

ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT (ESIA) OF THE ROAD N13: CUAMBA – MANDIMBA – LICHINGA

CONTRACT NO. 781/DG/2010

RESETTLEMENT ACTION PLAN (RAP) **RESETTLEMENT ACTION PLAN (RAP)**

Table of Contents

List of Abbreviations and Acronyms	6
Definition of Terms used in The Report	7
Executive Summary	10
1.0 Project Description.....	14
1.1 DESCRIPTION OF THE PROJECT SITE	14
1.2 OBJECTIVES OF THE RESETTLEMENT ACTION PLAN	15
1.3 METHODOLOGY FOR PREPARATION OF THE RAP	15
1.3.1 PRELIMINARY DISCUSSIONS AND LITERATURE REVIEW	15
1.3.2 PRELIMINARY FIELD INVESTIGATIONS	16
1.3.3 <i>Consultations with the stakeholders and PAPs.....</i>	<i>16</i>
1.3.4 <i>Site investigations</i>	<i>17</i>
1.3.5 <i>Socioeconomic Study</i>	<i>17</i>
1.4 CONSTRAINTS AND LIMITATIONS TO THE PREPARATION OF THE RAP	18
2.0 Details of the Affected Area.....	19
2.1 PROJECT ZONE OF IMPACT	19
2.2 POPULATION.....	19
2.2 POPULATION.....	20
2.3 FLORA AND FAUNA	20
2.4 LAND ADMINISTRATION AND LAND TENURE.....	20
2.5 LAND USES	20
2.6 SOURCES OF LIVELIHOOD AND LIVING STANDARDS	21
2.7 HOUSEHOLD ORGANIZATION, COMMUNITY STRUCTURES AND PATTERNS OF SOCIAL INTERACTION.....	21
3.0 Affected Persons and Property	21
3.1 AFFECTED PERSONS	21
3.2 VULNERABLE GROUPS	22
3.3 AFFECTED PROPERTY	22
3.3.1 <i>Affected Buildings and Structures.....</i>	<i>22</i>
3.3.2 <i>Affected Farm Land and Compounds</i>	<i>23</i>
3.3.3 <i>Affected Trees</i>	<i>23</i>
3.3.4 <i>Affected Graves.....</i>	<i>24</i>
4.0 MECHANISMS TO MINIMIZE LOSS OF ASSETS AND LIVELIHOODS.....	25
4.1 ISSUES RAISED BY THE PAPs AND WAYS TO ADDRESS THEM.....	25
4.2 GENERAL CONSIDERATIONS TO MINIMIZE LOSS OF ASSETS AND LIVELIHOODS	27
4.3 LEGAL, POLICY AND ADMINISTRATIVE FRAMEWORK	27
4.3.1 <i>National Laws, Legislation and Policies</i>	<i>27</i>
4.3.2 <i>National Administrative Framework</i>	<i>28</i>
4.3.3 <i>International Policies and Guidelines</i>	<i>29</i>
4.3.4 <i>Discrepancies with international good practice requirements for resettlement and compensation</i>	<i>31</i>
4.4 ELIGIBILITY FOR COMPENSATION.....	37
4.5 VALUATION OF ASSETS AND COMPENSATION FOR LOSSES	39
4.5.1 <i>Valuation of Physical Assets.....</i>	<i>39</i>

4.5.2	<i>Cost and Consolation for Relocation of Affected Graves</i>	39
4.5.3	<i>Valuation for Fruit, Plantation and Indigenous Trees</i>	40
4.5.4	<i>Cost for Gardens and farmland</i>	40
4.6	COMPENSATION AND RELOCATION MEASURES	41
4.7	ENVIRONMENTAL PROTECTION AND MANAGEMENT	42
4.8	COMMUNITY PARTICIPATION	42
5.0	Implementation Schedule	42
5.1	UPDATING INFORMATION OF THE AFFECTED PERSONS AND ASSETS	42
5.2	GRIEVANCE REDRESS PROCEDURES	43
5.3	INSTITUTIONAL RESPONSIBILITIES FOR IMPLEMENTATION OF THE RAP.....	44
5.4	IMPLEMENTATION SCHEDULE	46
5.4.1	<i>Elements of the Implementation Schedule</i>	46
5.4.2	<i>Benchmarks</i>	48
5.4.3	<i>Linking Resettlement Implementation to Civil Works</i>	48
5.4.3.1	Target Dates for Start and Completion of Civil Works for Relocation	48
5.4.3.2	Date for Possession of Land that PAPs are Using	48
6.0	Monitoring and Evaluation.....	49
7.0	Cost for the Rap.....	56
7.1	COST SUMMARY	56
7.2	COMPENSATION FOR THE AFFECTED BUILDINGS AND STRUCTURES	56
7.3	ASSISTANCE TOWARDS OPENING OF NEW GARDENS	56
7.4	COSTS FOR EXHUMATION AND CONSOLATION FOR AFFECTED GRAVES	56
7.5	DISTURBANCE ALLOWANCE	57
7.6	ALLOWANCE FOR VULNERABLE GROUPS	57
7.7	COMPENSATION FOR LOSS OF INCOME	57
8.0	Conclusion	59
9.0	Recommendations	61
APPENDICES		62
APPENDIX 1	AFFECTED HOUSES	62
APPENDIX 2	AFFECTED KITCHENS	91
APPENDIX 3	AFFECTED SHOPS	95
APPENDIX 4	AFFECTED MAIZE STORES	104
APPENDIX 5	AFFECTED TOILETS	107
APPENDIX 6	AFFECTED MOSQUES	109
APPENDIX 7	AFFECTED POULTRY COOP	109
APPENDIX 8	AFFECTED WELLS.....	110
APPENDIX 9	AFFECTED COMPOUND/YARD	110
APPENDIX 10	AFFECTED KRAALS	116
APPENDIX 11	AFFECTED TREES	116
APPENDIX 12	AFFECTED GRAVES	124
APPENDIX 13	AFFECTED GARDENS.....	127
APPENDIX 14	HOUSE HOLDS WITH ELDERS	139
APPENDIX 15	HOUSE HOLDS WITH ORPHANS	140

List of Tables

Table 1. Road Sections and Total Road Length	14
Table 2 Número of Houses and of Persons residents to be Resettled.....	21
Table 3 Summary of Affected Houses and Other Structures	23
Table 4 Key Issues Raised by PAPs	25
Table 5. Comparison Between National and International Policies and Legislations on Resettlement and Compensation.....	32
Table 6 Entitlement Matrix for Various Categories of PAPs.....	38
Table 7 Institutional Responsibilities for Implementation of The Rap.....	45
Table 8 Implementation Schedule for the N13 Road RAP	47
Table 9 Monitoring Indicators	51
Table 10 Summary of the Estimated Costs for the RAP.....	58

List of Abbreviations and Acronyms

AfDB	African Development Bank
ANE	National Roads Administration
COI	Corridor of Impact
CSC	Construction Supervision Consultant
DA	District Administration
EIA	Environmental Impact Assessment
EP	Entitled Persons
ESIA	Environmental Social Impact Assessment
GoM	Government of the Republic of Mozambique
HHE	House Holds Headed by the Elderly
HHO	House Hold Headed by Orphans
JICA	Japanese International Cooperation Agency
M & E	Monitoring and Evaluation
MICOA	Ministry for Coordination of Environmental Issues
PAPs	Project Affected Persons
RAP	Resettlement Action Plan
ROW	Right of Way
WB	World Bank

Definition of Terms used in The Report

Unless the context dictates otherwise, the following terms shall have the following meanings:

1. **“Census”** means the field survey carried out to identify and determine the number of Project Affected Persons (PAP) and their assets, in accordance with the internationally accepted procedures satisfactory to JICA, the World Bank (WB), African Development Bank (AfDB) and other major donor Safeguard Policies. The meaning of the word also embraces the criteria for eligibility for compensation, relocation and other measures, emanating from consultations with affected communities and the local leaders within the N13 road project area.
2. **“Compensation”** means the payment in kind, cash or other mutually accepted form, given in exchange for the taking of land including assets thereon, in part or whole.
3. **“Cut-off date”** is the date fixed during commencement of the census of PAPs within the N 13 road project area boundaries. This is the date on and beyond which any person whose land is occupied for project use, will not be eligible for compensation.
4. **“Project affected persons” (PAPs)** means persons who, for reasons of the involuntary taking of their land and other assets under the project, will result in direct economic and or social adverse impacts, regardless of whether or not the said PAPs physically relocate. These people will have their:
 - (a) standard of living adversely affected, whether or not the PAPs must move to another location ;
 - (b) right, title, interest in any house, land (including premises, agricultural and grazing land) or any other fixed or movable asset acquired or possessed, temporarily or permanently, adversely affected;
 - (c) access to productive assets adversely affected, temporarily or permanently; or
 - (d) business, occupation, work or place of residence or habitat adversely affected.
5. **“Involuntary Displacement”** means the involuntary taking of land resulting in direct or indirect economic and social impacts caused by:
 - (a) loss of benefits from use of such land;
 - (b) relocation or loss of shelter;
 - (c) loss of assets or access to assets; or
 - (d) loss of income, sources or means of livelihood, whether or not the PAP will move to another location.

6 **"Involuntary Land Acquisition"** is the taking of land by government or other government agencies for compensation, for the purposes of the N 13 road project activities, against the will of the landowner. This includes land or assets for which the owner enjoys uncontested customary rights.

7. **"Land"** refers to agricultural and/or non-agricultural land and any structures thereon whether temporary or permanent and which may be required for the N 13 road Project.

8. **"Land acquisition"** means the taking of or alienation of land, buildings or other assets thereon for purposes of the Project.

9. **"Rehabilitation Assistance"** means the development assistance, in addition to compensation, such as land preparation, credit facilities, training, or job opportunities, needed to enable PAPs improve their living standards, income earning capacity and production levels, or at least maintain these at pre-project levels.

10. **"Resettlement Action Plan (RAP)", also known as a "Resettlement and Compensation Plan", or "Resettlement Plan"** - is this resettlement instrument (document) prepared for the identified project activity locations. This RAP contains specific and mutually binding requirements to be abided by ANE, to resettle and compensate the affected party, before implementation of the project activities causing the adverse impacts.

11. **"Replacement cost"** means sufficient amount for replacement of assets to cover full replacement cost of lost assets and related transaction costs. The cost is to be based on market rate (commercial rate) according to the Mozambican law for sale of land or property:

(a) "replacement cost for agricultural land" means the pre-project or pre-displacement market value of land of equal productive potential or use, located in the vicinity of the affected land, plus the costs of preparing the land to levels similar to the affected land; and

(b) any registration, transfer taxes and other associated fees.

12 **"Replacement cost for houses and other structures"** means the prevailing cost of replacing affected structures, of the quality similar to or better than that of the affected structures, in the affected N 13 project area. Such costs include:

- (a) transporting building materials to the construction site;
- (b) any labour and contractors' fees; and
- (c) any registration costs.

13. **“Resettlement Assistance”** means the measures to ensure that PAPs, who may be required to physically relocate, are provided with assistance such as moving allowances, residential housing or rentals, whichever is feasible and as required, for ease of resettlement during relocation.

14. **“Vulnerable Groups”** refers to:

- low capacity households - widows, the disabled, marginalized groups, low income households and informal sector operators;
- incapacitated households – those not fit to work and;
- child-headed families and street children

This group is among other things, characterised by low nutrition levels, low or no education, lack of employment or revenues, old age, ethnic minority and/or gender bias.

15 **“Yards”** means the enclosed piece of land, usually behind a dwelling house or other building. It is also called “back yard”

Executive Summary

The Government of Mozambique (GOM) is discussing possibilities of a loan from the Japanese Government and AfDB, for improvement of transport infrastructure and for strengthening the institutional capacity of the roads sector. The Government, through ANE, plans to apply a portion of these funds to eligible payments, for the Environmental and Social Impact Assessment (ESIA) of the N13 (Cuamba-Mandimba-Lichinga) Road. The proposed project works comprise of:

- Asphalt paving and sealing of the 302km long N13 road sections connecting the Cuamba – Mandimba – Lichinga districts and the road section from Mandimba to the Malawi Boarder;
- Construction of drainage;
- Ancillary road works comprising installation of road signs, kilometre posts and guard rails; and road marking as well as grassing embankment slopes; and
- Associated works which include removal and re-installation of railway level crossings, demolition of existing concrete, removal of corrugated pipes, construction of temporary diversions and sourcing and transportation of construction materials.

Upgrading the N13 Road will necessitate demolition of houses, kitchens, toilets, tobacco barns, kraals, Yards, maize stores, water wells, Chicken coop; and destruction of graveyards. Structures to replace the demolished ones will be re-constructed within the surrounding areas. There are no better alternative sites to avoid or minimize relocation of people. However, re-alignment of the new road, to avoid graveyards is highly recommended.

This Resettlement Action Plan (RAP) is prepared to ensure that construction of the N13 Road, in built up areas, will have minimum impacts on the Project Affected Persons (PAPs), their structures and livelihood. Hence some of the mechanisms to minimize adverse impacts of displacement of people and their structures must include:

- Relocation or repositioning of affected structures to within the surrounding areas;
- Paying fair compensation in time and before PAPs' property is removed;
- Maintaining or improving PAPs' means of livelihoods;
- Ensuring that PAPs' grievances, in relation to the project, are accommodated and addressed promptly; and
- Providing employment to PAPs, as an alternative source of income, where appropriate.

The general guiding principle for preparation of this RAP was that there should be fair compensation upon land acquisition, relocation, loss of assets and impact on livelihood. The zone of the land taking activities for the proposed project is the Corridor of Impact (COI) which extends approximately 9m from the shoulders as recommended by ANE to reduce the number of PAPs. and also guarantee road safety. This choice was made instead of (a) the ROW of 30m recommended in the Mozambican legislation which would have involved a lot of PAPS and consequently a higher resettlement cost; and (b) 7m COI proposed by the design engineer and which did not guarantee road safety.

Assessment and measurement of affected property, which include houses, kitchens, maize stores, chicken coop, agricultural fields, planted trees and graveyards was done within the 9m COI along the road from Lichinga to Cuamba. The project engineering firm was consulted and it was agreed by all that this limit was sufficient to guarantee road safety and reduce resettlement costs.

The census to identify PAPs and their assets commenced on the 17th of March, 2011 and continued up to 25st of March 2011; and from 17 to 25th May, 2011. The cut off date was determined and set as the 25th May 2011 at the beginning of the census, through a consultative process. Key stakeholders consulted included local chiefs, some representative of PAPs, representatives from Lichinga, Ngauma, Mandimba and Cuamba district councils and officials of ANE. The community leaders and the PAPs were well informed of the cut off date and advised that after this date, any new settlements within the project impact area will not be compensated for.

