**REPUBLIC OF CAMEROON** 

..... Peace-Work-Fatherland

MEME DIVISION

.....

KUMBA URBAN COUNCIL

**REPUBLIQUE DU CAMEROUN** 

..... Paix-Travail-Patrie

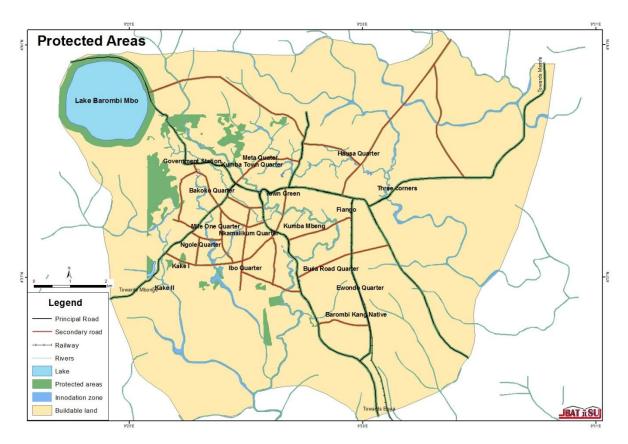
DEPARTEMENT DE MEME

.....

COMMUNAUTE URBAINE DE KUMBA



# KUMBA CITY MASTER PLAN



# PLANNING REPORT



Bureau d'Appui Technique à l'Immobilier Et Aux Services Urbains etudes urbanistiques, environnementales, socio economiques, foncieres et cadastrales

December 2012

### TABLE OF CONTENT

TABLE OF CONTENT	i
LIST TABLES	viii
LIST OF PLANS	ix
LIST OF GRAPHS	x
INTERVENANTS	xi
MISSION STATEMENT	xii
1.1 INTRODUCTION	
1.1 INTRODUCTION	2
1.2 PLANNING APPROACH AND METHODOLOGY	2
1.3 LIMITATIONS	Erreur ! Signet non défini.
2.0 BACKGROUND OF KUMBA CITY	4
2.1 SUB-REGIONAL CONTEXT	5
2.2.1 Distribution of Land within the Planning Area.	
2.3 CHARACTERISTICS OF NATURAL SITE	10
2.4 CHARACTERISTICS OF MAN-MADE SITE	12
2.5 Population Projection	14
2.6 LAND REQUIRED FOR URBAN DEVELOPMENT IN KUMBA	16
2.7 DEVELOPMENT SCENARIOS	
2.8 Recommendation	19
3.0 URBAN SPATIAL STRUCTURE AND ORGANIZATION	20
3.1 EXISTING SITUATION	21
3.2 OBJECTIVES	21
3.3 THE SPATIAL STRUCTURE OF KUMBA CITY         3.3.1       Guidelines for Spatial Structure and Organisation of Kumba         3.3.2       Elements of Spatial Structure and Organization         3.1.3       Concept of Urban Spatial Structure	21 22
3.4 SPATIAL STRUCTURE AND ORGANIZATION OF KUMBA CITY	24
3.5 PROPOSED INTERNAL SPATIAL STRUCTURE	24
Kumba City Master Planning Report	Page i

3.5.1 Kumba Inner Area	24
3.5.2 Kumba Southeast	24
3.5.3 Kumba Southwest	
3.5.4 Kumba Northeast	24
3.5.5 Kumba West	
3.5.6 Kumba North	
3.6 HIERARCHY OF KUMBA SERVICE CENTRES	25
3.7 LAND ALLOCATION BY SPATIAL UNITS	28
3.8 PRIORITY PROJECTS OF URBAN SPATIAL STRUCTURE	
3.8.1 Official delimitation of Kumba City Planning Area	
3.8.2 Delimitation of proposed urban districts	
3.8.3 Carry out five yearly censuses of Kumba City Area	
3.8.4 Acquisition of satellite images to cover the whole planning area	30
4.0 PROPOSED LAND USE PLAN	32
4.1 OBJECTIVES OF LAND USE PLAN	33
4.2 EXISTING LAND USE PATTERN	33
4.3 PROPOSED MACRO LAND USE CATEGORIES	35
4.4 ELEMENTS OF URBAN DISTRICT LAND USE PLAN	36
4.5 LAND USE ZONING REGULATIONS	36
4.5.1 Processes and procedures of land use control measures shall be clearly defined for:	
4.5.2 Micro land use rules and regulations shall be prepared and adopted as council planning bye-laws	
4.5.3 Land use Standards shall be prepared and enforced by KCC and Kumba I, II and III.	37
4.6 Land Use Implementation Programme	37
4.4.1 Preparation of Urban District Land Use Plans	
4.4.2 Preparation of Neighborhood Plans in Priority Development Area (PDA)	
4.4.3 Preparation of CBD and Urban District Service Centre Plans	
4.4.4 Preparation of Kumba City land use rules and regulations	37
5.0 NETWORKS AND INFRASTRUCTURE	39
5.1 ROAD NETWORKS	40
5.1.1 Objectives	40
5.1.2 Hierarchy of Urban Roads	
5.1.3 Existing Road Network	40
5.1.4 Proposed Road Networks	42
5.1.4.1 Arterial Roads	42
5.1.4.2 Freeways	42 42
5.1.4.3 Primary Roads	42 42
5.1.4.4 Secondary Roads	42 42
	42 43
5.1.4.6 Technical Details 5.1.4.6 Typical Cross Sections of Roads	
5.1.4.8 Estimated Lengths of Priority Roads	43 47
	,

5.1.5 Priority Projects	47
5.1.5.1 Rehabilitation of tarred urban roads	47
5.1.5.2 Upgrading of existing primary roads	47
5.1.5.3 Upgrading of existing secondary roads	
5.1.5.4 Extension of primary and secondary road networks	47
5.2 RAIL NETWORK	47
5.3 DRAINAGE NETWORKS	49
5.3.1 Existing Situation	49
5.3.2 Objectives	49
5.3.3 Rules and regulations	49
5.3.4 Recommended Projects	
5.3.4.1 Design of natural drainage networks	
5.3.4.2 Covering of existing constructed open side drains along tarred roads	
5.3.4.3 Construction of priority natural drainage	49
5.4 Sewage Networks and Systems	
5.4.1 Existing Situation	
5.4.2 Objectives	
5.4.3 Rules and Regulations	
5.4.4 Recommended Projects	
5.4.4.1 Construction of adequate public conveniences	
5.4.4.2 Effective and regular control of private sewage facilities	51
5.5 WATER SUPPLY NETWORKS	
5.5.1 Existing Situation	
5.5.2 Objectives	
5.5.3 Rules and regulations for water supply shall include:	
5.5.4 Recommended Projects	53
5.5.4.1 Protection of water catchment	
5.5.4.2 Rehabilitation and regular maintenance of water supply networks and installations	
5.5.4.3 Put in place water quality assurance measures	
5.5.4.4 Carry out studies for upgrading the water supply capacity	
5.5.4.5 Upgrade water supply capacity	
5.6 ENERGY SUPPLY NETWORKS	
5.6.1 Existing Situation	
5.6.2 Objectives	
5.6.3 Rules and regulations for the supply of energy shall include:	
5.6.4 Electricity Supply Networks	
5.6.5 Recommended Projects	
5.6.5.1 Diversification of sources of energy	
5.6.5.2 Extension of existing electricity networks	
5.6.5.3 Public street lighting	
5.7 COMMUNICATION FACILITIES	
5.7.1 Existing Situation	
5.7.2 Objective	57
5.7.3 Rules and regulation for communication facilities shall include:	57

5.7.4 Recommended Projects	57
5.7.4.1 Extend communication fiber network to Kumba	
5.7.4.2 Rehabilitate and upgrade existing fixed telephone networks and installations	
5.7.4.3 Upgrade mobile telephone facilities	57
6.0 TRANSPORT AND TRAFFIC PLAN	59
6.1 EXISTING SITUATION	60
6.2 OBJECTIVE	60
6.3 TRANSPORT AND TRAFFIC MANAGEMENT PLAN	60
6.4 RULES AND REGULATIONS FOR PARKING FACILITIES SHALL INCLUDE:	60
6.5 RECOMMENDED PROJECTS	60
6.5.1 Selection, acquisition and reservation of sites for Council motor and lorry parks	
6.5.2 Rehabilitation and upgrading of existing council motor parks	60
6.5.3 Preparation of Kumba City parking rules and regulations	
6.5.4 Carry out feasibility studies for creating a Kumba City municipal bus system	60
7.0 LAND MANAGEMENT AND HOUSING	62
7.1 EXISTING SITUATION	63
7.2 PROJECTION OF HOUSING DEMAND AND NEEDS: 2012 -2027	63
7.3 OBJECTIVES	63
7.4 UPGRADING AND INFILLING OF HOUSING AREA	64
7.5 CREATION OF NEW HOUSING LAYOUTS	64
7.6 RECOMMENDED PROJECTS	64
7.6.1 Facilitate access to housing finance and construction techniques and technologies	
7.6.2 Facilitate access to housing land for the poor	64
7.6.3 Facilitate access to basic services and utilities in housing areas	
7.6.4 Construction of 1000 social houses yearly	
7.6.5 Upgrading of slum areas	64
7.7 RULES AND REGULATIONS FOR RESIDENTIAL LAND USES	65
8. O PUBLIC AND COMMUNITY FACILITIES	67
8.1 EXISTING SITUATION	68
8.2 OBJECTIVES	68
8.3 EDUCATIONAL FACILITIES	68
8.3.2 Projected Demand for Government Schools: 2012 – 2027	
8.3.3 Location	
8.3.4 Recommended Projects	
8.3.4.1 Rehabilitation and upgrading of existing schools	
8.3.4.2 Acquire and reserve sites for educational facilities	
8.3.4.3 Provide new educational facilities to match growing demand	69

8.3.5 Rules and Regulations	69
8.4 HEALTH FACILITIES	82
8.4.1 Proposed Standards for Health Facilities	82
8.4.2 Projected Demand for Public Health Facilities	82
8.4.3 Location plans	83
8.4.4 Recommended Projects	83
8.4.4.1 Rehabilitate and upgrade existing public health facilities	
8.4.4.2 Acquire and reserve sites for future public health facilities	
8.4.4.3 Provide new public health facilities to match growing demand	83
8.5 MARKETS AND SHOPPING CENTRES	86
8.6 PARKING FACILITIES	86
8.6.2 Location of motor, lorry and bus parks	
8.7 CIVIC AND CULTURAL FACILITIES	87
8.8 WELFARE FACILITIES	88
8.9 SPORTS AND RECREATION	89
8.10 Open Spaces and Greens	
9.0 ENVIRONMENTAL MANAGEMENT PLAN	
9.1 OBJECTIVES	94
9.2 SOLID WASTE MANAGEMENT	94
9.2.1 Existing Situation	
9.2.2 Objective	
9.2.3 Management Processes and Procedures	
9.2.4 Rules and Regulations	94
9.2.5 Recommended Projects	94
9.3 SEWAGE MANAGEMENT	95
9.3.1 Existing Situation	95
9.3.2 Objective	95
9.3.3 Management Processes and Procedures	
9.3.4 Rules and Regulations	
9.3.5 Recommended Projects	95
9.4 POLLUTION	95
9.4.1 Existing Situation	95
9.4.2 Objective	95
9.4.3 Rules and Regulations	95
9.5 PROTECTED AREAS	96
9.5.1 Existing Situation	
9.5.2 Objective	96
9.5.3 Management Processes and Procedures	96
9.5.4 Rules and Regulations	
9.5.5 Recommended Projects	
9.5.6 Reclamation of occupied protected areas	96

Page v

9.6       ENVIRONMENTAL IMPACT ASSESSMENT       98         9.6.1       Existing Situation       98         9.6.2       Objective       98         9.6.3       Processes and Procedures       98         9.6.3       Processes and Procedures       98         10.0       EXISTING SITUATION       100         10.1       EXISTING SITUATION       101         10.2       OBJECTIVE       101         10.3       ECONOMIC BASE STRATEGIES       102         10.3.1       Agricultural Production and Natural Resource Exploitation       102         10.3.1       Industrial and Manufacturing Base       102         10.3.3       Informal and Formal Economic Activities       103         10.3.4       Tourism       103         10.3.5       Financial and Capital Market       103         10.3.6       Quaternary Services       103         10.3.7       Informal and Formal Economic Activities       104         10.3.8       Money Flow       104         10.3.9       Corporate Investments       105         10.4.1       Cary out a Industrial and manufacturing base study of Kumba and its sub-region       105         10.4.1       Cary out a Industrial and manufacturing base study of Kumba <th>9.5.7 Resettlement of those displaced by reclamation schemes</th> <th>96</th>	9.5.7 Resettlement of those displaced by reclamation schemes	96
9.6.1       Existing Situation       98         9.6.2       Objective       98         9.6.3       Processes and Procedures       98         10.0       ECONOMIC BASE PLAN       100         10.1       EXISTING SITUATION       101         10.2       OBJECTIVE       101         10.3       ECONOMIC BASE STRATEGIES       102         10.3.1       Agricultural Production and Natural Resource Exploitation       102         10.3.2       Processing of Produce and Raw Materials       102         10.3.3       Industrial and Manufacturing Base       103         10.3.4       Tourism       103         10.3.5       Service Activities       103         10.3.6       Financial and Capital Market       103         10.3.7       Informal Economic Activities       104         10.3.8       Corporate Investments       104         10.3.9       Corporate Investments       104         10.4       Commended Projects       105         10.4.1       Carry out a financial and manufacturing base study of Kumba and its sub-region       105         10.4.1       Carry out a financial market feasibility study for Kumba       105         11.0       INSTITUTIONAL CAPACITY BUILDING PLAN	9.6 ENVIRONMENTAL IMPACT ASSESSMENT	98
9.6.2       Objective       98         9.6.3       Processes and Procedures       98         9.0.0 ECONOMIC BASE PLAN		
9.6.3 Processes and Procedures       98         10.0 ECONOMIC BASE PLAN       100         10.1 EXISTING SITUATION       101         10.2 OBJECTIVE       101         10.3 ECONOMIC BASE STRATEGIES       102         10.3.1 Agricultural Production and Natural Resource Exploitation       102         10.3.2 FOROSENIG BASE STRATEGIES       102         10.3.1 Agricultural Production and Natural Resource Exploitation       102         10.3.2 FOROSENIG BASE STRATEGIES       102         10.3.4 Tourism       102         10.3.5 Guatemary Services       103         10.3.6 Guatemary Services       103         10.3.6 Guatemary Services       103         10.3.7 Informal and Formal Economic Activities       104         10.3.8 Money Flow       104         10.3.9 Corporate Investments       104         10.3.1 Carry out a financial market feasibility study for Kumba and its sub-region       105         10.4.1 Carry out a financial market feasibility study for Kumba       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)		
10.1 EXISTING SITUATION	9.6.3 Processes and Procedures	98
10.2 OBJECTIVE       101         10.3 ECONOMIC BASE STRATEGIES       102         10.3.1 Agricultural Production and Natural Resource Exploitation       102         10.3.2 Processing of Produce and Raw Materials       102         10.3.3 Industrial and Manufacturing Base       102         10.3.4 Tourism       103         10.3.5 Service Activities       103         10.3.6 Quaternary Services       103         10.3.7 Informal and Formal Economic Activities       103         10.3.8 Money Flow       104         10.3.9 Corporate Investments       104         10.3.1 Construction Industry       104         10.4.1 Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.2 Carry out a financial market feasibility study for Kumba       105         11.0 INSTITUTIONAL CAPACITY BUILDING PLAN       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110<	10.0 ECONOMIC BASE PLAN	100
10.3 ECONOMIC BASE STRATEGIES       102         10.3.1 Agricultural Production and Natural Resource Exploitation       102         10.3.2 Processing of Produce and Raw Materials       102         10.3.3 Industrial and Manufacturing Base       103         10.3.4 Tourism       103         10.3.5 Service Activities       103         10.3.6 Quaternary Services       103         10.3.7 Informal and Formal Economic Activities       104         10.3.8 Money Flow       104         10.3.9 Corporate Investments       104         10.3.10 Construction Industry       104         10.3.10 Construction Industry       104         10.4.1 Carry out a financial and manufacturing base study of Kumba and its sub-region       105         10.4.2 Carry out a financial market feasibility study for Kumba       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.4.4 What is a Planning City Planning Authori	10.1 EXISTING SITUATION	101
10.3.1 Agricultural Production and Natural Resource Exploitation       102         10.3.2 Processing of Produce and Raw Materials       102         10.3.3 Industrial and Manufacturing Base       103         10.3.4 Tourism       103         10.3.5 Service Activities       103         10.3.6 Quaternary Services       103         10.3.6 Financial and Capital Market       103         10.3.7 Informal and Formal Economic Activities       104         10.3.8 Money Flow       104         10.3.9 Corporate Investments       104         10.3.10 Construction Industry       104         10.3.2 Corporate Investments       105         10.4.1 Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.2 Carry out a financial market feasibility study for Kumba       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (P	10.2 OBJECTIVE	101
10.3.1 Agricultural Production and Natural Resource Exploitation       102         10.3.2 Processing of Produce and Raw Materials       102         10.3.3 Industrial and Manufacturing Base       103         10.3.4 Tourism       103         10.3.5 Service Activities       103         10.3.6 Quaternary Services       103         10.3.6 Financial and Capital Market       103         10.3.7 Informal and Formal Economic Activities       104         10.3.8 Money Flow       104         10.3.9 Corporate Investments       104         10.3.10 Construction Industry       104         10.3.2 Corporate Investments       105         10.4.1 Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.1 Carry out a financial market feasibility study for Kumba       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (P	10.3 ECONOMIC BASE STRATEGIES	102
10.3.3       Industrial and Manufacturing Base       102         10.3.4       Tourism       103         10.3.5       Service Activities       103         10.3.6       Quaternary Services       103         10.3.6       Financial and Capital Market       103         10.3.6       Financial and Capital Market       103         10.3.7       Informal and Formal Economic Activities       104         10.3.8       Money Flow       104         10.3.9       Corporate Investments       104         10.3.10       Construction Industry       104         10.3.10       Construction Industry       104         10.4       Recommended Projects       105         10.4.1       Carry out a financial market feasibility study for Kumba and its sub-region       105         11.0       INSTITUTIONAL CAPACITY BUILDING PLAN       107         11.1       EXISTING SITUATION       108         11.2       OBJECTIVE       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4       K		
10.3.3       Industrial and Manufacturing Base       102         10.3.4       Tourism       103         10.3.5       Service Activities       103         10.3.6       Quaternary Services       103         10.3.6       Financial and Capital Market       103         10.3.6       Financial and Capital Market       103         10.3.7       Informal and Formal Economic Activities       104         10.3.8       Money Flow       104         10.3.9       Corporate Investments       104         10.3.10       Construction Industry       104         10.3.10       Construction Industry       104         10.4       Recommended Projects       105         10.4.1       Carry out a financial market feasibility study for Kumba and its sub-region       105         11.0       INSTITUTIONAL CAPACITY BUILDING PLAN       107         11.1       EXISTING SITUATION       108         11.2       OBJECTIVE       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4       K	10.3.2 Processing of Produce and Raw Materials	102
10.3.4 Tourism       103         10.3.5 Service Activities       103         10.3.6 Quaternary Services       103         10.3.6 Financial and Capital Market       103         10.3.7 Informal and Formal Economic Activities       103         10.3.8 Money Flow       104         10.3.9 Corporate Investments       104         10.3.10 Construction Industry       104         10.3.10 Construction Industry       104         10.3.10 Construction Industry       105         10.4.1 Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.1 Carry out a financial market feasibility study for Kumba       105         11.0 INSTITUTIONAL CAPACITY BUILDING PLAN       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES </td <td></td> <td></td>		
10.3.6       Quaternary Services       103         10.3.6       Financial and Capital Market       103         10.3.7       Informal and Formal Economic Activities       104         10.3.8       Money Flow       104         10.3.9       Corporate Investments       104         10.3.10       Construction Industry       104         10.3.10       Construction Industry       104         10.4       Recommended Projects       105         10.4.1       Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.2       Carry out a financial market feasibility study for Kumba       107         11.1       EXISTING SITUATION       108         11.2       OBJECTIVE       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4       KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1       What is a Planning Authority?       110         11.4.2       Terms of reference for a Planning Commission       110         11.4.3       The members of Kumba City Planning Authority (PA) should include:       110         11.4.3       The members of		
10.3.6 Financial and Capital Market       103         10.3.7 Informal and Formal Economic Activities       104         10.3.8 Money Flow       104         10.3.9 Corporate Investments       104         10.3.10 Construction Industry       104         10.3.10 Construction Industry       104         10.4 Recommended Projects       105         10.4.1 Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.2 Carry out a financial market feasibility study for Kumba       105         10.4.2 Carry out a financial market feasibility study for Kumba       107         11.1 EXISTING SITUATION       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS		
10.3.7       Informal and Formal Economic Activities       104         10.3.8       Money Flow       104         10.3.9       Corporate Investments       104         10.3.10       Construction Industry       104         10.4.1       Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.1       Carry out a financial market feasibility study for Kumba       105         10.4.2       Carry out a financial market feasibility study for Kumba       105         11.0       INSTITUTIONAL CAPACITY BUILDING PLAN       107         11.1       EXISTING SITUATION       108         11.2       OBJECTIVE       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4       KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1       What is a Planning Authority?       110         11.4.2       Terms of reference for a Planning Commission       110         11.4.3       The members of Kumba City Planning Authority (PA) should include:       110         11.4.3       The members of Kumba City Planning Authority (PA) should include:       110         11.6       DEVELOPMENT OF PARTNERSHI		
103.8 Money Flow       104         10.3.9 Corporate Investments       104         10.3.10 Construction Industry       104         10.4 Recommended Projects       105         10.4.1 Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.1 Carry out a financial market feasibility study for Kumba       105         10.4.2 Carry out a financial market feasibility study for Kumba       105         11.0 INSTITUTIONAL CAPACITY BUILDING PLAN       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112 <td></td> <td></td>		
103.9 Corporate Investments       104         10.3.10 Construction Industry       104         10.4 Recommended Projects       105         10.4.1 Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.1 Carry out a financial market feasibility study for Kumba       105         10.4.2 Carry out a financial market feasibility study for Kumba       105         10.4.2 Carry out a financial market feasibility study for Kumba       105         11.0 INSTITUTIONAL CAPACITY BUILDING PLAN	10.3.7 Informal and Formal Economic Activities	104
10.3.10       Construction Industry       104         10.4       Recommended Projects       105         10.4.1       Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.2       Carry out a financial market feasibility study for Kumba       105         10.4.2       Carry out a financial market feasibility study for Kumba       105         11.0       INSTITUTIONAL CAPACITY BUILDING PLAN       107         11.1       EXISTING SITUATION       108         11.2       OBJECTIVE       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3       ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4       KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1       What is a Planning Authority?       110         11.4.2       Terms of reference for a Planning Commission       110         11.4.3       The members of Kumba City Planning Authority (PA) should include:       110         11.5       PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6       DEVELOPMENT OF PARTNERSHIP       111         11.7       KUMBA CITY COMMUNICATION PLAN       112         11.8       PRIORITY PROJECTS       112 <td></td> <td></td>		
10.4 Recommended Projects       105         10.4.1 Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.2 Carry out a financial market feasibility study for Kumba       105         11.0 INSTITUTIONAL CAPACITY BUILDING PLAN       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112		
10.4.1 Carry out an industrial and manufacturing base study of Kumba and its sub-region       105         10.4.2 Carry out a financial market feasibility study for Kumba       105         11.0 INSTITUTIONAL CAPACITY BUILDING PLAN       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112		
10.4.2 Carry out a financial market feasibility study for Kumba       105         11.0 INSTITUTIONAL CAPACITY BUILDING PLAN       107         11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112		
11.0 INSTITUTIONAL CAPACITY BUILDING PLAN		
11.1 EXISTING SITUATION       108         11.2 OBJECTIVE       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112	10.4.2 Carry out a financial market feasibility study for Kumba	105
11.2 OBJECTIVE	11.0 INSTITUTIONAL CAPACITY BUILDING PLAN	107
11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       108         11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112	11.1 EXISTING SITUATION	108
11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS       109         11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112	11.2 OBJECTIVE	108
11.4 KUMBA CITY PLANNING AUTHORITY (PA)       110         11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112	11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS	108
11.4.1 What is a Planning Authority?       110         11.4.2 Terms of reference for a Planning Commission       110         11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112	11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS	109
11.4.2 Terms of reference for a Planning Commission	11.4 KUMBA CITY PLANNING AUTHORITY (PA)	110
11.4.3 The members of Kumba City Planning Authority (PA) should include:       110         11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112	11.4.1 What is a Planning Authority?	110
11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES       110         11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112	11.4.2 Terms of reference for a Planning Commission	110
11.6 DEVELOPMENT OF PARTNERSHIP       111         11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112	11.4.3 The members of Kumba City Planning Authority (PA) should include:	110
11.7 KUMBA CITY COMMUNICATION PLAN       112         11.8 PRIORITY PROJECTS       112         11.8.1 Employment of adequate and competent technical personnel       112         11.8.2 Setting up of Kumba City Planning Authority       112	11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES	110
11.8 PRIORITY PROJECTS11211.8.1 Employment of adequate and competent technical personnel11211.8.2 Setting up of Kumba City Planning Authority112	11.6 DEVELOPMENT OF PARTNERSHIP	111
11.8.1 Employment of adequate and competent technical personnel11211.8.2 Setting up of Kumba City Planning Authority112	11.7 KUMBA CITY COMMUNICATION PLAN	112
11.8.1 Employment of adequate and competent technical personnel11211.8.2 Setting up of Kumba City Planning Authority112	11.8 PRIORITY PROJECTS	112
11.8.2 Setting up of Kumba City Planning Authority112		

