttar Char Madras	085	01	601	0.1822
Water Body	Uttar Char Madras	085	01	601	0.0124
Water Body	Uttar Char Madras	085	01	679	0.0273
Water Body	Jinnahgarh	084	02(1st	1302	0.0000
Water Body	Jinnahgarh	084	02(1st	1302	0.0841
Water Body	Uttar Char Madras	085	01	584	0.0013
Water Body	Uttar Char Madras	085	01	53	0.2297
Water Body	Jinnahgarh	084	02(1st	1294	0.0601

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	02(1st	1309	0.0811
Water Body	Jinnahgarh	084	02(1st	1309	0.2017
Water Body	Jinnahgarh	084	02(1st	1309	0.0165
Water Body	Jinnahgarh	084	02(1st	1309	0.0190
Water Body	Jinnahgarh	084	02(1st	1309	0.1479
Water Body	Jinnahgarh	084	02(1st	1303	0.0999
Water Body	Jinnahgarh	084	02(1st	1133	0.3464
Water Body	Uttar Char Madras	085	01	605	0.0165
Water Body	Uttar Char Madras	085	01	605	0.0506
Water Body	Uttar Char Madras	085	01	605	0.0901
Water Body	Uttar Char Madras	085	01	605	0.0179
Water Body	Jinnahgarh	084	02(1st	1307	0.1362
Water Body	Uttar Char Madras	085	01	54	0.3508
Water Body	Jinnahgarh	084	02(1st	1137	0.2584
Water Body	Jinnahgarh	084	02(1st	1308	0.0053
Water Body	Jinnahgarh	084	02(1st	1502	0.0022
Water Body	Jinnahgarh	084	02(1st	1502	0.0026
Water Body	Jinnahgarh	084	02(1st	1502	0.0316
Water Body	Jinnahgarh	084	02(1st	1143	0.0352
Water Body	Jinnahgarh	084	02(1st	1310	0.0378
Water Body	Jinnahgarh	084	02(1st	1310	0.0299
Water Body	Uttar Char Madras	085	01	590	0.1027
Water Body	Jinnahgarh	084	02(1st	1087	0.0007
Water Body	Jinnahgarh	084	02(1st	1297	0.0052
Water Body	Jinnahgarh	084	02(1st	1297	0.1705
Water Body	Jinnahgarh	084	02(1st	1088	0.0034
Water Body	Jinnahgarh	084	02(1st	1088	0.0008
Water Body	Jinnahgarh	084	02(1st	1139	0.0001
Water Body	Jinnahgarh	084	02(1st	1090	0.0546
Water Body	Jinnahgarh	084	02(1st	1314	0.0126
Water Body	Jinnahgarh	084	02(1st	1314	0.1218
Water Body	Jinnahgarh	084	02(1st	1314	0.0610
Water Body	Jinnahgarh	084	02(1st	1314	0.0006
Water Body	Jinnahgarh	084	02(1st	1144	0.2774
Water Body	Jinnahgarh	084	02(1st	1293	0.0015
Water Body	Uttar Char Madras	085	01	123	0.1680
Water Body	Uttar Char Madras	085	01	123	0.0208
Water Body	Jinnahgarh	084	02(1st	1292	0.0012
Water Body	Jinnahgarh	084	02(1st	1292	0.1142
Water Body	Jinnahgarh	084	02(1st	1325	0.0442
Water Body	Jinnahgarh	084	02(1st	1325	0.0602
Water Body	Jinnahgarh	084	02(1st	1325	0.3207
Water Body	Jinnahgarh	084	02(1st	1325	0.2172
Water Body	Jinnahgarh	084	02(1st	1325	0.2808
Water Body	Jinnahgarh	084	02(1st	1325	0.1969
Water Body	Jinnahgarh	084	02(1st	1325	0.1363
Water Body	Jinnahgarh	084	02(1st	1311	0.2163
Water Body	Uttar Char Madras	085	01	126	0.0124
Water Body	Uttar Char Madras	085	01	126	0.0345
Water Body	Uttar Char Madras	085	01	126	0.0315
Water Body	Dakshin Char Fasson	061	06	2266	0.0652
Water Body	Jinnahgarh	084	02(1st	1306	0.0712
Water Body	Uttar Char Madras	085	01	56	0.1919
Water Body	Uttar Char Madras	085	01	56	0.2794
Water Body	Uttar Char Madras	085	01	56	0.1066
Water Body	Uttar Char Madras	085	01	56	0.0687
Water Body	Uttar Char Madras	085	01	56	0.2004
Water Body	Jinnahgarh	084	02(1st	1089	0.1175
Water Body	Jinnahgarh	084	02(1st	1124	0.0150
Water Body	Dakshin Char Fasson	061	06	2232	0.1673
Water Body	Dakshin Char Fasson	061	06	2232	0.2131
Water Body	Dakshin Char Fasson	061	06	2232	0.0794
Water Body	Dakshin Char Fasson	061	06	2232	0.0321
Water Body	Dakshin Char Fasson	061	06	2232	0.0460
Water Body	Uttar Char Madras	085	01	610	0.1009
Water Body	Uttar Char Madras	085	01	610	0.0425
Water Body	Uttar Char Madras	085	01	610	0.0050
Water Body	Uttar Char Madras	085	01	228	0.0495
Water Body	Uttar Char Madras	085	01	228	0.0283
Water Body	Uttar Char Madras	085	01	228	0.0152

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	228	0.2518
Water Body	Uttar Char Madras	085	01	228	0.0253
Water Body	Uttar Char Madras	085	01	228	0.0261
Water Body	Uttar Char Madras	085	01	228	0.1486
Water Body	Uttar Char Madras	085	01	228	0.0097
Water Body	Uttar Char Madras	085	01	228	0.0370
Water Body	Dakshin Char Fasson	061	06	2233	0.0839
Water Body	Dakshin Char Fasson	061	06	2233	0.0118
Water Body	Dakshin Char Fasson	061	06	2234	0.0360
Water Body	Jinnahgarh	084	02(1st	1301	0.1383
Water Body	Dakshin Char Fasson	061	06	2235	0.0504
Water Body	Dakshin Char Fasson	061	06	2235	0.2477
Water Body	Dakshin Char Fasson	061	06	2235	0.1254
Water Body	Dakshin Char Fasson	061	06	2235	0.0001
Water Body	Dakshin Char Fasson	061	06	2236	0.0965
Water Body	Dakshin Char Fasson	061	06	2236	0.0337
Water Body	Dakshin Char Fasson	061	06	2236	0.0644
Water Body	Dakshin Char Fasson	061	06	2236	0.2845
Water Body	Dakshin Char Fasson	061	06	2236	0.1866
Water Body	Dakshin Char Fasson	061	06	2236	0.0295
Water Body	Dakshin Char Fasson	061	06	2236	0.0177
Water Body	Dakshin Char Fasson	061	06	2236	0.0009
Water Body	Dakshin Char Fasson	061	06	2243	0.1958
Water Body	Dakshin Char Fasson	061	06	2243	0.0058
Water Body	Dakshin Char Fasson	061	06	2242	0.0214
Water Body	Jinnahgarh	084	02(1st	1106	0.0141
Water Body	Jinnahgarh	084	02(1st	1304	0.0599
Water Body	Dakshin Char Fasson	061	06	2241	0.0549
Water Body	Jinnahgarh	084	02(1st	1298	0.0481
Water Body	Jinnahgarh	084	02(1st	99999	0.0024
Water Body	Jinnahgarh	084	02(1st	99999	0.0199
Water Body	Jinnahgarh	084	02(1st	1121	0.0342
Water Body	Jinnahgarh	084	02(1st	1121	0.0395
Water Body	Jinnahgarh	084	02(1st	1107	0.1569
Water Body	Jinnahgarh	084	02(1st	1300	0.0518
Water Body	Jinnahgarh	084	01	368	0.2835
Water Body	Jinnahgarh	084	01	368	0.0177
Water Body	Jinnahgarh	084	02(1st	1318	0.1988
Water Body	Jinnahgarh	084	02(1st	1158	0.1776
Water Body	Jinnahgarh	084	02(1st	1158	0.0002
Water Body	Jinnahgarh	084	02(1st	1158	0.2791
Water Body	Jinnahgarh	084	02(1st	1158	1.2443
Water Body	Uttar Char Madras	085	01	582	0.0291
Water Body	Jinnahgarh	084	02(1st	1074	0.1029
Water Body	Jinnahgarh	084	02(1st	1075	0.0172
Water Body	Uttar Char Madras	085	01	680	0.0213
Water Body	Uttar Char Madras	085	01	680	0.0293
Water Body	Jinnahgarh	084	02(1st	1081	0.0180
Water Body	Jinnahgarh	084	02(1st	1317	0.0343
Water Body	Jinnahgarh	084	02(1st	1183	0.1605
Water Body	Jinnahgarh	084	02(1st	1183	0.0661
Water Body	Jinnahgarh	084	02(1st	1315	0.0342
Water Body	Jinnahgarh	084	02(1st	1315	0.1333
Water Body	Uttar Char Madras	085	01	603	0.0024
Water Body	Uttar Char Madras	085	01	226	0.0316
Water Body	Uttar Char Madras	085	01	226	0.0091
Water Body	Uttar Char Madras	085	01	226	0.0005
Water Body	Uttar Char Madras	085	01	604	0.0492
Water Body	Uttar Char Madras	085	01	594	0.0076
Water Body	Jinnahgarh	084	02(1st	1076	0.0295
Water Body	Jinnahgarh	084	02(1st	1079	0.0172
Water Body	Jinnahgarh	084	01	322	0.1154
Water Body	Jinnahgarh	084	01	322	0.0372
Water Body	Jinnahgarh	084	01	322	0.0091
Water Body	Jinnahgarh	084	02(1st	1080	0.0181
Water Body	Jinnahgarh	084	02(1st	1283	0.0524
Water Body	Jinnahgarh	084	02(1st	1283	0.1618
Water Body	Jinnahgarh	084	02(1st	1283	0.1454
Water Body	Jinnahgarh	084	02(1st	1283	0.0037
Water Body	Jinnahgarh	084	02(1st	1283	0.2061

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	02(1st	1111	0.0111
Water Body	Uttar Char Madras	085	01	270	0.0043
Water Body	Jinnahgarh	084	02(1st	1113	0.2810
Water Body	Uttar Char Madras	085	01	50	0.1487
Water Body	Jinnahgarh	084	02(1st	1287	0.0744
Water Body	Jinnahgarh	084	02(1st	1077	0.0244
Water Body	Uttar Char Madras	085	01	222	0.0235
Water Body	Uttar Char Madras	085	01	222	0.0021
Water Body	Jinnahgarh	084	02(1st	1078	0.0012
Water Body	Uttar Char Madras	085	01	51	0.3166
Water Body	Jinnahgarh	084	01	323	0.0121
Water Body	Jinnahgarh	084	01	323	0.0279
Water Body	Jinnahgarh	084	01	323	0.0411
Water Body	Jinnahgarh	084	01	323	0.2182
Water Body	Jinnahgarh	084	01	323	0.0131
Water Body	Jinnahgarh	084	01	323	0.0546
Water Body	Jinnahgarh	084	01	323	0.1484
Water Body	Jinnahgarh	084	01	323	0.0000
Water Body	Jinnahgarh	084	01	323	0.0300
Water Body	Jinnahgarh	084	02(1st	1321	0.0926
Water Body	Jinnahgarh	084	02(1st	1321	0.1059
Water Body	Jinnahgarh	084	02(1st	1321	0.0367
Water Body	Jinnahgarh	084	02(1st	1321	0.1650
Water Body	Jinnahgarh	084	02(1st	1321	0.2311
Water Body	Jinnahgarh	084	02(1st	1321	0.1493
Water Body	Jinnahgarh	084	02(1st	1321	0.1823
Water Body	Jinnahgarh	084	02(1st	1321	0.0628
Water Body	Jinnahgarh	084	02(1st	1321	0.1556
Water Body	Jinnahgarh	084	02(1st	1321	0.1332
Water Body	Uttar Char Madras	085	01	612	0.0039
Water Body	Uttar Char Madras	085	01	612	0.0638
Water Body	Uttar Char Madras	085	01	612	0.1000
Water Body	Uttar Char Madras	085	01	612	0.0716
Water Body	Jinnahgarh	084	02(1st	1110	0.1213
Water Body	Dakshin Char Fasson	061	06	2238	0.1650
Water Body	Dakshin Char Fasson	061	06	2238	0.1549
Water Body	Dakshin Char Fasson	061	06	2238	0.0931
Water Body	Uttar Char Madras	085	01	58	0.0019
Water Body	Jinnahgarh	084	02(1st	1159	0.0021
Water Body	Jinnahgarh	084	02(1st	1319	0.0918
Water Body	Uttar Char Madras	085	01	152	0.0033
Water Body	Uttar Char Madras	085	01	152	0.0196
Water Body	Uttar Char Madras	085	01	152	0.0119
Water Body	Jinnahgarh	084	02(1st	1005	0.0291
Water Body	Dakshin Char Fasson	061	06	2237	0.1522
Water Body	Uttar Char Madras	085	01	611	0.4692
Water Body	Jinnahgarh	084	01	367	0.0746
Water Body	Uttar Char Madras	085	01	57	0.1533
Water Body	Jinnahgarh	084	02(1st	1288	0.4467
Water Body	Uttar Char Madras	085	01	143	0.1775
Water Body	Uttar Char Madras	085	01	143	0.0280
Water Body	Uttar Char Madras	085	01	143	0.0971
Water Body	Uttar Char Madras	085	01	143	0.0407
Water Body	Uttar Char Madras	085	01	143	0.0182
Water Body	Uttar Char Madras	085	01	52	0.0024
Water Body	Uttar Char Madras	085	01	74	0.0082
Water Body	Uttar Char Madras	085	01	74	0.0905
Water Body	Jinnahgarh	084	02(1st	1066	0.0014
Water Body	Uttar Char Madras	085	01	213	0.1396
Water Body	Uttar Char Madras	085	01	213	0.0283
Water Body	Uttar Char Madras	085	01	213	0.0003
Water Body	Jinnahgarh	084	02(1st	1320	0.0294
Water Body	Jinnahgarh	084	02(1st	1112	0.0673
Water Body	Uttar Char Madras	085	01	70	0.0462
Water Body	Uttar Char Madras	085	01	70	0.0010
Water Body	Uttar Char Madras	085	01	70	0.3449
Water Body	Uttar Char Madras	085	01	145	0.0107
Water Body	Jinnahgarh	084	01	278	0.0742
Water Body	Jinnahgarh	084	01	278	0.0534
Water Body	Jinnahgarh	084	01	278	0.1460