A total 2,639 persons in 531 household (includes PAPs with houses within the COI and those with other properties such as gardens exclusive of their houses.) will be affected by the road project. 531 households will be physically displaced and will be relocated to new sites outside the COI. The backyards of the houses in the COI are spacious and discussions with the PAPs and local leaders led to the agreement that people will shift demolished houses inwards behind the existing location. The displaced persons will require fair, adequate and timely compensation for their lost houses. .

793 buildings and structures will be affected. These include 531 houses, 51 kitchens, 141 shops, 29 maize stores, 24 toilets, 8 sheds and 9 other structures. Other affected properties include 1,850 fruit and plantation trees, 152 small gardens covering an area of 33.03 hectares, 75 yards covering an area of 52 hectares and 40 graves. It was noted from the field investigations that with the 9m COI there will not be any mass movement of graves. However, it is strongly advised that moving graves should be avoided by shifting the road from the side with the graves to the other side.

Most of the affected population fundamentally survive on subsistence farming and occasionally on small businesses, mainly shops near the road. The PAPs also sell food

items such as fruits, sugarcane and potatoes, harvested from their gardens, to earn some cash. PAPs also engage in small-scale livestock production consisting of cattle, sheep, goat and poultry.

The total estimated cost of relocation and compensation is US\$1,254,863.70. This includes US\$802,811.80 for buildings and structures; US\$16,938.69 for assistance for opening new gardens; US\$58,172.87 for trees to be lost, US\$22,622.70 for exhuming and repositioning graves; US\$188,571.43 to be paid for loss of income to shop owners; US\$11,213.15 as allowances for vulnerable groups and a 10% (US\$110,033.06) of the total amount of compensation to be paid as contingency for eventualities.

Cost of affected buildings and other physical structures was determined from the replacement cost for similar or better structures. According to PAPs in the various consultations, compensation in cash was preferable for relocation of affected houses to areas within the existing locations. For other Affected persons, their property and graves (if necessary) will be interspersed within the existing affected villages or nearby villages in the respective districts. The new sites will be identified by the community and local leaders, with assistance from their respective District Administrators.

This RAP was prepared simultaneously with an environmental impact assessment and socioeconomic study conducted in the project area. This facilitated compilation of personal particulars and assets, for the persons affected by the road construction activities.

The socioeconomic studies, among other things, revealed the following important observations:

- in general, rehabilitation of the N13 Road will not deny the majority of PAPs opportunities to revert to their current lifestyles, after the road construction;
- the site is likely to benefit from infrastructure and social development associated with the project; and
- moderately adverse impacts of relocation such as loss of land for cultivation and loss of property are envisaged. These impacts will be short term and manageable provided the recommendations of this RAP are followed.

Local leaders and the PAPs participated in the census for preparation of this RAP. Several meetings were conducted in Lichinga, Ngauma, Mandimba and Cuamba District Administration Offices and on the sites to appreciate the extent of displacement of people and implications of relocating the graves. Through these meetings, it was observed that:

- generally, rehabilitation of the N13 Road and relocation of PAPs will not significantly affect their current lifestyles, provided that the recommendations of this RAP are strictly followed throughout implementation of the project;
- implementation of the project will not substantially shift the people's means of livelihood from predominantly relying on subsistence farming and occasionally on small shops near the road; and
- the PAPs support implementation of the project, in spite of the impending relocation. The main advantage of the project, as perceived by the PAPs is that it will enhance development and improve transport services.

Eligible persons will be compensated for loss of property, in line with the consultations with PAPs and this RAP. Compensation for losses will be in cash as presented in the compensation schedules in Chapter 7, Table 7.1.

For effective implementation of this RAP it is recommended that the following should be adhered to:

- PAPs must be compensated, in accordance with this Resettlement Action Plan.
- Due to the nature of the population and their activities, it is very important to maintain up to date information to ensure that the right people will be compensated.
- The civil works contractor will have to ensure that no property is demolished before the PAPs have received compensation and any necessary additional assistance to settle into normal life.
- Grievances from the PAPs should be directed to the local leaders or to the district administration in Lichinga, Ngauma, Mandimba and Cuamba to resolve the complaints amicably at the local level. All grievances should be reported to ANE for documentation.
- The civil works contractor will liaise with the District Administrators, PAPs and the local leaders, in the project area, to ensure that implementation of civil works for the RAP does not adversely affect PAPs.
- PAPs must confirm that the resettlement plans contain acceptable measures that link resettlement activity to civil works, in compliance with this RAP.
- All payments of Compensation and assistance shall be made in the presence of the PAPs in question and the local leaders.
- Monitoring for land acquisition, relocation and compensation activities should fit the overall monitoring programme of the entire N13 Road, which falls under the overall responsibility of ANE.

1.0 Project Description

The proposed project comprise widening the road; providing sealed shoulders, effective side drains and culverts. The project design also includes ancillary activities such temporary road diversions which will require additional land adjacent to the road. The main specific components of the proposed project are:

- a) asphalt paving and sealing of the N13 road sections connecting Cuamba– Mandimba – Lichinga and the road section from Mandimba to the Malawi Border. The total length of road to be improved is 302. (Table 1);
- b) construction of drainage; and
- c) ancillary road works comprising installation of road signs, kilometre posts and guard rails; and road marking as well as grassing embankment slopes.

Other associated works include removal and re-installation of railway level crossings, demolition of existing concrete, removal of corrugated pipes, construction of temporary diversions and sourcing and transportation of construction materials.

Table 1. Road Sections and Total Road Length

District	Lichinga	Ngauma	Mandimba	Cuamba	Mandimba – Malawi Border	Total
Road length (km)	49	56	134	57	06	302

1.1 Description of the Project Site

The proposed road improvement project is located in Niassa Province, which harbours the following districts and municipalities: Lichinga Municipality and District, Cuamba Municipality and District, Mandimba District and Ngauma District. The project area is within large undeveloped land with scattered settlements and low population density.

According to the findings in the Preparatory Study Report¹, the existing road alignment passes through many small villages. The road undulates from an altitude of 560masl at Cuamba to about 1400masl at Lichinga and the road alignment generally follows the watershed crest and natural ground.

¹ The Preparatory Study on Road Improvement Plan in Nacala Development Corridor (N13: Cuamba-Mandimba-Lichinga) in the Republic of Mozambique Final Report. February 2010. Eight-Japan engineering Consultants Inc. Oriental Consultants Co., Ltd.

1.2 Objectives of the Resettlement Action Plan

This Resettlement Action Plan (RAP) is required to guide the process of land acquisition, relocation and compensation, to accommodate the activities associated with rehabilitation and operation of the N13 road. The main objective of the RAP is to minimize impacts of physical and economic displacement of the people affected by the road works activities and to:

- a) assess the impacts and to determine compensation for losses by PAPs;
- b) present organizational responsibilities for implementation of the RAP;
- c) prepare an implementation schedule and modalities for the RAP;
- d) prepare implementation costs and budget for the RAP and;
- e) prepare monitoring and evaluation mechanisms for implementation of the RAP.

The general guiding principles for achieving the objective of this RAP are, among others, that there should be fair compensation upon land acquisition, relocation, loss of assets and impact on livelihood.

1.3 Methodology for Preparation of the Rap

The approach followed for preparation of this RAP includes:

- preliminary discussions and literature gathering;
- preliminary field investigations;
- consultations with various stakeholders (in order to accommodate views from a cross section of people at various levels); and
- conducting site investigations and socioeconomic studies on the affected persons, to establish the extent of land-take and social impacts from the project activities.

1.3.1 Preliminary Discussions and Literature Review

Preliminary discussions were held with the following institutions and relevant literature collected:

- the Client (ANE) was consulted to confirm the objectives of the project, the study area, collect project documents relevant to the study and validation of the consultant's work program;
- the Environmental Officer was consulted to request for any relevant literature and to discuss his experiences on resettlement and compensation on donor funded projects;
- the National Director for Resettlement in MICOA was consulted to discuss the role and requirements of the Ministry, in resettlement for road projects. Key issues highlighted include social integration of the affected persons, management of borrow pits and monitoring resettlement and compensation;

- the National Director for EIA in MICOA was also consulted to discuss the requirements and procedures for conducting Environmental and Social Impact Assessments in Mozambique. Relevant documents and legislation on the ESIA process were collected;
- the National Director for Roads was consulted to discuss the Roads 3 Project implementation modality and phases.
- The Chief Director for Property Evaluation in Niassa Province was consulted to discuss property evaluation procedures and methods; and to collect relevant information;
- The ANE Delegation in Lichinga was consulted to discuss the project site and to obtain additional technical documents including maps for the project area. Discussions centred on details and agreement on the road COI, property likely to be affected (including graveyards) and logistics for the detailed site investigations and property assessment.

1.3.2 Preliminary Field Investigations

The Consultant's team for the preliminary field investigations comprised of the Managing Director of AGEMA, the project Team Leader, Mr. K. Kafatia and a Civil Engineering Technician. The consultant's team was accompanied by the Environmentalist from ANE. The main objective of the preliminary field investigations was for the consultant to have the general overview of the project site, existing infrastructure and socio-economic activities.

The Consultant's team drove on the EN 13 road from Lichinga, making several stops and brief observations on the road section between Lichinga and Mandimba (including the Mozambique-Malawi Boarder at Mandimba) and on the Cuamba - Mandimba Road Section.

The Consultant's team conducted random interviews with road users and people living along the road. Discussions were also held with government and non-government organizations in Lichinga. Informal discussions were held with local village representatives using the road and located along the road.

1.3.3 Consultations with the stakeholders and PAPs

Key stakeholders including key government institutions, local chiefs, the community and the PAPs were consulted and involved during preparation of this RAP.

ANE Delegation facilitated all meetings with the district administration and local leaders in the affected communities. They also facilitated and participated in the assessment of affected persons gardens, trees, crops and graves.

At community level, key informant interviews with the local leaders; and focus group discussions with selected groups of PAPs and representatives of the four districts were held to discuss relocation and compensation for affected property and graves.

In addition to investigating specific areas for relocation and compensation, stakeholder consultations and involvement helped to obtain views of different people and to determine how best resettlement and compensation can be implemented to minimize adverse impacts on the PAPs.

1.3.4 Site investigations

General site investigations were conducted throughout the project area and the following undertaken:

- affected property and agricultural fields were assessed for potential damage by the proposed project activities. Property measurements were done and recorded on appropriate forms for development of a database and subsequent calculation of compensation values. Critical social elements which include settlements, social infrastructure, cultural sites (including graveyards) and local economy to be affected were also assessed and recorded;
- houses and other structures were inspected for quality and type of building materials. Length and width measurements were taken to determine the floor area, to be used for calculation of compensation amounts;
- cultivated areas were assessed and measured for calculation of compensation values and;
- graveyards were inspected for type and material of headstones for determination of replacement values, where this may be necessary.

1.3.5 Socioeconomic Study

The socioeconomic study for preparation of this RAP was conducted using questionnaires to record personal details and property of PAPs. Information such as population size, number of households, size of gardens and property owned by the people in the affected area was recorded on assessment forms. The studies further facilitated compilation of details for the:

- valuation and compensation for losses by PAPs;
- any potential relocation measures;
- organizational responsibilities for implementation of the RAP;
- implementation schedule and modalities for the RAP;
- costs and budget and;
- monitoring and evaluation mechanisms for the RAP

1.4 Constraints and Limitations to the Preparation of the RAP

Time limitation was a major setback during data collection for this RAP. The Consultant experienced significant difficulties in receiving responses on relocation of PAPs and the affected graves, which proved to be a new experience amongst the PAPs and the Local Chiefs.

Relocation of graves created anxiety and fear among the stakeholders consulted and as such they demanded more time for them to consult and give proper responses.

In spite of the above shortcomings, PAPs and local chiefs finally responded favourably and appreciated the importance of the project, over and above the complications of relocation of PAPs and the graves.

The absence of some house owners was a set back. Eventhough the houses were marked and recorded several trips back had to be made to meet with the actual property owner

2.0 Details of the Affected Area

2.1 Project Zone of Impact

The zone of impact of the land taking activities for the proposed project is the Corridor of Impact (COI) which extends approximately 9m away from the current road width, on either side of the existing road, as directed by the Client. Assessment and measurement of affected property was done within this strip of land along the road from Lichinga to Cuamba, as shown on Map 1.1.

Within this zone of impact, in addition to infrastructures, agricultural fields, planted trees and graveyards that belong to the PAPs were assessed, counted and measured.

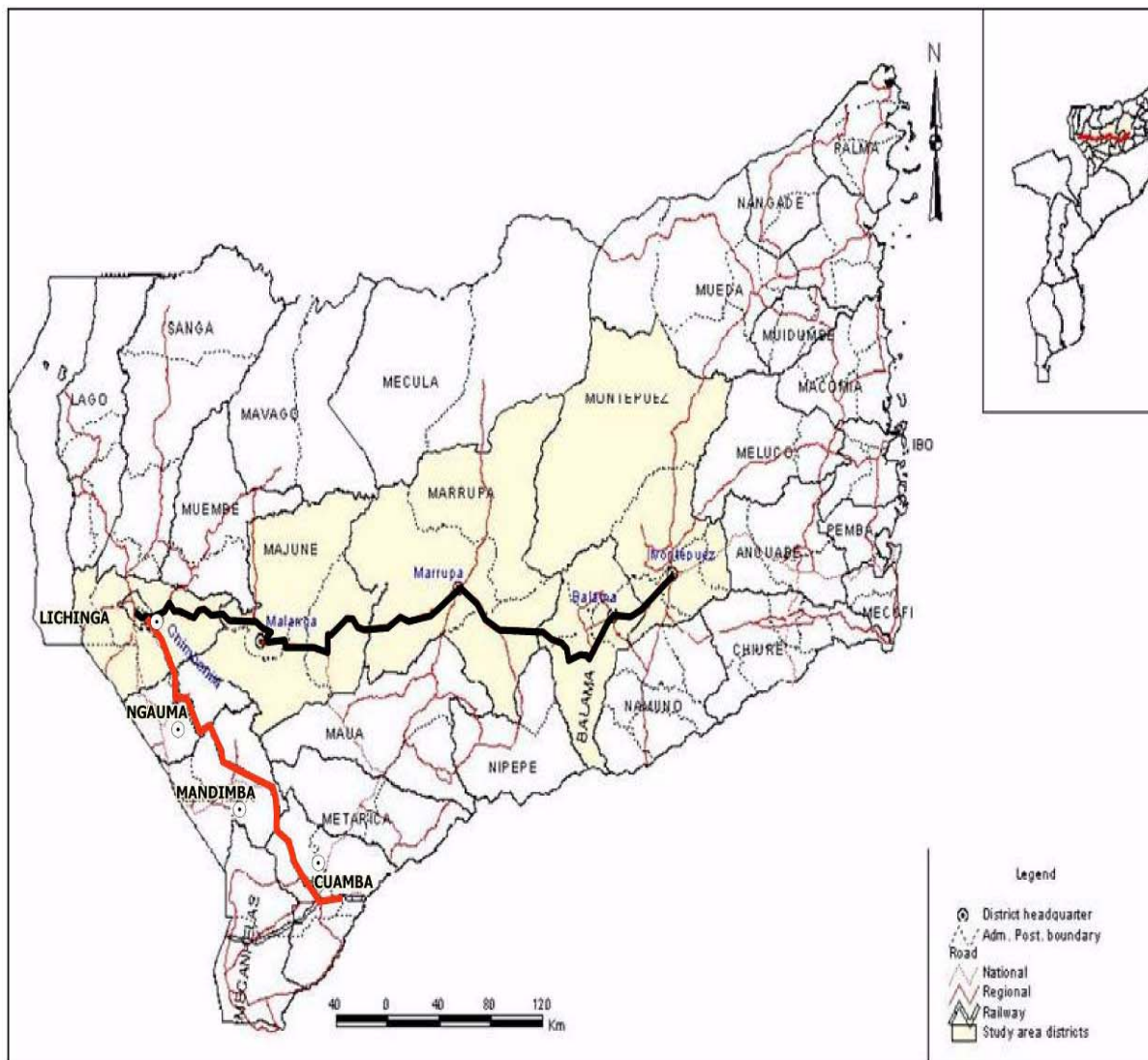


Figure1.1 Map showing the project road in red

2.2 Population

According to the 2007 census, the populations for Cuamba, Mandimba and Lichinga Districts are 184 773; 133,648 and 94,972 respectively.