11.8.4 Kumba City communication plan	112
11.8.5 Creation of Kumba City partnership platform	112
12.0 FIVE YEARLY PROGRAMME OF IMPLEMENTATION	115
13.0 FINANCIAL PLAN	120
13.1 EXISTING SITUATION	121
13.2 OBJECTIVES	121
13.3 FINANCE MOBILIZATION PLAN	121
13.3.1 Widening Kumba City and Kumba I, II and III development tax bases	121
13.3.2 Increasing Kumba City and Kumba I, II and III annual capital investment for planning,	
development and maintenance:	121
13.4 PRIORITY PROJECTS	122
13.4.1 Studies for Widening Kumba City and Kumba I, II and III development tax bases	122
13.4.2 Kumba City Development Platform	
13.4.3 Feasibility study for community participation in development	122
14.0 ANNEXES	124

### **LIST TABLES**

Table N° 1 : State of Sub-regional Transportation Networks	5
Table N° 2 : Settlements of sub-regional Hierarchy	6
Table N° 3 shows the minimum Land Carrying Capacity within the planning area.	10
Table N° 4 : Minimum Land carrying Capacities within the planning area	Erreur ! Signet non défini.
Table N° 5 : Population Growth between National Censuses	
Table N° 6 : Population Projection Variants : 2012- 2027	15
Table N° 7 : Proposed populations sizes of elements of urban spatial structure	23
Table N° 8 : Land Allocation by Spatial Units	28
Table N° 9 : Project sheet	31
Table N°10 : Project Sheet	38
Table N° 11 : Project Sheet	48
Table N° 12 : Project Sheet	50
Table N° 13 : Project Sheet	52
Table N° 14 : Project Sheet	54
Table N° 15 : Project Sheet	56
Table N° 16 : Project Sheet	58
Table N° 17 : Project Sheet	61
Table N° 18 : Projected Housing demands and Needs	63
Table N° 19 : Plot development norms and standards	65
Table N° 20 : Project Sheet	66
Table N° 21 : Proposed Standards for Public Educational Facilities	68
Table N° 22 : Projected Demand for Government Schools: 2012 – 2027	69
Table N° 23 : Proposed Standards for Health Facilities	82
Table N° 24 : Projected Demand for Public Health Facilities	82
Table N° 25 : Proposed Standards for Markets and Shopping Facilities	86
Table N° 26 : Proposed Standards for Parking Facilities	Erreur ! Signet non défini.
Table N° 27 : Proposed Standards for Public Libraries and Creativity Centres	87
Table N° 28 : Proposed Standards for Table Public and Community halls	88
Table N° 29 : Proposed standards for welfare facilities	88
Table N° 30 : Proposed Standards for Sports and Recreational Facilities	
Table N° 31 : Project Sheet	91
Table N° 32 : Project Sheet	99
Table N° 33 : Project Sheet	106
Table N° 34 : Project Sheet	113
Table N° 35 : Projet Sheet	123

## LIST OF FIGURES

Figure N° 1 : Settlements of regional functions	7
Figure N° 2 : Limits of Planning Area	
Figure N° 3 : Characteristics of Natural Site	
Figure N° 4 : Characteristics of Man-made Site	
Figure N° 5 Preferred Development Scenario	
Figure N° 6 Model of urban structure of Kumba	
Figure N° 7 : Elements of Spatial Structure and Organization of Kumba	
Figure N° 8 : Proposed Urban Spatial Structure of Kumba City	
Figure N° 9 : Proposed Hierarchy of service Centres	27
Figure N° 10 : Urban Spatial Structure and Land Allocation by Spatial Units of Kumba	29
Figure N° 11 : Existing land use pattern	
Figure N° 12 : Existing road networks	
Figure N° 13 : Proposed Hierarchy of Road Networks	
Figure N° 14 : Location and catchment areas of existing government schools	
Figure N° 15 : Location and catchment areas of proposed government Nursery schools	
Figure N° 16 : Location and catchment areas of existing and proposed government Nursery s	
défini.	
Figure N° 17 : Location of existing government primary schools	Erreur ! Signet non défini.
Figure N° 18 : Location of proposed Government Proposed Schools	Erreur ! Signet non défini.
Figure N° 19 : Location of existing and proposed Government Primary Schools	Erreur ! Signet non défini.
Figure N° 20 : Location of existing government Secondary and High schools	Erreur ! Signet non défini.
Figure N° 21 : Location of existing Government Secondary and High Schools	Erreur ! Signet non défini.
Figure N° 22 : Location of existing Proposed Secondary and High Schools	Erreur ! Signet non défini.
Figure N° 23 : Location of existing Technical Secondary and High Schools	Erreur ! Signet non défini.
Figure N° 24 : Location of proposed Technical Secondary and High Schools	Erreur ! Signet non défini.
Figure N° 25 : Location of proposed Technical Secondary and High Schools	Erreur ! Signet non défini.
Figure N° 26 : Location of existing and proposed Technical Secondary and High Schools	Erreur ! Signet non défini.
Figure N° 27 : Location of existing Government Health Services	Erreur ! Signet non défini.
Figure N° 28 : Location of existing and proposed government Health Centres	Erreur ! Signet non défini.
Figure N° 29 : Environmentally Protected Areas	97

## **UST OF GRAPHS**

Graph N° 1 : Alternative Trends of Population Growth: 2012 - 2027	15
Graph N° 2 : Typical Cross Sections of Arterial and Primary 30 m (scale : 1/100 <sup>e</sup> )	45
Graph N° 3 : Typical Cross Sections of Primary and Secondary Roads 22 m (scale : 1/100 <sup>e</sup> )	46
Graph N° 4 : Organizational structure of Kumba City Council technical services	109

## INTERVENANTS

- Dr François Nanfack: General Manager, BATISU Sarl
- Mr Zachary Fru Nsutebu : Chief of mission
- Mr Nchouwat Mouchili Idrissa : Chief of project
- Mrs Brigitte Folefack : Facilitator
- Mr Sendze David Layili : Facilitator

## **MISSION STATEMENT**

Kumba, the metropolitan Centre of Meme Division and the strategic urban centre of the South West Region, is located on a suitable well drained site. In spite of the existing largely unplanned urban development, it could be planned, upgraded and systematically extended to play its strategic role within the sub-region and offer a beautiful, healthy, safe, secured, comfortable, convenient and functional living environment which provides equitable opportunities to all its inhabitants and visitors. Kumba should eventually take its place as an emerging modern city by 2035 within the national development context. To do so, requires the effective involvement and participation of all its stakeholders and partners.

This plan aims at achieving the following overall goals in the long term: -

- To completely curb the premature invasion and conversion of rural land into urban land;
- To facilitate access to land in suitable areas for urban growth and expansion;
- To completely prevent the spontaneous land subdivision and construction on the urban fringe;
- To gradually and progressively infill vacant plots within the existing built areas;
- To gradually and progressively upgrade degraded urban areas;
- To rehabilitate and upgrade existing road networks and infrastructure;
- To extend existing road networks to match rapid urban growth and expansion;
- To rehabilitate and upgrade existing public utility networks and installations;
- To make optimum use of available capacities of public and community facilities;
- To ensure the rational location and sitting of public and community facilities and
- To gradually and progressively segregate residential land uses according to emerging socio-economic status groups while protecting

**KUMBA CITY MASTER PLAN** 

### I.I INTRODUCTION

### PLANNING REPORT



#### 1.1 INTRODUCTION

The preparation of a Master Plan for Kumba City is the initiative of the Government Delegate of Kumba City Council and the Minister of Housing and Urban Development. It is within the framework of the following national objectives: -

- National growth, employment and durable economic development;
- Fight against poverty
- Good governance
- National decentralization strategy

This involves establishing and validating through a participatory process which brings together concerned local stakeholders, the preparation of a master plan for Kumba City with a short and medium term development priorities.

In Particular, this plan should present the priority actions to be taken by Kumba City Council, all institutional partners, the private sector and civil society inclusive aimed at the following: -

- Reinforcing the attractiveness and competiveness of Kumba by making optimum use of development potentials of the area and taking concrete and appropriate actions;
- Creating conditions for growth through the judicious planning of economic poles which permit revenue generation from the informal, agro industrial. Tourism and cultural sectors;
- Give attention to the planning principle which reinforces the relationship between development poles, urban centres and fringe of urban areas undergoing urbanization;
- Improve on urban governance through improved institutional frameworks which are adopted to the local context and promoting inter council relationships;
- Improve on the living conditions of the population through the dynamics of the economic sector. Particular attention should be given to the difficulties of access to secured land tenure which have been responsible for spontaneous and precarious housing;
- Develop the cultural potentials of Kumba with its sub-regional and national urban development context.

In other words, this involves preparing a plan which when implemented shall ensure the durable economic development of Kumba while taking into account issuing environmental problems.

#### **1.2 PLANNING APPROACH AND METHODOLOGY**

The planning approach is largely consultative and participatory, involving: -

- Carrying out a household survey based on predesigned questionnaire;
- Carrying out sectoral and thematic surveys of institutions, organizations and enterprises;
- Analysis and correlation results of household, sectoral and thematic surveys;
- Presentation of results surveys to key stakeholders for restitution;

- Carrying out of sectoral and thematic urban diagnosis;
- Generation of alternative development scenarios;
- Presentation of results of urban diagnosis and development scenarios to representatives of key stakeholders for restitution and selection of preferred development scenario;
- Development of the preferred development scenario into a plan accompanied with priority projects and rules and regulations;
- Presentation of plans, priority projects, rules and regulations for validation by representatives of key stakeholders;
- Presentation of final plans and planning report for approval accordingly.

**KUMBA CITY MASTER PLAN** 

## 2.0 BACKGROUND OF KUMBA

### PLANNING REPORT



Kumba City Master Planning Report

# 2.0 BACKGROUND OF KUMBA CITY

#### 2.1 SUB-REGIONAL CONTEXT

Kumba is the administrative and economic capital of Meme Division with five subdivisions including Kumba I, II, and II, Mbonge and Konye. In addition, Kumba provides economic, social and cultural services to a wide hinterland covering Kupe Manuguba, Manyu and Ndian divisions and Muyuka subdivision in Fako Division. Kumba is also the main centre of a rich cash crop and foodstuff production region. As such, Kumba functions as a centre of export for foodstuff and cash crops.

Kumba largely depends on Douala, Limbe and Nigeria for the supply of manufactured goods and inputs into production. Kumba also depends on Buea for administrative and higher education services and Limbe for recreational facilities.

In spite of these important functions and strategic location of Kumba, it lacks a properly constructed and well maintained transportation network in the sub-region.

Item	Description	Distance in Km	State	Function
01	Kumba-Buea-Limbe	89	Well constructed and tarred	Transport goods and passengers from and to Fako Division
02	Kumba-Buea-Douala	144	Well constructed and tarred	Transport goods and passengers from and to Littoral Region and Yaounde
03	Kumba-Mbanga- Douala Railway	40	Well maintained	Transport goods and passengers from and to Douala, Yaoundé and Northern regions
04	Kumba-Mamfe	181	Designed but poorly constructed and un- tarred	Transport goods and passengers from and to Bamenda and Nigeria
05	Kumba-Loum	41	Poorly constructed and not tarred	Transport goods and passengers from and to Douala and West Region

Table N° 1 : State of Sub-regional Transportation Networks
--

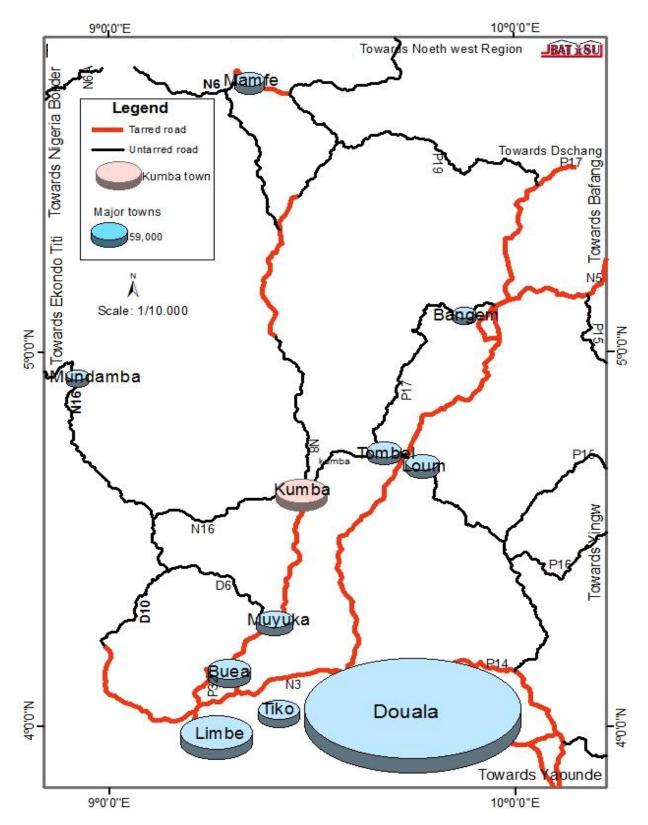
06	Kumba-Ikondo Titi- Mundemba	113	Poorly constructed and not tarred	Transport goods and passengers from and to Ndian and Nigeria
07	Kumba-Tombel- Bangem	81	Poorly constructed and not tarred	Transport goods and passengers from and to Kupe Manuguba

Source: National road networks map (MINTP)

#### Table N° 2 : Settlements of sub-regional Hierarchy

ltem	Urban Centre	2012 Population	Position
01	Kumba	180 000	2 <sup>nd</sup>
02	Виеа	14 6445	3 <sup>rd</sup>
03	Limbe	130 823	4 <sup>th</sup>
04	Tiko	130 711	5 <sup>th</sup>
05	Douala	2 142 193	1 <sup>st</sup>
06	Mundemba	15 558	11 <sup>th</sup>
07	Mamfe	34 222	9 <sup>th</sup>
08	Bangem	23 158	10 <sup>th</sup>
09	Tombel	61 670	7 <sup>th</sup>
10	Muyuka	93 307	6 <sup>th</sup>
11	Loum	42 947	8 <sup>th</sup>

Source : 3<sup>e</sup> General Human and Houses Census



Source: 3e General Human and Houses Census and BATISU Sarl



#### 2.2 DELIMITATION OF PLANNING AREA

Figure N° 1 shows proposed limits of the planning area up to 2035 and beyond. These limits have been proposed based on:

- a) The minimum carrying capacity of land ,within the planning area which can accommodate more than the projected population of Kumba by 2017;
- b) The need to control and curb the unnecessary urban sprawl which is costly to inhabitants, the council and the government;
- c) Existing physical features such as rivers, major streams and steep slopes which constrain urban expansion;
- d) Major roads, which divide, major land uses;
- e) Current direction of urban expansion;
- f) Availability of public utility networks and
- g) Availability of suitable land for urban development.