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	01	278	0.0315
Water Body	Jinnahgarh	084	02(1st	99999	0.0582
Water Body	Jinnahgarh	084	02(1st	1115	0.0000
Water Body	Jinnahgarh	084	02(1st	1115	0.3245
Water Body	Uttar Char Madras	085	01	35	0.2254
Water Body	Jinnahgarh	084	02(1st	1068	0.0004
Water Body	Uttar Char Madras	085	01	46	0.5241
Water Body	Uttar Char Madras	085	01	631	0.0538
Water Body	Uttar Char Madras	085	01	146	0.0080
Water Body	Jinnahgarh	084	02(1st	1064	0.0987
Water Body	Jinnahgarh	084	02(1st	1065	0.0857
Water Body	Jinnahgarh	084	02(1st	1065	0.1662
Water Body	Uttar Char Madras	085	01	220	0.1537
Water Body	Uttar Char Madras	085	01	220	0.1908
Water Body	Uttar Char Madras	085	01	220	0.0014
Water Body	Uttar Char Madras	085	01	220	0.0299
Water Body	Uttar Char Madras	085	01	45	0.0723
Water Body	Jinnahgarh	084	02(1st	1282	0.0338
Water Body	Jinnahgarh	084	02(1st	1282	0.4122
Water Body	Jinnahgarh	084	02(1st	1282	0.0665
Water Body	Jinnahgarh	084	01	270	0.2508
Water Body	Jinnahgarh	084	01	270	0.0677
Water Body	Jinnahgarh	084	01	270	0.0807
Water Body	Jinnahgarh	084	01	270	0.0425
Water Body	Jinnahgarh	084	01	270	0.0566
Water Body	Jinnahgarh	084	01	270	0.0017
Water Body	Jinnahgarh	084	01	270	0.1442
Water Body	Uttar Char Madras	085	01	644	0.4063
Water Body	Uttar Char Madras	085	01	644	0.1649
Water Body	Uttar Char Madras	085	01	61	0.0977
Water Body	Uttar Char Madras	085	01	61	0.0230
Water Body	Uttar Char Madras	085	01	78	0.1419
Water Body	Jinnahgarh	084	02(1st	1116	0.0510
Water Body	Jinnahgarh	084	02(1st	1157	0.0001
Water Body	Jinnahgarh	084	02(1st	1157	0.5170
Water Body	Uttar Char Madras	085	01	62	0.0184
Water Body	Uttar Char Madras	085	01	62	0.0954
Water Body	Jinnahgarh	084	01	324	0.0339
Water Body	Uttar Char Madras	085	01	147	0.1575
Water Body	Jinnahgarh	084	02(1st	1280	0.0033
Water Body	Jinnahgarh	084	02(1st	1280	0.0498
Water Body	Jinnahgarh	084	02(1st	1280	0.3085
Water Body	Jinnahgarh	084	02(1st	1280	0.3660
Water Body	Jinnahgarh	084	02(1st	1062	0.0870
Water Body	Uttar Char Madras	085	01	629	0.0377
Water Body	Uttar Char Madras	085	01	44	0.2832
Water Body	Uttar Char Madras	085	01	44	0.1733
Water Body	Jinnahgarh	084	02(1st	1191	0.0299
Water Body	Jinnahgarh	084	02(1st	1191	0.0148
Water Body	Uttar Char Madras	085	01	148	0.2041
Water Body	Uttar Char Madras	085	01	628	0.1274
Water Body	Jinnahgarh	084	02(1st	1189	0.0192
Water Body	Uttar Char Madras	085	01	627	0.1641
Water Body	Uttar Char Madras	085	01	626	0.6091
Water Body	Uttar Char Madras	085	01	119	0.0149
Water Body	Uttar Char Madras	085	01	119	0.0096
Water Body	Uttar Char Madras	085	01	40	0.0253
Water Body	Jinnahgarh	084	02(1st	1188	0.0271
Water Body	Uttar Char Madras	085	01	625	0.0051
Water Body	Uttar Char Madras	085	01	36	0.3454
Water Body	Jinnahgarh	084	02(1st	1192	0.1404
Water Body	Jinnahgarh	084	02(1st	1190	0.4136
Water Body	Uttar Char Madras	085	01	117	0.1882
Water Body	Uttar Char Madras	085	01	117	0.0858
Water Body	Uttar Char Madras	085	01	117	0.0812
Water Body	Uttar Char Madras	085	01	117	0.0235
Water Body	Uttar Char Madras	085	01	117	0.0012
Water Body	Jinnahgarh	084	02(1st	1006	0.0236
Water Body	Jinnahgarh	084	02(1st	1186	0.0085
Water Body	Jinnahgarh	084	02(1st	1186	0.0772

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	02(1st	1169	0.5004
Water Body	Uttar Char Madras	085	01	632	0.0400
Water Body	Uttar Char Madras	085	01	632	0.1299
Water Body	Uttar Char Madras	085	01	37	0.0035
Water Body	Jinnahgarh	084	02(1st	1010	0.0770
Water Body	Jinnahgarh	084	02(1st	1010	0.0565
Water Body	Jinnahgarh	084	02(1st	1010	0.2137
Water Body	Jinnahgarh	084	02(1st	1010	0.0473
Water Body	Jinnahgarh	084	02(1st	1010	0.1248
Water Body	Jinnahgarh	084	02(1st	1010	0.0784
Water Body	Jinnahgarh	084	02(1st	1010	0.0541
Water Body	Jinnahgarh	084	02(1st	1010	0.0790
Water Body	Jinnahgarh	084	02(1st	1058	0.0531
Water Body	Jinnahgarh	084	02(1st	1059	0.0056
Water Body	Uttar Char Madras	085	01	118	0.0866
Water Body	Uttar Char Madras	085	01	118	0.1546
Water Body	Uttar Char Madras	085	01	39	0.2481
Water Body	Uttar Char Madras	085	01	39	0.2382
Water Body	Jinnahgarh	084	02(1st	1009	0.0145
Water Body	Jinnahgarh	084	02(1st	1009	0.0487
Water Body	Jinnahgarh	084	02(1st	1009	0.0333
Water Body	Jinnahgarh	084	02(1st	1170	0.1649
Water Body	Jinnahgarh	084	02(1st	1170	0.7174
Water Body	Uttar Char Madras	085	01	615	0.0868
Water Body	Uttar Char Madras	085	01	615	0.0354
Water Body	Uttar Char Madras	085	01	615	0.0569
Water Body	Uttar Char Madras	085	01	615	0.0865
Water Body	Uttar Char Madras	085	01	615	0.0019
Water Body	Uttar Char Madras	085	01	615	0.0184
Water Body	Uttar Char Madras	085	01	615	0.0199
Water Body	Uttar Char Madras	085	01	615	0.0128
Water Body	Jinnahgarh	084	02(1st	1008	0.2007
Water Body	Jinnahgarh	084	02(1st	1184	0.1253
Water Body	Jinnahgarh	084	02(1st	1329	0.0001
Water Body	Uttar Char Madras	085	01	34	0.1202
Water Body	Uttar Char Madras	085	01	219	0.0162
Water Body	Jinnahgarh	084	02(1st	1193	0.1125
Water Body	Uttar Char Madras	085	01	153	0.0219
Water Body	Jinnahgarh	084	01	277	0.1275
Water Body	Jinnahgarh	084	02(1st	1322	0.2094
Water Body	Jinnahgarh	084	02(1st	1276	0.0845
Water Body	Jinnahgarh	084	02(1st	1057	0.1729
Water Body	Jinnahgarh	084	02(1st	1057	0.0036
Water Body	Uttar Char Madras	085	01	99999	0.0325
Water Body	Uttar Char Madras	085	01	99999	0.1446
Water Body	Uttar Char Madras	085	01	99999	0.0418
Water Body	Uttar Char Madras	085	01	99999	0.0426
Water Body	Uttar Char Madras	085	01	99999	0.0628
Water Body	Jinnahgarh	084	02(1st	1274	0.1882
Water Body	Jinnahgarh	084	02(1st	1056	0.0000
Water Body	Jinnahgarh	084	02(1st	1196	0.2928
Water Body	Jinnahgarh	084	02(1st	1194	0.0956
Water Body	Jinnahgarh	084	02(1st	1185	0.3585
Water Body	Jinnahgarh	084	02(1st	1185	0.0272
Water Body	Uttar Char Madras	085	01	2	0.0262
Water Body	Uttar Char Madras	085	01	2	0.0356
Water Body	Uttar Char Madras	085	01	3	0.0558
Water Body	Uttar Char Madras	085	01	3	0.0051
Water Body	Jinnahgarh	084	02(1st	1323	0.0098
Water Body	Jinnahgarh	084	02(1st	1323	0.1552
Water Body	Jinnahgarh	084	02(1st	1323	0.0249
Water Body	Jinnahgarh	084	02(1st	1323	0.0531
Water Body	Jinnahgarh	084	02(1st	1323	0.1001
Water Body	Uttar Char Madras	085	01	150	0.0016
Water Body	Jinnahgarh	084	01	276	0.0818
Water Body	Uttar Char Madras	085	01	99999	0.5261
Water Body	Uttar Char Madras	085	01	99999	0.4552
Water Body	Uttar Char Madras	085	01	99999	0.0413
Water Body	Jinnahgarh	084	01	272	0.0604
Water Body	Jinnahgarh	084	01	271	0.0464

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	02(1st	99999	0.0410
Water Body	Uttar Char Madras	085	01	207	0.1103
Water Body	Uttar Char Madras	085	01	207	0.1246
Water Body	Uttar Char Madras	085	01	207	0.1596
Water Body	Uttar Char Madras	085	01	5	0.0615
Water Body	Uttar Char Madras	085	01	5	0.0110
Water Body	Uttar Char Madras	085	01	5	0.0579
Water Body	Uttar Char Madras	085	01	218	0.0000
Water Body	Jinnahgarh	084	02(1st	1054	0.1235
Water Body	Jinnahgarh	084	01	327	0.1632
Water Body	Jinnahgarh	084	01	327	0.2049
Water Body	Jinnahgarh	084	01	327	0.1430
Water Body	Jinnahgarh	084	01	327	0.1824
Water Body	Jinnahgarh	084	01	327	0.1386
Water Body	Jinnahgarh	084	01	327	0.0245
Water Body	Jinnahgarh	084	02(1st	1055	0.0138
Water Body	Uttar Char Madras	085	01	6	0.0119
Water Body	Uttar Char Madras	085	01	7	0.0259
Water Body	Uttar Char Madras	085	01	646	0.1270
Water Body	Uttar Char Madras	085	01	166	0.0626
Water Body	Uttar Char Madras	085	01	166	0.0894
Water Body	Uttar Char Madras	085	01	166	0.1476
Water Body	Uttar Char Madras	085	01	166	0.1145
Water Body	Uttar Char Madras	085	01	166	0.0614
Water Body	Uttar Char Madras	085	01	166	0.1462
Water Body	Uttar Char Madras	085	01	9	0.0674
Water Body	Uttar Char Madras	085	01	9	0.1581
Water Body	Uttar Char Madras	085	01	10	0.1674
Water Body	Uttar Char Madras	085	01	10	0.5795
Water Body	Jinnahgarh	084	02(1st	1171	0.0112
Water Body	Jinnahgarh	084	02(1st	1171	0.1217
Water Body	Jinnahgarh	084	02(2nd	3105	0.2459
Water Body	Jinnahgarh	084	02(1st	1273	0.0168
Water Body	Jinnahgarh	084	02(1st	1202	0.0769
Water Body	Jinnahgarh	084	02(1st	1177	0.0001
Water Body	Uttar Char Madras	085	01	154	0.0267
Water Body	Jinnahgarh	084	01	329	0.0112
Water Body	Uttar Char Madras	085	01	155	0.0054
Water Body	Uttar Char Madras	085	01	155	0.0672
Water Body	Jinnahgarh	084	02(1st	1199	0.0000
Water Body	Jinnahgarh	084	02(1st	1199	0.0038
Water Body	Jinnahgarh	084	02(2nd	3242	0.0225
Water Body	Jinnahgarh	084	02(1st	1181	0.0718
Water Body	Jinnahgarh	084	02(1st	1011	0.0116
Water Body	Jinnahgarh	084	02(1st	1011	0.0080
Water Body	Jinnahgarh	084	02(1st	1011	0.0056
Water Body	Jinnahgarh	084	02(1st	1011	0.0110
Water Body	Jinnahgarh	084	02(1st	1011	0.0148
Water Body	Jinnahgarh	084	01	331	0.0239
Water Body	Jinnahgarh	084	01	331	0.0202
Water Body	Jinnahgarh	084	01	331	0.3074
Water Body	Jinnahgarh	084	01	331	0.1003
Water Body	Uttar Char Madras	085	01	64	0.2442
Water Body	Uttar Char Madras	085	01	64	0.0163
Water Body	Uttar Char Madras	085	01	156	0.0022
Water Body	Uttar Char Madras	085	01	156	0.0060
Water Body	Jinnahgarh	084	01	275	0.0111
Water Body	Jinnahgarh	084	01	275	0.0181
Water Body	Jinnahgarh	084	02(1st	1198	0.0002
Water Body	Jinnahgarh	084	02(1st	1176	0.0096
Water Body	Jinnahgarh	084	01	273	0.0592
Water Body	Jinnahgarh	084	02(1st	1201	0.0954
Water Body	Jinnahgarh	084	02(2nd	3243	0.0800
Water Body	Jinnahgarh	084	02(1st	1200	0.0014
Water Body	Jinnahgarh	084	02(1st	1200	0.3587
Water Body	Uttar Char Madras	085	01	574	0.0260
Water Body	Jinnahgarh	084	01	274	0.2980
Water Body	Jinnahgarh	084	02(1st	1272	0.6036
Water Body	Jinnahgarh	084	02(1st	1013	0.0200
Water Body	Jinnahgarh	084	02(1st	1013	0.1063



Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	02(1st	1013	0.0388
Water Body	Jinnahgarh	084	02(1st	1013	0.0666
Water Body	Jinnahgarh	084	02(1st	1013	0.0927
Water Body	Jinnahgarh	084	02(1st	1013	0.0090
Water Body	Jinnahgarh	084	02(1st	1013	0.0751
Water Body	Jinnahgarh	084	02(1st	1013	0.0760
Water Body	Jinnahgarh	084	02(1st	1013	0.0308
Water Body	Jinnahgarh	084	02(1st	1013	0.1522
Water Body	Jinnahgarh	084	02(1st	1013	0.0057
Water Body	Jinnahgarh	084	02(1st	1013	0.0172
Water Body	Jinnahgarh	084	02(1st	1013	0.0403
Water Body	Jinnahgarh	084	02(1st	1013	0.0921
Water Body	Jinnahgarh	084	02(1st	1013	0.1137
Water Body	Uttar Char Madras	085	01	43	0.0494
Water Body	Jinnahgarh	084	02(1st	1047	0.0664
Water Body	Jinnahgarh	084	02(1st	1048	0.0461
Water Body	Jinnahgarh	084	02(1st	1182	0.0592
Water Body	Jinnahgarh	084	02(1st	1205	0.0223
Water Body	Jinnahgarh	084	01	266	0.0522
Water Body	Jinnahgarh	084	01	266	0.1385
Water Body	Jinnahgarh	084	01	266	0.0219
Water Body	Jinnahgarh	084	01	266	0.3183
Water Body	Uttar Char Madras	085	01	41	0.0218
Water Body	Jinnahgarh	084	02(1st	1334	0.0002
Water Body	Jinnahgarh	084	02(1st	1261	0.0013
Water Body	Jinnahgarh	084	02(1st	1207	0.0001
Water Body	Jinnahgarh	084	02(1st	1258	0.0005
Water Body	Jinnahgarh	084	02(1st	1258	0.1878
Water Body	Jinnahgarh	084	02(1st	1258	0.0211
Water Body	Jinnahgarh	084	02(1st	1258	0.0260
Water Body	Uttar Char Madras	085	01	26	0.1229
Water Body	Uttar Char Madras	085	01	26	0.2192
Water Body	Uttar Char Madras	085	01	26	0.0049
Water Body	Uttar Char Madras	085	01	26	0.1809
Water Body	Uttar Char Madras	085	01	26	0.1726
Water Body	Uttar Char Madras	085	01	26	0.1023
Water Body	Uttar Char Madras	085	01	26	0.0672
Water Body	Jinnahgarh	084	02(1st	1206	0.4219
Water Body	Jinnahgarh	084	02(1st	1044	0.1037
Water Body	Jinnahgarh	084	02(1st	1333	0.0005
Water Body	Jinnahgarh	084	02(1st	1053	0.0623
Water Body	Uttar Char Madras	085	01	28	0.1150
Water Body	Uttar Char Madras	085	01	28	0.0141
Water Body	Uttar Char Madras	085	01	28	0.1960
Water Body	Uttar Char Madras	085	01	68	0.0153
Water Body	Uttar Char Madras	085	01	68	0.0827
Water Body	Uttar Char Madras	085	01	42	0.0426
Water Body	Uttar Char Madras	085	01	29	0.1190
Water Body	Jinnahgarh	084	01	269	0.0003
Water Body	Jinnahgarh	084	01	269	0.1477
Water Body	Jinnahgarh	084	01	269	0.0504
Water Body	Jinnahgarh	084	01	269	0.0746
Water Body	Jinnahgarh	084	01	269	0.0646
Water Body	Jinnahgarh	084	01	269	0.0000
Water Body	Jinnahgarh	084	01	269	0.1204
Water Body	Uttar Char Madras	085	01	30	0.0471
Water Body	Uttar Char Madras	085	01	116	0.0464
Water Body	Uttar Char Madras	085	01	116	0.3000
Water Body	Uttar Char Madras	085	01	116	0.1083
Water Body	Uttar Char Madras	085	01	66	0.0300
Water Body	Uttar Char Madras	085	01	65	0.0982
Water Body	Uttar Char Madras	085	01	65	0.1177
Water Body	Uttar Char Madras	085	01	65	0.0406
Water Body	Uttar Char Madras	085	01	65	0.4175
Water Body	Uttar Char Madras	085	01	31	0.0142
Water Body	Uttar Char Madras	085	01	31	0.0869
Water Body	Uttar Char Madras	085	01	31	0.0025
Water Body	Uttar Char Madras	085	01	31	0.0667
Water Body	Uttar Char Madras	085	01	32	0.0066
Water Body	Jinnahgarh	084	02(1st	1252	0.0773