2.3 Flora and Fauna

2.3.1 Flora

The proposed project area is covered by a forest of miombo type dominated by savanna grassland. The area from Cuamba to Mandimba is relatively flat while the Mandimba to Lichinga area is mountainous. Most of the vegetation in Cuamba and Mandimba Districts has disappeared due to 'slash and burn' farming practice and the remnants include fruit trees and seasonal grasslands in the swampy areas. Deforestation is on the increase in Ngauma District as a result of charcoal production.

There are no gazetted and protected forest reserves and no national parks in the project area. According to the Directorate of Niassa Province, there are no rare and endangered tree species due to development activities in the project area.

2.3.2 Fauna

There is a rich animal diversity which includes hyenas, wildcats, mongoose, lions, Nile crocodiles, Hippopotamus and African elephants in the project area. There are no habitats for rare and endangered fauna species.

2.4 Land administration and land tenure

The land for the proposed project is public land and therefore it is owned and administered by the Government of Mozambique. Project land covers all land within the Corridor of Impact as required by the Mozambican law.

2.5 Land Uses

The principle land use in the project area is agriculture. Main crops grown are maize, beans, tobacco, millet and peas. Generally most farm plots are opened by cutting trees and swidden even though this is prohibited by government. The cut trees are used for firewood and charcoal.

The area is also used for other social services such as schools and markets. Communities own houses and are engaged in agricultural activities such as growing crops including maize, beans and tobacco and rearing cattle and livestock. There are also graveyards and praying houses along the N13 road.

2.6 Sources of Livelihood and Living Standards

Most of the affected population survives fundamentally on subsistence farming and occasionally on small shops near the road. The PAPs also sell food items such as fruits, sugarcane and potatoes harvested from their gardens to earn some cash. PAPs also engage in small-scale cattle raising and poultry production.

2.7 Household Organization, Community Structures and Patterns of Social Interaction

Patterns of social interaction of the affected communities are typical of the village setting, characterized by strong inter-dependence. The people maintain their traditional identity and conform to traditional norms of social and economic inter-dependence, social networks and social support systems through inherent traditional structures. PAPs maintain strong family ties and enjoy collective effort for achieving social and economic goals for their survival.

The affected property consists of dwelling houses, shops, trees, gardens and graves. The dwelling houses, generally constructed of local materials and located wide apart, are typical of low-density rural setting, with large pieces of land available for family gardens (*machambas*) around them. Hence the PAPs have ample available land for extending their gardens and planting new trees to replace those affected.

3.0 Affected Persons and Property

3.1 Affected Persons

A total 531 houses will be affected by the road project. The affected houses will be physically displaced and will require relocation to new sites, to construct new houses outside the COI. A total of 2,639 occupants of these houses including children will be displaced. The number of houses per district and number of people to be resettled are in Table 2. The displaced people will require fair, adequate and timely compensation for their lost houses.

Table 2 Número of Houses and of Persons residents to be Resettled

District	Nmber of households	Total number of persons (as of May 25, 2011)
Chimbunila (Lichinga)	134	858
Ngauma	23	125
Mandimba	205	969
Cuamba	169	687
TOTAL	531	2,639

3.2 Vulnerable Groups

Vulnerable households of the affected population include 10 households headed by elders and 3 households with orphans as indicated in Appendices 14 and 15 respectively. These households will require special assistance in construction of houses, movement of household effects and settling down during relocation. It is therefore recommended that these people be given an additional allowance of 20%, on top of their basic compensation, to assist them. Assistance for orphans is limited to children 18 years and below.

3.3 Affected Property

Within the project zone of influence, the affected properties include buildings, gardens, yards, trees and graves and other structures. Removal and destruction of these assets will be inevitable and may result in socioeconomic hardship. The following sections provide more details of the affected properties.



3.3.1 Affected Buildings and Structures

793 buildings and other structures will be affected. These include 531 houses, 51 kitchens, 141 shops, 29 maize stores, 24 toilets, 8 sheds and 9 other structures; as presented in Table 3.

**Table 3 Summary of Affected Houses and Other Structures**

Item	Description	Quantity
1	Houses	531
2	Kitchens	51
3	Shops	141
4	Maize Stores	29
5	Toilets	24
6	Others (8 Sheds, 3 Schools, 2 Chicken coops, 1 Well, 2 Mosques and 1 Kraal)	17
Total		793

3.3.2 Affected Farm Land and Compounds

152 gardens covering an area of 33.03 hectares and 75 Yards covering an area of 52 hectares will be affected and will require replacement.



3.3.3 Affected Trees

1,850 fruit and plantation trees will be affected by the project. The types of trees include eucalyptus, pine, banana, mango etc.



3.3.4 Affected Graves

It is estimated that 40 graves will be affected by the project if the original road design maintains. This does not include the cemetery in Mandimba town that has been by-passed in the new road alignment. With regards the other cemeteries, it is strongly advised that relocation of graves must be avoided by slightly shifting the road to the other in order to avoid culturally sensitive issues.



4.0 Mechanisms to Minimize Loss of Assets and Livelihoods

4.1 Issues Raised by the PAPs and Ways to Address Them

A number of issues were raised by stakeholders and PAPs during consultations. These issues, presented in Table 4, relate to:

- when the project is likely to start;
- mechanisms to ensure that PAPs are fairly compensated;
how PAPs complaints will be addressed;
- how the affected graveyards will be relocated; and
- how compensation values will be determined.

Table 4 Key Issues Raised by PAPs

	Issues Raised	Proposed Solution	Responsible Party
1	PAPs required adequate notice before demolition of structures	In line with this RAP, PAPs' houses and structures will not be demolished before PAPs have relocated to new houses. Developer to ensure that a notice of at least three months is given to PAPs before construction works start.	ANE, District Administration, Civil Works Contractor
2	PAPs requested for fair compensation values	PAPs will be compensated based on current property replacement values and in line with provisions of this RAP. These values will be discussed and agreed with PAPs	RAP Consultant, ANE, District Administration
3	How long will the N13 Road construction works take	N13 Road construction and rehabilitation works will last for 3 years.	ANE, Local Leaders
4	What mechanisms will be put in place to ensure that the correct persons are compensated	Only those PAPs whose names and property appears in the census register and those identified and confirmed by their local leaders as legitimate owners will be compensated	ANE, District Administration, Local Leader
5	How will graves be relocated?	No mass movement of graves is envisaged. It is strongly advised that this must be avoided by shifting the road to the side without the graves. However, In case of any relocation of some graves, professional funeral management contractors will be engaged to work in line with agreed practices between the communities, project developer and the District Administrator.	ANE, Communities, District Commissioner
6	Who will decide on how much PAPs will	The District Administrator and the RAP consultant will determine the appropriate value	District Administration,

	Issues Raised	Proposed Solution	Responsible Party
	be compensated for their lost property?	for affected property and discuss the determined amounts with the PAPs. The amounts will be calculated based on current property replacement values and in line with provisions of this RAP.	RAP Consultant, PAPs
7	What will happen to the destroyed materials for the structures	All the materials recovered will belong to ANE who will determine how to dispose them. The civil works consultant will assist to determine what to destroy and what to retain ²	Civil Works Consultant, ANE
8	How will PAPs complaints be addressed	All the complaints will be presented to the local leader who will assist accordingly or refer the matter to the District Administration as necessary	Local Leader, District Administration
9	Who will be there to hear the complaints of PAPs	The elected local committee representing PAPs will take complaints to the local leader or District Administration as appropriate	Committee, Local Leader, District Administration
10	What will happen to the PAPs crops	PAPs should be allowed to harvest their crops before construction works begin. Developer to ensure that a notice of at least three months is given to PAPs before construction works start on fields.	ANE, Contractor, PAPs
11	What will be PAPs assurance that they will be compensated in time	ANE and the District Administrator are to ensure that PAPs are compensated in time. PAPs should not move before they receive compensation. No civil works should start before PAPs are compensated for lost property.	Civil Works Consultant, ANE
12	When will the project start	Tentatively the project will start in 2011.	ANE

² Through the Consultants experience of supervising civil works of similar projects, he is of the view that all salvageable materials from demolished structures should belong to ANE for proper disposal and management. Subsequently, ANE may decide whether to give them for free to the respective owners or as they see fit. This is purely done for control purposes.

4.2 General Considerations to Minimize Loss of Assets and Livelihoods

Mechanisms to minimize the impacts of land-take and relocation shall include:

- Relocating or repositioning of removed structures and people to within the existing surrounding areas, to minimize resettlement in new, remote and distant areas;
- adequately compensating all the affected persons, to ensure that their means of livelihoods are maintained or improved;
- paying compensation in time and before the affected persons' property is removed, to minimize transitional loss of income, loss of access to services and livelihood by the affected persons;
- ensuring that the affected persons' grievances are accommodated and fully addressed as quickly as possible;
- providing adequate security, to avoid looting of property that has been loosened during demolition. This can be done by mobilizing and sensitizing the community; and
- providing employment to PAPs as an alternative source of income, during project implementation.

4.3 Legal, Policy and Administrative Framework

4.3.1 National Laws, Legislation and Policies

The laws and regulations relating to the agencies responsible for implementing resettlement activities are the Land Law, the Constitution and the Urban Construction Legislation (Decree No. 2/2004):

Article 3, of the Land Law stipulates that in the Republic of Mozambique, land is the property of the State. This is also captured in Article 46 of the Constitution. Consequently, land may not be sold, alienated, mortgaged or attached (distrained). The Law states however, that although land is owned by the State, all Mozambicans have the right to use and enjoy the land or the right to land use and benefits thereto.

The Land Legislation Collection (1998) in Article 50, 51, 52, and 53; states that the household affected by a public project may be moved or transferred to another place. The process has to be carried out in consultation with the Local Leaders for administrative purposes and the resettlement will take place after compensation is paid or after a new house similar to the existing one has been constructed. It is a requirement under this legislation that the project developer looks for and maintains the same social and economic life style of the project affected persons. The legislation also states that all the expenses of resettlement have to be borne by the institution responsible for the relocation.

The new Land Law legislation No. 19/97 is the most relevant law (including customary and traditional law) governing land tenure, valuation of assets and losses, compensation, and natural resource usage rights. This collection of legislation covers regulation for the key aspects of land occupation and use in Mozambique. Also covered in the regulation are the various situations of land acquisition, including among others:

- (a) the acquisition of the right of land use and benefit by customary occupancy in good faith,
- (b) the acquisition of the right of land use and benefit through the official channels;
- (c) the rules governing protection zones;
- (d) the relationship between the public and the Cadastre Services; and
- (e) the rights and duties of the title holders

Specifically, Article 9 provides for the acquisition of the right of land use and benefit through occupancy by local communities; while Article 10 provides for the right of land use and benefit through occupancy in good faith by national individuals.

The Mozambican Land Law Legislation recognizes the rights acquired through systems of customary occupancy and the role of communities in the management of land and natural resources and conflict resolution. This is spelt out in Article 24. Article 27 provides for the requirements and modalities regarding consultation, on land matters, with the local communities. Article 30 dictates that the mechanisms for representation of and action by local communities, with regard to the rights of land use and benefit shall be established by law; while Article 23 empowers District Administrators, where there is no Municipal or Settlement Councils, to authorize applications for land use and benefit. The Land Law Legislation captures and observes internationally innovative features that facilitate equitable development, based on relations that are mutually beneficial to local communities and to investors whether these are national or foreign.

The New Land Policy, 1995 recognizes customary rights over land, including the various inheritance systems; it recognizes the role of the local community leaders in the prevention and resolution of conflicts; it aims at creating conditions for the development and growth of the local community; and the promotion of investment by the commercial sector.

4.3.2 National Administrative Framework

The Urban Construction Legislation (Decree No. 2/2004); Article on Demolition and Repositioning states that demolition may take place when there is public interest. The demolition may be on the total or part of the structure. However, before demolition or repositioning takes place, it is necessary to hear the affected persons. Under these circumstances, the household may be transferred to another new place.

In additions to what has already been stated above, the following presents the rights of the Affected Persons in this project:

The Right of Eminent Domain (Article 86 of the new constitution of Mozambique) states that individuals and entities have the right to equitable compensation for expropriated assets and the right to a new and equal plot of land.

4.3.3 International Policies and Guidelines

IFC Performance Standards on Land Acquisition and Involuntary Resettlement, April 2007 require project proponents to avoid acquisition of land in the first place and in cases where involuntary resettlement is inevitable, to ensure that it is managed properly to avoid long term hardships and impoverishment for affected persons and communities. In addition, they advocate for careful planning and implementation to mitigate adverse impacts on displaced persons and host communities. Apart from these, IFC guidelines require that:

- resettlement sites should be selected for location advantage in terms of availability of basic services and employment opportunities;
- acquisition of land should be through negotiated settlements wherever possible; and
- PAPs should be given security of tenure at the new place of resettlement.