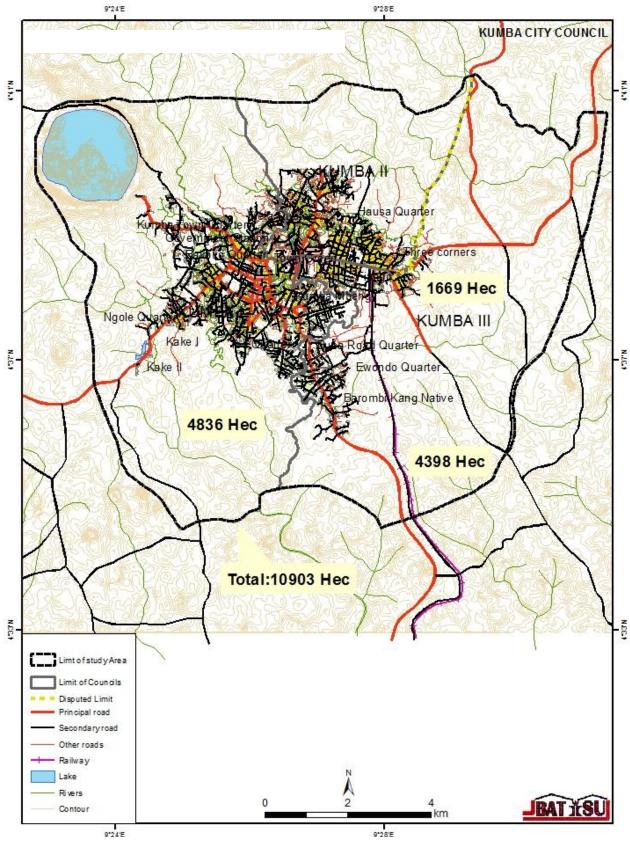


Figure N° 2 : Limits of Planning Area

#### **2.2.1** Distribution of Land within the Planning Area.

Zones	Area in hectares	%	Minimum Carrying capacity	Remarks
Protected areas not suitable for urban development	437	4	-	Construction and habitation prohibited
Area suitable for urban development	10 468	96	654 300	Occupation Varies with type of land use
Total	10 905	100	654 300	-

#### Table N° 3 : Minimum Land Carrying Capacity within the planning area.

Source: Batisu Sarl

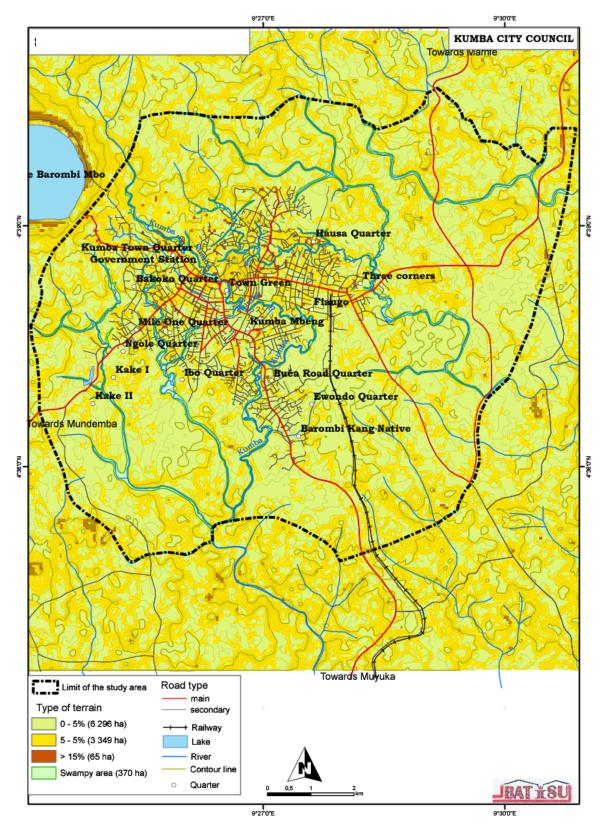
#### **2.3 CHARACTERISTICS OF NATURAL SITE**

The main Characteristics of the natural site of Kumba City include: -

- ✤ A rich water regime with wide watercourses;
- A large expanse of gentle slopes and stable soils fit for construction;
- Barombi Mbo Lake and surrounding highlands with steep slopes;
- A rich natural forest surrounding the existing urban area and;
- ✤ A hot humid climate.

The main constraints on urban expansion include:

- > The steep slopes of Barombi Mbo highlands;
- > The extensive watercourses which dissect the undulating gentle slopes.
- > The steep slopes and deep valleys to the South



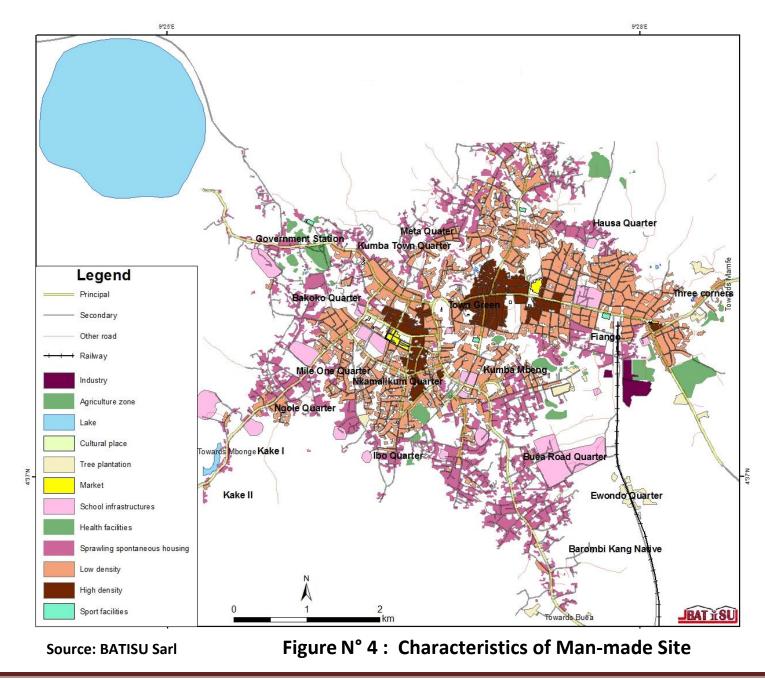
Source: BATISU Sarl

Figure N° 3 : Slope map of Kumba

#### 2.4 CHARACTERISTICS OF MAN-MADE SITE

The main characteristics of the man-made site include: -

- Concentration of commercial and service industrial activities around Kumba Central Market and along Kumba Commercial Avenue;
- Linear commercial activities along Kumba-Fiango; Kumba-Buea road and Kumba-Mbonge road;
- Low density residential Up-station, Kumba;
- High density residential in Fiango and Hausa Quarters;
- Concentration of administrative services Up-station, Kumba;
- Sprawling spontaneous mixed residential in the urban fringe areas;
- Concentration of cultural and civic activities in the central area of Kumba.



#### 2.5 POPULATION PROJECTION

Table N° 4 shows the evolution of the population of Kumba city from 1967 to 2005.

Census Year	Population	Growth rate
1967	14.982	Base year
1976	42.000	13.8 %
1987	43.402	0.3 %
2005	144.268	6.9 %

#### Table N° 4 : Population Growth between National Censuses

#### Source : BUCREP

From 1967 to 1976, the population of Kumba experienced a very rapid increase from 14 982 to 42 000 with a growth rate of 13.8 % which could be explained by : -

- A large number of households which ran away from the Nigerian-Biafra civil war and were resident in Kumba;
- During this period, Kumba was playing a pivotal economic role in the South West and North West provinces and then West Cameroon;

Between 1976 and 1987, the population of Kumba experienced a slight growth of 0.3 % from 42 000 to 43 402. This sudden drop can be explained by: -

- The fact that most of the Nigerian refugee families left Kumba back to Nigeria
- After the 1972 unitary government, most business enterprises and entrepreneurs transferred to Douala and Yaoundé;
- The out migration from Kumba was exacerbated by the enclaved nature of Kumba due to very bad roads from Kumba to Loum, Limbe, Mundemba and Mamfe;

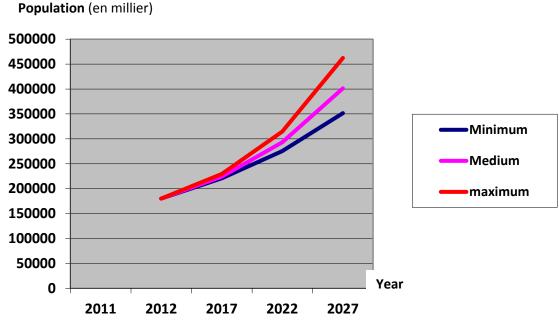
From 1987 to 2005, Kumba experienced a population growth rate of 6.9% as the population rose from 43 402 to 144 268 over a period of 18 years. This upward turn in population was due to: -

Between 2005 and 2012, the population of Kumba has been estimated to grow at 3.9% annually. Thus, by 2012, it is estimated to have a population of 179 903.

Minimal Population Growth Rate		Medium Population Growth Rate		Maximum Population Growth Rate		
Period	Rate of growth	Projected Population	Rate of growth	Projected Population	Rate of growth	Projected Population
2012	4 .0 %	179.903	4.0 %	179.903	4 .0 %	179.903
2017	4.2 %	220.992	4.5 %	224.191	5.0 %	229.606
2022	4.5 %	275.396	5.5 %	293.003	6.5 %	314.580
2027	5.0 %	351.482	6.5 %	401.446	8.0 %	462.221

Table N° 5 : Population Projection Variants : 2012- 2027

**Source : BUCREP** 



Graph N° 1 : Alternative Trends of Population Growth: 2012 - 2027

Table N° 6 and graph N° 1 show three variants of population projections for Kumba City from 2012 to 2027

#### 2.6 LAND REQUIRED FOR URBAN DEVELOPMENT IN KUMBA

At the moment, the limits of urbanization in Kumba are informal as they are determined by the premature invasion and conversion of rural land into urban land. Consequently, urban development has taken more land than necessary as the town is sprawling without control. Within the present urban limits much buildable land is yet un-built and unoccupied.

Table n°	' 6: Comparison	of gross	residential	density
i upic ii	o. companison	01 81 033	residential	achisty

Total area of land within the	Gross residential	Gross residential	
present limits of urbanization in	density of Kumba	density of Yaounde	
Kumba (Area in hectares)	(persons/hectares)	(persons/hectares)	
4000	45	70	

Source: 3e General Human and Houses Census and BATISU Sarl

The gross residential density of Kumba is **45** persons per hectare. This factor is low compared to the Gross residential density of Yaounde which is 70 persons per hectare.

The feasible gross residential density for Kumba at horizon 2027 stands at 60 persons per hectare for the projected population by 2027 from the total land carrying capacity of the planning area.

Zones	Area in hectares	%	Minimum Carrying capacity	Remarks
Protected areas not suitable for urban development	437	4	-	Construction and habitation prohibited
Area suitable for urban development	10 468	96	654 300	Occupation Varies with type of land use
Total	10 905	100	654 300	-

Source: BATISU Sarl

Considering a gross residential density of 60 persons per hectare, the minimum carrying capacity stands at about 578 700 inhabitants. This supposes a prevision of a larger surface area.

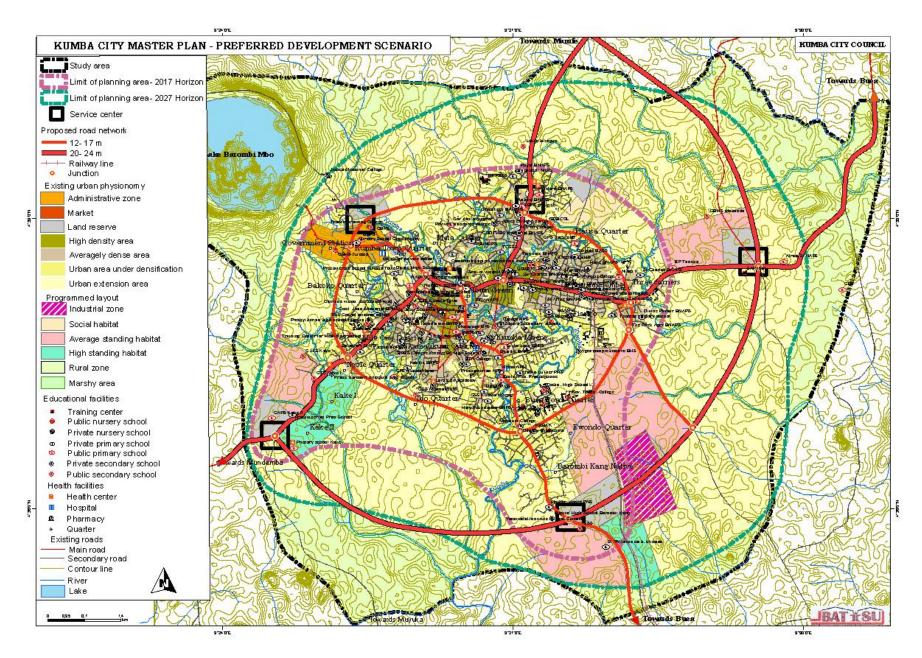
#### 2.7 DEVELOPMENT SCENARIOS

The objectives of delimiting an urban area are: -

- a) To stop the premature invasion and occupation of valuable rural land by urban development
- b) To make rational use of available urban land, infrastructure and services
- c) To minimize the need for the premature extension of utility networks and basic services

In practice, there are three alternative ways of accommodating the expected increase in population over the planning period: -

- 1) Allow the present system of un-controlled urban sprawl;
- 2) Maintain the present limits of urbanization and encourage the infilling of vacant plots and the construction of high rise buildings to accommodate population growth;
- *3)* Progressively extend the limits of urban development to accommodate urban growth and expansion.





Kumba City Master Planning Report

#### Preferred Development Scenario

- Maintain the present limits of urbanization and encourage the infilling of vacant plots and the construction of high rise buildings to accommodate population growth: 2012 -2017;
- *2)* Progressively extend the limits of urban development to accommodate urban growth and expansion: 2017 2027.

In the short term, 2012 to 2017, the second alternative contained in minimal scenario is feasible while in the medium and long terms (2017 and beyond) the medium and maximum scenarios are feasible.

#### 2.8 RECOMMENDATION

It is recommended that urban development within the planning period should be concentrated within the proposed planning area. This requires that:

- a) The city council should make necessary arrangements to officially declare the urban perimeter to conform with the limits of the planning area;
- b) Development out of the planning area should be limited to rural activities;
- c) The subdivision of land outside the planning area into urban plots should be restricted;
- d) The extension of public utility networks outside the planning area should be controlled;
- e) The location of urban social facilities and services should be concentrated within the planning area.

KUMBA CITY MASTER PLAN

# 3.0 URBAN SPATIAL STRUCTURE AND ORGANIZATION

### PLANNING REPORT



Kumba City Master Planning Report

### 3.0 URBAN SPATIAL STRUCTURE AND ORGANIZATION

#### **3.1 EXISTING SITUATION**

The existing spatial structure and organization of Kumba City is largely characterized by: -Generally sprawling urban development

- Through traffic penetrates the city centre
- Dense fabric of roads without a clear functional hierarchy
- Inner grid pattern in the central area
- Linear pattern of development along major roads
- Unplanned and unstructured dense urban development in Fiango, Hauasa and Kosala quarters
- Unplanned sprawling peripheral land development

#### **3.2 OBJECTIVES**

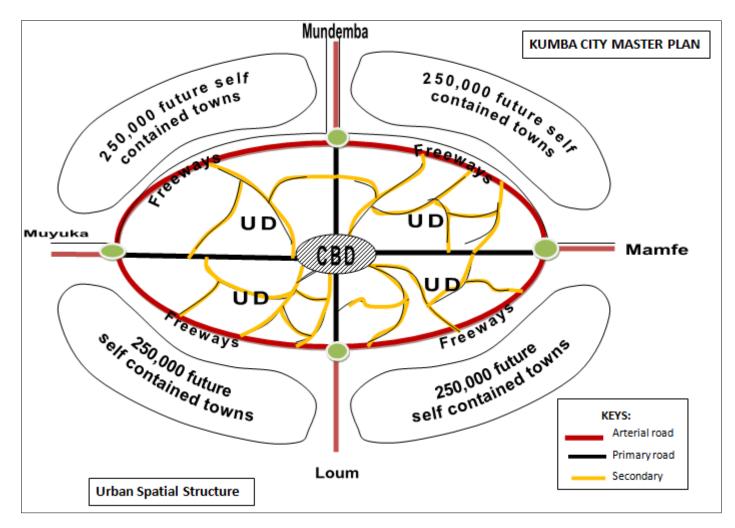
The central objective is to provide a spatial framework and organization which can continuously accommodate the growth and expansion of Kumba City.

#### **3.3 THE SPATIAL STRUCTURE OF KUMBA CITY**

#### 3.3.1 Guidelines for Spatial Structure and Organisation of Kumba

The proposed spatial structure and organization of Kumba is based on the existing pattern of urban road network and land development, the topography and water regime. It is also based on the need to create freeways which can take traffic from outside Kumba to Loum, Mamfe, Mundemba and Fako Division without passing through urbanized part of Kumba.

Kumba City should be organized into several self contained urban districts where the residents are provided with their daily needs and should only travel to the city centre for city wide requirements.





#### **3.3.2** Elements of Spatial Structure and Organization

The main elements of Kumba spatial structure include:

- Kumba City Area
- Self contained urban districts
- Residential neighbourhoods
- Residential clusters
- Residential blocks
- Building plots

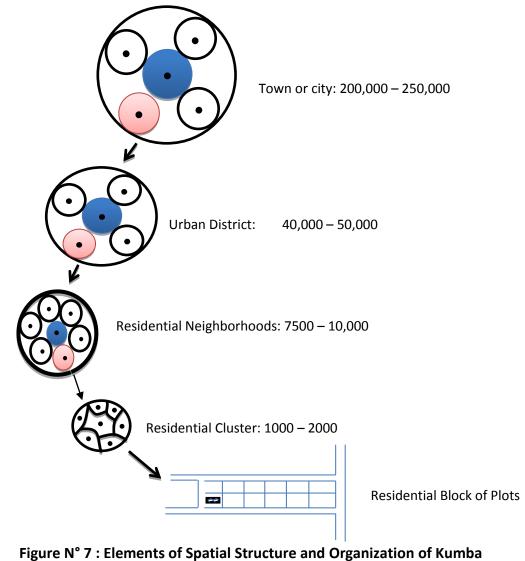
Kumba has a population of about 179 903 people and likely to grow to over 462 221 by 2027. The proposed elements of urban structure for Kumba should be made up of :

#### Table N° 8: Proposed populations sizes of elements of urban spatial structure

Item	Spatial Structure	Population
01	Kumba City	More than 200,000
02	Urban Districts	50,000 - 100,000
03	Residential neighborhoods	5,000 - 10,000
04	Residential clusters	500 – 1,000
05	Residential blocks	50 – 100

Source: BATISU Sarl

#### 3.1.3 Concept of Urban Spatial Structure



# 3.4 SPATIAL STRUCTURE AND ORGANIZATION OF KUMBA CITY

Kumba City area is divided into six functional self contained urban districts: -

- Kumba Inner Area
- Kumba Southeast
- Kumba Southwest
- Kumba Northeast
- Kumba North
- Kumba West

Each urban district shall be subdivided into several residential neighbourhoods and each neighbourhood into several residential clusters and building blocks.