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	02(1st	1252	0.0250
Water Body	Uttar Char Madras	085	01	82	0.0140
Water Body	Uttar Char Madras	085	01	82	0.0607
Water Body	Uttar Char Madras	085	01	82	0.0295
Water Body	Uttar Char Madras	085	01	114	0.0903
Water Body	Jinnahgarh	084	01	328	0.0699
Water Body	Jinnahgarh	084	01	328	0.0429
Water Body	Jinnahgarh	084	01	328	0.3135
Water Body	Jinnahgarh	084	02(1st	1337	0.0049
Water Body	Jinnahgarh	084	02(1st	1337	0.4769
Water Body	Jinnahgarh	084	02(1st	1337	0.3072
Water Body	Jinnahgarh	084	02(1st	1337	0.1445
Water Body	Jinnahgarh	084	02(1st	1263	0.0163
Water Body	Jinnahgarh	084	02(1st	1029	0.0026
Water Body	Uttar Char Madras	085	01	84	0.0574
Water Body	Uttar Char Madras	085	01	84	0.1096
Water Body	Uttar Char Madras	085	01	84	0.2497
Water Body	Uttar Char Madras	085	01	84	0.1040
Water Body	Uttar Char Madras	085	01	84	0.0197
Water Body	Jinnahgarh	084	02(1st	99999	0.0050
Water Body	Uttar Char Madras	085	01	80	0.0189
Water Body	Uttar Char Madras	085	01	80	0.0104
Water Body	Uttar Char Madras	085	01	80	0.0999
Water Body	Uttar Char Madras	085	01	573	0.4202
Water Body	Jinnahgarh	084	02(1st	1257	0.0568
Water Body	Jinnahgarh	084	02(1st	1257	0.2907
Water Body	Jinnahgarh	084	02(1st	1257	0.0376
Water Body	Uttar Char Madras	085	01	642	0.1010
Water Body	Uttar Char Madras	085	01	642	0.0004
Water Body	Uttar Char Madras	085	01	642	0.0606
Water Body	Jinnahgarh	084	02(1st	1037	0.0052
Water Body	Jinnahgarh	084	02(1st	1264	0.0091
Water Body	Jinnahgarh	084	01	267	0.0470
Water Body	Jinnahgarh	084	02(1st	1209	0.0100
Water Body	Jinnahgarh	084	01	268	0.0460
Water Body	Jinnahgarh	084	02(1st	1256	0.1745
Water Body	Jinnahgarh	084	02(1st	1256	0.0521
Water Body	Jinnahgarh	084	01	332	0.0938
Water Body	Jinnahgarh	084	01	332	0.0051
Water Body	Jinnahgarh	084	01	332	0.1564
Water Body	Jinnahgarh	084	01	332	0.1365
Water Body	Jinnahgarh	084	01	332	0.0280
Water Body	Uttar Char Madras	085	01	167	0.0092
Water Body	Jinnahgarh	084	02(1st	1033	0.0591
Water Body	Jinnahgarh	084	02(1st	1210	0.2919
Water Body	Jinnahgarh	084	02(1st	99999	0.0082
Water Body	Jinnahgarh	084	02(1st	1212	0.0743
Water Body	Uttar Char Madras	085	01	206	0.0051
Water Body	Uttar Char Madras	085	01	206	0.0128
Water Body	Jinnahgarh	084	01	254	0.0047
Water Body	Jinnahgarh	084	01	254	0.0000
Water Body	Uttar Char Madras	085	01	617	0.0077
Water Body	Uttar Char Madras	085	01	617	0.0250
Water Body	Uttar Char Madras	085	01	617	0.0479
Water Body	Uttar Char Madras	085	01	616	0.1676
Water Body	Uttar Char Madras	085	01	616	0.0314
Water Body	Uttar Char Madras	085	01	616	0.0393
Water Body	Uttar Char Madras	085	01	634	0.0027
Water Body	Uttar Char Madras	085	01	113	0.0909
Water Body	Uttar Char Madras	085	01	113	0.2006
Water Body	Uttar Char Madras	085	01	113	0.0131
Water Body	Uttar Char Madras	085	01	205	0.1644
Water Body	Uttar Char Madras	085	01	81	0.2232
Water Body	Jinnahgarh	084	02(2nd	3175	0.0073
Water Body	Uttar Char Madras	085	01	168	0.1520
Water Body	Jinnahgarh	084	02(1st	1213	0.0000
Water Body	Jinnahgarh	084	02(1st	1213	0.0404
Water Body	Jinnahgarh	084	02(1st	1025	0.0277
Water Body	Uttar Char Madras	085	01	115	0.0306
Water Body	Uttar Char Madras	085	01	115	0.0234

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	684	0.0047
Water Body	Uttar Char Madras	085	01	684	0.0001
Water Body	Uttar Char Madras	085	01	170	0.0846
Water Body	Jinnahgarh	084	02(2nd	3176	0.2961
Water Body	Jinnahgarh	084	02(1st	1024	0.0694
Water Body	Uttar Char Madras	085	01	174	0.2067
Water Body	Uttar Char Madras	085	01	201	0.0252
Water Body	Uttar Char Madras	085	01	201	0.0916
Water Body	Uttar Char Madras	085	01	201	0.1384
Water Body	Uttar Char Madras	085	01	201	0.0357
Water Body	Uttar Char Madras	085	01	640	0.0332
Water Body	Uttar Char Madras	085	01	110	0.1999
Water Body	Jinnahgarh	084	02(1st	1214	0.0704
Water Body	Uttar Char Madras	085	01	176	0.1080
Water Body	Uttar Char Madras	085	01	176	0.1914
Water Body	Uttar Char Madras	085	01	176	0.3000
Water Body	Uttar Char Madras	085	01	11	0.0159
Water Body	Jinnahgarh	084	02(1st	1255	0.0518
Water Body	Uttar Char Madras	085	01	635	0.1114
Water Body	Uttar Char Madras	085	01	635	0.0518
Water Body	Jinnahgarh	084	02(1st	1224	0.0000
Water Body	Jinnahgarh	084	02(1st	1023	0.0688
Water Body	Jinnahgarh	084	02(1st	1223	0.4094
Water Body	Uttar Char Madras	085	01	25	0.0392
Water Body	Uttar Char Madras	085	01	25	0.0815
Water Body	Uttar Char Madras	085	01	25	0.0484
Water Body	Uttar Char Madras	085	01	25	0.0269
Water Body	Uttar Char Madras	085	01	25	0.1071
Water Body	Uttar Char Madras	085	01	25	0.3239
Water Body	Uttar Char Madras	085	01	25	0.3402
Water Body	Jinnahgarh	084	02(1st	1229	0.0017
Water Body	Jinnahgarh	084	02(1st	1227	0.3446
Water Body	Jinnahgarh	084	02(1st	1227	0.0417
Water Body	Jinnahgarh	084	02(1st	1227	0.0171
Water Body	Jinnahgarh	084	02(1st	1227	0.0048
Water Body	Uttar Char Madras	085	01	173	0.0594
Water Body	Jinnahgarh	084	02(1st	1341	0.1188
Water Body	Jinnahgarh	084	02(1st	1236	0.0014
Water Body	Jinnahgarh	084	02(1st	1237	0.0072
Water Body	Uttar Char Madras	085	01	109	0.0134
Water Body	Jinnahgarh	084	02(1st	1216	0.4066
Water Body	Jinnahgarh	084	02(1st	1245	0.0313
Water Body	Jinnahgarh	084	01	245	0.1126
Water Body	Jinnahgarh	084	01	244	0.1507
Water Body	Uttar Char Madras	085	01	108	0.2705
Water Body	Jinnahgarh	084	02(1st	1217	0.0324
Water Body	Uttar Char Madras	085	01	86	0.0441
Water Body	Jinnahgarh	084	02(1st	1219	0.0028
Water Body	Jinnahgarh	084	02(1st	1219	0.2006
Water Body	Jinnahgarh	084	02(1st	1219	0.0563
Water Body	Jinnahgarh	084	02(1st	1230	0.0521
Water Body	Jinnahgarh	084	01	333	0.0027
Water Body	Jinnahgarh	084	02(1st	1343	0.5220
Water Body	Jinnahgarh	084	02(1st	1343	0.0938
Water Body	Jinnahgarh	084	02(1st	1234	0.0005
Water Body	Jinnahgarh	084	02(1st	1234	0.0216
Water Body	Jinnahgarh	084	02(1st	1015	0.0143
Water Body	Jinnahgarh	084	02(1st	1019	0.1094
Water Body	Jinnahgarh	084	01	335	0.0990
Water Body	Jinnahgarh	084	01	335	0.2471
Water Body	Jinnahgarh	084	01	335	0.2398
Water Body	Jinnahgarh	084	01	335	0.0022
Water Body	Jinnahgarh	084	01	335	0.0467
Water Body	Jinnahgarh	084	01	335	0.0002
Water Body	Uttar Char Madras	085	01	13	0.0730
Water Body	Uttar Char Madras	085	01	13	0.3027
Water Body	Uttar Char Madras	085	01	649	1.5196
Water Body	Jinnahgarh	084	02(1st	1231	0.2845
Water Body	Jinnahgarh	084	02(1st	1238	0.0612
Water Body	Uttar Char Madras	085	01	24	0.1661

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	02(1st	1249	0.0892
Water Body	Jinnahgarh	084	02(1st	1235	0.0197
Water Body	Jinnahgarh	084	02(1st	1235	0.0858
Water Body	Jinnahgarh	084	02(1st	1250	0.0017
Water Body	Uttar Char Madras	085	01	105	0.0681
Water Body	Uttar Char Madras	085	01	105	0.0243
Water Body	Uttar Char Madras	085	01	647	0.0003
Water Body	Uttar Char Madras	085	01	647	0.0006
Water Body	Uttar Char Madras	085	01	647	0.1863
Water Body	Uttar Char Madras	085	01	647	0.0566
Water Body	Uttar Char Madras	085	01	647	0.0383
Water Body	Uttar Char Madras	085	01	647	0.0665
Water Body	Uttar Char Madras	085	01	647	0.2195
Water Body	Uttar Char Madras	085	01	647	0.0742
Water Body	Uttar Char Madras	085	01	22	0.0001
Water Body	Uttar Char Madras	085	01	22	0.0073
Water Body	Jinnahgarh	084	02(1st	1239	0.2150
Water Body	Jinnahgarh	084	02(1st	1344	0.2907
Water Body	Jinnahgarh	084	02(1st	1022	0.0026
Water Body	Jinnahgarh	084	02(1st	1022	0.0007
Water Body	Jinnahgarh	084	02(1st	1243	0.0027
Water Body	Jinnahgarh	084	02(1st	1348	0.0080
Water Body	Jinnahgarh	084	02(1st	1246	0.0400
Water Body	Jinnahgarh	084	02(1st	99999	0.0495
Water Body	Jinnahgarh	084	02(1st	1346	0.0025
Water Body	Jinnahgarh	084	02(1st	1346	0.0221
Water Body	Uttar Char Madras	085	01	23	0.7380
Water Body	Uttar Char Madras	085	01	23	0.0005
Water Body	Uttar Char Madras	085	01	90	0.6110
Water Body	Uttar Char Madras	085	01	107	0.1047
Water Body	Uttar Char Madras	085	01	91	0.1267
Water Body	Jinnahgarh	084	01	334	0.2088
Water Body	Jinnahgarh	084	01	334	0.1288
Water Body	Jinnahgarh	084	02(1st	1021	0.0004
Water Body	Jinnahgarh	084	02(1st	1021	0.0762
Water Body	Jinnahgarh	084	02(1st	1021	0.0143
Water Body	Uttar Char Madras	085	01	14	0.0466
Water Body	Uttar Char Madras	085	01	14	0.0016
Water Body	Uttar Char Madras	085	01	14	0.0001
Water Body	Uttar Char Madras	085	01	111	0.0179
Water Body	Jinnahgarh	084	02(1st	1347	0.4814
Water Body	Jinnahgarh	084	02(1st	1347	0.0040
Water Body	Uttar Char Madras	085	01	106	0.0300
Water Body	Jinnahgarh	084	02(1st	1020	0.0772
Water Body	Jinnahgarh	084	02(1st	1020	0.0179
Water Body	Jinnahgarh	084	02(1st	1247	0.0002
Water Body	Jinnahgarh	084	02(1st	1247	0.0524
Water Body	Jinnahgarh	084	02(1st	1345	0.0003
Water Body	Jinnahgarh	084	02(1st	1345	0.1480
Water Body	Uttar Char Madras	085	01	112	0.0572
Water Body	Uttar Char Madras	085	01	112	0.0798
Water Body	Jinnahgarh	084	02(1st	1407	0.0013
Water Body	Jinnahgarh	084	02(1st	1407	0.1365
Water Body	Jinnahgarh	084	02(1st	1407	0.0015
Water Body	Jinnahgarh	084	02(1st	1407	0.0385
Water Body	Jinnahgarh	084	02(1st	1407	0.0015
Water Body	Jinnahgarh	084	02(1st	1407	0.0003
Water Body	Jinnahgarh	084	02(1st	1248	0.0199
Water Body	Jinnahgarh	084	02(1st	1248	0.2209
Water Body	Jinnahgarh	084	02(1st	1248	0.0210
Water Body	Jinnahgarh	084	02(1st	1248	0.0129
Water Body	Uttar Char Madras	085	01	94	0.1066
Water Body	Uttar Char Madras	085	01	94	0.3685
Water Body	Uttar Char Madras	085	01	94	0.0567
Water Body	Uttar Char Madras	085	01	94	0.0002
Water Body	Uttar Char Madras	085	01	94	0.0579
Water Body	Uttar Char Madras	085	01	94	0.0157
Water Body	Uttar Char Madras	085	01	21	0.0121
Water Body	Uttar Char Madras	085	01	21	0.0696
Water Body	Uttar Char Madras	085	01	102	0.0117