African Development Bank Involuntary Resettlement Policy (2003) - ensures that when people must be displaced they are treated equitably, and that they share in the benefits of the project that involves their resettlement. One of the AfDB's guiding principles requires that the borrower should develop a resettlement plan where physical displacement and loss of other economic assets are unavoidable. The plan should ensure that displacement is minimized, and that the displaced persons are provided with assistance prior to, during and following their physical relocation. The aim of the relocation and resettlement plan is to improve displaced persons former living standards, income earning capacity, and production levels. The resettlement plan should be conceived and executed as part of a development program, with displaced persons provided sufficient resources and opportunities to share in the project benefits. Project planners should work to ensure that affected communities give their demonstrable acceptance to the resettlement plan and the development program, and that any necessary displacement is done in the context of negotiated settlements with affected communities.

The policy has the key objectives to:

- avoid involuntary resettlement where feasible, or minimize resettlement impacts where population displacement is unavoidable, exploring all viable project designs. Particular attention must be given to socio-cultural considerations, such as cultural

or religious significance of land, the vulnerability of the affected population, or the availability of in-kind replacement for assets, especially when they have important intangible implications;

- ensure that displaced people receive resettlement assistance, preferably under the project, so that their standards of living, income earning capacity, and production levels are improved;
- provide explicit guidance to Bank staff and to the borrowers on the conditions that need to be met regarding involuntary resettlement issues in Bank operations in order to mitigate the negative impacts of displacement and resettlement and establish sustainable economy and society; and
- set up a mechanism for monitoring the performance of involuntary resettlement programs in Bank operations and remedying problems as they arise so as to safeguard against ill-prepared and poorly implemented resettlement plans.
- In order to achieve the overall objectives of this policy, projects that involve involuntary resettlement shall be prepared and evaluated according to the following guiding principles:
 - The borrower should develop a resettlement plan where physical displacement and loss of other economic assets are unavoidable. The plan should ensure that displacement is minimized, and that the displaced persons are provided with assistance prior to, during and following their physical relocation;
 - displaced persons and host communities should be meaningfully consulted early in the planning process and encouraged to participate in the planning and implementation of the resettlement program. The displaced persons should be informed about their options and rights pertaining to resettlement. They should be given genuine choices among technically and economically feasible resettlement alternatives;
 - particular attention should be paid to the needs of disadvantaged groups among those displaced, especially those below the poverty line, the landless, the elderly, women and children, and ethnic, religious and linguistic minorities; including those without legal title to assets, female-headed households. Appropriate assistance must be provided to help these disadvantaged groups cope with the dislocation and to improve their status;
 - resettlers should be integrated socially and economically into **host communities** so that adverse impacts on host communities are minimized. Any payment due to the hosts for land or other assets provided to resettlers should be promptly rendered;
 - displaced persons should be compensated for their losses at “full replacement” cost prior to their actual move or before taking of land and related assets or commencement of project activities, whichever occurs first; and
 - the total cost of the project, as a result, should include the full cost of all resettlement activities, factoring in the loss of livelihood and earning potential

among affected peoples. This attempt to calculate the “total economic cost” should also factor the social, health, environmental and psychological impacts of the project and the displacement, which may disrupt productivity and social integration.

The JICA’s Guidelines for Environmental and Social Considerations (2002) are similar in their policy principles with ADB Policies. However, some gaps between the two policies and government laws exist, as described in table 4.2.

4.3.4 Discrepancies with international good practice requirements for resettlement and compensation

The National Land Law and the other relevant legislation cited above support fair land acquisition, compensation and resettlement procedures to be followed in the implementation of projects. The Land Law provides a fairly adequate legal basis for the protection of PAPs in the implementation of the road project activities. However, the other legislative provisions fall short of the necessary provisions to adequately support compensation and resettlement problems when land is acquired in the public interest. The environmental laws and regulations for instance, while they cover a lot on environmental management and ESIA, do not explicitly state the institution’s role on land acquisition and resettlement.

For this reason, donors find the Mozambique legislation inadequate to protect PAPs and as a result, they opt for policies which offer internationally acceptable best practices.

This Resettlement Action Plan is prepared based on all applicable legal and policy frameworks of the Government of Mozambique, IFC Performance Standards on Land Acquisition and Involuntary Resettlement (2007), JICA’s Guidelines for Environmental and Social Considerations (2002), and ADB’s SPS 2009 and AfDB Involuntary Resettlement Policy (2003).

Table 5 highlights the discrepancies between national legislation and the internationally acceptable laws and policies.

Table 5. Comparison Between National and International Policies and Legislations on Resettlement and Compensation

	Issue	Mozambican Land Law Legislation	Land Legislation Collection	The Urban Construction Legislation (Decree No. 2/2004)	The New Land Policy	IFC Performance Standards	AfDB Policy	JICA Guidelines for Environmental and Social Considerations
1	Land Acquisition	provides for the acquisition of the right of land use and benefit through occupancy by local communities	Silent	Silent	Silent	Land to be acquired through negotiated settlement		
2	Consultation with PAPS	Article 27 provides for the requirements and modalities regarding consultation, on land matters, with the local communities.	Silent	Before demolition or repositioning of affected structures takes place, it is necessary to hear the affected persons	Silent	PAPs and Host Community to be consulted	Displaced persons and host communities should be meaningfully consulted early in the planning process and encouraged to participate in the planning and implementation of the resettlement program	The procedure for Resettlement Plan preparation includes the need for holding consultations with the affected people and their communities.
3	Census of PAPS and their assets	Silent	Silent	Silent	Silent	Developer to conduct census of PAPS and their assets	Conducting census of displaced persons and resettlement planning	Though the guidelines do not specifically include provision for Census of displaced persons, the guidelines specify preparatory surveys for projects for social impacts

	Issue	Mozambican Land Law Legislation	Land Legislation Collection	The Urban Construction Legislation (Decree No. 2/2004)	The New Land Policy	IFC Performance Standards	AfDB Policy	JICA Guidelines for Environmental and Social Considerations
4	Eligibility for compensation	Silent	Silent	Silent	Silent	All PAPS to be compensated including those without legal rights to the land. People with interests in the land before establishment of cut of date will be compensated	Silent	The guideline does not specifically recognize non-titleholders or affected persons without titles or rights to land, but that all persons losing land, income, livelihood, etc should be compensated to restore these losses.
5	Payment of Compensation	Silent	Silent	Silent	Silent		Displaced persons should be compensated for their losses at "full replacement" cost prior to their actual move or before taking of land and related assets or commencement of project activities, whichever occurs first	The guidelines recommend prior compensation at full replacement cost, to be provided, as much as possible
6	Grievance Mechanism	Silent	Silent	Silent	Recognizes the role of the local	must be put in Place to settle disputes	Establish grievance redress	The guidelines provide for appropriate

	Issue	Mozambican Land Law Legislation	Land Legislation Collection	The Urban Construction Legislation (Decree No. 2/2004)	The New Land Policy	IFC Performance Standards	AfDB Policy	JICA Guidelines for Environmental and Social Considerations
					community leaders in the prevention and resolution of conflicts;		mechanism	participation by affected people, and establishment of appropriate and accessible grievance mechanisms for the affected people and their communities.
7	Consideration of PAPs	Recognizes the rights acquired through systems of customary occupancy and the role of communities in the management of land and natural resources and conflict resolution	The project developer looks for and maintains the same social and economic life style of the project affected persons	Demolition may take place when there is public interest	Recognize s customary rights over land, including the various inheritance systems	Vulnerable groups to be given special consideration	Particular attention should be paid to the needs of disadvantaged groups among those displaced, especially those below the poverty line, the landless, the elderly, women and children, and ethnic, religious and linguistic minorities; including those without legal title to assets, female-headed households.	The guidelines specify that host countries must make efforts to enable people affected by projects to improve the standard of living, income opportunities and production levels, or at least restore these to pre-project levels.
8	Resettlement	Silent	Resettleme nt will take	Silent	Silent		Land based resettlement	

	Issue	Mozambican Land Law Legislation	Land Legislation Collection	The Urban Construction Legislation (Decree No. 2/2004)	The New Land Policy	IFC Performance Standards	AfDB Policy	JICA Guidelines for Environmental and Social Considerations
			place after compensation is paid or after a new house similar to the existing one has been constructed. All the expenses of resettlement have to be borne by the institution responsible for the relocation.				strategy	
9	Security of Tenure	Silent	Silent	Silent	Silent	Silent	Silent	Silent
10	Preparation of RAPs	Silent	Silent	Silent	Silent		RAPs to be Prepared for each project. A full resettlement plan (FRP)	RAPs to be Prepared for each project. The procedure for

	Issue	Mozambican Land Law Legislation	Land Legislation Collection	The Urban Construction Legislation (Decree No. 2/2004)	The New Land Policy	IFC Performance Standards	AfDB Policy	JICA Guidelines for Environmental and Social Considerations
							to be prepared for any projects that involve 200 or more persons who would need to be displaced with a loss of assets, or access to assets or reduction in their livelihood. an abbreviated resettlement plan (ARP) should be prepared For projects in which the number of people to be displaced with a loss of assets or restriction of access to assets is less than 200	Resettlement Plan preparation includes the need for holding consultations with the affected people and their communities.

4.4 Eligibility for Compensation

The cut off date for the project set as 25th May 2011 was determined at the beginning of the census through consultative process. The local leaders and the communities at large were well informed of the cut off date and advised that after this date, any new settlements within the project impact area will not be eligible for compensation.

The people who have the farms (machambas) have legal title to the land and are recognized by the local leaders as legitimate owners of the land. This land ownership is recognized by the traditional system of land tenure as applicable to the Mozambican Law.

In addition, eligible people in the affected area include persons who have no recognizable legal right or claim to the land they are occupying, using or getting their livelihood from. This includes those who will incur losses, whether partial or total and whether they have their own land or rent land, including those that rent or occupy buildings individually or as a group for business or as households. Therefore for this project, all those that own temporary structures will be eligible for compensation for loss of property and loss of income, where appropriate.

Compensation for the lost assets (crops and other improvements made to the land) other than land and security of land tenure will have to be insured for all PAPs who will be physically and economically displaced by the road project, regardless of whether they have legal title or not to the land).

The identification of persons eligible for compensation and resettlement will be based on the following criteria:

- a) persons losing land with or without legal title,
- b) persons losing temporary or permanent access or rights to services
- c) persons losing business or residential property.
- d) person with homes, farmland, structures or other asset.
- e) vulnerable individuals who may be too old or ill to fend for themselves.
- f) persons that incur losses whether partial or total and whether they have their own land or rent land, including those that rent or occupy buildings individually or as a group for business or as households.

Table 6 provides an entitlement matrix for losses incurred by PAPs.

Table 6 Entitlement Matrix for Various Categories of PAPs

Category of PAP	ENTITLEMENTS			
	Type of Loss	Compensation for Loss of Structures	Compensation for Loss of land and other Assets	Compensation for Loss of Income/Livelihood
Property Owners (including those covered by customary law)	Loss of Land and Trees	Cash compensation at full replacement value of land and trees	Land replacement at new site, plus land clearing by the project	Cash compensation for trees at replacement cost
	Loss of Structures residential or business	Compensation at full replacement value	Backyard, wells, kraals, maize stores, WC, Sheds etc	For lost income from rented property, pay lump sum cash payment of 20% of the total annual income
Residential/Business Tenant	Loss of Premises	Compensation at full replacement cost	Replacement costs for non-movables if installation was agreed with owner	None
	Loss of Business Income	None	None	payment of lost income at 20% of annual income
Community	Public Facilities	Cash compensation at full replacement value for the structure	Land replacement at new site plus land clearing by the project	payment of lost income at 20% of annual income
		Relocation to resettlement site, with payment of site rent	Waste treatment and connection to utilities	Provision of alternative temporary facilities during construction where appropriate
	Dwelling houses	Cash compensation at full replacement value for the structure	Assistance towards opening of new gardens	20% disturbance allowance
	Graves	Cash compensation for exhumation and consolation	Land replacement at new site	None

4.5 Valuation of Assets and Compensation for Losses

4.5.1 Valuation of Physical Assets

The department of housing in the provincial directorate of the ministry of public works and housing in Lichinga, provided cost per unit area for calculating values of affected properties such as houses, Kitchens, Shops, Maize Stores, Mosques, Capoeira (chicken house), Piggery, yards, Toilets, Kraals and Sheds. The total value of each property was determined by taking into account the construction materials used, floor/surface area covered, location of building or property and the cost per unit area. Values for some physical structures which include kiosks, restaurant, schools and fences were determined from the replacement cost of building similar or better structures.

PAPs were informed in public consultations, and group meetings about the project; the method of valuation used to assess their assets, options/choices; risks and benefits and the importance of the cut off date. The cut off date was also announced on community radio in Lichinga, Mandimba and Cuamba. PAPs were also assured of adequate time to relocate before commencement of project activities.

Property owners were identified with the help of the village headman; also for record purposes and to avoid conflict, owners were present on the premises during the census and were photographed beside the painted ID on the property.



Property Owners of houses and a tobacco drying barn

4.5.2 Cost and Consolation for Relocation of Affected Graves

The cost of relocating the graves was determined from cost of simple and standard brick headstone as provided by the department of public works in Lichinga. The cost also includes compensation for exhumation, re-burying and consolation.

4.5.3 Valuation for Fruit, Plantation and Indigenous Trees

Valuation of affected fruit trees was based on a price list from the provincial directorate of agriculture (DPA) in Lichinga. Valuation of plantation and indigenous trees was done using standard rates furnished by the department of forestry in the DPA.



Owner s of Fruit Trees in the COI

4.5.4 Cost for Gardens and farmland

Cost for affected gardens and farmland was calculated considering the cost for replacement land and the labour cost for opening new gardens on virgin land. .

4.5.5 Disturbance allowance

Disturbance allowance was calculated as 20% of the total value of compensation for structures for each PAP whose houses will be demolished. This value was based on the Consultant's experience with similar work.

4.5.6 Allowance for Vulnerable Groups

Allowances for vulnerable groups (household headed by the elderly and orphans) were calculated as 20% of the total value of compensation for structures belonging to PAPs in this group whose property will be demolished. The calculated amount of compensation will be given in addition to their basic compensation, in recognition of their vulnerable status.



House Owned by an Elderly



& Orphans

4.5.7 Compensation for Loss of Income

Compensation for loss of income was calculated as 20% of the total value of annual incomes (as discussed with the shop and business owners and as verified by the consultancy team during the socioeconomic survey) to be lost during resettlement and the transition period.



Shop owners

4.6 Compensation and Relocation Measures

The majority of PAPs said that they prefer cash compensation for losses. This mode of compensation is acceptable in view of the fact that the affected properties can be replaced by using local materials (in many cases) and family and local labour in the same way the original structures were constructed. Cash compensation has been successfully implemented for a number of similar government infrastructure projects.

Affected persons, their property and graves will be relocated to new but near-by sites. Arrangements for regularizing tenure and transfer of title to land will be done by the respective local leaders who have vested authority to administer

land. ANE will monitor to make sure that PAPs receive DUATS for the site where they will be relocated if different from the owner's backyard.