# 3.5 PROPOSED INTERNAL SPATIAL STRUCTURE

#### 3.5.1 Kumba Inner Area

- Kumba Town
- Fiango
- Hausa Quarter
- Buea road
- Mbonge road

#### 3.5.2 Kumba Southeast

- Ewondo Quarter
- Barombi Kang
- Southeast of Kumba Water

#### 3.5.3 Kumba Southwest

- 3.5.4 Kumba Northeast
- 3.5.5 Kumba West
- 3.5.6 Kumba North

# 3.6 HIERARCHY OF KUMBA SERVICE CENTRES

From the existing configuration and structure of Kumba City a five level of functional service centres can be created: -

- a) Kumba City Central Business District (BCD)
- b) Three sub-divisional service centre
- c) District service centres within each sub-division
- d) Neighbourhood centre
- e) Residential cluster centre
- a) Elements of Kumba City Central Business District (BCD)
- Kumba central market
- Kumba central bus station:
  - Kumba City Municipal buses
  - Long distance buses from:
    - ✓ Yaoundé
    - ✓ Nigeria
    - ✓ Bamenda
    - ✓ Others
- Meme divisional public office area
- Kumba City Cultural and Civic Centre:
  - City cultural centre
  - City museum
  - City community hall
  - City arts theatre
  - City library
  - City open air amphi theatre
  - Indoor sports complex
- Kumba City Parks and Gardens
- Kumba City Modern Shopping Mall
  - Modern shops
  - Recreational facilities
  - Entertainment facilities
  - Casinos
  - Banking services
  - Touristic facilities and services
  - Restaurants
  - Car sales
  - Car rental services
  - Offices
  - Banquet halls
  - Conference facilities
  - Etc.,

#### b) Elements of Kumba Sub-divisional Service Centre

- A sub-divisional market
- A sub-divisional public office area
- A sub-divisional shopping centre
- > A sub-divisional commuter motor park or bus station
- > A sub-divisional cultural and civic centre
- > A sub-divisional park and gardens
- A sub-divisional council office area

#### c) Elements of a District Centre

- District community hall
- District shops
- District parks and gardens
- District sports and recreation centre
- District secondary school

#### d) Elements of a Neighborhood Centre

- Neighborhood shops
- Neighborhood hall
- Neighborhood primary school
- Neighborhood library
- Neighborhood playground
- Neighborhood park and gardens

#### e) Elements of a Cluster Centre

- > Corner shop
- > Daycare centre
- Reading room

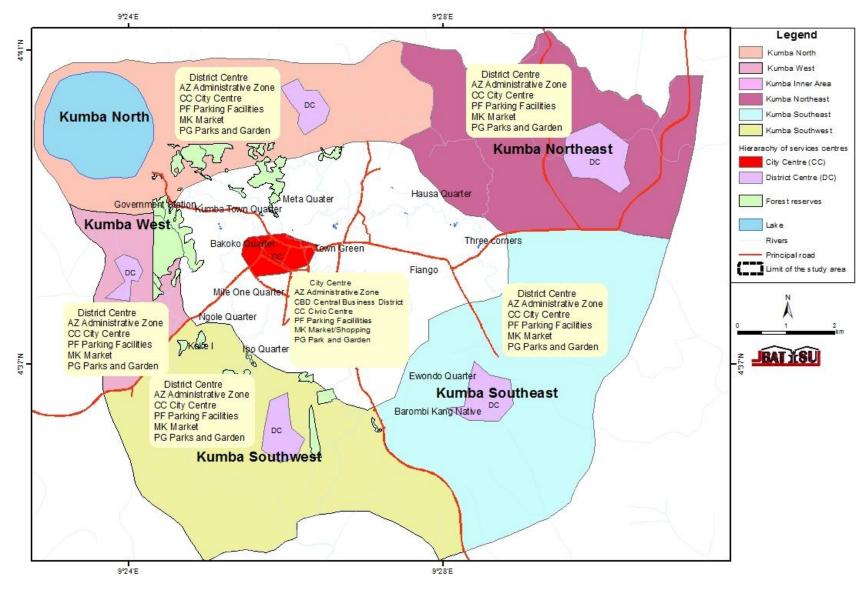


Figure N° 8: Proposed Hierarchy of service Centres

# 3.7 LAND ALLOCATION BY SPATIAL UNITS

Item	Special units	Estimated	Unbuildable	Buildable	Gross	Estimated
		Area	Land	Land	Residential	Population
					Density	2027
01	Kumba Inner	2487			60	149220
	Area		99 <i>,</i> 48	2387,52		
02	Kumba	2232		2142,72	60	133920
	Southeast		89,28	2142,72		
03	Kumba	2003		1922,88	60	120180
	Southwest		80,12	1522,00		120100
04	Kumba	1764		1693,44	60	105840
	Northeast		70,56	1055,44		
05	Kumba North	1847		1773,12	60	110820
			73,88	1773,12		110020
06	Kumba West	571		548,16	60	34260
			22,84	0.0,10		0.200
Total		10905	436,2	10468,8	10468,8	654300

# Table N° 9 : Land Allocation by Spatial Units

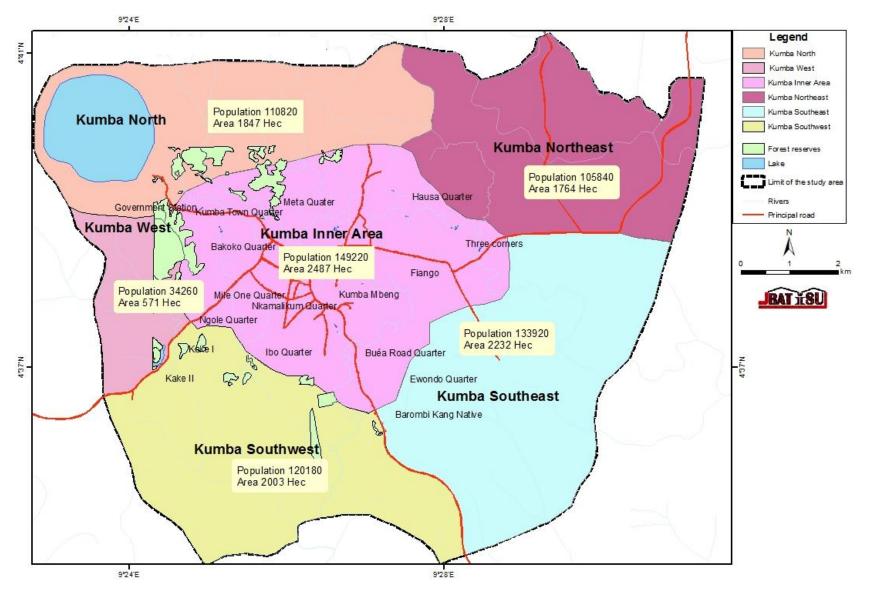


Figure N° 9: Urban Spatial Structure and Land Allocation by Spatial Units of Kumba

# 3.8 PRIORITY PROJECTS OF URBAN SPATIAL STRUCTURE

- 3.8.1 Official delimitation of Kumba City Planning Area
- 3.8.2 Delimitation of proposed urban districts
- 3.8.3 Carry out five yearly censuses of Kumba City Area
- 3.8.4 Acquisition of satellite images to cover the whole planning area

# Table N° 10: Project sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost (FCFA)
3.6.1	Official delimitation of Kumba City Planning Area	2013	Newly proposed	Provide legal basis for planning	ксс	<ul> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	5,000,000
3.6.2	Delimitation of proposed urban districts	2013	Proposed	Provide legal basis for planning	КСС	<ul> <li>KCC</li> <li>Kumba I, II and</li> <li>III</li> </ul>	5,000,000
3.6.3	Carry out five yearly censuses of Kumba City Area	2015	Conflicting population statistics	Provide reliable statistics for planning	КСС	<ul> <li>KCC</li> <li>Kumba I, II and</li> <li>III</li> </ul>	50,000,000
3.6.4	Acquisition of satellite images to cover the whole planning area	2015	Partial coverage of proposed planning area	Provide a base for further planning	<ul><li>KCC</li><li>MINHDU</li></ul>	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>MINHDU</li> </ul>	15,000,000

KUMBA CITY MASTER PLAN

# 4.0 PROPOSED LAND USE PLAN

# **PLANNING REPORT**



# 4.0 PROPOSED LAND USE PLAN

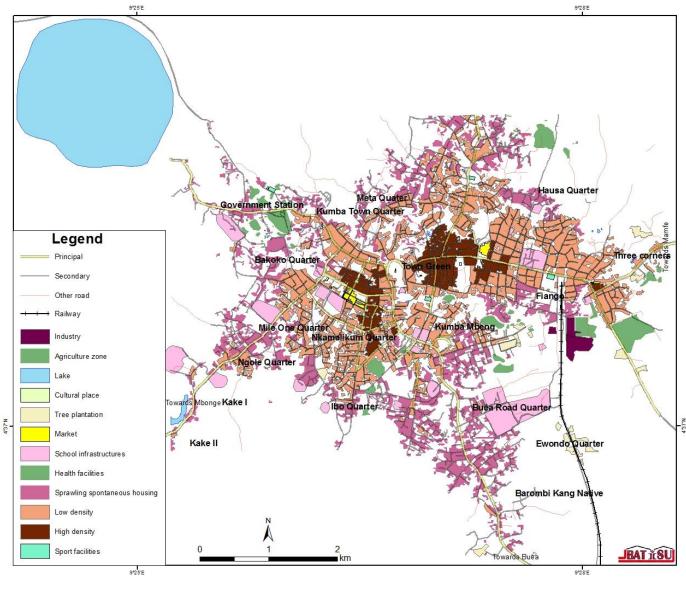
# 4.1 OBJECTIVES OF LAND USE PLAN

The proposed land use plan for Kumba aims at achieving the following objectives:

- To determine land uses before land is subdivided, sold and occupied;
- Gradually segregate land uses in already built and developing areas and;
- Ensure the respect and application of land use control procedures in land transactions, the issue of town planning certificates and building permits;
- Facilitate access to land for community and public facilities and utilities in appropriate locations and on suitable sites.

# 4.2 EXISTING LAND USE PATTERN

The existing land use pattern in Kumba has largely been determined by informal land transactions between those who own and occupy land and those who need and demand land. Land is largely in the hands of customary and private land owners. Community, municipal and government authorities find it difficult to acquire adequate land in appropriate locations and suitable sites for community and public facilities and utilities. Consequently, most community and public facilities are located largely where land was available.







Kumba City Master Planning Report

# 4.3 PROPOSED MACRO LAND USE CATEGORIES

Spatial evolution of Kumba should be guided by the following factors: -

- a) The creation of distinct land uses;
- b) The moderate segregation of residential land uses;
- c) The distribution of land uses;
- d) The removal of service and commercial activities away from major roads by:
- Creating distinct service centers;
- Increasing accessibility of land for urban development.

#### Macro Land Use Categories

- Commercial
  - Central Business District
  - Kumba Shopping mall
  - Service centre shopping centres
- Residential
  - Low density high income: 20%
  - Medium density medium income: 30%

45%

- High density low income:
- Mixed commercial residential: 5%
- Administrative areas
  - Divisional office area
  - Sub-divisional office area
- Civic and cultural facilities
- Protected areas
- Open spaces
- Sports and recreation
- Public and community facilities
- Industrial land use
  - Heavy industry
  - Agro-industry
  - Maintenance industry
  - Service industry
  - Cottage industry
- Public utility networks and right-of-ways

# 4.4 ELEMENTS OF URBAN DISTRICT LAND USE PLAN

A detailed land use plan should eventually be prepared for each urban district showing the following elements: -

- Urban district service centre
- Neighborhood centres
- District service industrial area
- Residential neighborhoods:
  - High density for low income households
  - Medium density for medium income households
  - Low density for high income households
  - Mixed residential/commercial
- Parking facilities
- District parks and gardens
- Government general secondary and high school
- Government secondary technical and high school
- District playground and sports facilities
- District hospital

# 4.5 LAND USE ZONING REGULATIONS

Specific land use zoning regulations shall be prepared for each urban district and neighborhood plan.

## 4.5.1 Processes and procedures of land use control measures shall be clearly defined for:

- Location and siting of activities
- Control of land subdivisions
- Control of land transactions
- Planning certificate
- Building permits
- Modification of land uses

4.5.2 Micro land use rules and regulations shall be prepared and adopted as council planning bye-laws

4.5.3 Land use Standards shall be prepared and enforced by KCC and Kumba I, II and III.

# 4.6 LAND USE IMPLEMENTATION PROGRAMME

- 4.4.1 Preparation of Urban District Land Use Plans
- 4.4.2 Preparation of Neighborhood Plans in Priority Development Area (PDA)
- 4.4.3 Preparation of CBD and Urban District Service Centre Plans
- 4.4.4 Preparation of Kumba City land use rules and regulations

#### Table N°11: Project Sheet

Code	Nomenclature	Time	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated
		Frame					Cost
4.4.1	Preparation of Urban District Development Plans	2013- 2015	Not available	Ensure orderly development	<ul> <li>MINHDU</li> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	<ul> <li>MINHDU</li> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	150 000 000
4.4.2	Preparation of Neighborhood Plans in Priority Development Area (PDA)	2013- 2027	Not available	Ensure orderly development	<ul> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>Land owners</li> </ul>	25 000 000
4.4.3	Preparation of CBD and Urban District Service Centre Plans	2015- 2017	Not available	Ensure orderly development	• KCC Kumba I, II and III	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>Land owners</li> </ul>	60 000 000
4.4.4	Preparation of Kumba City land use rules and regulations	2015	Not available	Provide basis for development control	<ul> <li>MINHDU</li> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>Land owners</li> </ul>	15 000 000

**KUMBA CITY MASTER PLAN** 

# 5.0 NETWORKS AND INFRASTRUCTURE

# PLANNING REPORT



# 5.0 NETWORKS AND INFRASTRUCTURE

# 5.1 ROAD NETWORKS

# 5.1.1 Objectives

The overall objective is to provide Kumba City with a modern, coherent and functional road networks which excludes through traffic and provides choices of routes and modes of travel to activity areas by:

- Reconstructing and rehabilitating existing urban road networks and infrastructures
- Extending urban road networks
- Ensuring regular maintenance of urban road networks
- Upgrading arterial roads into Kumba
- Constructing Kumba City freeways which by-pass Kumba City.

# 5.1.2 Hierarchy of Urban Roads

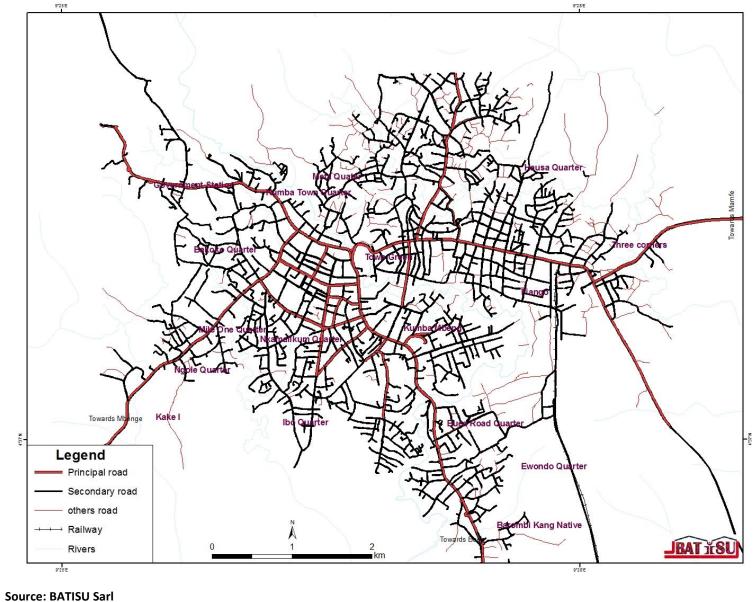
To ensure the proper functioning of an urban road network, a coherent hierarchy of roads based on functional classification is absolutely necessary as follows:

- Arterial roads which carry traffic from outside and bring into Kumba City
- Primary roads which carry traffic from arterial roads and distributes to urban districts
- Secondary roads which take traffic from primary roads and distribute within urban districts
- Tertiary roads which take traffic from secondary roads and distribute within neighbourhoods
- Access roads which distribute traffic to individual plots

# 5.1.3 Existing Road Network

The existing state of roads in Kumba is characterized by: -

- Incoherent and degraded urban road networks
- Unplanned hierarchy of urban roads
- Poorly designed road networks
- Poorly constructed road networks
- Irregular maintenance of existing roads







# 5.1.4 Proposed Road Networks

#### 5.1.4.1 Arterial Roads

- Muyuka-Kumba road
- Loum-Kumba road
- Mamfe Kumba road
- Mundemba road

### 5.1.4.2 Freeways

- Buea road Fiango junction freeway
- Buea road to Mbonge road freeway
- Mamfe road junction to Mbonge freeway
- Mamfe road junction Fiango freeway

## 5.1.4.3 Primary Roads

- Kumba-Buea road
- Kumba-Fiango road
- Kumba-Mbonge road

# 5.1.4.4 Secondary Roads

Priority secondary road networks within area covered by satellite images are shown in figure 5.1.2 below. Future primary and secondary roads shall be determined later during the preparation of urban district plans.