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	102	0.0476
Water Body	Jinnahgarh	084	02(1st	1218	0.0315
Water Body	Uttar Char Madras	085	01	12	0.1069
Water Body	Uttar Char Madras	085	01	103	0.1159
Water Body	Uttar Char Madras	085	01	103	0.0255
Water Body	Uttar Char Madras	085	01	103	0.0805
Water Body	Uttar Char Madras	085	01	103	0.0966
Water Body	Uttar Char Madras	085	01	103	0.0214
Water Body	Uttar Char Madras	085	01	103	0.1889
Water Body	Uttar Char Madras	085	01	103	0.1108
Water Body	Uttar Char Madras	085	01	103	0.0317
Water Body	Uttar Char Madras	085	01	103	0.0271
Water Body	Uttar Char Madras	085	01	103	0.0174
Water Body	Uttar Char Madras	085	01	195	0.3825
Water Body	Uttar Char Madras	085	01	195	0.0840
Water Body	Jinnahgarh	084	02(1st	1240	0.0110
Water Body	Jinnahgarh	084	02(1st	1240	0.0454
Water Body	Jinnahgarh	084	02(1st	1241	0.0278
Water Body	Jinnahgarh	084	02(1st	1241	0.0256
Water Body	Jinnahgarh	084	01	242	0.0018
Water Body	Jinnahgarh	084	02(1st	1232	0.0032
Water Body	Jinnahgarh	084	02(1st	1232	0.0414
Water Body	Jinnahgarh	084	02(1st	1377	0.1632
Water Body	Jinnahgarh	084	01	336	0.1241
Water Body	Uttar Char Madras	085	01	101	0.0221
Water Body	Uttar Char Madras	085	01	101	0.0212
Water Body	Uttar Char Madras	085	01	101	0.0287
Water Body	Uttar Char Madras	085	01	16	0.0047
Water Body	Uttar Char Madras	085	01	16	0.2535
Water Body	Uttar Char Madras	085	01	16	0.0264
Water Body	Jinnahgarh	084	02(1st	1233	0.0009
Water Body	Jinnahgarh	084	02(1st	1233	0.0214
Water Body	Jinnahgarh	084	02(1st	1233	0.0322
Water Body	Jinnahgarh	084	02(1st	1375	0.0028
Water Body	Jinnahgarh	084	01	337	0.2950
Water Body	Uttar Char Madras	085	01	197	0.1252
Water Body	Jinnahgarh	084	02(1st	1374	0.1122
Water Body	Uttar Char Madras	085	01	305	0.0387
Water Body	Uttar Char Madras	085	01	305	0.0900
Water Body	Uttar Char Madras	085	01	307	0.0654
Water Body	Uttar Char Madras	085	01	307	0.0128
Water Body	Uttar Char Madras	085	01	308	0.2875
Water Body	Uttar Char Madras	085	01	308	0.0890
Water Body	Uttar Char Madras	085	01	308	0.1079
Water Body	Uttar Char Madras	085	01	308	0.1064
Water Body	Uttar Char Madras	085	01	308	0.0630
Water Body	Uttar Char Madras	085	01	17	0.1803
Water Body	Uttar Char Madras	085	01	17	0.0019
Water Body	Uttar Char Madras	085	01	17	0.0160
Water Body	Jinnahgarh	084	02(1st	1373	0.0008
Water Body	Uttar Char Madras	085	01	15	0.0254
Water Body	Uttar Char Madras	085	01	15	0.0001
Water Body	Jinnahgarh	084	02(1st	1367	0.1950
Water Body	Uttar Char Madras	085	01	180	0.1649
Water Body	Jinnahgarh	084	01	340	0.0006
Water Body	Jinnahgarh	084	02(1st	1376	0.2070
Water Body	Uttar Char Madras	085	01	196	0.1667
Water Body	Uttar Char Madras	085	01	99	0.0897
Water Body	Uttar Char Madras	085	01	99	0.2648
Water Body	Jinnahgarh	084	01	342	0.0260
Water Body	Jinnahgarh	084	01	342	0.1469
Water Body	Jinnahgarh	084	01	342	0.1844
Water Body	Jinnahgarh	084	01	342	0.0181
Water Body	Jinnahgarh	084	01	342	0.0042
Water Body	Jinnahgarh	084	01	342	0.0381
Water Body	Jinnahgarh	084	01	342	0.0612
Water Body	Uttar Char Madras	085	01	563	0.3090
Water Body	Uttar Char Madras	085	01	563	0.1206
Water Body	Uttar Char Madras	085	01	563	0.1309
Water Body	Uttar Char Madras	085	01	563	0.1547

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	563	0.1186
Water Body	Uttar Char Madras	085	01	563	0.1170
Water Body	Uttar Char Madras	085	01	563	0.0513
Water Body	Uttar Char Madras	085	01	563	0.0372
Water Body	Uttar Char Madras	085	01	563	0.0075
Water Body	Uttar Char Madras	085	01	563	0.0013
Water Body	Uttar Char Madras	085	01	563	0.0481
Water Body	Uttar Char Madras	085	01	178	0.1151
Water Body	Uttar Char Madras	085	01	318	0.0104
Water Body	Uttar Char Madras	085	01	318	0.0248
Water Body	Jinnahgarh	084	01	227	0.0246
Water Body	Uttar Char Madras	085	01	187	0.0120
Water Body	Uttar Char Madras	085	01	189	0.0570
Water Body	Uttar Char Madras	085	01	189	0.0774
Water Body	Uttar Char Madras	085	01	189	0.0520
Water Body	Uttar Char Madras	085	01	189	0.0280
Water Body	Uttar Char Madras	085	01	189	0.0405
Water Body	Jinnahgarh	084	02(1st	1364	0.0277
Water Body	Jinnahgarh	084	02(1st	1366	0.4873
Water Body	Jinnahgarh	084	01	338	0.0425
Water Body	Jinnahgarh	084	02(1st	1352	0.0012
Water Body	Jinnahgarh	084	01	228	0.0536
Water Body	Jinnahgarh	084	01	229	0.4562
Water Body	Jinnahgarh	084	01	341	0.0001
Water Body	Jinnahgarh	084	01	341	0.0310
Water Body	Jinnahgarh	084	02(1st	1434	0.0038
Water Body	Jinnahgarh	084	02(1st	1436	0.0194
Water Body	Jinnahgarh	084	02(1st	1437	0.0010
Water Body	Jinnahgarh	084	02(1st	1437	0.1166
Water Body	Jinnahgarh	084	02(1st	1437	0.3217
Water Body	Jinnahgarh	084	02(1st	1437	0.1736
Water Body	Jinnahgarh	084	02(1st	1437	0.0224
Water Body	Jinnahgarh	084	02(1st	1437	0.0834
Water Body	Jinnahgarh	084	02(1st	1437	0.0302
Water Body	Jinnahgarh	084	01	241	0.0418
Water Body	Jinnahgarh	084	01	241	0.0511
Water Body	Uttar Char Madras	085	01	688	0.2356
Water Body	Jinnahgarh	084	02(1st	1371	0.1278
Water Body	Jinnahgarh	084	01	339	0.0004
Water Body	Jinnahgarh	084	01	343	0.0012
Water Body	Jinnahgarh	084	01	343	0.0436
Water Body	Jinnahgarh	084	01	343	0.0702
Water Body	Jinnahgarh	084	01	343	0.1777
Water Body	Jinnahgarh	084	01	239	0.1166
Water Body	Uttar Char Madras	085	01	181	0.0708
Water Body	Jinnahgarh	084	01	238	0.0359
Water Body	Jinnahgarh	084	01	238	0.0692
Water Body	Jinnahgarh	084	01	238	0.0070
Water Body	Jinnahgarh	084	01	344	0.1239
Water Body	Jinnahgarh	084	01	344	0.0002
Water Body	Jinnahgarh	084	02(1st	1340	0.0745
Water Body	Jinnahgarh	084	02(1st	1340	0.0068
Water Body	Jinnahgarh	084	01	240	0.3335
Water Body	Jinnahgarh	084	01	240	0.0001
Water Body	Uttar Char Madras	085	01	18	0.1205
Water Body	Uttar Char Madras	085	01	179	0.0015
Water Body	Uttar Char Madras	085	01	179	0.0319
Water Body	Uttar Char Madras	085	01	100	0.0151
Water Body	Uttar Char Madras	085	01	100	0.0102
Water Body	Jinnahgarh	084	02(1st	1369	0.0003
Water Body	Jinnahgarh	084	02(1st	1415	0.1448
Water Body	Jinnahgarh	084	02(1st	1439	0.0002
Water Body	Jinnahgarh	084	02(1st	1440	0.0018
Water Body	Jinnahgarh	84	3	1442	0.0000
Water Body	Uttar Char Madras	085	01	184	0.0804
Water Body	Uttar Char Madras	085	01	188	0.2503
Water Body	Uttar Char Madras	085	01	188	0.0135
Water Body	Uttar Char Madras	085	01	185	0.0527
Water Body	Uttar Char Madras	085	01	329	0.0322
Water Body	Uttar Char Madras	085	01	324	0.0241

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	324	0.0384
Water Body	Uttar Char Madras	085	01	324	0.0490
Water Body	Uttar Char Madras	085	01	98	0.0188
Water Body	Jinnahgarh	084	02(1st	1444	0.0051
Water Body	Jinnahgarh	084	02(1st	1444	0.0031
Water Body	Uttar Char Madras	085	01	370	0.0105
Water Body	Uttar Char Madras	085	01	370	0.0675
Water Body	Uttar Char Madras	085	01	370	0.0004
Water Body	Jinnahgarh	084	02(1st	1378	0.2627
Water Body	Jinnahgarh	084	02(1st	1378	0.1511
Water Body	Jinnahgarh	084	02(1st	1378	0.0243
Water Body	Jinnahgarh	084	02(1st	1378	0.0878
Water Body	Jinnahgarh	084	02(1st	1378	0.1319
Water Body	Jinnahgarh	084	02(1st	1378	0.2142
Water Body	Jinnahgarh	084	02(1st	1378	0.1330
Water Body	Jinnahgarh	084	02(1st	1378	0.1046
Water Body	Jinnahgarh	084	02(1st	1378	0.3163
Water Body	Jinnahgarh	084	02(1st	1441	0.5748
Water Body	Jinnahgarh	084	02(1st	1441	0.0002
Water Body	Uttar Char Madras	085	01	99999	0.0070
Water Body	Jinnahgarh	084	01	230	0.0362
Water Body	Uttar Char Madras	085	01	99999	0.0492
Water Body	Uttar Char Madras	085	01	321	0.0232
Water Body	Uttar Char Madras	085	01	321	0.0584
Water Body	Uttar Char Madras	085	01	321	0.0002
Water Body	Uttar Char Madras	085	01	321	0.0036
Water Body	Uttar Char Madras	085	01	321	0.0717
Water Body	Jinnahgarh	084	02(1st	1460	0.0563
Water Body	Jinnahgarh	084	02(1st	1460	0.0769
Water Body	Jinnahgarh	084	02(1st	1460	0.0652
Water Body	Jinnahgarh	084	02(1st	1438	0.0236
Water Body	Jinnahgarh	084	02(1st	99999	0.2861
Water Body	Uttar Char Madras	085	01	371	0.6927
Water Body	Jinnahgarh	084	02(1st	1461	0.0026
Water Body	Jinnahgarh	084	02(1st	1461	0.0770
Water Body	Jinnahgarh	084	02(1st	1461	0.0707
Water Body	Jinnahgarh	084	02(1st	1461	0.0664
Water Body	Jinnahgarh	084	01	232	0.0638
Water Body	Uttar Char Madras	085	01	337	0.0617
Water Body	Jinnahgarh	084	01	233	0.0088
Water Body	Uttar Char Madras	085	01	344	0.0045
Water Body	Uttar Char Madras	085	01	96	0.0300
Water Body	Jinnahgarh	084	01	235	0.1558
Water Body	Uttar Char Madras	085	01	95	0.0185
Water Body	Jinnahgarh	084	01	237	0.0038
Water Body	Uttar Char Madras	085	01	353	0.0042
Water Body	Jinnahgarh	084	02(1st	1429	0.6119
Water Body	Jinnahgarh	084	02(1st	1429	0.2393
Water Body	Jinnahgarh	084	02(1st	1429	0.1224
Water Body	Jinnahgarh	084	02(1st	1429	0.2205
Water Body	Jinnahgarh	084	02(1st	1429	0.2863
Water Body	Uttar Char Madras	085	01	345	0.0504
Water Body	Uttar Char Madras	085	01	355	0.3106
Water Body	Uttar Char Madras	085	01	97	0.0123
Water Body	Uttar Char Madras	085	01	336	0.0742
Water Body	Uttar Char Madras	085	01	320	0.0022
Water Body	Uttar Char Madras	085	01	319	0.0021
Water Body	Uttar Char Madras	085	01	319	0.0016
Water Body	Uttar Char Madras	085	01	319	0.0014
Water Body	Uttar Char Madras	085	01	319	0.0008
Water Body	Uttar Char Madras	085	01	319	0.0029
Water Body	Uttar Char Madras	085	01	319	0.0076
Water Body	Uttar Char Madras	085	01	342	0.0896
Water Body	Uttar Char Madras	085	01	439	0.0419
Water Body	Uttar Char Madras	085	01	439	0.0665
Water Body	Jinnahgarh	084	02(1st	1453	0.0858
Water Body	Jinnahgarh	084	02(1st	1453	0.0072
Water Body	Jinnahgarh	084	02(1st	1453	0.3741
Water Body	Jinnahgarh	084	02(1st	1453	0.2008
Water Body	Jinnahgarh	084	02(1st	1453	0.0184