All payments of compensation, relocation assistance and consolation to PAPs shall be made in the presence of the respective local leaders. Where there are no names on the compensation sheets, the code will be used to locate the property and the owners will be verified by respective local leaders.

The respective home owners will be given possession of all materials from demolished structures.

4.7 Environmental Protection and Management

PAPs whose land and property will be appropriated by the project will require relocation to clear new areas for settlement and farming activities. This will result in negative environmental impacts on soil, trees and vegetation.

The Environmental and social management plan developed by this study, will propose mitigation measures that will be implemented by the project in coordination with the property owners, ANE and other government entities. PAPs will be given guidance on proper management of their environment.

4.8 Community Participation

The new houses and structures will be constructed by the PAPs themselves. The local leaders will provide the logistical support in order to maintain the formal channel of communication and the goodwill among the community members.

5.0 Implementation Schedule

5.1 Updating Information of the Affected Persons and Assets

By the time the people are compensated, there will be need to update information on the displaced people's livelihoods and standards of living at regular intervals so that the latest information is available at the time of their relocation. To facilitate this update, records of owners of affected houses, shops, fruit trees, graves and other structures will be kept by ANE, the District Administration and the local leaders. Bimonthly meetings should be held between ANE, the District Administration, Local Leaders and representatives of the affected persons to update information on the PAPs and their affected properties. The meetings will ensure that the information about the PAPs and their property are current especially with regards to movement of PAPs and family size.

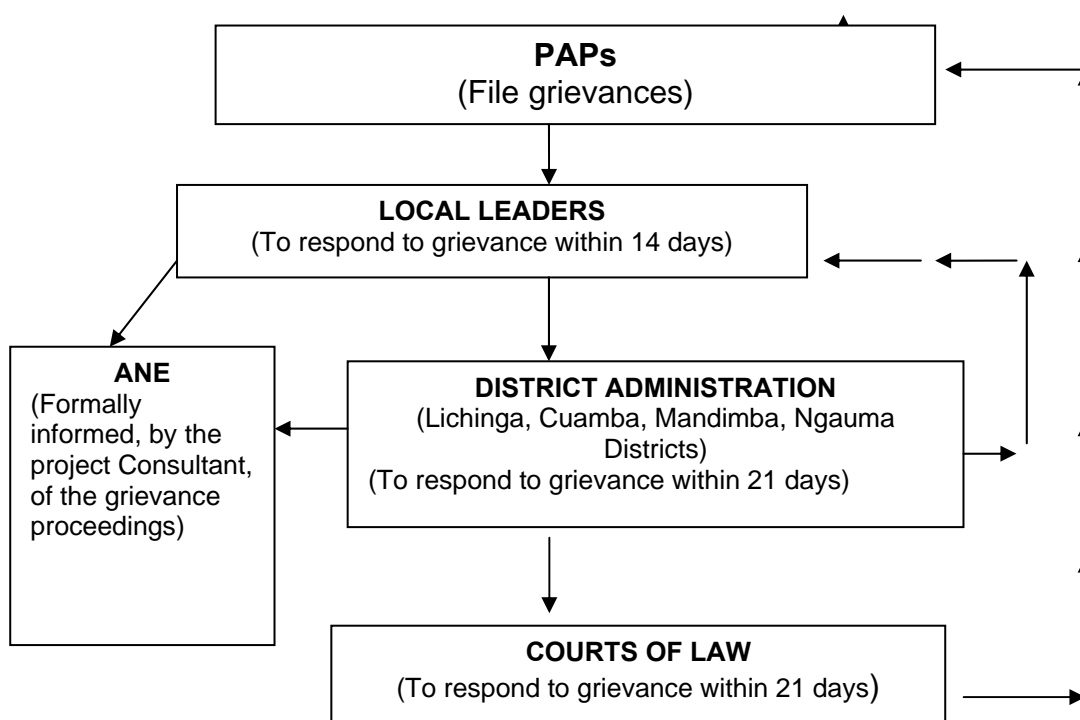
5.2 Grievance Redress Procedures

Any grievances from the PAPs or the host community should be directed to the Local Leaders who will attempt to resolve them amicably at the local level through the prevailing grievance resolution mechanisms. If the grievance cannot be resolved at that level, it will be taken to the District Administration where it is expected that resolution would be within three weeks.

Should the District Administrations be unable to settle the grievances, it will be referred to the Courts of Law which must respond within 30 days. The Court's decision will be based on the appropriate resettlement laws in the country. L

ANE will be informed by the RAP implementation committee and will monitor all stages of the process.

The following chart illustrates the steps for the grievance redress mechanism:



5.3 Institutional Responsibilities for Implementation of the RAP

The ANE will be responsible for the compensation process. In close collaboration with the district administration and local leaders, ANE will oversee the land acquisition and relocation process in close coordination with the local leaders, District Administration and the civil works contractor.

ANE will coordinate the removal of structures and planted trees in the COI, in close liaison with the PAPs, the Local Leaders, the civil works contractor and the consultant.

The District Administrations (Lichinga, Ngauma, Mandimba and Cuamba Ngauma) will be responsible for making payments to the PAPs; ensuring that the correct persons are paid. They will generate and maintain records of PAPs and the payment details.

The contractor will ensure that only the structures and trees that have been recorded as affected will be removed. Any additional structures and trees that need to be removed will have to be brought to the attention of ANE or PAPs representative for re-assessment and record purposes.

The Contractor will closely liaise with ANE to ensure that implementation of the civil works does not adversely affect PAPs. The contractor will also ensure that affected structures are not removed before the PAPs have received compensation and any necessary additional assistance in full.

Upon demolition of affected property, the civil works consultant will take inventory, recommend the salvageable materials and prepare a list with salvage values. The materials will be put at the disposal of the respective owners.

Responsibility for site management of PAPs shall be under District Administrations and PAPs will be under the civic responsibility of respective District Administrations. However, ANE will be responsible for assisting PAPs and ensuring that they are aware of their rights and obligations to the District Council. ANE's assistance, in this respect should be available to PAPs for a period of at least six months after compensation and relocation.

Responsibilities for each institution, in the implementation process are given in Table 7

Table 7 Institutional Responsibilities for Implementation of The Rap

Institution	Responsibility
GoM/ANE	<ul style="list-style-type: none"> • overall financial responsibility of the land acquisition and resettlement process; • ensure that there are adequate funds to fairly compensate the PAPs; • ensure that PAPs are well informed through the local leaders, at each stage of the process; • assist District Administration where necessary (including on matters relating to acquisition of land and title); • ensure that PAPs are aware of their rights and obligations to the Administration; • Ensure that salvageable items from the affected property are put at the disposal of respective owners.
District Administration (Lichinga, Ngauma Mandimba and Cuamba)	<ul style="list-style-type: none"> • overall responsibility and co-ordination of the land acquisition and resettlement process; • assist in assessment and valuation of affected infra structures, farms, gardens, crops, trees and graves; • make compensation payments to the PAPs; • ensure that the correct persons are paid through confirmation with the local leaders; • generation and maintenance of records of payment to PAPs; • submit copies of payment record to ANE and local leaders; • receive complaints from local leaders and assist PAPs accordingly; • submit records of PAPs' complaints to ANE.
Civil Works Consultant	<ul style="list-style-type: none"> • ensure that only structures that have been recorded as affected will be demolished; • ensuring that implementation of the civil works does not adversely affect PAPs; • ensure that property is demolished only after PAPs have received compensation and all additional assistance if applicable; • recommend the salvageable materials and prepare a list with salvage values.
Director of Resettlement in MICOA	<ul style="list-style-type: none"> • Monitor implementation of RAP
Local Leaders	<ul style="list-style-type: none"> • provide logistical support to maintain the formal channel of communication and goodwill between the community members and the respective District Council's;

Institution	Responsibility
	<ul style="list-style-type: none"> • Together with the district administration, make compensation payments to PAPs to ensure that the correct persons are paid. • receive complaints from PAPs and assist PAPs accordingly; and • submitting records of PAPs' complaints to the respective District Administration.
RAP Implementation Committee	<ul style="list-style-type: none"> • coordinate the assessment and valuation of affected structures, gardens, crops and graves on behalf of ANE; • coordinate compensation payments to PAPs and ensure that the correct persons are paid.t; • provid support in grievance redress; • implementation of the RAP.
PAPs	<ul style="list-style-type: none"> • Construction of new houses and other structures and relocating their property to new sites.

5.4 Implementation Schedule

5.4.1 Elements of the Implementation Schedule

This RAP was developed to be implemented according to the requirements of the Land Law, the Constitution and the Urban Construction Legislation (Decree No. 2/2004) and the reulamento da lei do ordonamento territorial (2007). It involved the following:

- preliminary consultation meetings with ANE, representatives of the district council and local leaders in Lichinga, Ngauma, Mandimba and Cuamba. .
- identification of project affected parties
- the census to identify PAPs and their tangible assets commenced March 17th up to 25th.; and from 17 to 25th May, 2011
- asset valuation and preparation of the RAP started immediately after the census, on March 26, 2011.

Implementation schedule will commence after comments and suggestions of the project funding institutions and the client have been addressed and incorporated in a final RAP, and after approval of the RAP by ANE. The RAP should be approved prior to signing construction contracts. Subsequently, a database for PAPs and their tangible assets will be established by ANE and compensation agreements will be signed between ANE and the PAPs. The process of the RAP from start to termination of assistance from ANE will be implemented following the Implementation Schedule in Table 8.

Table 8 Implementation Schedule for the N13 Road RAP

		2011																									
						APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC													
		MARCH													1	2	3	4	5	6	7	8	9	10	11	12	
No.	Activity																										
1	Preliminary meeting																										
2	Public Consultations (P) & Consultations with PAPs	P	P											P													
2	Census and civic education																										
3	Cut-off-date																										
4	Asset valuation and preparation of RAP																										
5	Comments and Approval of RAP																										
6	Project approval by Govt.																										
7	Establish database for PAPs																										
8	Action plan agreement with PAPs																										
9	Identification of relocation sites																										
10	Signing compensation agreements with PAPs																										
11	Payment of compensation																										
12	Update database																										
13	Provision of assistance to PAPs																										
14	Possession of land from PAPs																										
15	Termination of assistance to PAPs																										

Implementation of activities 6-15 (shaded) in the table will depend on the date of approval of the RAP by the client.

5.4.2 Benchmarks

The following critical time frames shall apply unless otherwise agreed between ANE, the local leaders, PAPs, the civil works consultant and the contractor; provided however, that no agreement to waive the timeframes shall adversely affect the rights or interests of PAPs, under this plan:

- the inventory shall be completed at most four months prior to the commencement of civil works;
- the RAP shall be submitted to ANE for approval after completion of inventory and valuation; and
- compensation and relocation activities shall only commence after ANE and the persons to be relocated have accepted the Implementation Plan.

Relocation of households and documentation/validation of land acquisition shall be completed as a condition for the taking away of land and before commencement of the civil works under the project. The implementation schedule shows that consultation with PAPs will be an on-going process after which assistance to PAPs may be terminated. The 6 months period may have to be extended on agreement between PAPs, local leaders, the contractor and ANE, to facilitate smooth relocation of the PAPs.

5.4.3 Linking Resettlement Implementation to Civil Works

PAPs will be compensated in accordance with this RAP. Provisions have to be made, for compensation and for consolation to be paid prior to relocation.

Land and related assets will be taken away only after compensation has been paid and relocation sites and disturbance allowances have been provided to PAPs.

The time schedule for details of relocation and compensation is given in Table 8. ANE, PAPs, the local leaders, the consultant and the contractor will have to agree to this schedule. The schedule includes:

5.4.3.1 Target Dates for Start and Completion of Civil Works for Relocation

The civil works for the road should start at least 6 months after the PAPs have resettled in their new homes and after they have harvested their crops.

5.4.3.2 Date for Possession of Land that PAPs are Using

This date must be after payment of all compensation and relocation assistance. No civil works for the project should be implemented on land occupied by PAPs before they have all settled in their new locations. Hence as shown in the Implementation Schedule, possession of land from PAPs must take place in October or thereafter.

PAPs must confirm that the relocation plans contain acceptable measures that link relocation activity to civil works, in compliance with this RAP. No affected persons will be

displaced (economically or physically) due to civil works activity, before compensation is paid and before relocation homes are available to the affected individual or homestead.

6.0 Monitoring and Evaluation

The arrangements for monitoring the compensation activities fit the overall monitoring programme of the entire road project, which falls under the overall responsibility of ANE. ANE will institute an administrative reporting system that:

- (a) alerts project authorities on the necessity and procedures for land acquisition for the project activities and the need to incorporate land acquisition, loss of assets and impact on livelihood provisions in the design technical specifications and budgets;
- (b) provides timely information about the compensation process;
- (c) maintains records of any grievances that require resolution;
- (d) documents timely completion of compensation obligations and payment of the agreed-upon sums for all tree losses, as well as unanticipated, additional tree loss and;
- (e) updates the database with respect to changes that occur on the ground as compensation activities are being implemented.

One month after completion of compensation, site inspections and evaluations of both the Road N13 Cuamba-Mandimba-Lichinga project areas will be made in order to determine whether all the PAPs have been compensated in full and before implementation of project activities.

The office of the District Administration should host the M&E activities and should be mandated to carry out internal monitoring of the implementation of the compensation plans at quarterly intervals during the first year after land acquisition. The monitoring and evaluation reports should then be sent to ANE to be part of the official documents for the Road. Any deviation from the planned land acquisition programme should be brought to the attention of ANE.

Internal monitoring of the compensation activities should be done in collaboration with the ministry responsible for Lands and MICOA.

Participation of NGO's in independent monitoring activities should be done in collaboration with MICOA and the ministries of Agriculture and Public Works and Housing, depending on their requirements. ANE would have to approve

the participation of NGO's, which would be funded by the NGO's themselves, using their own resources; unless under special funding and participation arrangements to be approved by ANE.

An external monitoring and evaluation agency will be commissioned, through the standard bidding process, for carrying out an end of term evaluation of the compensation and resettlement activities. This agency will be independent of the project.

The external monitoring and evaluation shall be based on a recognised sampling method to select the items of the performance indicators to be monitored, PAPs and vulnerable groups within the project area. The agency will be expected to present a comparative analysis with reference to pre-project and post- project status of the socioeconomic conditions of the PAPs, vulnerable groups and host communities. ANE will initiate corrective action, where necessary, based on the recommendations of the agency.

The guidelines in Table 9 will be used to monitor impacts of compensation and relocation. The monitoring indicators are designed to quantitatively measure the physical and socio-economic status of the PAPs and to determine and guide improvement in their social wellbeing. Monitoring costs indicated in the table are good for one year.