# 5.1.4.5 Kumba Public Right-of-ways (PRW's)

## Table N°12: Kumba Public Right-of-ways

Item	Hierarchy	PRWs	Setbacks from axis of road	Restrictions
1.0	Arterial	-	-	-
1.1	National highways	60m	30m	No direct access of property
1.2	Freeways	50m	25m	No direct access of property
1.3	Provincial highways	50m	25m	No roadside parking
1.4	Divisional highways	40m	20m	No roadside

				parking
1.5	Farm to market roads	10m	5m	-
2.0	Primary distributors	40m	20m	-
3.0	Secondary distributors	30m	15m	-
4.0	Tertiary toads	25m	12.5m	-
5.0	Access roads	10m	5m	-

# 5.1.4.6 Technical Details

# Table N°13: Technical Details

ltem	Hierarchy of Roads	Carriage- ways	Islands	Drainage	Side walks	Total width	PRW's
01	Arterial roads	14.0 m		3.0m	3.0m	20.0m	-
02	Freeways	28.0m	3.0	3.0m	3.0m	37.0m	-
03	Primary roads	14.0m	1.5	3.0mm	3.0m	21.5m	-
04	Secondary roads	7.0m	None	3.0m	3.0m	13.0m	-
05	Tertiary roads	7.0m	None	3.0m	1.5m	11.5m	-
06	Access roads			2.0m	1.0m	3.0m	-
07	Footpaths and walkways	3.0m	None	1.0m	None	4.0m	-

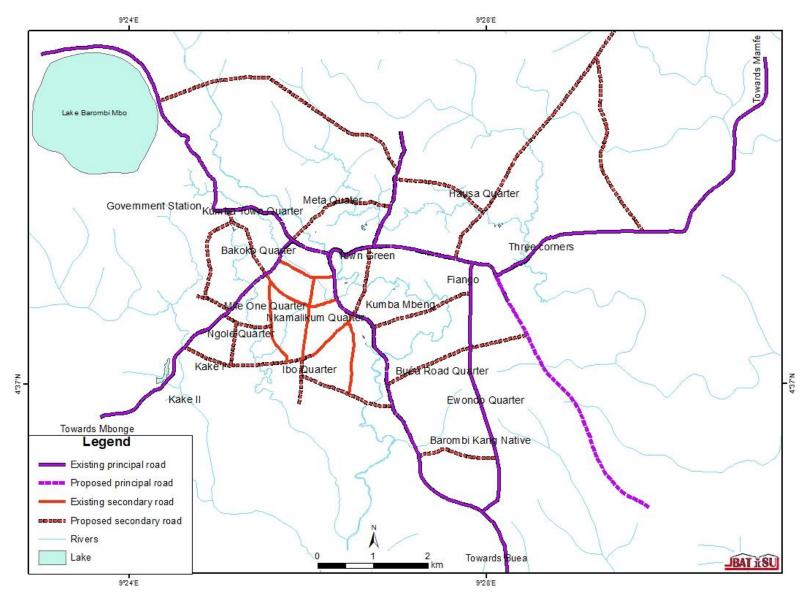
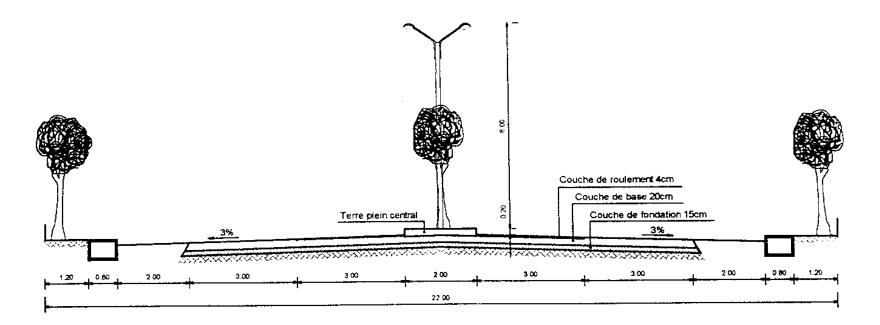
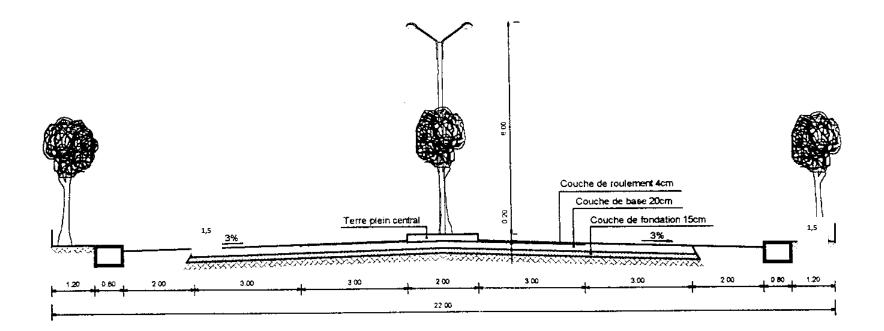


Figure N° 12 : Proposed Hierarchy of Road Networks

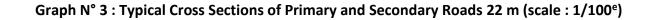


Typical Cross Sections of Arterial, Primary and Secondary Roads





Source: BATISU Sarl



### 5.1.4.8 Estimated Lengths of Priority Roads

Item	Roads	Lengths	Future State
01	Primary roads	5,3	modern, coherent and functional
02	Secondary roads	77,3	modern, coherent and functional
03	Arterial roads	For memory	modern, coherent and functional
04	Tertiary roads	For memory	modern, coherent and functional

Source: BATISU Sarl

- 5.1.5 Priority Projects
- 5.1.5.1 Rehabilitation of tarred urban roads
- 5.1.5.2 Upgrading of existing primary roads
- 5.1.5.3 Upgrading of existing secondary roads
- 5.1.5.4 Extension of primary and secondary road networks

## 5.2 RAIL NETWORK

The extension and upgrading of the rail line and facilities to Kumba depends to a large extent on nation policies and decisions. However, Kumba has to be prepared to accommodate the impacts and ramifications of an eventual extension and upgrading of the railway Facilities.

#### Table N° 4 : Project Sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost
5.1.5.1	Rehabilitation of tarred urban roads	2015- 2017	Degraded	Prolong life span	<ul> <li>KCC</li> <li>MINHDU</li> <li>Funding partners</li> </ul>	<ul> <li>Road users</li> <li>Land owners and developers</li> </ul>	2,000,000,000
5.1.5.2	Upgrading of existing primary roads	2022- 2027	No hierarchy	Provide a functional hierarchy	<ul> <li>KCC</li> <li>MINHDU</li> <li>Funding partners</li> </ul>	<ul> <li>Road users</li> <li>Land owners and developers</li> </ul>	16,800,000,000
5.1.5.3	Upgrading of existing secondary roads	2017- 2022	Unclassified and poorly constructed	Redistribute traffic flow	<ul> <li>KCC</li> <li>MINHDU</li> <li>Funding partners</li> </ul>	<ul> <li>Road users</li> <li>Land owners and developers</li> </ul>	24,000,000,000
5.1.5.4	Extension of primary and secondary road networks	2027+	Urban fringe areas do not have	Open up development of fringe zones	<ul> <li>KCC</li> <li>MINHDU</li> <li>Funding partners</li> </ul>	<ul> <li>Road users</li> <li>Land owners and developers</li> </ul>	5,300,000,000

# 5.3 DRAINAGE NETWORKS

### 5.3.1 Existing Situation

The existing drainage situation is characterized by: -

- Absence of a storm drainage plan
- Most roads have no side drains and structures
- Tarred roads with open side drains
- Unconstructed and blocked natural drainage channels
- Poor drainage system of private real estate properties

## 5.3.2 Objectives

To continuously provide a coherent and regularly upgraded and maintained storm drainage network and infrastructure by:

- Providing permanent side drains and infrastructure along all roads;
- Progressing clearing and constructing natural drainage in built areas;
- Effectively controlling the provision of drainage facilities on private landed properties.

#### 5.3.3 Rules and regulations

- Private land developers
- Real estate agents and promoters
- Roles and responsibilities of the Council and Government

#### 5.3.4 Recommended Projects

5.3.4.1 Design of natural drainage networks

#### 5.3.4.2 Covering of existing constructed open side drains along tarred roads

#### 5.3.4.3 Construction of priority natural drainage

# Table N° 5 : Project Sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost
5.3.4.1	Design of natural drainage networks	2015- 2017	Not designed	Ensure technical feasibility	<ul> <li>KCC</li> <li>MINHDU</li> <li>Funding partners</li> </ul>	<ul> <li>KCC</li> <li>Kumba I, Ii and III</li> </ul>	20,000,000
5.3.4.2	Covering of existing constructed open side drains along tarred roads	2013- 2015	Uncovered drains	Minimize accidents and disposal of waste	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>Land owners along roads</li> </ul>	<ul> <li>Land owners</li> <li>Occupants</li> <li>Pedestrians</li> </ul>	1,000,000,000
5.3.4.3	Construction of priority natural drainage	2017- 2022	Largely unconstructed	Rapid evacuation of runoff water	<ul> <li>KCC</li> <li>MINHDU</li> <li>Funding partners</li> </ul>	<ul> <li>Land owners</li> <li>Residents</li> </ul>	5,000,000,000

# 5.4 SEWAGE NETWORKS AND SYSTEMS

#### 5.4.1 Existing Situation

- Heavy dependence on poorly constructed and maintained individual sewage systems
- Some households have no sewage facilities
- Inadequate provision of public toilets and conveniences

#### 5.4.2 Objectives

The overall objective is to reasonably improve the provision, management and maintenance of individual sewage facilities within the framework of eventually developing a collective sewage system.

#### 5.4.3 Rules and Regulations

- **\*** Rules and regulations for individual real estate sewage facilities
- Rules and regulations for real estate sewage facilities
- Roles and responsibilities of the Council and the Government ,

#### 5.4.4 Recommended Projects

- 5.4.4.1 Construction of adequate public conveniences
- 5.4.4.2 Effective and regular control of private sewage facilities

# Table N° 6 : Project Sheet

Code	Nomenclature	Time	Present State	Objectives		Potential	Beneficiaries	Estimated
		Frame				Sponsors		Cost
5.4.4.1	Construction of adequate public conveniences	2013- 2015	Inadequate	Increase public comfort and convenience	•	KCC Kumba I, II and III	Residents and visitors	500,000,000
5.4.4.2	Effective and regular control of private sewage facilities	2015- 2027	Ineffective control	Minimize pollution	•	KCC Kumba I, II and III	<ul> <li>Property owners</li> <li>Residents</li> </ul>	5,000,000

# 5.5 WATER SUPPLY NETWORKS

#### 5.5.1 Existing Situation

- Poor quality of water supply
- Unprotected water catchment
- Poorly maintained water supply networks and installations
- Inadequate water supply
- Imbalanced distribution of water supply
- Inequitable access to safe water supply

# 5.5.2 Objectives

The overall objective is to ensure the adequate supply of and access to safe water over time and space by: -

- Ensuring the effective protection of the existing water catchment
- Ensuring the regular maintenance of water supply networks and installations
- Ensuring the regular treatment of water through water quality assurance measures
- Upgrading the capacities of safe water supply and extending water supply networks to areas of real need
- Ensuring the proper alignment and entrenchment of water networks in priority developments areas and urban upgrading zones

## 5.5.3 Rules and regulations for water supply shall include:

- Review procedures for connecting water supply and the provision of public standpipes
- ◆ Operation procedures for alignment and installing water supply networks and installations
- Water quality control standards

## 5.5.4 Recommended Projects

#### 5.5.4.1 Protection of water catchment

## 5.5.4.2 Rehabilitation and regular maintenance of water supply networks and installations

- 5.5.4.3 Put in place water quality assurance measures
- 5.5.4.4 Carry out studies for upgrading the water supply capacity
- 5.5.4.5 Upgrade water supply capacity

# Table N° 7 : Project Sheet

Code	Nomenclature	Time	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated
		Frame					Cost
5.5.4.1	Protection of water catchment	2013- 2015	Degraded and unprotected	Minimize pollution and reduction of water	<ul> <li>KCC</li> <li>GTZ</li> <li>Kumball</li> </ul>	Residents	50,000,000
5.5.4.2	Rehabilitation and regular maintenance of water supply networks and installations	2015- 2022	Poorly maintained and degraded	Ensure regular and safe supply of water	<ul> <li>KCC</li> <li>ADB</li> <li>MINEE</li> <li>MINHDU</li> </ul>	Residents	5,000,000,000
5.5.4.3	Put in place water quality assurance measures	2015	Doubtful quality	Ensure supply of safe water	<ul><li>KCC</li><li>MINEE</li></ul>	Residents	5,000,000
5.5.4.4	Carry out studies for upgrading the water supply capacity	2015- 2017	Unavailable	Ensure technical feasibilities	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>ADB</li> <li>FEICOM</li> </ul>	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>MINEE</li> </ul>	25,000,000
5.5.4.5	Upgrade water supply capacity	2017- 2027	Inadequate capacity	Ensure adequate supply	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>ADB</li> <li>FEICOM</li> </ul>	Residents	1,000,000,000

# 5.6 ENERGY SUPPLY NETWORKS

#### 5.6.1 Existing Situation

- Inadequate supply and frequent disruptions of electricity supply
- High cost of connections and electricity bills
- Haphazard and irregular connections of networks and installations

#### 5.6.2 Objectives

The overall objective is to ensure the adequate, stable and durable supply of affordable energy for domestic and industrial use.

#### 5.6.3 Rules and regulations for the supply of energy shall include:

- Review procedures for connecting electricity supply and the provision of public lights
- Operational procedures for alignment and installing electricity supply networks and installations

#### 5.6.4 Electricity Supply Networks

- 5.6.5 Recommended Projects
- 5.6.5.1 Diversification of sources of energy
- 5.6.5.2 Extension of existing electricity networks
- 5.6.5.3 Public street lighting

#### Table N° 8 : Project Sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost
5.6.5.1	Diversification of sources of energy	2015- 2022	Dependence of electricity grid	Reduce dependence of electricity	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>SNV</li> </ul>	Residents	500,000,000
5.6.5.2	Extension and upgrading of existing electricity networks	2015- 2022	Inadequate supply	Stabilize and ensure reliable supply	<ul> <li>AES- SONEL</li> <li>MINEE</li> </ul>	<ul> <li>Residents</li> <li>AES-SONEL</li> </ul>	5,000,000,000
5.6.5.3	Public street lighting	2015- 2017	Some areas not lighted	Improve public security	<ul> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	Residents	3,000,000,000

# 5.7 COMMUNICATION FACILITIES

### 5.7.1 Existing Situation

The existing situation of communication in Kumba is characterized by: -

- Bottlenecks and high cost of connecting fixed phones facilities
- Inadequate and poorly maintained fixed telephone facilities
- Poor reception of mobile telephone

#### 5.7.2 Objective

The overall objective is to upgrade fixed and mobile telephone facilities and make them affordable.

## 5.7.3 Rules and regulation for communication facilities shall include:

Review operational procedures and conditions for subscribing for fixed and mobile phones facilities

#### 5.7.4 Recommended Projects

- 5.7.4.1 Extend communication fiber network to Kumba
- 5.7.4.2 Rehabilitate and upgrade existing fixed telephone networks and installations

#### 5.7.4.3 Upgrade mobile telephone facilities

# Table N° 20 : Project Sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost
5.7.4.1	Extend communication fiber network to Kumba	2013- 2017	Planned	Extend communication capacity	<ul><li>MPT</li><li>CAMTEL</li></ul>	Public	3,000,000,000
5.7.4.2	Rehabilitate and upgrade existing fixed telephone networks and installations	2015- 2022	Degraded	Ensure reliability	<ul><li>MPT</li><li>CAMTEL</li></ul>	Residents	500,000,000
5.7.4.3	Upgrade mobile telephone facilities	2013- 2017	Unreliable	Ensure reliability	Mobile communication providers	Subscribers	1,000,000,000

KUMBA CITY MASTER PLAN

# 6.0 TRANSPORT AND TRAFFIC PLAN

PLANNING REPORT



# 6.0 TRANSPORT AND TRAFFIC PLAN

# 6.1 EXISTING SITUATION

The existing transport and traffic situation is characterized by: -

- Sporadic traffic congestion
- Clandestine and unorganized parking facilities
- Poorly developed parking facilities
- High incidence of accidents
- High cost of travel
- Inconvenient and uncomfortable transport facilities
- Public insecurity

# 6.2 OBJECTIVE

The overall objective is to make the movement of people and goods to and from and within Kumba safe, comfortable, convenient and affordable.

# 6.3 TRANSPORT AND TRAFFIC MANAGEMENT PLAN

- Location of council motor parks
- Location of Council Lorry parks
- Location of taxi and motor taxi stops
- Municipal bus routes and stops
- Central bus station

# 6.4 RULES AND REGULATIONS FOR PARKING FACILITIES SHALL INCLUDE:

- Rules and regulations for locating and siting express bus parking facilities
- Kumba City parking rules and regulations

# 6.5 RECOMMENDED PROJECTS

- 6.5.1 Selection, acquisition and reservation of sites for Council motor and lorry parks
- 6.5.2 Rehabilitation and upgrading of existing council motor parks
- 6.5.3 Preparation of Kumba City parking rules and regulations
- 6.5.4 Carry out feasibility studies for creating a Kumba City municipal bus system

# Project Sheet

### Table N° 21: Project Sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost
6.5.1	Selection, acquisition and reservation of sites for Council motor and lorry parks	2015- 2022	Poorly located and sited along highways	Ensure proper location and siting	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>MINDAF</li> </ul>	<ul> <li>Transporters</li> <li>Passengers</li> </ul>	2,000,000,000
6.5.2	Rehabilitation and upgrading of existing council motor parks	2015- 2022	Poorly developed	Increase comfort and convenience	<ul> <li>KCC</li> <li>Kumba I,</li> <li>II and III</li> </ul>	<ul> <li>Transporters</li> <li>Passengers</li> </ul>	1,000,000,000
6.5.3	Preparation of Kumba City parking rules and regulations	2015	Incomplete rules and regulations	Ensure application	<ul> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	<ul> <li>Transporters</li> <li>Passengers</li> </ul>	50,000,000
6.5.4	Carry out feasibility studies for creating a Kumba City municipal bus system	2022- 2027	High cost of intra urban travel	Reduce cost and time of intra urban travel	<ul> <li>KCC</li> <li>Kumba I,</li> <li>II and III</li> </ul>	<ul><li>Transporters</li><li>Passengers</li></ul>	50,000,000

KUMBA CITY MASTER PLAN

# 7.0 LAND MANAGEMENT AND HOUSING

**PLANNING REPORT** 



Kumba City Master Planning Report

# 7.0 LAND MANAGEMENT AND HOUSING

# 7.1 EXISTING SITUATION

The present situation of land management and housing in Kumba is characterized by: -

- Poor and disadvantaged households encounter enormous difficulties in acquiring suitable land for housing
- Inadequate supply of decent housing for the poor and disadvantaged
- Spontaneous and haphazard construction of houses
- Un-segregated housing areas
- Unpleasant and unhygienic housing environment

# 7.2 PROJECTION OF HOUSING DEMAND AND NEEDS: 2012 -2027

The projected number of housing dwelling units and plots is shown on the following table:

ltem	Population	Population Increase	Total Number of Households	Estimated Number of plots
2012	179 903	-	-	-
2017	229 606	49703	8285	4 143
2022	314 580	84974	14162	7 081
2027	462 221	147641	24607	12 303
Total		282 321	47 054	23 527

Table N° 22: Projected Housing demands and Needs

Source: BATISU Sarl

# 7.3 OBJECTIVES

The overall objectives for housing are: -

- To facilitate access to affordable and suitable land for housing especially for the poor and disadvantaged;
- To improve on the quality of the present housing stock and increase the supply of decent houses especially for the poor and disadvantaged;

# 7.4 UPGRADING AND INFILLING OF HOUSING AREA

- Fiango
- Houasa Quarter
- Kumba Old Town
- Buea Road
- Mbonge Road
- ✤ Etc

# 7.5 CREATION OF NEW HOUSING LAYOUTS

New housing layouts should be created in each urban district for: -

- Low cost housing
- Medium income housing
- High income housing
- Mixed housing

### 7.6 RECOMMENDED PROJECTS

#### 7.6.1 Facilitate access to housing finance and construction techniques and technologies

- Establish housing mortgage societies
- Provide financial and technical assistance for housing the poor

#### **7.6.2** Facilitate access to housing land for the poor

- Develop a land management partnership between the council and land owners and occupants
- Create a transparent land market

#### 7.6.3 Facilitate access to basic services and utilities in housing areas

- Water supply
- Electricity supply
- Social services

#### 7.6.4 Construction of 1000 social houses yearly

7.6.5 Upgrading of slum areas

# 7.7 RULES AND REGULATIONS FOR RESIDENTIAL LAND USES

The following rules and regulations for residential land use categories shall be respected accordingly:

- All plots should have a rectangular shape with side boundaries approximately at right angle from the front line of the plot.
- Minimum height of DPC above ground level of roads: 50 cm above
- All housing types, public utility easements and construction norms and standards shall be as specified in layout regulations and build\*ing permits.

Item	Parameters	Low Income	Medium Income	High Income
01	Area of plot	300-400m <sup>2</sup>	400-600m <sup>2</sup>	600-1000m <sup>2</sup>
02	Minimum width of plots	15m	20m	25m
03	Setback of plots from road curbs	3.0m	5.0m	10.0m
04	Setback from axis of road	10.0m	15.0m	20.0m
05	Side setbacks	1.5m	3.0m	5.0m
06	Rear setback	3.0m	5.0m	7.5m
07	Plot occupation ratio	80-90%	60-70%	40-50%
08	Height of buildings	One floor	1-3 floors	1-2 floors
09	Maximum dwelling units	2	6	1

#### Table N° 23: Plot development norms and standards

# **Project Sheet**

### Table N° 24: Project Sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost
7.6.1	Facilitate access to housing finance, construction techniques and technologies	2015- 2027	Inexistent	Make housing affordable	<ul> <li>CFC</li> <li>Micro finance organizations</li> <li>Commercial banks</li> </ul>	<ul> <li>Land owners</li> <li>Households in need for housing</li> </ul>	50,000,000
7.6.2	Facilitate access to housing land for the poor	2013- 2027	Inexistent	Make housing affordable	<ul> <li>KCC</li> <li>MAETUR</li> <li>Kumbal, II and III</li> <li>Traditional authorities</li> <li>Land owners</li> </ul>	<ul> <li>Poor households</li> </ul>	1,000,000,000
7.6.3	Facilitate access to basic services and utilities in housing areas	2015- 2017	Inexistent	Improve quality of housing	<ul> <li>AES-SONEL</li> <li>CAMWATER</li> <li>KCC</li> <li>Kumbba I, II and III</li> <li>Land owners</li> </ul>	<ul> <li>Poor households</li> </ul>	5,000,000,000
7.6.4	Construction of 1000 social houses yearly	2015- 2017	Inexistent	Increase housing stock	<ul> <li>MINHDU</li> <li>Real Estate promoters</li> <li>SIC</li> </ul>	<ul> <li>Poor households</li> </ul>	15,000,000,000
7.6.5	Upgrading of slum areas	2022- 2027	Inexistent	Improve on stock of existing housing	<ul> <li>MINHDU</li> <li>KCC</li> <li>Land owners</li> </ul>	<ul> <li>Poor households</li> </ul>	50,000,000

**KUMBA CITY MASTER PLAN** 

# 8. O PUBLIC AND COMMUNITY FACILITIES

**PLANNING REPORT** 



# 8. O PUBLIC AND COMMUNITY FACILITIES

# 8.1 EXISTING SITUATION

The present situation of the provision of public and community facilities is generally characterized by: -

- Inadequate supply of basic public and community facilities
- Unsatisfactory location and sitting of public and community facilities
- Existing public facilities are poorly maintained and equipped
- Poorly constructed public and community facilities

# 8.2 OBJECTIVES

The overall objective is to ensure adequate provision, satisfactory location and sitting of good quality and affordable provision of public and community facilities so as to minimize the cost and time of travel to basic services and assure the safety of users.