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	02(1st	1453	0.2120
Water Body	Jinnahgarh	084	02(1st	1453	0.5678
Water Body	Jinnahgarh	084	02(1st	1453	0.0093
Water Body	Jinnahgarh	084	02(1st	1453	0.1618
Water Body	Jinnahgarh	084	02(1st	1453	0.0793
Water Body	Uttar Char Madras	085	01	441	0.0205
Water Body	Uttar Char Madras	085	01	441	0.0425
Water Body	Uttar Char Madras	085	01	442	0.0153
Water Body	Uttar Char Madras	085	01	442	0.0002
Water Body	Uttar Char Madras	085	01	442	0.0093
Water Body	Uttar Char Madras	085	01	442	0.0700
Water Body	Uttar Char Madras	085	01	442	0.0900
Water Body	Uttar Char Madras	085	01	442	0.0946
Water Body	Uttar Char Madras	085	01	442	0.1027
Water Body	Uttar Char Madras	085	01	442	0.0460
Water Body	Uttar Char Madras	085	01	442	0.0301
Water Body	Uttar Char Madras	085	01	334	0.0626
Water Body	Uttar Char Madras	085	01	443	0.0052
Water Body	Uttar Char Madras	085	01	443	0.0296
Water Body	Uttar Char Madras	085	01	443	0.0208
Water Body	Uttar Char Madras	085	01	443	0.1395
Water Body	Uttar Char Madras	085	01	443	0.2735
Water Body	Uttar Char Madras	085	01	443	0.2262
Water Body	Uttar Char Madras	085	01	443	0.0111
Water Body	Uttar Char Madras	085	01	443	0.1848
Water Body	Uttar Char Madras	085	01	443	0.1449
Water Body	Uttar Char Madras	085	01	443	0.0085
Water Body	Uttar Char Madras	085	01	443	0.3250
Water Body	Uttar Char Madras	085	01	443	0.0396
Water Body	Uttar Char Madras	085	01	443	0.0247
Water Body	Uttar Char Madras	085	01	443	0.0109
Water Body	Jinnahgarh	084	01	345	0.0700
Water Body	Uttar Char Madras	085	01	444	0.0040
Water Body	Uttar Char Madras	085	01	444	0.1151
Water Body	Uttar Char Madras	085	01	444	0.0389
Water Body	Uttar Char Madras	085	01	444	0.0201
Water Body	Uttar Char Madras	085	01	354	0.0229
Water Body	Jinnahgarh	084	02(1st	1462	0.0045
Water Body	Jinnahgarh	084	02(1st	1462	0.0021
Water Body	Uttar Char Madras	085	01	333	0.0114
Water Body	Uttar Char Madras	085	01	333	0.1472
Water Body	Uttar Char Madras	085	01	445	0.0488
Water Body	Uttar Char Madras	085	01	445	0.0382
Water Body	Uttar Char Madras	085	01	437	0.0205
Water Body	Uttar Char Madras	085	01	437	0.0178
Water Body	Uttar Char Madras	085	01	446	0.0338
Water Body	Uttar Char Madras	085	01	446	0.0273
Water Body	Uttar Char Madras	085	01	485	0.1814
Water Body	Uttar Char Madras	085	01	485	0.0611
Water Body	Uttar Char Madras	085	01	485	0.3732
Water Body	Uttar Char Madras	085	01	485	0.1645
Water Body	Uttar Char Madras	085	01	485	0.2114
Water Body	Uttar Char Madras	085	01	485	0.1082
Water Body	Uttar Char Madras	085	01	485	0.0208
Water Body	Uttar Char Madras	085	01	99999	0.0395
Water Body	Uttar Char Madras	085	01	99999	0.3220
Water Body	Uttar Char Madras	085	01	99999	3.0964
Water Body	Uttar Char Madras	085	01	99999	8.6184
Water Body	Uttar Char Madras	085	01	436	0.0017
Water Body	Uttar Char Madras	085	01	652	0.0075
Water Body	Uttar Char Madras	085	01	652	0.0256
Water Body	Uttar Char Madras	085	01	652	0.1186
Water Body	Uttar Char Madras	085	01	652	0.0626
Water Body	Uttar Char Madras	085	01	652	0.0255
Water Body	Uttar Char Madras	085	01	652	0.0706
Water Body	Uttar Char Madras	085	01	487	0.0158
Water Body	Uttar Char Madras	085	01	487	0.2691
Water Body	Uttar Char Madras	085	01	487	0.1282
Water Body	Uttar Char Madras	085	01	487	0.1789
Water Body	Uttar Char Madras	085	01	651	0.0116



Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	490	0.0226
Water Body	Uttar Char Madras	085	01	490	0.1651
Water Body	Uttar Char Madras	085	01	490	0.0677
Water Body	Uttar Char Madras	085	01	500	0.0231
Water Body	Uttar Char Madras	085	01	500	0.0275
Water Body	Jinnahgarh	084	02(1st	1464	0.0044
Water Body	Uttar Char Madras	085	01	501	0.0436
Water Body	Uttar Char Madras	085	01	501	0.1047
Water Body	Uttar Char Madras	085	01	376	0.0717
Water Body	Uttar Char Madras	085	01	512	0.0037
Water Body	Uttar Char Madras	085	01	512	0.1323
Water Body	Uttar Char Madras	085	01	512	0.0132
Water Body	Uttar Char Madras	085	01	512	0.0302
Water Body	Uttar Char Madras	085	01	512	0.0149
Water Body	Uttar Char Madras	085	01	512	0.1068
Water Body	Uttar Char Madras	085	01	512	0.0984
Water Body	Uttar Char Madras	085	01	369	0.0401
Water Body	Uttar Char Madras	085	01	369	0.3393
Water Body	Uttar Char Madras	085	01	368	0.0081
Water Body	Uttar Char Madras	085	01	356	0.0017
Water Body	Uttar Char Madras	085	01	513	0.0501
Water Body	Uttar Char Madras	085	01	513	0.0292
Water Body	Uttar Char Madras	085	01	513	0.0474
Water Body	Uttar Char Madras	085	01	515	0.1701
Water Body	Uttar Char Madras	085	01	515	0.2031
Water Body	Uttar Char Madras	085	01	516	0.0717
Water Body	Uttar Char Madras	085	01	516	0.0899
Water Body	Uttar Char Madras	085	01	516	0.0490
Water Body	Uttar Char Madras	085	01	516	0.0216
Water Body	Uttar Char Madras	085	01	516	0.0724
Water Body	Uttar Char Madras	085	01	516	0.0033
Water Body	Uttar Char Madras	085	01	362	0.3929
Water Body	Uttar Char Madras	085	01	359	0.0001
Water Body	Uttar Char Madras	085	01	433	0.0391
Water Body	Uttar Char Madras	085	01	527	0.0817
Water Body	Uttar Char Madras	085	01	527	0.1119
Water Body	Uttar Char Madras	085	01	527	0.0504
Water Body	Uttar Char Madras	085	01	529	0.0289
Water Body	Uttar Char Madras	085	01	529	0.0745
Water Body	Uttar Char Madras	085	01	529	0.0000
Water Body	Uttar Char Madras	085	01	531	0.0012
Water Body	Uttar Char Madras	085	01	531	0.0212
Water Body	Uttar Char Madras	085	01	531	0.3859
Water Body	Uttar Char Madras	085	01	653	0.0125
Water Body	Uttar Char Madras	085	01	653	0.0125
Water Body	Uttar Char Madras	085	01	653	0.0095
Water Body	Uttar Char Madras	085	01	653	0.0125
Water Body	Uttar Char Madras	085	01	653	0.0369
Water Body	Uttar Char Madras	085	01	653	0.0053
Water Body	Uttar Char Madras	085	01	533	0.0839
Water Body	Uttar Char Madras	085	01	533	0.0008
Water Body	Uttar Char Madras	085	01	533	0.1289
Water Body	Uttar Char Madras	085	01	533	0.0538
Water Body	Uttar Char Madras	085	01	534	0.0084
Water Body	Uttar Char Madras	085	01	534	0.0365
Water Body	Uttar Char Madras	085	01	560	0.0432
Water Body	Uttar Char Madras	085	01	560	0.0225
Water Body	Uttar Char Madras	085	01	560	0.0581
Water Body	Uttar Char Madras	085	01	560	0.0999
Water Body	Uttar Char Madras	085	01	560	0.0992
Water Body	Uttar Char Madras	085	01	560	0.0000
Water Body	Uttar Char Madras	085	01	658	0.0012
Water Body	Uttar Char Madras	085	01	429	0.0114
Water Body	Uttar Char Madras	085	01	360	0.3882
Water Body	Jinnahgarh	084	02(1st	1456	0.0001
Water Body	Jinnahgarh	084	02(1st	1456	0.0110
Water Body	Uttar Char Madras	085	01	378	0.0111
Water Body	Uttar Char Madras	085	01	378	0.0047
Water Body	Uttar Char Madras	085	01	378	0.0022
Water Body	Jinnahgarh	084	02(1st	1455	0.2758

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	430	0.0280
Water Body	Uttar Char Madras	085	01	431	0.0123
Water Body	Uttar Char Madras	085	01	431	0.0359
Water Body	Uttar Char Madras	085	01	561	0.0019
Water Body	Uttar Char Madras	085	01	561	0.0747
Water Body	Uttar Char Madras	085	01	428	0.0004
Water Body	Uttar Char Madras	085	01	424	0.0419
Water Body	Uttar Char Madras	085	01	424	0.0573
Water Body	Uttar Char Madras	085	01	424	0.1409
Water Body	Uttar Char Madras	085	01	424	0.0070
Water Body	Uttar Char Madras	085	01	424	0.0886
Water Body	Uttar Char Madras	085	01	424	0.0849
Water Body	Uttar Char Madras	085	01	424	0.0001
Water Body	Uttar Char Madras	085	01	659	0.0234
Water Body	Uttar Char Madras	085	01	659	0.0416
Water Body	Uttar Char Madras	085	01	659	0.0598
Water Body	Uttar Char Madras	085	01	659	0.1713
Water Body	Uttar Char Madras	085	01	377	0.0105
Water Body	Uttar Char Madras	085	01	418	0.3409
Water Body	Uttar Char Madras	085	01	418	0.0481
Water Body	Uttar Char Madras	085	01	418	0.0315
Water Body	Uttar Char Madras	085	01	418	0.1422
Water Body	Jinnahgarh	084	02(1st	1445	0.0205
Water Body	Jinnahgarh	084	02(1st	1445	0.2423
Water Body	Jinnahgarh	084	02(1st	1445	0.0553
Water Body	Uttar Char Madras	085	01	668	0.0173
Water Body	Uttar Char Madras	085	01	668	0.0736
Water Body	Uttar Char Madras	085	01	668	0.0778
Water Body	Uttar Char Madras	085	01	668	0.0656
Water Body	Uttar Char Madras	085	01	668	0.0459
Water Body	Uttar Char Madras	085	01	670	0.0137
Water Body	Uttar Char Madras	085	01	670	0.0366
Water Body	Uttar Char Madras	085	01	670	0.1075
Water Body	Uttar Char Madras	085	01	670	0.1241
Water Body	Uttar Char Madras	085	01	670	0.0247
Water Body	Uttar Char Madras	085	01	670	0.0085
Water Body	Uttar Char Madras	085	01	656	0.0097
Water Body	Uttar Char Madras	085	01	655	0.0622
Water Body	Uttar Char Madras	085	01	655	0.1349
Water Body	Uttar Char Madras	085	01	655	0.0942
Water Body	Uttar Char Madras	085	01	655	0.0057
Water Body	Uttar Char Madras	085	01	672	0.0967
Water Body	Uttar Char Madras	085	01	672	0.0141
Water Body	Uttar Char Madras	085	01	672	0.0353
Water Body	Uttar Char Madras	085	01	674	0.0114
Water Body	Uttar Char Madras	085	01	674	0.0501
Water Body	Uttar Char Madras	085	01	674	0.1513
Water Body	Uttar Char Madras	085	01	674	0.3004
Water Body	Uttar Char Madras	085	01	674	0.0354
Water Body	Uttar Char Madras	085	01	379	0.0230
Water Body	Uttar Char Madras	085	01	379	0.1636
Water Body	Uttar Char Madras	085	01	379	0.1032
Water Body	Uttar Char Madras	085	01	379	0.0964
Water Body	Jinnahgarh	084	01	354	0.0539
Water Body	Jinnahgarh	084	01	354	0.0008
Water Body	Uttar Char Madras	085	01	380	0.0010
Water Body	Uttar Char Madras	085	01	380	0.0079
Water Body	Uttar Char Madras	085	01	380	0.0509
Water Body	Jinnahgarh	084	02(1st	1467	0.1876
Water Body	Uttar Char Madras	085	01	426	0.3339
Water Body	Jinnahgarh	084	02(1st	1457	0.0490
Water Body	Uttar Char Madras	085	01	451	0.2893
Water Body	Uttar Char Madras	085	01	447	0.1295
Water Body	Uttar Char Madras	085	01	552	0.0031
Water Body	Uttar Char Madras	085	01	552	0.0125
Water Body	Uttar Char Madras	085	01	552	0.0303
Water Body	Jinnahgarh	084	02(1st	1458	0.3237
Water Body	Jinnahgarh	084	02(1st	1458	0.0463
Water Body	Jinnahgarh	084	02(1st	1394	0.2500
Water Body	Jinnahgarh	084	02(1st	1394	0.5583

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	02(1st	1394	0.1452
Water Body	Jinnahgarh	084	02(1st	1394	0.0595
Water Body	Jinnahgarh	084	02(1st	1394	0.0094
Water Body	Jinnahgarh	084	02(1st	1394	0.1212
Water Body	Jinnahgarh	084	02(1st	1394	0.0270
Water Body	Jinnahgarh	084	02(1st	1394	0.0567
Water Body	Jinnahgarh	084	02(1st	1459	0.1424
Water Body	Uttar Char Madras	085	01	525	0.0500
Water Body	Uttar Char Madras	085	01	449	0.3332
Water Body	Uttar Char Madras	085	01	526	0.0834
Water Body	Uttar Char Madras	085	01	526	0.0460
Water Body	Uttar Char Madras	085	01	526	0.0597
Water Body	Uttar Char Madras	085	01	537	0.0124
Water Body	Uttar Char Madras	085	01	537	0.0692
Water Body	Uttar Char Madras	085	01	419	0.0171
Water Body	Uttar Char Madras	085	01	419	0.0018
Water Body	Uttar Char Madras	085	01	536	0.2106
Water Body	Uttar Char Madras	085	01	536	0.0490
Water Body	Uttar Char Madras	085	01	536	0.0496
Water Body	Jinnahgarh	084	02(1st	1400	0.3036
Water Body	Jinnahgarh	084	02(1st	1400	0.0363
Water Body	Jinnahgarh	084	02(1st	1400	0.0041
Water Body	Uttar Char Madras	085	01	425	0.1175
Water Body	Jinnahgarh	084	02(1st	1447	0.1109
Water Body	Jinnahgarh	084	02(1st	1447	0.0016
Water Body	Uttar Char Madras	085	01	673	0.0117
Water Body	Uttar Char Madras	085	01	673	0.1122
Water Body	Jinnahgarh	084	02(1st	1418	0.0419
Water Body	Jinnahgarh	084	02(1st	1397	0.0209
Water Body	Uttar Char Madras	085	01	518	0.2811
Water Body	Jinnahgarh	084	02(1st	1419	0.0038
Water Body	Jinnahgarh	084	02(1st	1419	0.1454
Water Body	Uttar Char Madras	085	01	450	0.1371
Water Body	Uttar Char Madras	085	01	417	0.1174
Water Body	Uttar Char Madras	085	01	417	0.0188
Water Body	Uttar Char Madras	085	01	417	0.1842
Water Body	Jinnahgarh	084	02(1st	1396	0.0461
Water Body	Uttar Char Madras	085	01	452	0.0910
Water Body	Jinnahgarh	084	02(1st	1431	0.1633
Water Body	Jinnahgarh	084	02(1st	1431	0.8017
Water Body	Jinnahgarh	084	02(1st	1431	0.0000
Water Body	Jinnahgarh	084	02(1st	1431	0.4163
Water Body	Jinnahgarh	084	02(1st	1431	0.1957
Water Body	Jinnahgarh	084	02(1st	1448	0.4102
Water Body	Uttar Char Madras	085	01	535	0.0345
Water Body	Uttar Char Madras	085	01	422	0.0114
Water Body	Uttar Char Madras	085	01	382	0.0077
Water Body	Uttar Char Madras	085	01	453	0.0839
Water Body	Uttar Char Madras	085	01	453	0.0954
Water Body	Uttar Char Madras	085	01	453	0.0834
Water Body	Uttar Char Madras	085	01	453	0.2065
Water Body	Uttar Char Madras	085	01	453	0.1823
Water Body	Uttar Char Madras	085	01	453	0.0530
Water Body	Uttar Char Madras	085	01	453	0.2005
Water Body	Uttar Char Madras	085	01	453	0.1333
Water Body	Uttar Char Madras	085	01	453	0.1839
Water Body	Uttar Char Madras	085	01	453	0.1039
Water Body	Uttar Char Madras	085	01	453	0.3762
Water Body	Uttar Char Madras	085	01	453	0.1766
Water Body	Uttar Char Madras	085	01	453	0.1485
Water Body	Uttar Char Madras	085	01	453	0.0021
Water Body	Uttar Char Madras	085	01	420	0.0036
Water Body	Jinnahgarh	084	02(1st	1452	0.0943
Water Body	Jinnahgarh	084	02(1st	1452	0.1137
Water Body	Uttar Char Madras	085	01	669	0.0402
Water Body	Jinnahgarh	084	02(1st	1395	0.0228
Water Body	Uttar Char Madras	085	01	387	0.1471
Water Body	Uttar Char Madras	085	01	387	0.0964
Water Body	Uttar Char Madras	085	01	387	0.0560
Water Body	Uttar Char Madras	085	01	484	0.0011