Table 9 Monitoring Indicators

No.	Activity for Monitoring	Monitoring Indicator	Means of Verification	Frequency of Monitoring	Responsible for Monitoring	Monitoring Costs (US\$)
Financial Progress						
1	Signing of individual compensation contracts	Number of signed individual compensation contracts as a percentage of total compensation contracts (%)	Inspection of contract records	Monthly	ANE	2000
2	Payment of compensation for physical structures	Amount of money disbursed to PAPs for compensation of physical structures	Inspection of payment records	Monthly	ANE	4000
3	Payment of compensation for affected trees	Amount disbursed to PAPs for tree compensation	Inspection of records	Monthly	ANE	Included in 3 above
4	Payment for new tree seedlings	Amount disbursed to PAPs for new tree seedlings	Inspection of records	Monthly	ANE	Included in 3 above
Physical Progress						
1	Allocating land for relocation	Size of land allocated to PAPs as a percentage of total land required	Site inspection and measurement	Monthly	CSC	4000
2	Acquiring land from PAPs	Size of land acquired from each PAP	Head count and inspection of records	Monthly	CSC Local leaders	2000
3	Demolition of structures	Number of structures demolished	Records and physical inspection	Monthly	CSC Local leaders	2000

No.	Activity for Monitoring	Monitoring Indicator	Means of Verification	Frequency of Monitoring	Responsible for Monitoring	Monitoring Costs (US\$)
4	Allocating farming plots to EPs	o Number of farming plots allotted to EPs	Head count and verification of records	Monthly	CSC Local leaders	Included in 1 above
		o Total area of farm land allotted to EPs as percentage of total land required	Measurement and site verification			
5	Allocating residential plots to EPs	Number of residential plots allotted to EPs	Head count and verification of records	Monthly	CSC Local leaders	Included in 1 above
		Total land area of residential plots allotted to EPs as percentage of total land required	Measurement and site verification			
6	Distribution of tree seedlings to EPs	Number tree seedlings distributed to EPs	Head count and inspection of records	Monthly	Local leaders	3500
7	Growth and survival of allocated tree seedlings	Percent of tree seedlings surviving	Physical count and verification	Monthly	Local leaders	5000

No.	Activity Monitoring for	Monitoring Indicator	Means of Verification	Frequency of Monitoring	Responsible for Monitoring	Monitoring Costs (US\$)
Social Development						
1	Re-establishment of pre-displacement activities	Number of individuals and families able to re-establish their pre-displacement activities and condition Social economic wellbeing and occupational pattern of PAPs Access to social services such as water, health, schools	Meetings and interviews with PAPs	Monthly	ANE, The District Administration	4000
2	Empowerment of women EPs	Percentage of women EPs able to make independent decisions	Meetings and random interviews	Monthly	ANE, Administration	4000

No.	Activity Monitoring for	Monitoring Indicator	Means of Verification	Frequency of Monitoring	Responsible for Monitoring	Monitoring Costs (US\$)
Participation of Stakeholders						
1	Conducting meetings for compensation & relocation	Number of compensation and relocation meetings for conducted	Minutes of meetings	Monthly	District Administration	4000
2	Addressing grievances on compensation and relocation	<ul style="list-style-type: none"> Record of grievances Record of meetings for addressing grievances Grievance redress mechanisms in place 	Inspection of records	Monthly	ANE	4000
3	Selection of relocation sites	Sites selected and number of PAPs participating in selection of relocation sites	Meetings and interview with PAPs and physical inspections	Monthly	ANE	3500
4	Relocation of PAPs	Percent of PAPs relocated	Head count and physical inspection	Monthly	ANE	5000

No.	Activity for Monitoring	Monitoring Indicator	Means of Verification	Frequency of Monitoring	Responsible for Monitoring	Monitoring Costs (US\$)
5	Involvement of women in selection of relocation sites	Number of women EPs attending relocation meetings	Inspection of minutes of meetings	Monthly	ANE	included in 3 above
6	Employment of PAPs by the project	Total number of PAPs employed on the project	Head count and inspection of employment records	Monthly (During N13 construction and operation)	District Administration	1000
7	Employment of women EPs	Number of women EPs employed on the project				
Total						44, 500,00

7.0 Cost for the Rap

Funds for implementing property assessments as well as land acquisition and the RAP will be provided by the Government of Mozambique. In general, the cost burden of compensation will be borne by the executing agency, the Government of Mozambique.

Funding will be processed and effected through the project's financial processing arrangements.

7.1 Cost Summary

The total estimated cost of relocation and compensation is US\$1,254,863.70. This includes US\$802,811.80 for buildings and structures; US\$16,938.69 for assistance for opening new gardens; US\$58,172.87 for trees to be lost, US\$22,622.70 for exhuming and repositioning graves; US\$188,571.43 to be paid for loss of income to those owning shops; US\$11,213.15 as allowances for vulnerable groups and a 10% (US\$110,033.) of the total amount of compensation to be paid as contingency for eventualities.

7.2 Compensation for the affected buildings and structures

A total of 793 buildings (531 dwelling houses) 51 Kitchens, 141 Shops, 29 Maize Stores, 24 toilets and 17 other structures will be affected. The total value of the affected houses and other structures is US\$ 802,811.80.

The values for houses and other structures were determined by multiplying the predetermined cost per square metre for each building or structure (which varied depending on whether the building/structure is made of burnt bricks and corrugated iron sheets; or made of mud and thatched); by the area of each affected building or structure.

The value for affected houses also includes an additional 20% disturbance allowance. Detailed cost for each affected building and structure are presented Appendix 1.1 to

7.3 Assistance towards opening of new gardens

To open up new gardens in virgin areas (to replace the affected gardens), PAPs will require approximately 33.03 hectares of replacement farm land. Since this will be untitled virgin land with natural vegetative cover, PAPs will require assistance with labour to open up the new gardens. It is estimated that US\$16,938.69 will be required for this assistance and details of sizes of replacement land and the amount of assistance required are presented in Appendix 1.2

7.4 Costs for exhumation and consolation for affected graves

The 40 graves to be relocated are estimated to cost a total of US\$22,622.70, based on information obtained from private funeral services providers, as indicated in Appendix 10.12. The higher of the two values have been used in the determination of compensation. The total includes a consolation amount to be paid to each household

per exhumed grave. It also includes the estimated cost of headstone made of a simple brick plastered wall.

7.5 Disturbance allowance

20% of the total value of compensation for houses amounting to US\$88,778.21 has been included as disturbance allowance for PAPs whose houses will be demolished (Appendix 1). The total estimated cost elements for the RAP are, summarised below in Table 10

7.6 Allowance for Vulnerable Groups

20% of the total value of compensation for structures amounting to US\$ 11,213.15 has been included as allowance for the vulnerable groups whose structures will be demolished. These vulnerable groups include orphans and the elderly

7.7 Compensation for Loss of Income

20% of the total value of annual income amounting to US\$188,571.43 has been included as allowance given to shop owners for loss of annual income that will be incurred during resettlement and the transition period.

Table 10 Summary of the Estimated Costs for the RAP

Affected Asset	Number of items	Cost
Houses	531	532,669.25
Kitchens	51	1,108.85
Shops	141	214,372.33
Maize stores	29	430.50
Toilets	24	466.22
Mosque	2	3,385.32
Chicken coop	2	27.58
Well	1	225.00
Yard	75	47,858.95
Kraals	1	30.56
Sheds and Other Structures	11	2,237.24
Trees	1850	58,172.87
Graves	40	22,622.70
Assistance for New Gardens		16,938.69
Allowances for Vulnerable groups (HHE&HHO)		11,213.15
Annual Incomes		188,571.43
Subtotal		1,100,330.64
Contingency (10%)		110,033.06
Total		1,210,363.70
Monitoring Cost		44, 500.00
GRAND TOTAL		1,254,863.70

8.0 Conclusion

Niassa province has inherent development potential in agriculture, forestry, mining and tourism. Lichinga, Ngauma, Mandimba and Cuamba and surrounding areas located in Niassa province need improved road network to respond to the accelerating national as well as the regional economy economic growth. This is well understood by stakeholders in all the four beneficiary districts.

ANE contracted AGEMA Consultoria & Services Ltd., to conduct the environmental and social impact assessment for the N13 road project, including upgrading of the road section to the outpost on the border with Malawi.

The project area is within large undeveloped land with scattered settlements and low population density. The existing road alignment passes through many small villages.

Construction of the road will affect infrastructures such as houses, kitchens, toilets, tobacco barns, kraals, shops and graveyards. This will entail relocation of people, tangible property and structures to replace the demolished ones. The new structures will be built in the surrounding areas which were deemed better alternative sites to avoid or minimize relocation of people and property.

This Resettlement Action Plan (RAP) is prepared to ensure that rehabilitation of the road on the built up areas will have minimum impacts on the PAPs, their structures and livelihood. Hence some of the mechanisms to minimize adverse impacts of displacement and relocation must include:

- relocation or repositioning of affected structures to within the surrounding areas;
- paying fair compensation in time and before PAPs property is removed;
- maintaining or improving PAPs means of livelihoods;
- ensuring that PAPs grievances, in relation to the project, are accommodated and addressed promptly; and
- providing employment to PAPs, as an alternative source of income, where appropriate.

Preparation of this RAP was done simultaneously as a component of the environmental and social impact assessment that was conducted in the project area. Stakeholders involved in the census for preparation of this RAP included, the District Council, Local leaders, the PAPs and ANE. Several meetings were conducted in the four districts to

appreciate the extent of displacement of people and implications of relocating the graves. At these meetings the risks and benefits of the road and the RAP were explained and the cut off date for property registration was explained and repeated many times.

The socioeconomic studies revealed that the total number of affected households currently within the affected area is 531 comprising of 134 from Chimbunila/Lichinga, 23 from Ngauma, 205 from Mandimba, 169 from Cuamba.

Approximately 793 buildings and structures will be affected. These include dwelling houses, kitchens, shops, toilets, mosques, maize stores, Chicken coop, a well, and kraals. Other affected properties include 1,850 fruit and plantation trees, 33.03 hectares of gardens and 3 graveyards (40 graves will also be affected). The affected graves are scattered within the N13 Road COI and therefore there will be no mass movement of graves. It is strongly advised that graveyard relocation must be avoided by shifting the road to the other side. However, in case of any relocation, shifting of the affected graves must be done in consultation and close collaboration with local authorities.

According to PAPs preferences expressed during the census, cash compensation, for relocation of affected structures to areas within the existing locations will be the best option.

Cost of affected buildings and other physical structures was determined from the replacement cost for similar or better structures. For all of the affected structures, the new site for construction of replacement structures will be within the area surrounding the project site.

Eligible persons will be compensated for loss of property, in line with the consultations with PAPs and this RAP. Compensation for losses will be in cash as presented in the compensation schedules in Chapter 7.

9.0 Recommendations

For effective implementation of this RAP it is recommended that the following should be adhered to:

- PAPs must be compensated, in accordance with this Resettlement Action Plan.
- The civil works contractor will have to ensure that no property is demolished before the PAPs have received compensation and any necessary additional assistance to settle into normal life.
- It is important to ensure that there is adequate public consultations with PAPs throughout implementation of the RAP to minimize grievances
- Grievances from the PAPs should be directed to the local leaders or the District Councils who will attempt to resolve them amicably at the local level. All grievances will have to be brought to the attention of ANE for their information and record.
- The civil works contractor will liaise with the DA, PAPs and the local leaders in all the four districts to ensure that implementation of civil works for the RAP does not adversely affect PAPs.
- PAPs must be informed of the valuation process used to assess their assets.
- PAPs must confirm that the resettlement plans contain acceptable measures that link resettlement activity to civil works, in compliance with this RAP.
- All payments of compensation and assistance shall be made in the presence of the PAPs in question and the local leaders.

Monitoring for land acquisition, relocation and compensation activities should fit the overall monitoring programme of the entire N13 Road Improvement Project, which falls under the overall responsibility of ANE.