# 8.3 EDUCATIONAL FACILITIES

Table N° 21 shows planning grill for government educational facilities which should be applied to Kumba City.

Item	Public Educational	Level of	Population	Catchment	Space
	Facilities	Provision	Threshold	Radius	Standards
01	Nursery Schools	Cluster	3,000-5,000	500m	0.5hectares
02	Primary Schools	Neighborhood	5,000-10,000	1.0km	2.0hectares
03	General Secondary and High Schools	District	40-50 000	2.5km	5.0hectares
04	Technical Secondary and High schools	District	40-50 000	2.5km	5.0hectares
05	University college	Town	More than 100,000	5.0km	10.0hectares
06	University	City	More than 200,000	N.A	50.0hectares

#### Table N° 25: Proposed Standards for Public Educational Facilities

### 8.3.2 Projected Demand for Government Schools: 2012 – 2027

Year		sery 100l		Primary School		Secondary school			High S	School		
					Gen	eral	Tech	nical	Gen	eral	Tech	nical
E	2	21	1	1	5	5		4	I,	5	2	2
	Т	Р	Т	Р	Т	Р	Т	Р	Т	Р	Т	Р
2012	60	39	36	25	5	0	5	1	5	0	5	3
2017	77	17	45	9	6	0	6	1	6	1	6	1
2022	105	28	63	18	8	0	8	2	8	2	8	2
2027	154	49	93	30	12	4	12	4	12	4	12	4

Table N° 26: Projected Demand for Government Schools: 2012 – 2027

Source: BATISU Sarl

#### Keys: T = total P = Proposed E = Existing

#### 8.3.3 Location

#### 8.3.4 Recommended Projects

8.3.4.1 Rehabilitation and upgrading of existing schools

#### 8.3.4.2 Acquire and reserve sites for educational facilities

#### 8.3.4.3 Provide new educational facilities to match growing demand

#### 8.3.5 Rules and Regulations

All pupils and students within government school catchment areas have the right to be admitted into their local government school before anyone from outside the catchment area.

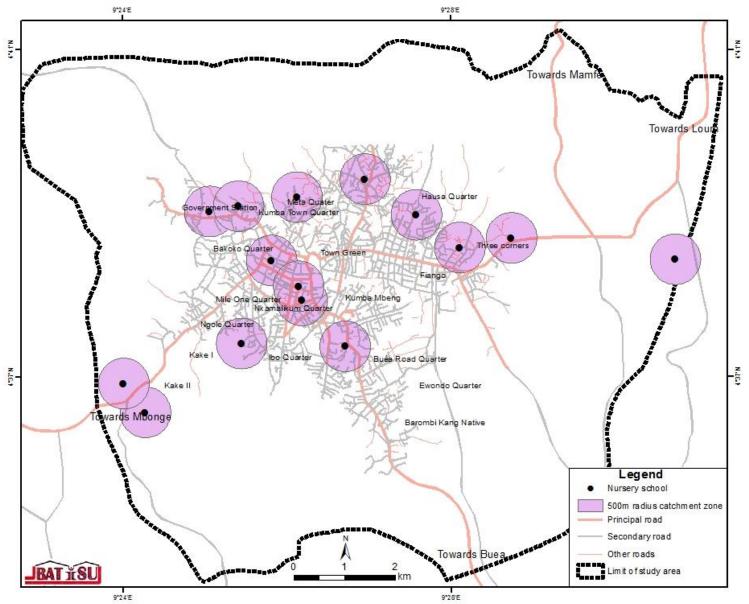


Figure N° 8 : Location and catchment areas of existing government nursery schools

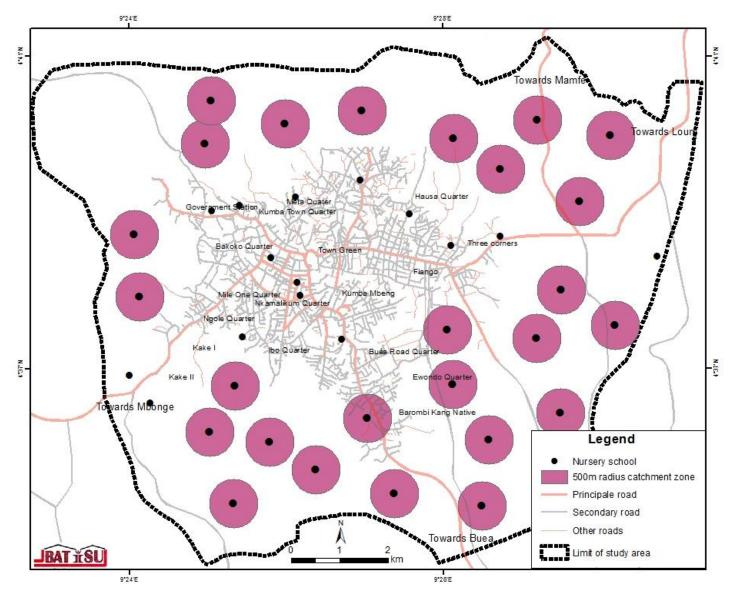


Figure N° 14 : Location and catchment areas of proposed government Nursery schools

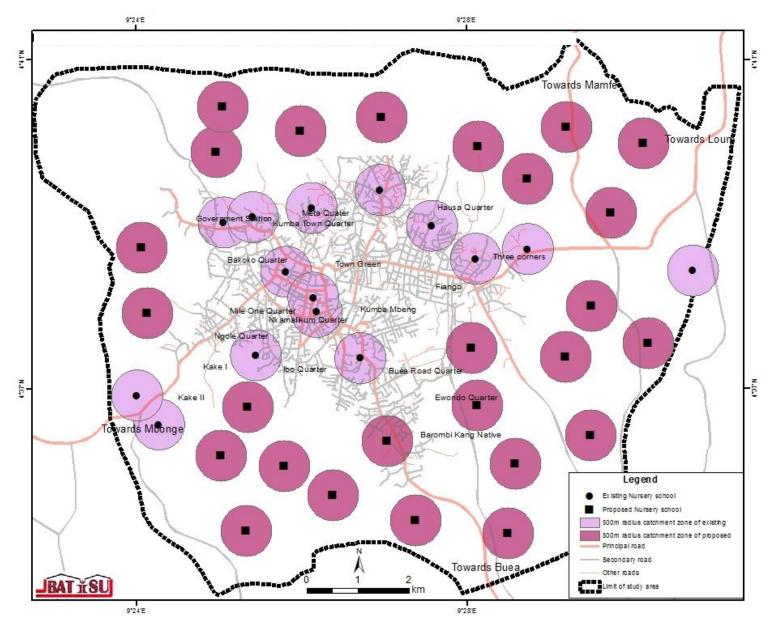


Figure N° 15 : Location and catchment areas of existing and proposed government Nursery schools

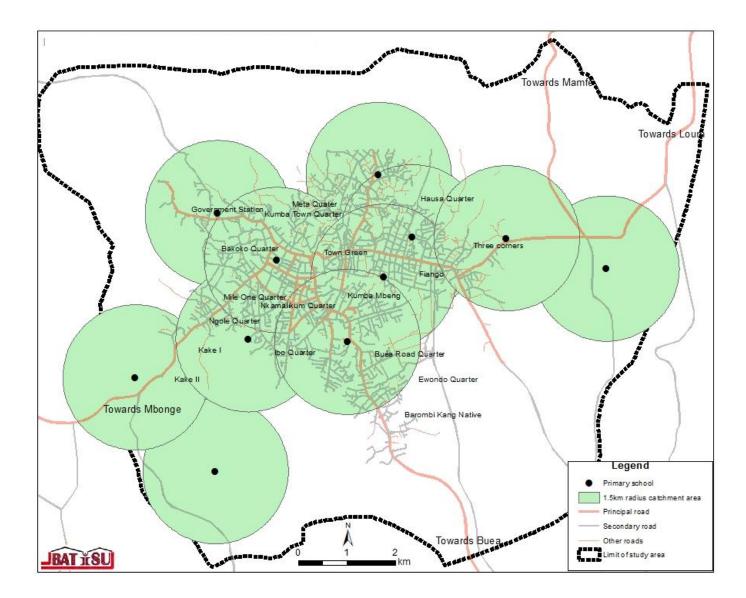


Figure N° 16 : Location of existing government primary schools

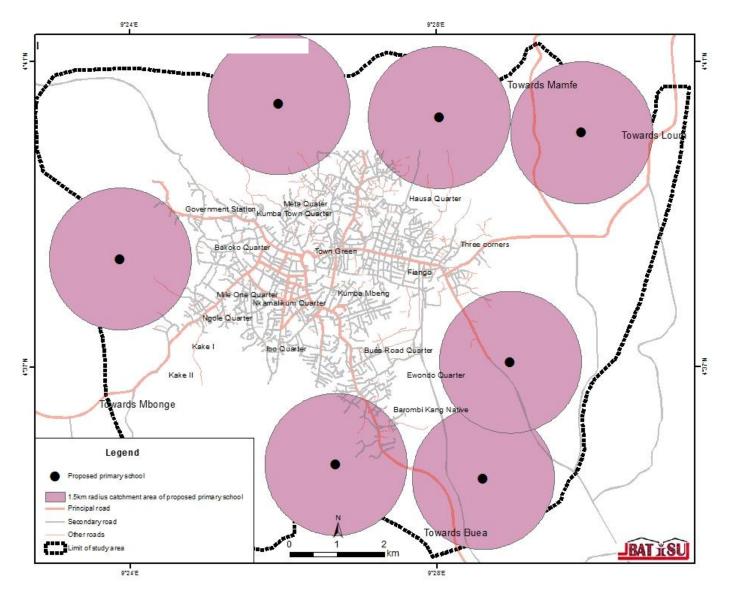


Figure N° 17 : Location of proposed Government Proposed primary Schools

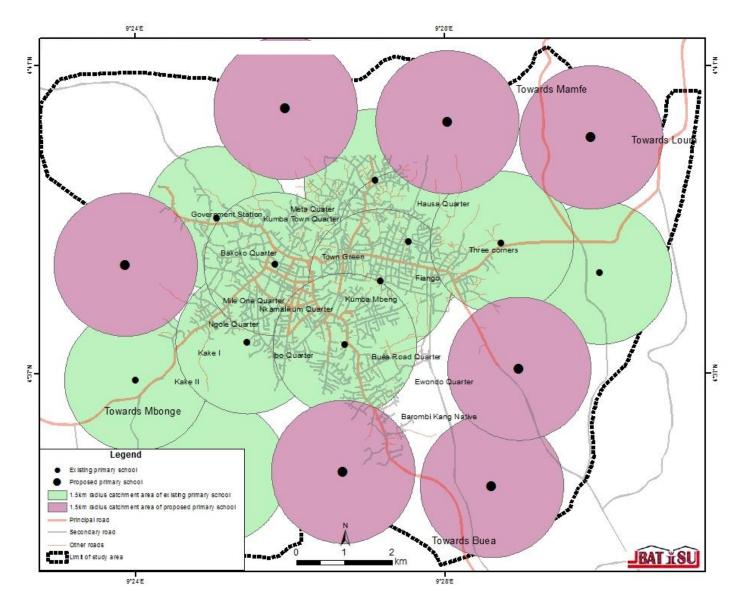


Figure N° 18 : Location of existing and proposed Government Primary Schools

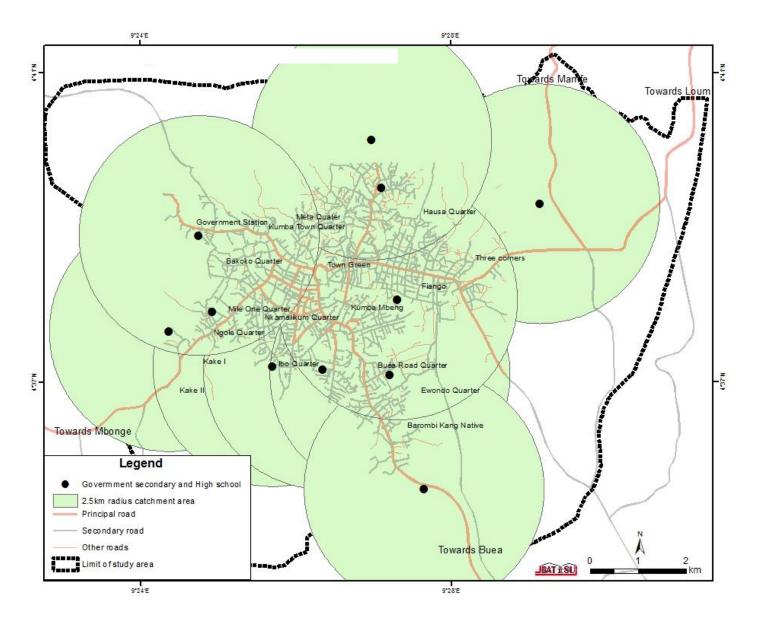


Figure N° 19 : Location of existing government Secondary and High schools

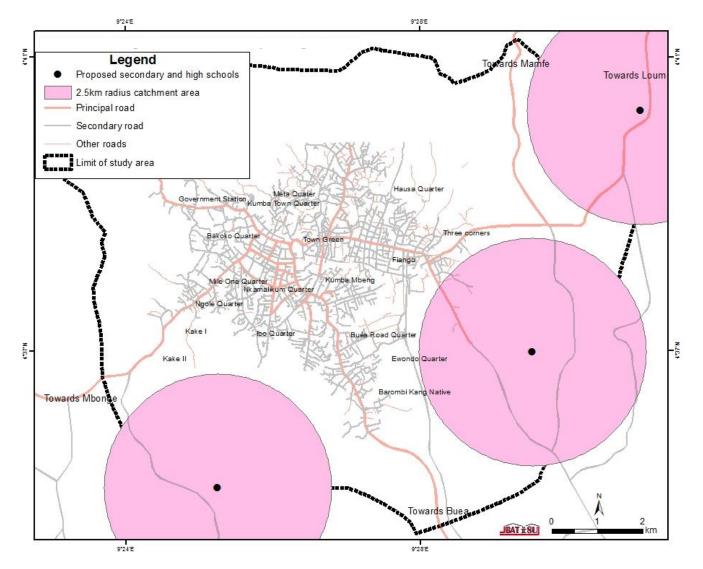


Figure N° 20 : Location of existing Government Secondary and High Schools

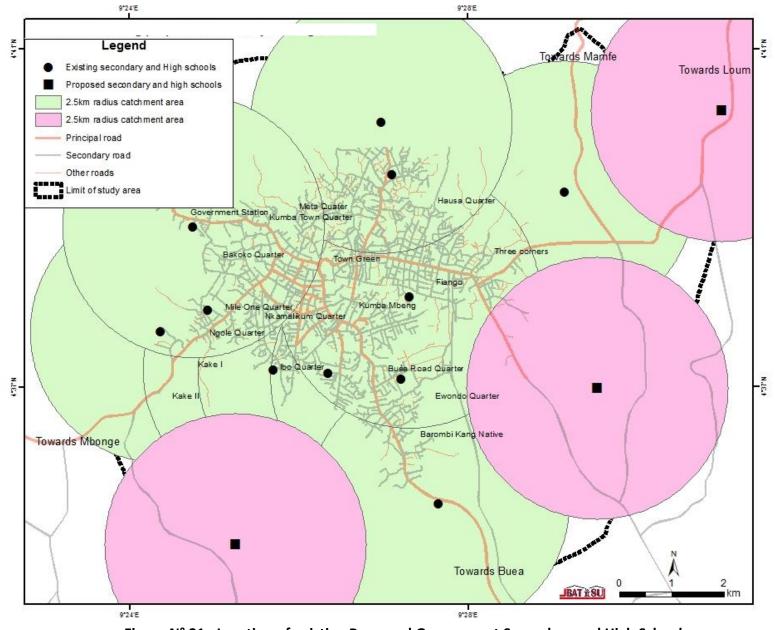


Figure N° 21 : Location of existing Proposed Government Secondary and High Schools

Kumba City Master Planning Report

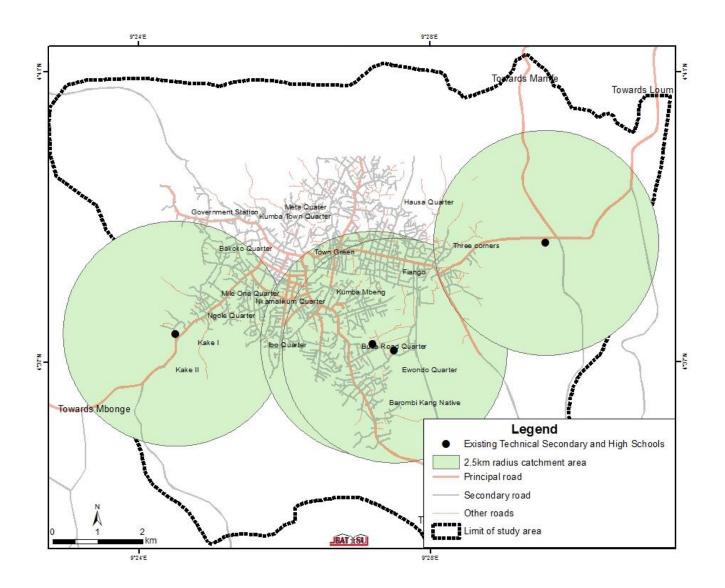


Figure N° 22 : Location of existing Government Technical Secondary and High Schools

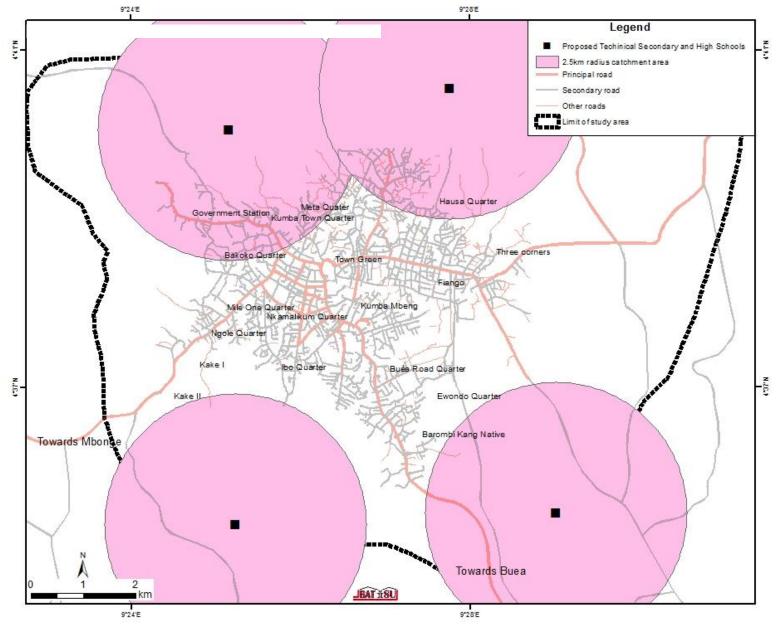


Figure N° 23 : Location of proposed Government Technical Secondary and High Schools

Kumba City Master Planning Report

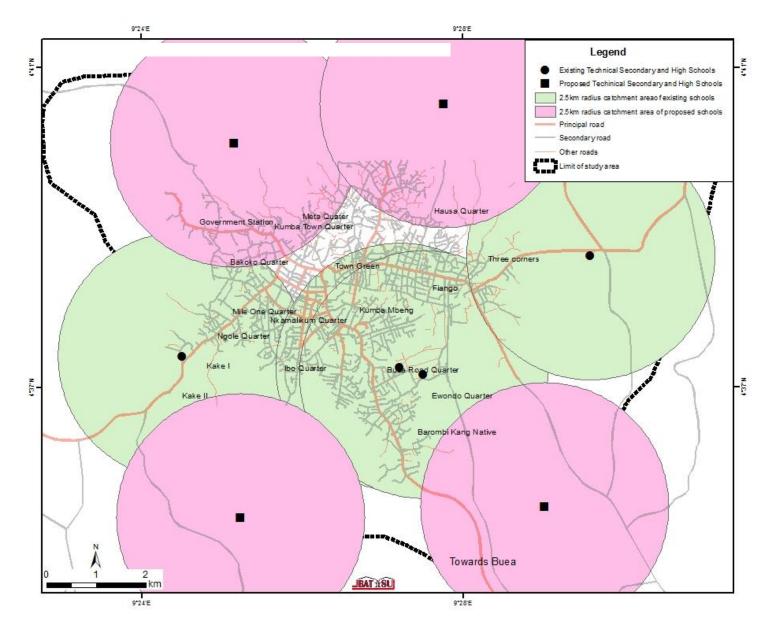


Figure N° 24 : Location of existing and proposed Government Technical Secondary and High Schools

### 8.4 HEALTH FACILITIES

#### 8.4.1 Proposed Standards for Health Facilities

Table N° 9 : Proposed Standards for Health Facilities.