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	484	0.1442
Water Body	Uttar Char Madras	085	01	539	0.0072
Water Body	Uttar Char Madras	085	01	538	0.0026
Water Body	Jinnahgarh	084	02(1st	1449	0.0286
Water Body	Jinnahgarh	084	02(1st	1449	0.0735
Water Body	Jinnahgarh	084	02(1st	1449	0.0075
Water Body	Jinnahgarh	084	02(1st	1449	0.1468
Water Body	Jinnahgarh	084	02(1st	1449	0.0090
Water Body	Jinnahgarh	084	02(1st	1449	0.1471
Water Body	Jinnahgarh	084	02(1st	1449	0.1939
Water Body	Jinnahgarh	084	02(1st	1449	0.1610
Water Body	Jinnahgarh	084	02(1st	1449	0.2250
Water Body	Jinnahgarh	084	01	206	0.0136
Water Body	Jinnahgarh	084	02(1st	1474	0.0133
Water Body	Uttar Char Madras	085	01	391	0.0009
Water Body	Uttar Char Madras	085	01	391	0.0200
Water Body	Jinnahgarh	084	02(1st	1420	0.3650
Water Body	Jinnahgarh	084	02(1st	1420	0.0950
Water Body	Jinnahgarh	084	02(1st	1420	0.0007
Water Body	Jinnahgarh	084	02(1st	1420	0.1543
Water Body	Jinnahgarh	084	02(1st	1420	0.1257
Water Body	Jinnahgarh	084	02(1st	1420	0.3431
Water Body	Jinnahgarh	084	02(1st	1420	0.0575
Water Body	Jinnahgarh	084	02(1st	1420	0.4102
Water Body	Jinnahgarh	084	02(1st	1420	0.1984
Water Body	Jinnahgarh	084	02(1st	1420	0.1180
Water Body	Jinnahgarh	084	01	349	0.3548
Water Body	Jinnahgarh	084	01	349	0.3399
Water Body	Uttar Char Madras	085	01	488	0.0026
Water Body	Jinnahgarh	084	02(1st	1450	0.0427
Water Body	Jinnahgarh	084	02(1st	1450	0.3592
Water Body	Jinnahgarh	084	02(1st	1450	0.3044
Water Body	Jinnahgarh	084	02(1st	1450	0.0968
Water Body	Uttar Char Madras	085	01	416	0.0337
Water Body	Jinnahgarh	084	01	203	0.0123
Water Body	Uttar Char Madras	085	01	506	0.0937
Water Body	Uttar Char Madras	085	01	506	0.0111
Water Body	Uttar Char Madras	085	01	389	0.0644
Water Body	Jinnahgarh	084	01	204	0.0295
Water Body	Jinnahgarh	084	02(1st	1475	0.0284
Water Body	Jinnahgarh	084	02(1st	1423	0.0101
Water Body	Jinnahgarh	084	02(1st	1423	0.0141
Water Body	Uttar Char Madras	085	01	483	0.1072
Water Body	Kulsumbag	83	4	99999	0.0261
Water Body	Jinnahgarh	084	01	205	0.0971
Water Body	Jinnahgarh	084	02(1st	1424	0.0024
Water Body	Jinnahgarh	084	02(1st	1424	0.0021
Water Body	Jinnahgarh	084	02(1st	1424	0.7253
Water Body	Jinnahgarh	084	02(1st	1424	0.0568
Water Body	Jinnahgarh	084	02(1st	1424	0.0397
Water Body	Jinnahgarh	084	02(1st	1424	0.0353
Water Body	Jinnahgarh	084	02(1st	1424	0.2168
Water Body	Jinnahgarh	084	02(1st	1424	0.0500
Water Body	Jinnahgarh	084	02(1st	1424	0.0048
Water Body	Jinnahgarh	084	02(1st	1424	0.2172
Water Body	Jinnahgarh	084	02(1st	1424	0.0233
Water Body	Jinnahgarh	084	02(1st	1424	0.1606
Water Body	Jinnahgarh	084	02(1st	1424	0.0005
Water Body	Jinnahgarh	084	02(1st	1477	0.0316
Water Body	Uttar Char Madras	085	01	503	0.0893
Water Body	Uttar Char Madras	085	01	521	0.0024
Water Body	Uttar Char Madras	085	01	519	0.0003
Water Body	Uttar Char Madras	085	01	395	0.0060
Water Body	Uttar Char Madras	085	01	511	0.0439
Water Body	Uttar Char Madras	085	01	511	0.0796
Water Body	Uttar Char Madras	085	01	511	0.0488
Water Body	Uttar Char Madras	085	01	511	0.0333
Water Body	Jinnahgarh	084	02(1st	1478	0.0329
Water Body	Uttar Char Madras	085	01	523	0.0836
Water Body	Uttar Char Madras	085	01	523	0.0058

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	523	0.2217
Water Body	Uttar Char Madras	085	01	523	0.1204
Water Body	Uttar Char Madras	085	01	523	0.0993
Water Body	Uttar Char Madras	085	01	523	0.2188
Water Body	Uttar Char Madras	085	01	523	0.1290
Water Body	Uttar Char Madras	085	01	523	0.0417
Water Body	Uttar Char Madras	085	01	523	0.0448
Water Body	Uttar Char Madras	085	01	499	0.0103
Water Body	Uttar Char Madras	085	01	394	0.1552
Water Body	Uttar Char Madras	085	01	394	0.1140
Water Body	Uttar Char Madras	085	01	394	0.1597
Water Body	Uttar Char Madras	085	01	394	0.0971
Water Body	Uttar Char Madras	085	01	394	0.0933
Water Body	Uttar Char Madras	085	01	394	0.1192
Water Body	Uttar Char Madras	085	01	394	0.0563
Water Body	Uttar Char Madras	085	01	394	0.0375
Water Body	Uttar Char Madras	085	01	394	0.0283
Water Body	Uttar Char Madras	085	01	545	0.0138
Water Body	Jinnahgarh	084	02(1st	1480	0.0009
Water Body	Jinnahgarh	084	01	198	0.1747
Water Body	Jinnahgarh	084	01	198	0.2888
Water Body	Jinnahgarh	084	01	198	0.3364
Water Body	Jinnahgarh	084	01	198	0.0452
Water Body	Uttar Char Madras	085	01	544	0.1786
Water Body	Uttar Char Madras	085	01	543	0.0180
Water Body	Uttar Char Madras	085	01	540	0.2177
Water Body	Uttar Char Madras	085	01	546	0.0362
Water Body	Uttar Char Madras	085	01	99999	0.0388
Water Body	Uttar Char Madras	085	01	505	0.0189
Water Body	Uttar Char Madras	085	01	542	0.0566
Water Body	Uttar Char Madras	085	01	541	0.2954
Water Body	Uttar Char Madras	085	01	498	0.0005
Water Body	Jinnahgarh	084	02(1st	99999	0.0524
Water Body	Uttar Char Madras	085	01	393	0.0387
Water Body	Uttar Char Madras	085	01	496	0.0038
Water Body	Uttar Char Madras	085	01	496	0.0046
Water Body	Uttar Char Madras	085	01	99999	0.0018
Water Body	Uttar Char Madras	085	01	99999	0.0554
Water Body	Jinnahgarh	084	01	351	0.0170
Water Body	Uttar Char Madras	085	01	507	0.0356
Water Body	Uttar Char Madras	085	01	454	0.0179
Water Body	Uttar Char Madras	085	01	454	0.2336
Water Body	Uttar Char Madras	085	01	454	0.0832
Water Body	Uttar Char Madras	085	01	510	0.0136
Water Body	Uttar Char Madras	085	01	482	0.4430
Water Body	Uttar Char Madras	085	01	508	0.1037
Water Body	Uttar Char Madras	085	01	508	0.0627
Water Body	Uttar Char Madras	085	01	495	0.0001
Water Body	Uttar Char Madras	085	01	665	0.2278
Water Body	Uttar Char Madras	085	01	665	0.0901
Water Body	Kulsumbag	83	4	99999	0.0001
Water Body	Uttar Char Madras	085	01	99999	0.0221
Water Body	Jinnahgarh	084	01	358	0.0006
Water Body	Uttar Char Madras	085	01	398	0.0229
Water Body	Uttar Char Madras	085	01	398	0.0325
Water Body	Uttar Char Madras	085	01	398	0.0361
Water Body	Uttar Char Madras	085	01	559	0.0225
Water Body	Jinnahgarh	084	01	359	0.5211
Water Body	Uttar Char Madras	085	01	548	0.1477
Water Body	Uttar Char Madras	085	01	548	0.2597
Water Body	Uttar Char Madras	085	01	480	0.0001
Water Body	Uttar Char Madras	085	01	400	0.0063
Water Body	Uttar Char Madras	085	01	551	0.0329
Water Body	Uttar Char Madras	085	01	407	0.0031
Water Body	Uttar Char Madras	085	01	407	0.0412
Water Body	Uttar Char Madras	085	01	407	0.0377
Water Body	Uttar Char Madras	085	01	407	0.0454
Water Body	Uttar Char Madras	085	01	555	0.0284
Water Body	Uttar Char Madras	085	01	409	0.1362
Water Body	Uttar Char Madras	085	01	409	0.1362

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	01	409	0.0400
Water Body	Uttar Char Madras	085	01	409	0.0162
Water Body	Jinnahgarh	084	02(1st	1425	0.7525
Water Body	Jinnahgarh	084	02(1st	1425	0.1931
Water Body	Jinnahgarh	084	02(1st	1425	0.0412
Water Body	Jinnahgarh	084	02(1st	1425	0.1549
Water Body	Jinnahgarh	084	02(1st	1425	0.0972
Water Body	Jinnahgarh	084	02(1st	1425	0.2629
Water Body	Jinnahgarh	084	02(1st	1425	0.1178
Water Body	Jinnahgarh	084	02(1st	1425	0.0457
Water Body	Jinnahgarh	084	02(1st	1425	0.0175
Water Body	Uttar Char Madras	085	01	481	0.0292
Water Body	Jinnahgarh	084	01	99999	0.0014
Water Body	Uttar Char Madras	085	01	408	0.0029
Water Body	Uttar Char Madras	085	01	408	0.0561
Water Body	Uttar Char Madras	085	01	397	0.0730
Water Body	Uttar Char Madras	085	01	397	0.0000
Water Body	Jinnahgarh	84	3	1421	0.0293
Water Body	Jinnahgarh	84	3	1421	0.0176
Water Body	Jinnahgarh	084	01	1421	0.1478
Water Body	Jinnahgarh	084	01	1421	0.0414
Water Body	Jinnahgarh	084	01	1421	0.0405
Water Body	Jinnahgarh	84	3	1421	0.0121
Water Body	Jinnahgarh	84	3	1421	0.0028
Water Body	Jinnahgarh	84	3	1421	0.0044
Water Body	Uttar Char Madras	085	01	411	0.0079
Water Body	Uttar Char Madras	085	01	411	0.0343
Water Body	Uttar Char Madras	085	01	556	0.0140
Water Body	Uttar Char Madras	085	01	412	0.0113
Water Body	Uttar Char Madras	085	01	412	0.0494
Water Body	Uttar Char Madras	085	01	412	0.1184
Water Body	Uttar Char Madras	085	01	412	0.1502
Water Body	Uttar Char Madras	085	01	412	0.0102
Water Body	Jinnahgarh	084	02(1st	1430	0.1730
Water Body	Jinnahgarh	084	02(1st	1430	0.5466
Water Body	Jinnahgarh	084	02(1st	1430	0.0610
Water Body	Uttar Char Madras	085	01	415	0.1402
Water Body	Uttar Char Madras	085	01	415	0.1046
Water Body	Uttar Char Madras	085	01	415	0.2218
Water Body	Uttar Char Madras	085	01	415	0.2434
Water Body	Uttar Char Madras	085	01	558	0.0299
Water Body	Jinnahgarh	084	02(1st	1426	0.0075
Water Body	Uttar Char Madras	085	01	455	0.1857
Water Body	Uttar Char Madras	085	01	455	0.0932
Water Body	Uttar Char Madras	085	01	455	0.2036
Water Body	Uttar Char Madras	085	01	455	0.1303
Water Body	Uttar Char Madras	085	01	455	0.1619
Water Body	Jinnahgarh	084	03	3711	0.1256
Water Body	Jinnahgarh	084	03	3711	0.0373
Water Body	Jinnahgarh	084	03	3711	0.1040
Water Body	Jinnahgarh	084	03	3711	0.0198
Water Body	Jinnahgarh	084	03	3711	0.1034
Water Body	Jinnahgarh	084	03	3711	0.0128
Water Body	Kulsumbag	83	4	99999	0.0002
Water Body	Jinnahgarh	084	03	3699	0.4333
Water Body	Jinnahgarh	084	03	3699	0.5304
Water Body	Jinnahgarh	084	03	3699	0.1206
Water Body	Uttar Char Madras	085	01	410	0.0003
Water Body	Uttar Char Madras	085	01	401	0.0347
Water Body	Uttar Char Madras	085	01	405	0.0169
Water Body	Jinnahgarh	084	03	3700	0.0007
Water Body	Jinnahgarh	084	03	3700	0.0012
Water Body	Jinnahgarh	084	03	3700	0.0420
Water Body	Jinnahgarh	084	03	3700	0.0004
Water Body	Jinnahgarh	084	03	3701	0.0047
Water Body	Jinnahgarh	084	03	3701	0.2878
Water Body	Jinnahgarh	084	02(1st	99999	0.0071
Water Body	Jinnahgarh	084	02(1st	99999	0.0065
Water Body	Jinnahgarh	084	03	3709	0.0015
Water Body	Jinnahgarh	084	03	3710	0.0764