APPENDICES

Appendix 1 Affected Houses

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m ²)	Rate (USD)	Cost (USD)	Disturbance Allowance 0.20	TOTAL (USD)	
LUMBI (ISSA) VILLAGE : LICHINGA DISTRICT											
1	D1E	Massala Ali	Mud, thatched	6.0	4.4	26.4	20.00	528.00	105.60	633.60	
2	D2E	Sipaguedje Amini	Mud, thatched	7.0	5.4	37.8	20.00	756.00	151.20	907.20	
			Mud, thatched	6.5	4.5	29.3	20.00	585.00	117.00	702.00	
3	D3E	Amini Selemene	Mud, thatched	6.4	5.4	34.6	20.00	691.20	138.24	829.44	
4	D4E	White Assane	Brick, corrugated	8.0	6.0	48.0	53.00	2544.00	508.80	3,052.80	
5	D5E	Ndala Omar	Mud, thatched	8.0	6.0	48.0	20.00	960.00	192.00	1,152.00	
			Mud, thatched	4.0	6.0	24.0	20.00	480.00	96.00	576.00	
6	D6E	Omar Diquissone	Mud, thatched	7.0	5.0	35.0	20.00	700.00	140.00	840.00	
7	D8E	Inácia Diquissone	Mud, thatched	7.0	5.0	35.0	20.00	700.00	140.00	840.00	
8	D9E	Tuaibo Cazembe	Mud, thatched	7.5	4.8	36.0	20.00	720.00	144.00	864.00	
9	D10E	Djanate Silale	Mud, thatched	6.0	5.0	30.0	20.00	600.00	120.00	720.00	
10	D11E	Amadu Auve	Mud, thatched	4.0	3.5	14.0	20.00	280.00	56.00	336.00	
11	D12E	João Caisse	Mud, thatched	7.0	4.0	28.0	20.00	560.00	112.00	672.00	
12	D13E	Helena Leman	Mud, thatched	5.0	4.0	20.0	20.00	400.00	80.00	480.00	
13	D14E	Issufo Ausse	Mud, thatched	6.6	4.7	31.0	20.00	620.40	124.08	744.48	
14	D15E		Mud, thatched	9.0	6.0	54.0	20.00	1080.00	216.00	1,296.00	
			Mud, thatched	6.0	5.5	33.0	20.00	660.00	132.00	792.00	
			Mud, thatched	5.2	3.7	19.2	20.00	384.80	76.96	461.76	
15	D16E		Mud, thatched	5.0	5.0	25.0	20.00	500.00	100.00	600.00	
16	D17E		Mud, thatched	6.0	5.0	30.0	20.00	600.00	120.00	720.00	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
17	D18E	Ângela Jawadu	Mud, thatched	7.0	6.0	42.0	20.00	840.00	168.00	1,008.00	
			Mud, thatched	5.1	5.1	26.0	20.00	520.20	104.04	624.24	
			Mud, thatched	5.0	4.0	20.0	20.00	400.00	80.00	480.00	
18	D19E		Mud, thatched	6.0	4.7	28.2	20.00	564.00	112.80	676.80	
			Mud, thatched	5.7	8.5	48.5	20.00	969.00	193.80	1,162.80	
			Mud, thatched	9.8	7.5	73.5	20.00	1470.00	294.00	1,764.00	
19	D20E	Apiti Mustafa	Mud, thatched	7.0	5.0	35.0	20.00	700.00	140.00	840.00	
20	D21E	Adjangala Amane	Mud, thatched	5.2	4.5	23.4	20.00	468.00	93.60	561.60	
			Mud, thatched	5.7	4.8	27.4	20.00	547.20	109.44	656.64	
			Mud, thatched	6.9	4.0	27.6	20.00	552.00	110.40	662.40	
			Mud, thatched	7.6	3.4	25.8	20.00	516.80	103.36	620.16	
21	D22E	Momade Issufo	Mud, thatched	4.2	2.0	8.4	20.00	168.00	33.60	201.60	
22	D23E	Domingos Machava	Mud, thatched	9.6	4.4	42.2	20.00	844.80	168.96	1,013.76	
			Mud, thatched	7.8	7.7	60.1	20.00	1201.20	240.24	1,441.44	
23	D24E		Mud, thatched	6.4	5.9	37.8	20.00	755.20	151.04	906.24	
24	D25E		Mud, thatched	7.2	6.4	46.1	20.00	921.60	184.32	1,105.92	
			Mud, thatched	6.0	5.0	30.0	20.00	600.00	120.00	720.00	
25	D26E	Afati Mussa	Mud, thatched	4.0	4.0	16.0	20.00	320.00	64.00	384.00	
			Mud, thatched	7.0	7.0	49.0	20.00	980.00	196.00	1,176.00	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
			Mud, thatched	6.0	5.0	30.0	20.00	600.00	120.00	720.00	
						1,335.2		28,287.40	5,657.48	33,944.88	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT											
26	H0001D		Mud, thatched	42.0	42.0	1,764.0	20.00	35280.00	7056.00	42,336.00	
27	H0002D	Chand Cassimo	Mud, thatched	4.2	4.1	17.5	20.00	350.24	70.05	420.29	
			Mud, thatched	3.4	3.0	10.3	20.00	206.40	41.28	247.68	
28	H0003D	Jemusse Aissi	Mud, thatched	4.4	3.2	14.3	20.00	285.29	57.06	342.35	
29	H0004D	Amissi Cassimo	Mud, thatched	4.4	3.8	16.6	20.00	331.01	66.20	397.21	
30	H0005D	Taimo Cassimo	Mud, thatched	3.7	3.1	11.6	20.00	231.26	46.25	277.51	
31	H0006D		Mud, thatched	4.7	3.4	16.0	20.00	320.96	64.19	385.15	
32	H0007D		Mud, thatched	3.3	3.9	13.0	20.00	260.52	52.10	312.62	
33	H00017D		Mud, thatched	4.3	3.0	12.9	20.00	258.00	51.60	309.60	
34	H00018D	Adia Janadi	Mud, thatched	4.2	3.1	13.0	20.00	260.40	52.08	312.48	
35	H00019D	Ana Cassimo	Mud, thatched	4.7	3.6	16.9	20.00	338.40	67.68	406.08	
36	H00020D	Edna Aide	Mud, thatched	3.6	4.7	16.9	20.00	338.40	67.68	406.08	
37	H00021D	Falelo Cabichi	Mud, thatched	5.8	4.9	28.5	20.00	570.72	114.14	684.86	
38	H0008E		Mud, thatched	3.3	2.8	9.0	20.00	180.95	36.19	217.14	
39	H0009E		Mud, thatched	4.3	3.2	13.8	20.00	276.48	55.30	331.78	
40	H00010E		Mud, thatched	3.5	3.8	13.2	20.00	264.00	52.80	316.80	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
41	H00011E		Mud, thatched	4.7	3.9	18.2	20.00	364.56	72.91	437.47	
42	H00012E	Fátima Saide	Mud, thatched	4.0	3.0	12.0	20.00	240.00	48.00	288.00	
43	H00013E	Alaina Amimo	Mud, thatched	3.9	3.8	14.9	20.00	298.68	59.74	358.42	
44	H00014E	Gloria Domingos	Mud, thatched	3.7	2.9	10.8	20.00	216.34	43.27	259.61	
45	H00015E	Mariamo Jemussi	Brick, corrugated	5.9	6.7	39.7	53.00	2104.47	420.89	2,525.37	
46	H00016E	Lúcia Abudo	Mud, thatched	5.4	4.2	22.7	20.00	453.60	90.72	544.32	
			Mud, thatched	3.0	4.2	12.3	20.00	246.86	49.37	296.24	
			Mud, thatched	3.4	3.5	11.8	20.00	235.28	47.06	282.34	
47	H00022E	Saujat Issufo	Mud, thatched	3.8	3.0	11.4	20.00	228.00	45.60	273.60	
48	H00023E	Saina Amado	Mud, thatched	4.0	4.0	16.0	20.00	320.00	64.00	384.00	
49	H00024E	Fatima Amini	Mud, thatched	2.8	4.6	12.9	20.00	257.60	51.52	309.12	
50	H00025E	Jamia Mbuana	Mud, thatched	5.9	4.2	24.8	20.00	495.60	99.12	594.72	
51	H00026E	Laita Rachidi	Mud, thatched	4.3	4.5	19.4	20.00	387.00	77.40	464.40	
			Dependencia, mud, thatched	5.6	2.1	11.8	20.00	235.20	47.04	282.24	
52	H00027E	Saujat Filale	Mud, thatched	4.3	4.5	19.4	20.00	387.00	77.40	464.40	
53	H00028E		Mud, thatched	4.3	3.0	12.8	20.00	255.60	51.12	306.72	
54	H00029E		Brick, corrugated	7.0	5.7	39.9	53.00	2114.70	422.94	2,537.64	
55	H00030E	Amussa Mustafa	Mud, thatched	3.8	3.0	11.4	20.00	228.00	45.60	273.60	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
56	H00031E	Ermelinda	Mud, thatched	5.5	3.1	17.1	20.00	341.00	68.20	409.20	
			Dependência, mud, thatched	4.0	3.2	12.8	20.00	256.00	51.20	307.20	
57	H00032E	Amado Caissi	Brick, corrugated	7.9	6.4	50.6	53.00	2679.68	535.94	3,215.62	
			Mud, thatched	3.0	3.0	9.0	20.00	180.00	36.00	216.00	
58	H00033E	Mustafa Amado	Brick, corrugated	7.2	8.3	59.8	53.00	3167.28	633.46	3,800.74	
59	H00034E		Brick, corrugated	7.2	6.4	46.1	53.00	2442.24	488.45	2,930.69	
			Dependência, mud, thatched	7.7	3.5	27.0	20.00	539.00	107.80	646.80	
60	H00035E	Sabiti Saisse	Brick, corrugated	3.4	4.8	16.3	53.00	864.96	172.99	1,037.95	
			Brick, corrugated	4.7	3.5	16.5	53.00	871.85	174.37	1,046.22	
			Brick, corrugated	5.7	3.0	17.1	53.00	906.30	181.26	1,087.56	
61	H00037E	Anafe Cilale	Brick, corrugated	3.8	3.8	14.4	53.00	765.32	153.06	918.38	
62	H0038D	Mariato Cazembe	Mud, thatched	4.7	3.8	17.9	20.00	357.20	71.44	428.64	
63	H0039D	Lameque	Mud, thatched	4.5	3.4	15.2	20.00	303.28	60.66	363.94	
			Dependencia, mud, thatched	4.2	4.0	16.8	20.00	336.00	67.20	403.20	
64	H0040D	Aua Caissi	Mud, thatched	4.4	3.8	16.7	20.00	334.40	66.88	401.28	
65	H0041D	Roni Caissi	Mud, thatched	4.1	3.6	14.8	20.00	295.20	59.04	354.24	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
			Dependencia, mud, thatched	4.0	4.0	16.0	20.00	320.00	64.00	384.00	
66	H0042D		Mud, thatched	4.0	3.0	12.0	20.00	240.00	48.00	288.00	
67	H0043D		Mud, thatched	3.0	2.5	7.5	20.00	150.00	30.00	180.00	
68	H0044D		Mud, thatched	4.8	3.9	18.7	20.00	374.40	74.88	449.28	
69	H0045D		Mud, thatched	5.8	4.0	23.2	20.00	464.00	92.80	556.80	
70	H0046D	Zacarias Saide	Mud, thatched	5.0	3.7	18.5	20.00	370.00	74.00	444.00	
			Dependencia, mud, thatched	4.0	4.0	16.0	20.00	320.00	64.00	384.00	
71	H0047D	Jafar Mustafa	Mud, thatched	3.6	4.0	14.4	20.00	288.00	57.60	345.60	
			Dependencia	3.4	2.7	9.2	20.00	183.60	36.72	220.32	
72	H0048E	Issa	Mud, thatched	3.4	3.4	11.5	20.00	230.52	46.10	276.62	
73	H0049E	Carlos Aly	Mud, thatched	3.2	3.8	12.2	20.00	243.20	48.64	291.84	
74	H0051E	Amelia Rachidi	Mud, thatched	4.6	3.4	15.6	20.00	312.80	62.56	375.36	
			Dependencia,mud, thatched	3.7	4.0	14.8	20.00	296.00	59.20	355.20	
75	H52E	Joaquina Antun	Mud, thatched	5.1	4.7	24.0	20.00	479.40	95.88	575.28	
76	H53E		Mud, thatched	2.9	4.0	11.6	20.00	232.00	46.40	278.40	
77	H54E	Mateus Mustafa	Mud, thatched	4.2	3.3	13.9	20.00	277.20	55.44	332.64	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
78	H55E	Aly Assido	Mud, thatched	4.9	4.0	19.6	20.00	392.00	78.40	470.40	
			Dependencia, mud, thatched	6.1	4.0	24.4	20.00	488.00	97.60	585.60	
79	H56E	Adija Amado	Mud, thatched	3.4	3.8	12.8	20.00	255.00	51.00	306.00	
80	H57E	Ussene	Mud, thatched	4.1	2.7	11.1	20.00	221.40	44.28	265.68	
			Dependencia, mud, thatched	5.2	3.0	15.5	20.00	309.00	61.80	370.80	
81	H58E	Mariamo Tuaibo	Brick, corrugated	6.8	7.4	50.3	53.00	2666.96	533.39	3,200.35	
82	H59E	Jafar Amassi	Brick, corrugated	6.0	6.9	41.4	53.00	2194.20	438.84	2,633.04	
83	H60E	Boma	Brick, corrugated	3.4	5.4	18.4	53.00	973.08	194.62	1,167.70	
			Dependencia, mud, thatched	5.5	3.4	18.7	20.00	374.00	74.80	448.80	
84	H61E	Rongela	Mud, thatched	3.9	4.4	17.2	20.00	343.20	68.64	411.84	
			Dependencia, mud, thatched	4.4	3.7	16.3	20.00	325.60	65.12	390.72	
85	H62E		Mud, thatched	4.3	5.1	22.0	20.00	440.32	88.06	528.38	
			Mud, thatched	6.1	3.3	19.9	20.00	397.80	79.56	477.36	
86	H63E	Alija Jandi	Mud, thatched	7.3	6.6	48.2	20.00	963.60	192.72	1,156.32	
			Mud, thatched	7.7	6.8	52.2	20.00	1043.12	208.62	1,251.74	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
87	H65E	Abudo Jafare	Mud, thatched	5.9	4.9	28.9	20.00	578.20	115.64	693.84	
			Dependencia, mud, thatched	6.2	4.0	24.8	20.00	496.00	99.20	595.20	
88	H66E	Amade Muamed	Mud, thatched	3.2	1.9	6.1	20.00	121.60	24.32	145.92	
			Mud, thatched	3.0	3.0	9.0	20.00	180.00	36.00	216.00	
			Mud, thatched	3.2	4.0	12.8	20.00	256.00	51.20	307.20	
89	H67E	Jaime	Mud, thatched	4.6	3.7	17.0	20.00	340.40	68.08	408.48	
			Dependencia, mud, thatched	4.0	2.5	10.0	20.00	200.00	40.00	240.00	
90	H68E		Brick, corrugated	5.8	6.6	38.0	53.00	2013.47	402.69	2,416.16	
			Dependencia, mud, thatched	4.0	2.5	10.0	20.00	200.00	40.00	240.00	
91	H00069E	Omar lassido	Brick, corrugated	7.0	7.0	49.0	20.00	980.00	196.00	1,176.00	
92	H00070E		Mud, thatched	5.0	4.0	20.0	20.00	400.00	80.00	480.00	
			Mud, thatched	3.0	3.0	9.0	20.00	180.00	36.00	216.00	
93	H00071E		Mud, thatched	7.0	4.0	28.0	20.00	560.00	112.00	672.00	
			Mud, thatched	4.0	3.0	12.0	20.00	240.00	48.00	288.00	
94	H73E	Adilo Gemussi	Brick, corrugated	9.0	6.0	54.0	53.00	2862.00	572.40	3,434.40	
95	H73D	Buanar	Mud, thatched	4.0	3.3	12.8	20.00	256.75	51.35	308.10	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