Item	Level of Health Facilities	Level of Provision	Population Threshold	Catchment Radius	Space Allocation (hectares)
01	Health centres	Districts	40-50 000	2.5km	2
02	District hospitals	Towns	40-50 000	4.0km	5
03	General Hospitals	City	200-500,000	5.0km	7-10
04	Reference Hospital	Region	More than 500,000	More than 10.0km	10-15

Source: BATISU Sarl

### 8.4.2 Projected Demand for Public Health Facilities

Table N° 10 : Projected Demand for Public Health Facilities
---

Year	Health Centres		Districts	Districts hospitals		eference itals
E	4	ŀ		1	0	
	т	Р	т	Р	т	Р
2012	5	1	4	3	1	1
2017	6	1	5	1	1	0
2022	8	2	6	1	2	1
2027	11	11 3		3	2	0

Source: BATISU Sarl

Keys: T = total P = Proposed E = Existing

#### 8.4.3 Location plans

- 8.4.4 Recommended Projects
- 8.4.4.1 Rehabilitate and upgrade existing public health facilities
- 8.4.4.2 Acquire and reserve sites for future public health facilities
- 8.4.4.3 Provide new public health facilities to match growing demand

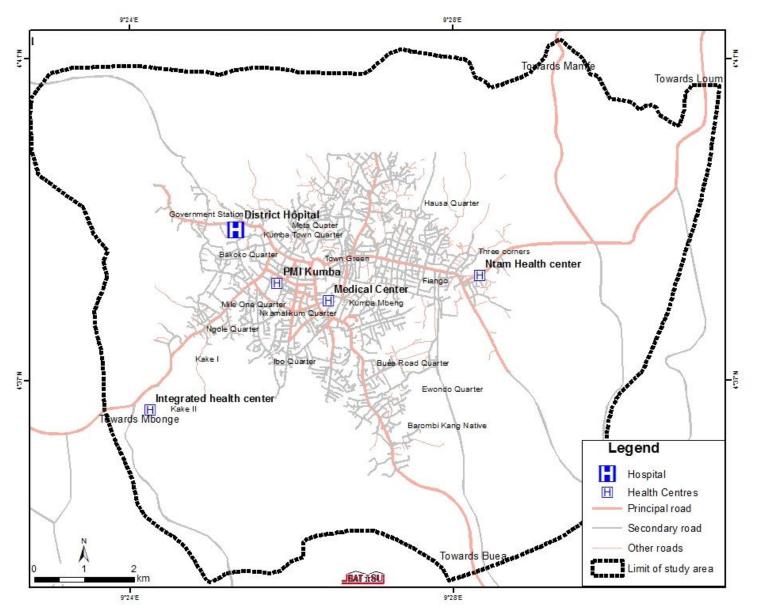


Figure N° 25 : Location of existing Government Health Services

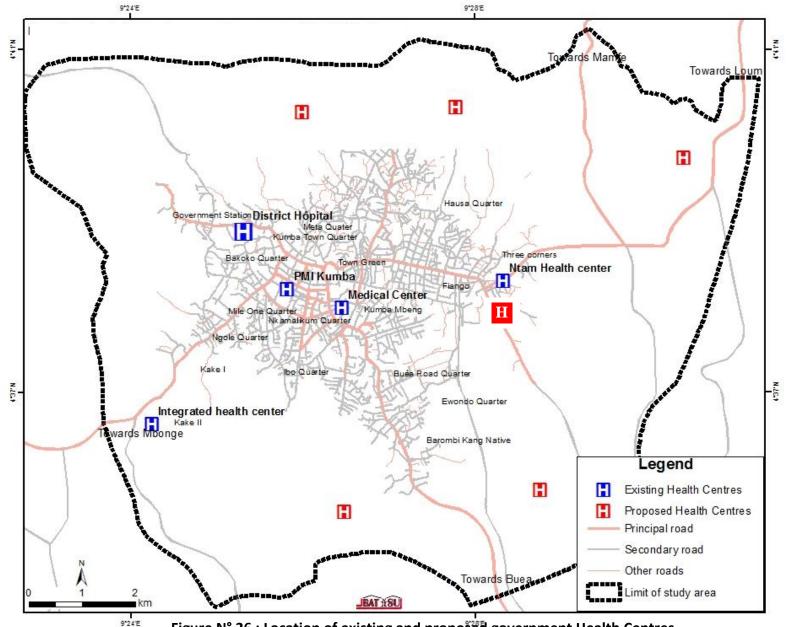


Figure N° 26 : Location of existing and proposed government Health Centres

Kumba City Master Planning Report

#### 8.5 MARKETS AND SHOPPING CENTRES

ltem	Markets and Shopping Facilities	Level of Provision	Population Threshold	Catchment Radius	Space Standards
01	Corner stores	Cluster	1000-2 ,000	500m	200 <i>m</i> <sup>2</sup>
02	Neighbourhood Shops	Quarter/Neighbourhood	7500-10,000	1.5km	500 <i>m</i> <sup>2</sup>
03	District Markets and Shops	District	40-50 000	2.5km	1.0hectares
04	Town markets and Shops	Town	100-150,000	3.5km	3.0hectares
05	Central markets and Shops	City	200-500,000	5.0km	5.0hectares
06	Regional Markets and Shopping mall	Region		N.A	More than 5.0hectares

#### Table N° 11 : Proposed Standards for Markets and Shopping Facilities

Source: BATISU Sarl

#### 8.6 PARKING FACILITIES

#### Table N° 30: shows a planning grill for parking facilities within Kumba City planning area.

Item	Parking Facilities	Level of Provision	Population Threshold	Catchment Radius/Distance	Space Standards
01	Taxi Stops	Busy streets and Junctions	N.A	150m	40m long
02	Bus Stops	Arterial and Primary roads	N.A	500m	30m long
03	Motorcycle parks	Strategic road junctions(off- street)	N.A	300m	50 <i>m</i> <sup>2</sup>
04	On-Street parking	City and Town Centres/Corners Stores	N.A	1om from road junction	Between road junctions
05	Off-street	Activity areas	5 000-10 000	N.A	500 <i>m</i> <sup>2</sup>
06	Intra-Urban bus stations	Towns/Districts	40 -50 000	2.5km	1.0hectares

07	Commuter motor park	Towns	100-200 000	3.5km	1.5hectares
08	Central motor park	City	200-500 000	5.0km	3.0hectares
09	Express bus stations	Urban districts	40 - 50 000	City wide	0.5 hectares
10	Lorry(cargo) parks	City/Region	More than 500 000	More than 5.0km	5.0hectares

Source: BATISU Sarl

### 8.6.2 Location of motor, lorry and bus parks

- All motor, lorry and bus parks are prohibited from locating along arterial and primary roads within the planning area;
- All existing motor, lorry and bus parking facilities along arterial and primary roads must be removed to convenient locations in conformity with these parking rules and regulations;
- Motor, lorry and bus parking facilities can be located at least 50 meters from the edge of secondary and tertiary roads;
- Each motor, lorry and bus park must have a separate entry and exit not less than 50 meters apart;
- The minimum area of a motor, lorry and bus park is 2500 meters square.

# 8.7 CIVIC AND CULTURAL FACILITIES

Table N° 31 : Proposed Standards for Public Libraries and Creativity Centres

Item	Public Libraries	Level of	Population	Catchment	Space	
		Provision	Threshold	Radius/Distance	Standards	
01	Reading Room	Cluster	1000-2000	200m	20-40 <i>m</i> <sup>2</sup>	
02	Neighborhood Library	Neighborhood	7500-10 000	500m	80-100 <i>m</i> <sup>2</sup>	
03	District library	District	40-50 000	2.0km	500 <i>m</i> <sup>2</sup>	
04	Town Library/Creativity Centre	Town	100-150 000	2.5km	1,000 <i>m</i> <sup>2</sup>	
05	City Library/Technological museum	City	200-500 000	5.0km	1-2hectares	
06	Regional Library/Archives	Region	Over 500 000	Over 5km	2-5hectares	

Table N° 27 below shows standards for planning and providing public and community halls which should be used in further detailed planning of urban space.

Item	Public and Community Hall	Level of Provision	Population Threshold	Catchment Radius/Distance	Space Standards
01	Meeting Room	Cluster	500-1,000	200m	20-40 <i>m</i> <sup>2</sup>
02	Neighborhood Hall	Neighborhood	5,000-10,000	500m	100-120 <i>m</i> <sup>2</sup>
03	District Hall	District	50-100,000	1.5km	500 <i>m</i> <sup>2</sup>
04	Town Hall	Town	100-200,000	2.5km	1hectares
05	City Hall	City	200-500,000	5.0km	2-3hectares
06	Conference Centre	Region	Over 500,000	Over 5.0km	3-5hectares

Table N° 32 : Proposed Standards for Public and Community halls

Source: BATISU Sarl

### 8.8 WELFARE FACILITIES

#### Table N° 33 : Proposed standards for welfare facilities

Item	Welfare Facility	Level of Provision	Population Threshold	Space Standard
01	Orphanages	Urban district	50 000	250- 500m square
02	Handicapped centres	Kumba City	Over 100 000	250 500m square
03	Old people's homes	Urban district	50 000	1000- 15000 m square
04	Reformatory centres	Kumba City	Over 100 000	250 500m square
05	Blind and deaf centres	Kumba City	Over 100 000	250 500m square
06	Welfare homes	Urban district	50 000	1000-1500m square

# 8.9 SPORTS AND RECREATION

Table 30 shows proposed standards for providing sports and recreational facilities. These standards should be used in further detailed planning to provide for sports and recreational facilities. The difficulty is usually who shall provide the means, acquire the land, plan and develop sports and recreational facilities and ensure that they are well maintained and managed.

Item	Sports and	Level of	Population	Catchment	Space	
	Recreational Facilities	Provision	Threshold	Radius/Distance	Standards	
01	Toddlers playgrounds	Block	500- 1000	50m	100 <i>m</i> <sup>2</sup>	
02	Infants playground	Cluster	1000-2 000	200m	200 <i>m</i> <sup>2</sup>	
03	Football Pitch	Neighborhood	7500-10 000	1.0km	$6000m^2$	
04	Neighborhood parks	Neighborhood	75000-10	500m	1.0hectares	
	and recreation		000			
05	Sport Complex	District	40-50 000	2.0km	2.0hectares	
06	Town Stadium	Town	100-200 000	2.5km	3.5hectares	
07	City Stadium	City	200-500 000	5.0km	10.0hectares	
08	City park and gardens	City	Over 500	Over 5.0km	Over	
			000		10hectares	

#### 8.10 Open Spaces and Greens

The demand and need for open space varies with income groups, level of education, cultural background, lifestyles and age groups within the life cycle. As such, the trends and pattern of demand for open spaces changes over time and space with changes in recreational habits.

At the moment, the demand and need for urban open spaces are low but would certainly increase in future. As such, sites for open spaces must be acquired, reserved and eventually develop and managed by local council authorities.

# Project Sheet

#### Table N° 12 : Project Sheet

Code	ode         Nomenclature         Time         Present State         Objectives         Potential Sponsors		Potential Sponsors	Beneficiaries	Estimated Cost		
		Frame					
8.3.1	Rehabilitation and upgrading of existing schools	2013- 2015	Run down school infrastructure	Make optimum use of existing schools	<ul> <li>MINEBASE</li> <li>MINESEC</li> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	<ul> <li>Pupils</li> <li>Students</li> <li>Parents</li> <li>Teachers</li> </ul>	3,000,000,000
8.3.2	Acquire and reserve sites for educational facilities	2015- 2017	Inadequate and poorly located school sites	Ensure the proper location of schools	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>MINDAF</li> </ul>	<ul> <li>School communities</li> <li>MINEBASE</li> <li>MINESEC</li> </ul>	500,000,000
8.3.3	Provide new educational facilities to match growing demand	2015- 2022	Schools usually allocated belatedly	Meet growing demands for education	<ul> <li>MINEBASE</li> <li>MINESEC</li> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	<ul><li>Pupils</li><li>Students</li><li>Parents</li><li>Teachers</li></ul>	500,000,000
8.4.4.1	Rehabilitate and upgrade existing public health facilities	2013- 2015	Run down health infrastructure	Make optimum use of existing health facilities	<ul> <li>MINSANTE</li> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	<ul> <li>Health district communities</li> </ul>	2,000,000,000
8.4.4.2	Acquire and reserve sites for future public	2015- 2017	Inadequate and poorly located	Ensure the proper location of	<ul><li>MINSANTE</li><li>MINDAF</li><li>KCC</li></ul>	<ul><li>Health district communities</li><li>MINSANTE</li></ul>	500,000,000

Kumba City Master Planning Report

	health facilities		health facilities	health facilities		Kumba I, II and III		
8.4.4.3	Provide new public health facilities to match growing demand	2015- 2022	Health facilities usually allocated belatedly	Meet growing demands for health facilities	• •	MINSANTE KCC Kumba I, II and III	<ul> <li>Health district communities</li> </ul>	20,000,000,000

KUMBA CITY MASTER PLAN

# 9.0 ENVIRONMENTAL MANAGEMENT PLAN

**PLANNING REPORT** 



# 9.0 ENVIRONMENTAL MANAGEMENT PLAN

# 9.1 OBJECTIVES

The overall objective is to prevent and mitigate undesirable environmental outcomes of all planning and development actions and activities

# 9.2 SOLID WASTE MANAGEMENT

#### 9.2.1 Existing Situation

- Unorganized solid waste management
- Random solid waste disposal

#### 9.2.2 Objective

Develop Kumba City Council capacity to effectively manage solid waste.

#### 9.2.3 Management Processes and Procedures

- Pre-collection
- Collection, transportation and disposal
- Treatment and disposal
- Sanitary inspection of premises

#### 9.2.4 Rules and Regulations

Kumba City Council bye-laws for solid waste management

#### 9.2.5 Recommended Projects

- Sensitisation of the population on pre-collection management of solid waste
- Selection and development of waste disposal site
- Acquisition of waste management materials and equipment
- Kumba City Council capacity building in solid management

### 9.3 SEWAGE MANAGEMENT

#### 9.3.1 Existing Situation

- Poorly constructed individual toilets and latrines
- Poorly constructed and managed septic tanks
- Several households without toilets
- Few public toilets

#### 9.3.2 Objective

Provide Kumba City area with save and reliable individual and public sewage facilities

#### 9.3.3 Management Processes and Procedures

- Sanitary inspection of individual and public sewage facilities
- Procedures for control of construction individual and public sewage facilities

#### 9.3.4 Rules and Regulations

Kumba City Council sewage management bye-laws

#### 9.3.5 Recommended Projects

Construction of public toilets and conveniences

#### 9.4 POLLUTION

#### 9.4.1 Existing Situation

- Watercourses and water bodies polluted with solid, liquid and chemical waste
- Air is continuously polluted by exhaust fumes, smoke and dust
- Rampant uncontrolled noise from motor repair garages and commercial enterprises
- Unpleasant visual environment

#### 9.4.2 Objective

The overall objective is to continuously minimize water, air, noise and visual pollution within the Kumba City planning area.

#### 9.4.3 Rules and Regulations

- Land use zoning regulations
- Solid and liquid waste bye-laws and control measures

## 9.5 PROTECTED AREAS

## 9.5.1 Existing Situation

- Unprotected water catchment
- Irregular occupation and construction on public right-of-ways
- Occupation and construction along watercourses
- Destruction of land forms and scenic sites

## 9.5.2 Objective

The overall objective is to prevent the occupation of protected and risky sites and eventually reclaim those that have been occupied.

## 9.5.3 Management Processes and Procedures

- Identify all protected areas and delimit them
- Prepare a text declaring protected sites
- Carry out feasibility studies on reclaiming occupied protected areas
- Control the occupation of declared protected areas

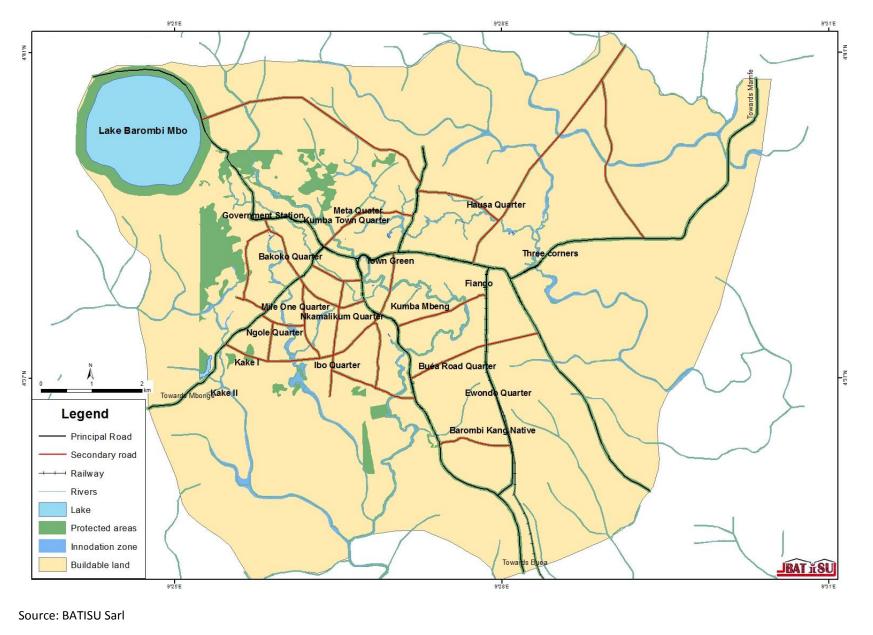
### 9.5.4 Rules and Regulations

See sectoral grill and standards

### 9.5.5 Recommended Projects

9.5.6 Reclamation of occupied protected areas

### 9.5.7 Resettlement of those displaced by reclamation schemes





## 9.6 ENVIRONMENTAL IMPACT ASSESSMENT

## 9.6.1 Existing Situation

- Macro and micro environmental impact assessment not regularly carried out
- Undesirable environmental impacts

#### 9.6.2 Objective

The overall objective is to develop Kumba City Council capacity in macro and micro environmental impact assessment

#### 9.6.3 Processes and Procedures

- Prepare and approve Kumba City Council macro and micro environmental assessment bye-laws
- Carry out public sensitization on macro and micro environmental assessment
- Develop Kumba City Council's capacity in macro and micro environmental impact assessment
- Institute an environment impact tax for Kumba City Council area

## Project Sheet

## Table N° 13 : Project Sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost
9.5.1	Reclamation of occupied protected areas	2015-2027	Continuous occupation of risky areas	Protect risky areas	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>MINHDU</li> </ul>	<ul><li>General public</li><li>Occupants</li></ul>	50,000,000
9.5.2	Resettlement of those displaced by reclamation schemes	2017-2027	Not displaced yet	Permanently settle those displaced	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>MINHDU</li> </ul>	Those displaced	50,000,000
9.5.3	Selection and devevelopment of solid waste treatment and disposal site	2013	Site identified and not formally selected and acquired	Safe treatment and disposal of solid waste	<ul> <li>KCC</li> <li>Kumba I, II</li> <li>and III</li> </ul>	Residents of Kumba City	50,000,000

KUMBA CITY MASTER PLAN

# IO.O ECONOMIC BASE PLAN

## PLANNING REPORT



# I O.O ECONOMIC BASE PLAN

## **10.1 EXISTING SITUATION**

The current state of the economic base of Kumba is weak and unstable and characterized by: -

- Over dependence on a largely primary subsistent agricultural production and natural resource exploitation;
- Weak secondary sector whereby raw materials are simply exported or sold locally without adding value through processing;
- Largely informal tertiary sector based on buying, selling and offering of rudimentary services;
- Timid quaternary sector of research, consultancy and information technologies;
- Un-exploitation of available local, sub-regional and regional economic potentials;
- More money leaves Kumba than it enters and the circulation of money locally is slow and unsteady.