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	03	3712	0.0015
Water Body	Jinnahgarh	084	03	3712	0.0433
Water Body	Jinnahgarh	084	03	3712	0.0619
Water Body	Jinnahgarh	084	03	3712	0.0041
Water Body	Jinnahgarh	084	03	3712	0.0552
Water Body	Jinnahgarh	084	03	3712	0.3122
Water Body	Jinnahgarh	084	03	3712	0.0315
Water Body	Jinnahgarh	084	03	3712	0.0280
Water Body	Uttar Char Madras	085	01	686	0.0234
Water Body	Uttar Char Madras	085	01	686	0.0533
Water Body	Uttar Char Madras	085	02	99999	0.0000
Water Body	Uttar Char Madras	085	02	99999	0.0740
Water Body	Uttar Char Madras	085	02	950	1.3531
Water Body	Uttar Char Madras	085	02	950	0.0212
Water Body	Uttar Char Madras	085	02	950	0.0323
Water Body	Uttar Char Madras	085	02	950	0.0802
Water Body	Uttar Char Madras	085	02	950	0.0363
Water Body	Uttar Char Madras	085	02	950	0.0280
Water Body	Jinnahgarh	084	03	3852	0.0307
Water Body	Jinnahgarh	084	03	3852	0.0159
Water Body	Jinnahgarh	084	03	3852	0.0068
Water Body	Jinnahgarh	084	03	3852	0.0056
Water Body	Uttar Char Madras	085	02	819	0.0722
Water Body	Uttar Char Madras	085	02	819	0.0020
Water Body	Uttar Char Madras	085	02	819	0.0001
Water Body	Uttar Char Madras	085	02	819	0.0252
Water Body	Uttar Char Madras	085	02	816	0.0023
Water Body	Uttar Char Madras	085	02	816	0.3418
Water Body	Jinnahgarh	084	03	3845	0.2566
Water Body	Jinnahgarh	084	03	3845	0.0889
Water Body	Jinnahgarh	084	03	3845	0.0126
Water Body	Jinnahgarh	084	03	3845	0.1859
Water Body	Jinnahgarh	084	03	3845	0.1955
Water Body	Uttar Char Madras	085	02	817	0.0057
Water Body	Uttar Char Madras	085	01	414	0.0362
Water Body	Uttar Char Madras	085	02	802	0.1554
Water Body	Uttar Char Madras	085	02	821	0.1290
Water Body	Uttar Char Madras	085	02	824	0.0006
Water Body	Jinnahgarh	084	03	3848	0.0319
Water Body	Jinnahgarh	084	03	3848	0.0415
Water Body	Jinnahgarh	084	03	3848	0.3398
Water Body	Jinnahgarh	084	03	3848	0.2098
Water Body	Jinnahgarh	084	03	3848	0.2149
Water Body	Jinnahgarh	084	03	3848	0.3115
Water Body	Jinnahgarh	084	03	3848	0.0082
Water Body	Jinnahgarh	084	03	3715	0.0378
Water Body	Uttar Char Madras	085	02	829	0.0720
Water Body	Uttar Char Madras	085	02	829	0.0000
Water Body	Uttar Char Madras	085	02	830	0.1517
Water Body	Uttar Char Madras	085	02	830	0.1151
Water Body	Uttar Char Madras	085	02	830	0.0010
Water Body	Uttar Char Madras	085	01	474	0.0875
Water Body	Uttar Char Madras	085	01	474	0.1041
Water Body	Uttar Char Madras	085	01	474	0.0053
Water Body	Uttar Char Madras	085	02	840	0.0182
Water Body	Uttar Char Madras	085	02	840	0.0062
Water Body	Uttar Char Madras	085	01	461	0.0820
Water Body	Jinnahgarh	084	03	3849	0.2536
Water Body	Uttar Char Madras	085	01	473	0.0529
Water Body	Uttar Char Madras	085	02	837	0.1039
Water Body	Jinnahgarh	084	03	3846	0.0003
Water Body	Jinnahgarh	084	03	3850	0.0259
Water Body	Uttar Char Madras	085	02	844	0.0724
Water Body	Uttar Char Madras	085	02	844	0.3570
Water Body	Uttar Char Madras	085	02	844	0.5367
Water Body	Uttar Char Madras	085	02	844	0.0551
Water Body	Uttar Char Madras	085	02	841	0.1324
Water Body	Uttar Char Madras	085	02	842	0.0581
Water Body	Uttar Char Madras	085	02	842	0.0671
Water Body	Jinnahgarh	084	03	4087	0.0748

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	03	4087	0.0019
Water Body	Jinnahgarh	084	03	4087	0.0862
Water Body	Uttar Char Madras	085	02	812	0.0171
Water Body	Uttar Char Madras	085	02	812	0.0276
Water Body	Uttar Char Madras	085	02	812	0.1671
Water Body	Uttar Char Madras	085	02	812	0.0224
Water Body	Uttar Char Madras	085	02	812	0.1696
Water Body	Uttar Char Madras	085	02	812	0.0806
Water Body	Uttar Char Madras	085	02	812	0.0015
Water Body	Jinnahgarh	084	03	3853	0.0184
Water Body	Jinnahgarh	084	03	3853	0.0260
Water Body	Jinnahgarh	084	03	3853	0.0361
Water Body	Uttar Char Madras	085	02	839	0.3224
Water Body	Uttar Char Madras	085	02	839	0.0200
Water Body	Jinnahgarh	084	03	3851	0.0089
Water Body	Jinnahgarh	084	03	3851	0.3697
Water Body	Uttar Char Madras	085	02	803	0.0210
Water Body	Jinnahgarh	084	03	3713	0.0181
Water Body	Jinnahgarh	084	03	3847	0.1856
Water Body	Uttar Char Madras	085	02	818	0.0839
Water Body	Jinnahgarh	084	03	3722	0.1433
Water Body	Jinnahgarh	084	03	3721	0.1683
Water Body	Jinnahgarh	084	03	3721	0.0029
Water Body	Uttar Char Madras	085	02	857	0.0778
Water Body	Uttar Char Madras	085	02	857	0.1123
Water Body	Uttar Char Madras	085	02	857	0.1051
Water Body	Uttar Char Madras	085	02	805	0.0763
Water Body	Uttar Char Madras	085	02	805	0.0512
Water Body	Jinnahgarh	084	03	3716	0.2276
Water Body	Uttar Char Madras	085	01	99999	0.0092
Water Body	Uttar Char Madras	085	02	804	0.0577
Water Body	Uttar Char Madras	085	02	804	0.1289
Water Body	Jinnahgarh	084	03	3718	0.5621
Water Body	Jinnahgarh	084	03	3718	0.1017
Water Body	Jinnahgarh	084	03	3717	0.0250
Water Body	Jinnahgarh	084	03	3839	0.1017
Water Body	Jinnahgarh	084	03	3843	0.0589
Water Body	Jinnahgarh	084	03	4102	0.0169
Water Body	Jinnahgarh	084	03	4102	0.0175
Water Body	Jinnahgarh	084	03	4102	0.2730
Water Body	Jinnahgarh	084	03	4102	0.2024
Water Body	Jinnahgarh	084	03	4102	0.1990
Water Body	Jinnahgarh	084	03	4102	0.1625
Water Body	Jinnahgarh	084	03	3838	0.0738
Water Body	Jinnahgarh	084	03	3841	0.0149
Water Body	Jinnahgarh	084	03	3819	0.2154
Water Body	Jinnahgarh	084	03	3819	0.2755
Water Body	Jinnahgarh	084	03	3819	0.1121
Water Body	Jinnahgarh	084	03	3842	0.0000
Water Body	Jinnahgarh	084	03	3837	0.1234
Water Body	Jinnahgarh	084	03	3720	0.0433
Water Body	Uttar Char Madras	085	02	836	0.2099
Water Body	Uttar Char Madras	085	02	836	0.0563
Water Body	Uttar Char Madras	085	02	855	0.0302
Water Body	Jinnahgarh	084	03	3840	0.0239
Water Body	Uttar Char Madras	085	02	845	0.0253
Water Body	Uttar Char Madras	085	02	845	0.2375
Water Body	Uttar Char Madras	085	02	845	0.1094
Water Body	Uttar Char Madras	085	02	845	0.1589
Water Body	Jinnahgarh	084	03	3833	0.0889
Water Body	Jinnahgarh	084	03	3833	0.1306
Water Body	Jinnahgarh	084	03	3833	0.0554
Water Body	Uttar Char Madras	085	02	834	0.0109
Water Body	Uttar Char Madras	085	02	820	0.0359
Water Body	Uttar Char Madras	085	02	835	0.0959
Water Body	Uttar Char Madras	085	02	852	0.3513
Water Body	Uttar Char Madras	085	02	852	0.0237
Water Body	Uttar Char Madras	085	02	852	0.1473
Water Body	Uttar Char Madras	085	02	825	0.2304
Water Body	Uttar Char Madras	085	02	825	0.0107



Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Uttar Char Madras	085	02	825	0.0521
Water Body	Uttar Char Madras	085	02	833	0.0432
Water Body	Uttar Char Madras	085	02	854	0.0084
Water Body	Jinnahgarh	084	03	3818	0.0175
Water Body	Uttar Char Madras	085	02	859	0.1941
Water Body	Jinnahgarh	084	03	3723	0.0734
Water Body	Jinnahgarh	084	03	3724	0.0422
Water Body	Uttar Char Madras	085	02	858	0.0772
Water Body	Uttar Char Madras	085	02	858	0.0849
Water Body	Uttar Char Madras	085	02	858	0.0157
Water Body	Uttar Char Madras	085	02	99999	4.7109
Water Body	Jinnahgarh	084	03	3815	0.0395
Water Body	Jinnahgarh	084	03	3725	0.0147
Water Body	Jinnahgarh	084	03	3727	0.1197
Water Body	Uttar Char Madras	085	02	963	0.5553
Water Body	Jinnahgarh	084	03	3831	0.1750
Water Body	Jinnahgarh	084	03	3831	0.0524
Water Body	Jinnahgarh	084	03	3831	0.0383
Water Body	Jinnahgarh	084	03	3831	0.0248
Water Body	Uttar Char Madras	085	02	831	0.2090
Water Body	Uttar Char Madras	085	02	831	0.1822
Water Body	Uttar Char Madras	085	02	831	0.2034
Water Body	Uttar Char Madras	085	02	831	0.2500
Water Body	Uttar Char Madras	085	02	831	0.3257
Water Body	Uttar Char Madras	085	02	831	0.2326
Water Body	Uttar Char Madras	085	02	831	0.1403
Water Body	Uttar Char Madras	085	02	831	0.0850
Water Body	Jinnahgarh	084	03	3726	0.0847
Water Body	Jinnahgarh	084	03	3706	0.0133
Water Body	Jinnahgarh	084	03	3827	0.0211
Water Body	Jinnahgarh	084	03	3827	0.1217
Water Body	Jinnahgarh	084	03	3827	0.3372
Water Body	Uttar Char Madras	085	02	860	0.0030
Water Body	Uttar Char Madras	085	02	861	0.1430
Water Body	Uttar Char Madras	085	02	861	0.0309
Water Body	Uttar Char Madras	085	02	861	0.1345
Water Body	Uttar Char Madras	085	02	847	0.0082
Water Body	Jinnahgarh	084	03	3823	0.2330
Water Body	Jinnahgarh	084	03	3705	0.0622
Water Body	Jinnahgarh	084	03	3830	0.1000
Water Body	Jinnahgarh	084	03	3730	0.0768
Water Body	Jinnahgarh	084	03	3832	0.1119
Water Body	Jinnahgarh	084	03	3814	0.1519
Water Body	Jinnahgarh	084	03	3814	0.2657
Water Body	Jinnahgarh	084	03	3814	0.0507
Water Body	Jinnahgarh	084	03	3814	0.1038
Water Body	Uttar Char Madras	085	02	826	0.0000
Water Body	Uttar Char Madras	085	02	826	0.0008
Water Body	Uttar Char Madras	085	02	808	0.2487
Water Body	Uttar Char Madras	085	02	810	0.0406
Water Body	Uttar Char Madras	085	02	807	0.0233
Water Body	Jinnahgarh	084	03	3813	0.1081
Water Body	Jinnahgarh	084	03	3813	0.1567
Water Body	Jinnahgarh	084	03	3812	0.0257
Water Body	Jinnahgarh	084	03	3812	0.0017
Water Body	Jinnahgarh	084	03	3812	0.1158
Water Body	Jinnahgarh	084	03	3812	0.1500
Water Body	Jinnahgarh	084	03	3728	0.1332
Water Body	Jinnahgarh	084	03	3697	0.1606
Water Body	Uttar Char Madras	085	02	862	0.0186
Water Body	Uttar Char Madras	085	02	862	0.3564
Water Body	Uttar Char Madras	085	02	862	0.1757
Water Body	Uttar Char Madras	085	02	862	0.0635
Water Body	Uttar Char Madras	085	02	862	0.1003
Water Body	Uttar Char Madras	085	02	862	0.0193
Water Body	Uttar Char Madras	085	02	827	0.1647
Water Body	Jinnahgarh	084	03	3698	0.2345
Water Body	Jinnahgarh	084	03	3861	0.0017
Water Body	Uttar Char Madras	085	02	828	0.2975
Water Body	Uttar Char Madras	085	02	828	0.0669

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	03	3702	0.3605
Water Body	Jinnahgarh	084	03	3703	0.1524
Water Body	Jinnahgarh	084	03	3732	0.1131
Water Body	Jinnahgarh	084	03	3732	0.1368
Water Body	Jinnahgarh	084	03	3733	0.3716
Water Body	Jinnahgarh	084	03	3733	0.0065
Water Body	Jinnahgarh	084	03	3733	0.0590
Water Body	Jinnahgarh	084	03	4101	0.0010
Water Body	Jinnahgarh	084	03	4101	0.1411
Water Body	Uttar Char Madras	085	02	891	0.0000
Water Body	Uttar Char Madras	085	02	891	0.0003
Water Body	Uttar Char Madras	085	02	891	0.0003
Water Body	Uttar Char Madras	085	02	891	0.0001
Water Body	Uttar Char Madras	085	02	892	0.1948
Water Body	Uttar Char Madras	085	02	892	0.0006
Water Body	Jinnahgarh	084	03	3862	0.1855
Water Body	Uttar Char Madras	085	02	890	0.0272
Water Body	Uttar Char Madras	085	02	890	0.0686
Water Body	Uttar Char Madras	085	02	890	0.0150
Water Body	Jinnahgarh	084	03	3772	0.2340
Water Body	Jinnahgarh	084	03	3868	0.0034
Water Body	Jinnahgarh	084	03	3868	0.0010
Water Body	Jinnahgarh	084	03	3868	0.0333
Water Body	Jinnahgarh	084	03	3868	0.0017
Water Body	Jinnahgarh	084	03	3868	0.0275
Water Body	Jinnahgarh	084	03	3868	0.0990
Water Body	Uttar Char Madras	085	02	885	0.3286
Water Body	Uttar Char Madras	085	02	885	0.0973
Water Body	Uttar Char Madras	085	02	885	0.0387
Water Body	Uttar Char Madras	085	02	885	0.0014
Water Body	Uttar Char Madras	085	02	885	0.1154
Water Body	Uttar Char Madras	085	02	885	0.1162
Water Body	Uttar Char Madras	085	02	885	0.0495
Water Body	Uttar Char Madras	085	02	886	0.0198
Water Body	Uttar Char Madras	085	02	887	0.4668
Water Body	Uttar Char Madras	085	02	876	0.0000
Water Body	Jinnahgarh	084	03	3863	0.0005
Water Body	Jinnahgarh	084	03	3863	0.0682
Water Body	Uttar Char Madras	085	02	875	0.0299
Water Body	Uttar Char Madras	085	02	875	0.1052
Water Body	Uttar Char Madras	085	02	875	0.1011
Water Body	Uttar Char Madras	085	02	875	0.1686
Water Body	Uttar Char Madras	085	02	875	0.1735
Water Body	Uttar Char Madras	085	02	875	0.1494
Water Body	Uttar Char Madras	085	02	875	0.1337
Water Body	Uttar Char Madras	085	02	875	0.1352
Water Body	Jinnahgarh	084	03	3807	0.0085
Water Body	Jinnahgarh	084	03	3807	0.1110
Water Body	Uttar Char Madras	085	02	889	0.0736
Water Body	Uttar Char Madras	085	02	889	0.0662
Water Body	Uttar Char Madras	085	02	889	0.0000
Water Body	Jinnahgarh	084	03	3808	0.0530
Water Body	Jinnahgarh	084	03	3808	0.1546
Water Body	Jinnahgarh	084	03	3808	0.2341
Water Body	Jinnahgarh	084	03	3808	0.1661
Water Body	Jinnahgarh	084	03	3808	0.1172
Water Body	Jinnahgarh	084	03	3808	0.0428
Water Body	Jinnahgarh	084	03	3809	0.0162
Water Body	Uttar Char Madras	085	02	872	0.1781
Water Body	Uttar Char Madras	085	02	872	0.0000
Water Body	Uttar Char Madras	085	02	872	0.1476
Water Body	Uttar Char Madras	085	02	872	0.1539
Water Body	Uttar Char Madras	085	02	872	0.1882
Water Body	Jinnahgarh	084	03	3810	0.1522
Water Body	Jinnahgarh	084	03	3735	0.0787
Water Body	Uttar Char Madras	085	02	863	0.2386
Water Body	Uttar Char Madras	085	02	863	0.0519
Water Body	Uttar Char Madras	085	02	863	0.1099
Water Body	Uttar Char Madras	085	02	863	0.0562
Water Body	Jinnahgarh	084	03	3866	0.1465