The ultimate undesirable outcomes of the current economic base of Kumba are entrenching poverty resulting from extremely low incomes, unemployment and under employment as returns to production and rendering services extremely low.

## **10.2 OBJECTIVE**

The overall objective of the economic base plan of Kumba is to strengthen, diversify and stabilize the economic base from a largely primary and rudimentary secondary to a modern tertiary sector by: -

- Increasing and valorizing agricultural production and natural resource exploitation within the sub-region so as to increase returns for local produce and products;
- Transforming local produce and raw materials for local consumption and export so as to add value to the produce and natural resources of the sub-region;
- Developing and expanding the industrial and manufacturing base of Kumba and its environs;
- Optimizing the exploitation of touristic potentials of Kumba and its environs as a main source of generating revenues;
- Expanding and upgrading the service and quaternary activities so as to increase the circulation of money and attract external capital into the economy;
- Creating a functional, stable and reliable financial and capital market by expanding local savings and attracting external capital;
- Reorganizing informal economic activities while also restructuring and upgrading formal economic activities;
- Ensuring that money flows and circulates in kumba more than it leaves.

## **10.3 ECONOMIC BASE STRATEGIES**

## **10.3.1** Agricultural Production and Natural Resource Exploitation

Increase and improve on agricultural production and raw material exploitation by:

- Stablishing a branch of chamber of agriculture, livestock and forestry in Kumba
- Extending credit and investments to agricultural production and natural resource exploitation
- Modernizing agricultural production and natural resource exploitation techniques and technologies
- Increasing the scale of agricultural production and raw material exploitation from individual to medium and large size production
  - Cash crop production
  - Food crop production
  - Livestock production
  - Horticulture
- Ensuring access to affordable and appropriate inputs into agricultural and raw material exploitation
- Guaranteeing the marketing of agricultural produce and raw materials

### **10.3.2** Processing of Produce and Raw Materials

Expand and upgrade agro-industrial processing and raw material transformation in the sub-region:

- Establish a branch of chamber of commerce, trade and industry in Kumba
- Agro-industrial processing of:
  - Citrus fruit juice
  - Oil palm products
  - Shear butter
  - Confectionary
  - Cassava and sweet potato flour
  - Spices
- Processing of non-timber forest products
- Wood processing
- Animal feed inputs and products

## **10.3.3** Industrial and Manufacturing Base

Expand and upgrade the industrial and manufacturing sector in the sub-region:

- Manufacturing of inputs into production
- Maintenance and repair industry
  - Auto mechanic

- Electronic
- Electricity
- Digital

## 10.3.4 Tourism

Upgrade and improve touristic facilities and services in Kumba and environs:

- City Cultural Centre
- Kumba Town Green
- Barombi Lake and Forest reserve
- Kumba City Parks and Gardens
- Kumba shopping mall

## **10.3.5** Service Activities

Expand and upgrade service activities in Kumba and environs:

- Trade and commerce
- Wholesale services
- Modern shopping mall
- Retail stores
- Government services
- Transportation facilities and services
- Training and education services

### **10.3.6** Quaternary Services

Reinforce and expand quaternary services in Kumba and environs:

- Consultancy
- Contracting
- Research
- Information technology centre

### 10.3.6 Financial and Capital Market

Expand and upgrade financial and capital services in Kumba:

Sub-regional banking centre

- Sub-regional stock exchange
- Sub-regional micro finance centre

## **10.3.7** Informal and Formal Economic Activities

Organize and provide financial and management assistance to informal economic operators while upgrading and increasing formal economic activities and providing financial and management assistance to formal economic operators.

### 10.3.8 Money Flow

Accelerate the circulation of money within the sub-region:

Internal circulation of money

Curb the unnecessary out flow of capital from sub-region:

- Out flow of money
  - Transmittances
  - Investments out of Kumba

Increase and accelerate the inflow of capital into the sub-region:

- In flow of money
  - Transmittances
  - External investments

#### **10.3.9** Corporate Investments

Create conducive conditions for promoting corporate investments in the sub-region:

- Kumba stock exchange
- Cooperative societies
- Small and medium size enterprises
- Registration of business enterprises

### **10.3.10** Construction Industry

Expand and upgrade the construction industry in the sub-region as a major source of employment and income generation:

- National projects in Kumba and environs
- Regional projects

- Kumba City Council projects
- Kumba I, II and III councils' projects
- Private sector construction projects
- Community projects

## **10.4 Recommended Projects**

## 10.4.1 Carry out an industrial and manufacturing base study of Kumba and its sub-region

10.4.2 Carry out a financial market feasibility study for Kumba

## Project Sheet

## Table N° 14 : Project Sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost
10.4.1	Carry out an industrial and manufacturing base study of Kumba and its sub-region	2013- 2015	Not done	Improve understanding of industrial potentials	КСС	Potential investors	100,000,000
10.4.2	Carry out a financial market feasibility study for Kumba	2013- 2015	Not done	Increase understanding of finance and capital market potentials	КСС	<ul> <li>Residents</li> <li>Investors</li> </ul>	50,000,000

**KUMBA CITY MASTER PLAN** 

# I I.O INSTITUTIONAL CAPACITY BUILDING PLAN

PLANNING REPORT



# I I.O -INSTITUTIONAL CAPACITY BUILDING PLAN

## **11.1 EXISTING SITUATION**

The current institutional environment in Kumba is largely characterized by ineffective local governance and weak partnership manifested by: -

- Ineffective public participation in decision making
- Inadequate transparency in public decision-making
- Inadequate accountability to the public
- Weak and unproductive local partnership
- Unsustainable external partnership
- Unsatisfactory communication with the public

## **11.2 OBJECTIVE**

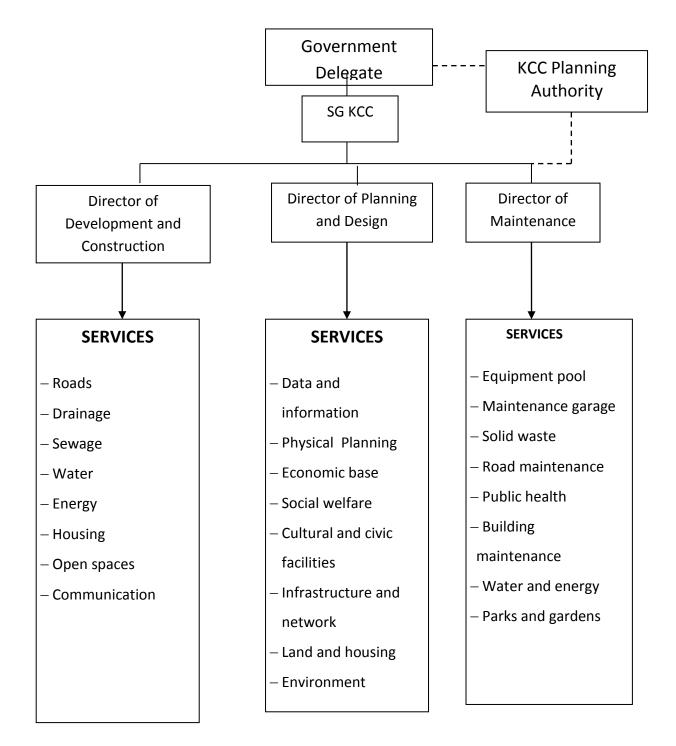
The institutional objective is to ensure an effective local governance and productive partnership with respect to urban planning, design, development and maintenance by: -

- Reorganizing the Technical Department of KCC
- Creating a Kumba City Planning Authority
- Establishing planning and land development processes and procedures
- Developing effective and sustainable partnerships
- Establishing a Kumba City Communication program

## **11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS**

The continuous planning, development and maintenance of Kumba shall strongly depend on the effective organization and functioning of the technical services of the City Council. In doing so, a clear distinction should be made between the responsibilities for planning, design, land development, construction and maintenance.

## **11.3 ORGANIZATIONAL STRUCTURE OF KCC TECHNICAL DEPARTMENTS**



### Graph N° 4 : Organizational structure of Kumba City Council technical services

## 11.4 KUMBA CITY PLANNING AUTHORITY (PA)

## 11.4.1 What is a Planning Authority?

A Planning Authority is an independent body of committed, experienced and competent persons with demonstrated stakes who have been selected and have accepted to serve the residents and officials of Kumba City Council with respect to the planning and development of the City.

## **11.4.2** Terms of reference for a Planning Commission

The proposed terms of reference for Kumba City Planning Authority shall include among others the following: -

- Provide a realistic vision for the planning and development of Kumba
- Receive all applications for development within Kumba City planning area
- Send all applications to KCC planning and design department
- Receive recommendations from KCC planning and design department
- Make recommendations to Government Delegate for approval or reject

## 11.4.3 The members of Kumba City Planning Authority (PA) should include:

- Chair person: independent
- Vice Chair person: independent
- Secretary: independent
- ✤ KCC: member
- Kumba I: member
- Kumba II: member
- Kumba III: member

## 11.5 PLANNING AND LAND DEVELOPMENT PROCESSES AND PROCEDURES

The Kumba City Planning Authority shall ensure that the following planning and land development processes and operational procedures shall be effectively applied and respected: -

- Delimitation of Kumba City planning area
- Delimitation of Kumba urban districts
- Declaration of priority planning areas (PPA)
- Preparation of urban district plans
- Preparation of neighborhood plans
- Planning certificates
- Building permits
- Certificate of fitness and conformity
- Declaration of protected areas

- Acquisition and preservation of land for public and community use
- Planning appeal procedures

## **11.6 DEVELOPMENT OF PARTNERSHIP**

To mobilize the necessary resources needed to implement this plan and continuously planning of Kumba requires that Kumba City Council and its sub-divisional councils should develop and sustain the following productive partnership: -

- Local partnership:
  - Kumba City Council and sub-divisional councils
  - Kumba City Council and Mbonge Tombel and Konye councils
  - Council and land owners partnership
  - Council and private investor partnership
  - Community development
  - Real estate promoters
  - Cultural and development associations and groups
  - Partnership with local financial institutions
- Inter-council partnership:
  - Twinning with other councils in Cameroon
- Partnership with government ministries and departments:
  - MINHDU
  - MINDAF
  - MINPAT
  - MINATD
  - MINEPNMINEBASE
  - MINESEC
  - MINSANTE
  - MINEE
  - CAMWATER
  - AES-SONEL
- Partnership with Public Agencies:
  - MAETUR
  - SIC
  - MAGZI
  - SOWEDA
  - CFC

- External partnership:
  - Funding partners
  - Twinning with councils out of Cameroon

## 11.7 KUMBA CITY COMMUNICATION PLAN

- Kumba City Planning Workshop
- Public information instruments
  - Kumba City Council weekly news letter
  - Kumba City quarterly magazine
- Radio and television programmes
- Workshops and seminars
- Kumba City Council public relation officer

## **11.8 PRIORITY PROJECTS**

- **11.8.1** Employment of adequate and competent technical personnel
- **11.8.2** Setting up of Kumba City Planning Authority
- 11.8.3 Kumba City planning and development processes and procedures
- 11.8.4 Kumba City communication plan
- 11.8.5 Creation of Kumba City partnership platform

## Project Sheet

## Table N° 39 : Project Sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost
11.8.1	Employment of adequate and competent technical personnel	2015- 2022	Inadequate, inexperienced and incompetent technical personnel	Provide KKC with an operational organizational structure and adequate technical person for planning, development and maintenance of Kumba.	<ul> <li>KCC</li> <li>MINATD</li> </ul>	<ul> <li>KCC</li> <li>Kumba I, II and III</li> <li>Community</li> </ul>	1,000,000,000
11.8.2	Setting up of Kumba City Planning Authority	2015	Ad hoc development committee	Empowering an independent body to guide the planning and development of Kumba	<ul><li> PM Office</li><li> MINATD</li><li> MINHDU</li></ul>	<ul> <li>Residents of Kumba</li> <li>Officials of KUmba City Council</li> </ul>	10,000,000
11.8.3	Kumba City planning and development processes and procedures	2013- 2015	Unavailable and ineffective	Provide operational procedures for planning and development	<ul><li>KCC</li><li>MINHDU</li><li>MINATD</li></ul>	<ul> <li>Officials of KCC</li> <li>Land developers</li> <li>Residents</li> </ul>	25,000,000

11.8.4	Kumba City	2013-	Weak	Effective	KCC	<ul> <li>Residents</li> </ul>	
	communication	2015	communication	communication	MINATD	Land	50,000,000
	plan		channels	programme assured	NGO's	developers	50,000,000
						and investors	
						KCC	

KUMBA CITY MASTER PLAN

# I 2.0 FIVE YEARLY PROGRAMME OF IMPLEMENTATION

PLANNING REPORT



# I 2.0 FIVE YEARLY PROGRAMME OF IMPLEMENTATION

### Table N° 40 : Five yearly programme of implantation

Code	Projects	2012-2017	2017-2022	2022-2027
01	Preparation of urban district plans			
02	Preparation of neighborhood plans			•
03	Upgrading of hierarchy of urban roads			•
04	Development of priority urban district infrastructure			
05	Development of priority neighborhoods			
06	Priority housing programmes			•
07	Upgrading of slum areas			
08	Redevelopment of Kumba CBD			
09	Development of district service centres			
10	Development of Kumba industrial zone			•
11	Development Kumba shopping mall			

## 2012-2017 Implementation Program

## Table N° 40 : Five yearly programme of implantation

projects	2012	2013	2014	2015	2016	2017
Official delimitation of Kumba City Planning Area						
Delimitation of proposed urban districts						
Carry out five yearly censuses of Kumba City Area						
Acquisition of satellite images to cover the whole planning area						
Preparation of Urban District Development Plans						
Preparation of Neighborhood Plans in Priority Development Area (PDA)						
Preparation of CBD and Urban District Service Centre Plans						
Preparation of Kumba City land use rules and regulations						
Rehabilitation of tarred urban roads						
Design of natural drainage networks						
Covering of existing constructed open side drains along tarred						
roads						
Construction of adequate public conveniences						
Effective and regular control of private sewage facilities						

Kumba City Master Planning Report

Protection of water catchment			
Rehabilitation and regular maintenance of water supply networks and installations			
Put in place water quality assurance measures			
Carry out studies for upgrading the water supply capacity			
Diversification of sources of energy			
Extension and upgrading of existing electricity networks			
Public street lighting			
Extend communication fiber network to Kumba			
Rehabilitate and upgrade existing fixed telephone networks and installations			
Upgrade mobile telephone facilities			
Selection, acquisition and reservation of sites for Council motor and lorry parks			
Rehabilitation and upgrading of existing council motor parks			
Preparation of Kumba City parking rules and regulations			
Facilitate access to housing finance and construction techniques and technologies			
Facilitate access to housing land for the poor			
Facilitate access to basic services and utilities in housing areas			
Construction of 1000 social houses yearly			
Rehabilitation and upgrading of existing schools			

			r	
Acquire and reserve sites for educational facilities				
Provide new educational facilities to match growing demand				
Rehabilitate and upgrade existing public health facilities				
Acquire and reserve sites for future public health facilities				
Carry out an industrial and manufacturing base study of Kumba				
and its sub-region				
Carry out a financial market feasibility study for Kumba				
Setting up of Kumba City Planning Authority				
Kumba City planning and development processes and procedures				
Kumba City communication plan				
Studies for Widening Kumba City and Kumba I, II and III				
development tax bases				
Kumba City Development Platform				
Feasibility study for community participation in development				
		1	1	

KUMBA CITY MASTER PLAN

## **13.0 FINANCIAL PLAN**

## PLANNING REPORT



# **13.0 FINANCIAL PLAN**

## **13.1 EXISTING SITUATION**

The current levels of KCC revenue are largely inadequate and insufficient to ensure the effective planning, development and management of Kumba. The local finance situation is generally characterized by: -

- Inadequate, unreliable and unstable local finance
- Inadequate transparency in public expenditure
- Weak local tax base
- Leakage in public revenue collection
- Inadequate government credits to Meme Division
- Inadequate external funding

## **13.2 OBJECTIVES**

The main objective of the financial plan is to provide Kumba City Council with adequate, stable and reliable sources and funds for the continuous planning, development, maintenance of Kumba City.

## **13.3 FINANCE MOBILIZATION PLAN**

### 13.3.1 Widening Kumba City and Kumba I, II and III development tax bases

### 13.3.2 Increasing Kumba City and Kumba I, II and III annual capital investment for planning,

### development and maintenance:

- Increasing public investments in Kumba and the sub-region through the national programme and strategies of decentralization especially from: -
  - MINHDU
  - MINDAF
  - MINTP
  - MINEE
  - MINEBASE
  - MINSEC
  - MINSANTE
  - MINEPN
- Increasing the level of public agency investments in Kumba by: -

- MAETUR
- FEICOM
- SIC
- MAGZI
- CFC
- SOWEDA
- Increasing the level of external funding of development projects in Kumba by: -
  - World Bank
  - ADB
  - UN-HABITAT
  - Shelter Afrique
  - European Union
  - French Cooperation Mission
  - Etc.
- Increasing the level of community participation in development through the:
  - Organization of quarter/neighborhood development associations
  - Creation of urban district development unions
  - Organization of monthly community work

## **13.4 PRIORITY PROJECTS**

- 13.4.1 Studies for Widening Kumba City and Kumba I, II and III development tax bases
- 13.4.2 Kumba City Development Platform
- **13.4.3** Feasibility study for community participation in development

## Project Sheet

## Table N° 41 : Projet Sheet

Code	Nomenclature	Time Frame	Present State	Objectives	Potential Sponsors	Beneficiaries	Estimated Cost
13.4.1	Studies for Widening Kumba City and Kumba I, II and III development tax bases	2013- 2015	Never done	Increase sources and levels of council revenue	<ul><li>KCC</li><li>MINATD</li></ul>	<ul> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	50,000,000
13.4.2	Kumba City Development Platform	2015	None existent	Attract technical and financial assistance for KCC	<ul><li>KCC</li><li>MINATD</li></ul>	<ul> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	50,000,000
13.4.3	Feasibility study for community participation in development	2013- 2015	Inadequate community involvement and participation	Enhance community ownership and contributions	<ul><li>KCC</li><li>MINATD</li><li>MINHDU</li></ul>	<ul> <li>KCC</li> <li>Kumba I, II and III</li> </ul>	25,000,000

KUMBA CITY MASTER PLAN

# I 4.0 ANNEXES

## PLANNING REPORT