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	03	3693	0.1855
Water Body	Jinnahgarh	084	03	3744	0.0616
Water Body	Jinnahgarh	084	03	3743	0.0051
Water Body	Jinnahgarh	084	03	3743	0.0006
Water Body	Jinnahgarh	084	03	3743	0.0004
Water Body	Uttar Char Madras	085	02	874	0.0324
Water Body	Jinnahgarh	084	03	3740	0.2960
Water Body	Jinnahgarh	084	03	3740	0.0000
Water Body	Jinnahgarh	084	03	3740	0.1207
Water Body	Jinnahgarh	084	03	3806	0.1032
Water Body	Jinnahgarh	084	03	3865	0.0262
Water Body	Jinnahgarh	084	03	3865	0.2214
Water Body	Jinnahgarh	084	03	3694	0.0004
Water Body	Jinnahgarh	084	03	3736	0.1521
Water Body	Jinnahgarh	084	03	3736	0.1573
Water Body	Jinnahgarh	084	03	3741	0.0007
Water Body	Jinnahgarh	084	03	3741	0.1276
Water Body	Jinnahgarh	084	03	3742	0.0907
Water Body	Jinnahgarh	084	03	3803	0.0275
Water Body	Jinnahgarh	084	03	3745	0.0827
Water Body	Uttar Char Madras	085	02	880	0.0778
Water Body	Uttar Char Madras	085	02	880	0.0930
Water Body	Jinnahgarh	084	03	3739	0.0002
Water Body	Jinnahgarh	084	03	3684	0.3048
Water Body	Jinnahgarh	084	03	3684	0.0022
Water Body	Jinnahgarh	084	03	3799	0.0001
Water Body	Jinnahgarh	084	03	3799	0.0030
Water Body	Jinnahgarh	084	03	3799	0.2161
Water Body	Jinnahgarh	084	03	3737	0.0224
Water Body	Jinnahgarh	084	03	3737	0.1784
Water Body	Jinnahgarh	084	03	3800	0.1515
Water Body	Uttar Char Madras	085	02	879	0.1327
Water Body	Uttar Char Madras	085	02	879	0.0558
Water Body	Jinnahgarh	084	03	3869	0.1354
Water Body	Jinnahgarh	084	03	3869	0.1032
Water Body	Jinnahgarh	084	03	3871	0.0742
Water Body	Jinnahgarh	084	03	3872	0.1008
Water Body	Jinnahgarh	084	03	3872	0.0001
Water Body	Jinnahgarh	084	03	3692	0.2379
Water Body	Jinnahgarh	084	03	3738	0.0495
Water Body	Jinnahgarh	084	03	3870	0.0355
Water Body	Jinnahgarh	084	03	3994	0.1466
Water Body	Jinnahgarh	084	03	3746	0.0027
Water Body	Jinnahgarh	084	03	3747	0.1317
Water Body	Jinnahgarh	084	03	3747	0.0919
Water Body	Jinnahgarh	084	03	3750	0.0710
Water Body	Jinnahgarh	084	03	3750	0.1354
Water Body	Uttar Char Madras	085	02	864	0.0141
Water Body	Uttar Char Madras	085	02	864	0.0627
Water Body	Jinnahgarh	084	03	3798	0.0289
Water Body	Jinnahgarh	084	03	3798	0.0645
Water Body	Jinnahgarh	084	03	3798	0.0030
Water Body	Jinnahgarh	084	03	3798	0.0153
Water Body	Jinnahgarh	084	03	3752	0.0156
Water Body	Jinnahgarh	084	03	3752	0.0011
Water Body	Uttar Char Madras	085	02	881	0.0091
Water Body	Jinnahgarh	084	03	3748	0.0390
Water Body	Jinnahgarh	084	03	3748	0.0460
Water Body	Jinnahgarh	084	03	3757	0.2389
Water Body	Jinnahgarh	084	03	3757	0.2454
Water Body	Jinnahgarh	084	03	3757	0.2061
Water Body	Jinnahgarh	084	03	3873	0.0247
Water Body	Jinnahgarh	084	03	3873	0.0739
Water Body	Jinnahgarh	084	03	3755	0.1382
Water Body	Jinnahgarh	084	03	3755	0.1701
Water Body	Uttar Char Madras	085	02	870	0.1711
Water Body	Uttar Char Madras	085	02	870	0.1369
Water Body	Jinnahgarh	084	03	3754	0.0820
Water Body	Uttar Char Madras	085	02	895	0.0277
Water Body	Uttar Char Madras	085	02	895	0.0873

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	03	3749	0.0568
Water Body	Jinnahgarh	084	03	3685	0.0950
Water Body	Uttar Char Madras	085	02	914	0.1117
Water Body	Uttar Char Madras	085	02	914	0.1144
Water Body	Jinnahgarh	084	03	3797	0.0535
Water Body	Uttar Char Madras	085	02	915	0.0625
Water Body	Jinnahgarh	084	03	3796	0.0276
Water Body	Jinnahgarh	084	03	3875	0.1175
Water Body	Uttar Char Madras	085	02	898	0.0362
Water Body	Jinnahgarh	084	03	4083	0.0003
Water Body	Jinnahgarh	084	03	3874	0.1311
Water Body	Uttar Char Madras	085	02	916	0.1349
Water Body	Jinnahgarh	084	03	4108	0.0053
Water Body	Jinnahgarh	084	03	4103	0.0063
Water Body	Jinnahgarh	084	03	3795	0.3650
Water Body	Uttar Char Madras	085	02	913	0.0478
Water Body	Uttar Char Madras	085	02	964	0.0241
Water Body	Uttar Char Madras	085	02	917	0.1023
Water Body	Uttar Char Madras	085	02	917	0.0015
Water Body	Uttar Char Madras	085	02	918	0.0088
Water Body	Kulsumbag	83	4	99999	0.0205
Water Body	Uttar Char Madras	085	02	909	0.2599
Water Body	Uttar Char Madras	085	02	909	0.0472
Water Body	Uttar Char Madras	085	02	909	0.1229
Water Body	Uttar Char Madras	085	02	912	0.1505
Water Body	Uttar Char Madras	085	02	912	0.0633
Water Body	Uttar Char Madras	085	02	912	0.0009
Water Body	Uttar Char Madras	085	02	920	0.2359
Water Body	Uttar Char Madras	085	02	920	0.0850
Water Body	Uttar Char Madras	085	02	866	0.1443
Water Body	Jinnahgarh	084	03	3954	0.2393
Water Body	Jinnahgarh	084	03	3954	0.1710
Water Body	Uttar Char Madras	085	02	910	0.0047
Water Body	Uttar Char Madras	085	02	910	0.1055
Water Body	Uttar Char Madras	085	02	911	0.0008
Water Body	Uttar Char Madras	085	02	911	0.0108
Water Body	Uttar Char Madras	085	02	911	0.0269
Water Body	Uttar Char Madras	085	02	911	0.1921
Water Body	Uttar Char Madras	085	02	911	0.0185
Water Body	Uttar Char Madras	085	02	930	0.0000
Water Body	Jinnahgarh	084	03	3879	0.1274
Water Body	Jinnahgarh	084	03	3956	0.0802
Water Body	Jinnahgarh	084	03	3880	0.0885
Water Body	Jinnahgarh	084	03	3955	0.0476
Water Body	Jinnahgarh	084	03	4091	0.4142
Water Body	Jinnahgarh	084	03	4091	0.7790
Water Body	Uttar Char Madras	085	02	923	0.0580
Water Body	Uttar Char Madras	085	02	923	0.2549
Water Body	Uttar Char Madras	085	02	923	0.1445
Water Body	Uttar Char Madras	085	02	928	0.0147
Water Body	Uttar Char Madras	085	02	928	0.0298
Water Body	Uttar Char Madras	085	02	921	0.0623
Water Body	Uttar Char Madras	085	02	922	0.0006
Water Body	Jinnahgarh	084	03	3881	0.0012
Water Body	Jinnahgarh	084	03	3881	0.0481
Water Body	Jinnahgarh	084	03	3953	0.2901
Water Body	Jinnahgarh	084	03	3953	0.0023
Water Body	Jinnahgarh	084	03	3882	0.1898
Water Body	Jinnahgarh	084	03	3882	0.1571
Water Body	Jinnahgarh	084	03	3942	0.1991
Water Body	Jinnahgarh	084	03	3942	0.1586
Water Body	Uttar Char Madras	085	02	932	0.0056
Water Body	Uttar Char Madras	085	02	933	0.0083
Water Body	Uttar Char Madras	085	02	933	0.0140
Water Body	Jinnahgarh	084	03	3952	0.0267
Water Body	Jinnahgarh	084	03	3946	0.1220
Water Body	Jinnahgarh	084	03	3946	0.0564
Water Body	Jinnahgarh	084	03	3946	0.0002
Water Body	Jinnahgarh	084	03	3946	0.1223
Water Body	Jinnahgarh	084	03	3946	0.0354

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	03	3886	0.0616
Water Body	Jinnahgarh	084	03	3886	0.0663
Water Body	Jinnahgarh	084	03	3886	0.0646
Water Body	Jinnahgarh	084	03	3934	0.2475
Water Body	Jinnahgarh	084	03	3934	0.0102
Water Body	Jinnahgarh	084	03	3943	0.0197
Water Body	Jinnahgarh	084	03	3885	0.0022
Water Body	Jinnahgarh	084	03	3885	0.0347
Water Body	Jinnahgarh	084	03	3926	0.2452
Water Body	Jinnahgarh	084	03	3925	0.0338
Water Body	Jinnahgarh	084	03	3888	0.1372
Water Body	Jinnahgarh	084	03	3922	0.0126
Water Body	Jinnahgarh	084	03	3922	0.0157
Water Body	Jinnahgarh	084	03	3889	0.0016
Water Body	Jinnahgarh	084	03	3889	0.0249
Water Body	Jinnahgarh	084	03	3921	0.0314
Water Body	Jinnahgarh	084	03	3921	0.0319
Water Body	Jinnahgarh	084	03	3921	0.0342
Water Body	Jinnahgarh	084	03	4065	0.4246
Water Body	Jinnahgarh	084	03	3932	0.0050
Water Body	Jinnahgarh	084	03	3933	0.0490
Water Body	Jinnahgarh	084	03	3920	0.0680
Water Body	Jinnahgarh	084	03	3920	0.0370
Water Body	Jinnahgarh	084	03	3931	0.2117
Water Body	Jinnahgarh	084	03	3919	0.2538
Water Body	Jinnahgarh	084	03	3919	0.2340
Water Body	Jinnahgarh	084	03	3891	0.0312
Water Body	Jinnahgarh	084	03	3918	0.0125
Water Body	Jinnahgarh	084	03	3918	0.1266
Water Body	Jinnahgarh	084	03	3918	0.0015
Water Body	Jinnahgarh	084	03	3918	0.0113
Water Body	Jinnahgarh	084	03	3918	0.1804
Water Body	Jinnahgarh	084	03	3918	0.2331
Water Body	Jinnahgarh	084	03	3918	0.0239
Water Body	Jinnahgarh	084	03	3918	0.1060
Water Body	Jinnahgarh	084	03	3918	0.0157
Water Body	Jinnahgarh	084	03	3895	0.0007
Water Body	Jinnahgarh	084	03	4062	0.0027
Water Body	Jinnahgarh	084	03	3916	0.1633
Water Body	Jinnahgarh	084	03	3896	0.0047
Water Body	Jinnahgarh	084	03	3897	0.0022
Water Body	Jinnahgarh	084	03	3897	0.0391
Water Body	Jinnahgarh	084	03	3915	0.0183
Water Body	Jinnahgarh	084	03	3915	0.0042
Water Body	Jinnahgarh	084	03	3915	0.0785
Water Body	Jinnahgarh	084	03	3915	0.0583
Water Body	Jinnahgarh	084	03	3915	0.0248
Water Body	Jinnahgarh	084	03	3898	0.0393
Water Body	Jinnahgarh	084	03	3901	0.5848
Water Body	Jinnahgarh	084	03	3901	0.0723
Water Body	Jinnahgarh	084	03	3903	0.0473
Water Body	Jinnahgarh	084	03	3903	0.0754
Water Body	Jinnahgarh	084	03	3903	0.0167
Water Body	Jinnahgarh	084	03	3902	0.0220
Water Body	Jinnahgarh	084	03	3902	0.1434
Water Body	Jinnahgarh	084	03	3914	0.0785
Water Body	Jinnahgarh	084	03	4066	0.0001
Water Body	Jinnahgarh	084	03	4067	0.0038
Water Body	Jinnahgarh	084	03	3913	0.0877
Water Body	Jinnahgarh	084	03	3905	0.0232
Water Body	Jinnahgarh	084	03	4092	0.0024
Water Body	Jinnahgarh	084	03	3912	0.0210
Water Body	Jinnahgarh	084	03	4068	0.1842
Water Body	Jinnahgarh	084	03	3906	0.0244
Water Body	Jinnahgarh	084	03	3906	0.0011
Water Body	Jinnahgarh	084	03	3907	0.0009
Water Body	Jinnahgarh	084	03	3907	0.0147
Water Body	Jinnahgarh	084	03	3908	0.0268
Water Body	Jinnahgarh	084	03	4071	0.0019
Water Body	Jinnahgarh	084	03	4071	0.1651

Landuse	Mouza	JL	Sheet	Plot No	Area (Acre)
Water Body	Jinnahgarh	084	03	4071	0.1631
Water Body	Jinnahgarh	084	03	4072	0.0249
Water Body	Jinnahgarh	084	03	4093	0.9986
Water Body	Jinnahgarh	084	03	4070	0.0036
Water Body	Jinnahgarh	084	03	4078	0.1122
Water Body	Jinnahgarh	084	03	4079	0.1058
Water Body	Jinnahgarh	084	03	4075	0.0144
Water Body	Jinnahgarh	084	03	4080	0.0153
Water Body	Jinnahgarh	084	03	4074	0.0030
Water Body	Jinnahgarh	084	03	4081	0.0414
Water Body	Jinnahgarh	084	02(1st	1241	0.0008
Water Body	Jinnahgarh	084	02(1st	1241	0.0008
Water Body	Jinnahgarh	084	02(1st	1233	0.0000
Water Body	Jinnahgarh	084	02(1st	1233	0.0000
Water Body	Uttar Char Madras	085	01	512	0.0004
Water Body	Uttar Char Madras	085	01	512	0.0004