			Dependencia	7.0	2.9	20.2	20.00	403.10	80.62	483.72	
96	H74D	Amisssi	Mud, thatched	4.5	2.8	12.6	20.00	252.00	50.40	302.40	
			Dependencia, mud, thatched	3.1	8.0	25.0	20.00	499.20	99.84	599.04	
97	H75D	Laitone Buana	Mud, thatched	6.4	5.3	33.7	20.00	673.10	134.62	807.72	
			Dependencia	4.2	6.3	26.3	20.00	525.84	105.17	631.01	
98	H76D	Cassimo	Mud, thatched	4.1	3.4	13.9	20.00	278.80	55.76	334.56	
99	H77D	Brandao	Mud, thatched	3.0	3.7	11.1	20.00	222.00	44.40	266.40	
			Dependencia, mud, thatched	2.8	3.0	8.4	20.00	168.00	33.60	201.60	
100	H78D	Rapolo	Mud, thatched	5.4	4.3	23.2	20.00	464.40	92.88	557.28	
101	H81D	Maguiguane	Mud, thatched	3.0	1.9	5.7	20.00	114.00	22.80	136.80	
			Dependencia, mud, thatched	5.0	3.0	15.0	20.00	300.00	60.00	360.00	
102	H87D	Salimo	Mud, thatched	5.8	4.7	27.3	20.00	545.20	109.04	654.24	
103	H88E	Cassimo Rachidi	Mud, thatched	8.2	4.9	39.6	20.00	792.18	158.44	950.62	
104	H89E	Mustafa Assumane	Mud, thatched	4.0	4.5	17.8	20.00	356.00	71.20	427.20	
			Brick, corrugated	5.8	5.5	31.9	53.00	1690.70	338.14	2,028.84	
105	H90D	Malawi	Brick, corrugated	8.0	3.3	26.4	53.00	1399.20	279.84	1,679.04	
			Mud, thatched	6.0	3.4	20.4	20.00	408.00	81.60	489.60	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
106	H91D		Mud, thatched	3.2	4.9	15.7	20.00	314.28	62.86	377.14	
107	H92D		Thatched	4.4	4.4	19.4	20.00	387.20	77.44	464.64	
108	H93E	Awa Quimo	Mud, thatched	4.8	5.4	26.1	20.00	521.28	104.26	625.54	
			Mud, thatched	2.2	5.1	11.3	20.00	225.28	45.06	270.34	
109	H95D		Mud, thatched	5.2	5.1	26.6	20.00	532.48	106.50	638.98	
110		Adia Javado	Brick, corrugated	12.0	9.4	113.2	53.00	6000.34	1200.07	7,200.41	
111		Hermelinda Aufi	Brick, corrugated	12.0	7.9	94.3	53.00	5000.31	1000.06	6,000.38	
112		Maria Amisse	Brick, corrugated	12.0	7.9	94.3	53.00	5000.31	1000.06	6,000.38	
						4,405.1		116,567.26	23,313.45	139,880.72	
LICHINGA (LULIMILE) VILLAGE : LICHINGA DISTRICT											
113	F0002D	Rosa Isabel Samuel	Brick, Corrugated	14.0	9.8	137.2	53.00	7271.60	1454.32	8,725.92	Betão
			Brick, Corrugated	11.1	3.7	41.1	53.00	2176.71	435.34	2,612.05	Betão
114	F0003D	Gomes Sinova	Mud, Thatched	10.0	3.2	32.0	20.00	640.00	128.00	768.00	
115	F0004D	Assiado Saide	Mud, Thatched	4.8	4.0	19.2	20.00	384.00	76.80	460.80	
			Mud, Thatched	13.8	2.8	38.6	20.00	772.80	154.56	927.36	
116	F0005D	Zainabo Saize	Mud, Thatched	5.1	5.1	26.0	20.00	520.20	104.04	624.24	
			Mud, Thatched	3.8	2.8	10.6	20.00	212.80	42.56	255.36	
117	F0006D	Suzete Amide	Mud, Thatched	4.5	3.4	15.3	20.00	306.00	61.20	367.20	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
118	F0007D	Fatima Wisky	Mud, Thatched	4.2	3.2	13.4	20.00	268.80	53.76	322.56	
119	F0008D	Rosa Aide	Mud, Thatched	2.5	2.5	6.3	20.00	125.00	25.00	150.00	
120	F0009D	Amabo Rachide	Dependencia	9.0	6.5	58.5	20.00	1170.00	234.00	1,404.00	Sem telhado
			Mud, Thatched	6.6	3.0	19.8	20.00	396.00	79.20	475.20	
121	F0010D	Matilde Leonardo	Mud, Thatched	5.5	3.6	19.8	20.00	396.00	79.20	475.20	
122	F0011D	Anunsa Saide	Mud, Thatched	6.0	3.0	18.0	20.00	360.00	72.00	432.00	
123	F0012D	Celina Leonardo	Mud, Thatched	5.3	3.1	16.4	20.00	328.60	65.72	394.32	
			Mud, Thatched	5.6	3.4	19.0	20.00	380.80	76.16	456.96	
			Mud, Thatched	4.0	2.2	8.8	20.00	176.00	35.20	211.20	
124	F0013D	Saide Mauridi	Brick, Corrugated	6.3	6.0	37.8	53.00	2003.40	400.68	2,404.08	
			Mud, Thatched	6.2	2.4	14.9	20.00	297.60	59.52	357.12	
125	F0014D		Brick, Corrugated	7.2	6.2	44.6	53.00	2365.92	473.18	2,839.10	Mozai co
			Mud, Thatched	6.2	5.0	31.0	20.00	620.00	124.00	744.00	
126	F0015D	Horado Vaheque	Mud, Thatched	5.0	4.5	22.5	20.00	450.00	90.00	540.00	
			Mud, Thatched	6.0	4.0	24.0	20.00	480.00	96.00	576.00	
			Mud, Thatched	5.2	4.0	20.8	20.00	416.00	83.20	499.20	
			Brick, Corrugated	8.4	4.0	33.6	53.00	1780.80	356.16	2,136.96	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
			Brick, Corrugated	8.3	8.0	66.4	53.00	3519.20	703.84	4,223.04	Cimento
127	F0016D	Amidi B. Omar	Mud, Thatched	7.6	3.4	25.8	20.00	516.80	103.36	620.16	
			Mud, Thatched	5.4	4.0	21.6	20.00	432.00	86.40	518.40	
			Mud, Thatched			5.0	20.00	100.00	20.00	120.00	5m3
128	F0017D	Fatima Rachiba	Mud, Thatched	4.4	4.2	18.5	20.00	369.60	73.92	443.52	
			Mud, Thatched			3.0	20.00	60.00	12.00	72.00	3m3
129	F0018D	Waile Javabo	Mud, Thatched	5.2	3.5	18.2	20.00	364.00	72.80	436.80	
130	F0019D	Atija Rachide	Mud, Thatched	4.6	4.0	18.4	20.00	368.00	73.60	441.60	
			Mud, Thatched	3.0	3.0	9.0	20.00	180.00	36.00	216.00	
131	F21D	Lidia António	Brick, Corrugated	7.0	7.0	49.0	53.00	2597.00	519.40	3,116.40	Betão
			Brick, Corrugated	9.0	4.2	37.8	53.00	2003.40	400.68	2,404.08	Betão
132	F22D	Silva Saide	Brick, Corrugated	12.8	5.2	66.6	53.00	3527.68	705.54	4,233.22	Betão
133	F23D	Muanaicha Cassimo	Brick, Corrugated	6.5	5.4	35.1	53.00	1860.30	372.06	2,232.36	
			Mud, Thatched	4.0	3.5	14.0	20.00	280.00	56.00	336.00	
134	F24D	Ilda Anuncha	Brick, Corrugated	9.6	8.0	76.8	53.00	4070.40	814.08	4,884.48	Betão
			Brick, Corrugated	10.0	4.4	44.0	53.00	2332.00	466.40	2,798.40	
			Mud, Thatched	3.0	3.0	9.0	20.00	180.00	36.00	216.00	
			Mud, Thatched	5.2	3.0	15.6	20.00	312.00	62.40	374.40	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
			Mud, Thatched	6.0	4.0	24.0	20.00	480.00	96.00	576.00	
			Mud, Thatched	3.0	3.0	9.0	20.00	180.00	36.00	216.00	
135	F25D	Amissi Amado	Brick, Corrugated	6.5	6.0	39.0	53.00	2067.00	413.40	2,480.40	
			Mud, Thatched	5.0	3.0	15.0	20.00	300.00	60.00	360.00	
136	F26D	Taira Saine	Brick, Corrugated	5.6	3.0	16.8	53.00	890.40	178.08	1,068.48	
			Mud, Thatched	7.0	3.0	21.0	20.00	420.00	84.00	504.00	
137	F27D	Dina Lucia	Mud, Thatched	5.5	5.7	31.4	20.00	627.00	125.40	752.40	
			Mud, Thatched	5.0	3.0	15.0	20.00	300.00	60.00	360.00	
138	F28D	Luis Selemene	Mud, Thatched	5.0	4.7	23.5	20.00	470.00	94.00	564.00	
			Brick, Corrugated	9.7	5.2	50.4	53.00	2673.32	534.66	3,207.98	
139	F29D	Samuel Buana	Brick, Corrugated	7.0	7.0	49.0	53.00	2597.00	519.40	3,116.40	
			Brick, Corrugated	7.4	5.3	39.2	53.00	2078.66	415.73	2,494.39	
			Mud, Thatched	3.3	2.8	9.2	20.00	184.80	36.96	221.76	
140	F30D		Mud, Thatched	5.3	4.6	24.4	20.00	487.60	97.52	585.12	
			Mud, Thatched	5.0	3.0	15.0	20.00	300.00	60.00	360.00	
			Mud, Thatched	3.3	2.7	8.9	20.00	178.20	35.64	213.84	
141	F31D	Manuel Wilson	Brick, Corrugated	17.5	6.0	105.0	53.00	5565.00	1113.00	6,678.00	Betão
			Brick, Corrugated	10.5	4.0	42.0	53.00	2226.00	445.20	2,671.20	
			Mud, Thatched	4.5	4.4	19.8	20.00	396.00	79.20	475.20	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
142	F32D	Laita Amane	Mud, Thatched	3.5	3.5	12.3	20.00	245.00	49.00	294.00	
			Mud, Thatched	3.2	2.5	8.0	20.00	160.00	32.00	192.00	
143	F33D	Joana Aly	Mud, Thatched	4.6	4.0	18.4	20.00	368.00	73.60	441.60	
			Mud, Thatched	3.6	3.0	10.8	20.00	216.00	43.20	259.20	
144	F34D		Mud, Thatched	3.2	3.0	9.6	20.00	192.00	38.40	230.40	
145	F35D	Edna Andarsam	Mud, Corrugated	6.3	4.2	26.5	20.00	529.20	105.84	635.04	
146	F36D	Rachide Ndala	Mud, Thatched	4.7	4.0	18.8	20.00	376.00	75.20	451.20	
147	F37D	Carlos Saide	Mud, Thatched	3.7	3.0	11.1	20.00	222.00	44.40	266.40	
			Mud, Thatched	5.5	4.0	22.0	20.00	440.00	88.00	528.00	
			Mud, Thatched			5.0	20.00	100.00	20.00	120.00	5m3
148	F38D	Amado Bacar	Mud, Thatched	8.0	3.2	25.6	20.00	512.00	102.40	614.40	
149	F39D	Helena Amido	Mud, Thatched	8.0	8.0	64.0	20.00	1280.00	256.00	1,536.00	em construção
			Mud, Thatched	5.0	2.5	12.5	20.00	250.00	50.00	300.00	
150	F40D	Raposo Gustavo	Mud, Thatched	6.0	3.0	18.0	20.00	360.00	72.00	432.00	
151	F41D	Ingles Jemusse	Brick, Corrugated	8.3	3.2	26.6	53.00	1407.68	281.54	1,689.22	
			Brick, Corrugated	8.0	7.0	56.0	53.00	2968.00	593.60	3,561.60	
152	F42E	Ali Cassimo	Brick, Corrugated	8.3	3.2	26.6	53.00	1407.68	281.54	1,689.22	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
			Mud, Thatched	7.0	3.0	21.0	20.00	420.00	84.00	504.00	
153	F43E	Caisse Jafar	Mud, Thatched	4.0	3.0	12.0	20.00	240.00	48.00	288.00	
								81,485.95	16,297.19	97,783.14	
MASSANGULO (NKALAPA) VILLAGE : NGAUMA DISTRICT											
154	F44E	Tenge Saide	Brick, Corrugated	7.0	5.0	35.0	53.00	1855.00	371.00	2,226.00	
			Dependencia	7.0	4.0	28.0	20.00	560.00	112.00	672.00	
			Mud, Thatched	4.5	4.0	18.0	20.00	360.00	72.00	432.00	
155	F45E	Artur Buanacaia	Mud, Thatched	10.5	4.0	42.0	20.00	840.00	168.00	1,008.00	
156		Amido Rachide	Brick, Corrugated	7.0	4.6	32.2	53.00	1706.60	341.32	2,047.92	
						2,380.6		5,321.60	1,064.32	6,385.92	
MACHEMBA (MPONDE) VILLAGE : LICHINGA DISTRICT											
157	DL12D	Saina Manuel	Mud, Thatched	4.0	3.0	12.0	20.00	240.00	48.00	288.00	
			Mud, Thatched	4.0	2.0	8.0	20.00	160.00	32.00	192.00	
158	DL27E	Samila Saide	Mud, Thatched	3.0	3.0	9.0	20.00	180.00	36.00	216.00	
159	DL29E	Assiene Jafar	Mud, Thatched	3.0	4.0	12.0	20.00	240.00	48.00	288.00	
			Mud, Thatched	3.0	3.0	9.0	20.00	180.00	36.00	216.00	
160	DL30E		Mud, Corrugated	4.0	4.0	16.0	20.00	320.00	64.00	384.00	
161	DL31E	Mariato Adamo	Mud, Thatched	4.0	4.0	16.0	20.00	320.00	64.00	384.00	
			Mud, Thatched	4.0	2.0	8.0	20.00	160.00	32.00	192.00	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
162	DL32E	Mariato Mustafa	Brick, Corrugated	5.0	5.0	25.0	53.00	1325.00	265.00	1,590.00	
			Mud, Thatched	3.0	2.0	6.0	20.00	120.00	24.00	144.00	
			Mud, Thatched	6.0	5.0	30.0	20.00	600.00	120.00	720.00	
163	DL37E	Isabel Omar	Mud, Thatched	4.0	3.0	12.0	20.00	240.00	48.00	288.00	
			Brick, Corrugated	8.0	4.0	32.0	53.00	1696.00	339.20	2,035.20	
						195.0		5,781.00	1,156.20	6,937.20	
MACHEMBE (USSENE) VILLAGE : LICHINGA DISTRICT											
164	P1E	Midala Adamo	Mud, thatched	4.3	5.9	25.4	20.00	507.40	101.48	608.88	
165	P2D	Saide Rajabo	Mud, thatched	4.8	2.0	9.6	20.00	192.00	38.40	230.40	
166	P3D	Barak Assane	Mud, thatched	15.4	10.0	154.0	20.00	3080.00	616.00	3,696.00	
			Mud, thatched	5.3	8.0	42.4	20.00	848.00	169.60	1,017.60	
			Mud, thatched	3.7	3.7	13.7	20.00	273.80	54.76	328.56	
			Mud, thatched	4.9	3.0	14.7	20.00	294.00	58.80	352.80	
			Mud, thatched	2.8	5.0	14.0	20.00	280.00	56.00	336.00	
167	P4D	Yassidi Mussa	Mud, thatched	4.9	4.1	20.1	20.00	401.80	80.36	482.16	
168	P5E	Aualo Aide	Mud, thatched	4.9	2.2	10.8	20.00	215.60	43.12	258.72	
169	P6E	Jorge Fernando	Mud, thatched	5.2	2.9	15.1	20.00	301.60	60.32	361.92	
170	P7E	Joaquim Cassimo	Mud, thatched	4.0	2.6	10.4	20.00	208.00	41.60	249.60	
171	P8E	Aid Amad	Mud, thatched	3.9	2.2	8.6	20.00	171.60	34.32	205.92	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
172	P9E	Rosa Ernesto	Mud, thatched	4.8	3.6	17.3	20.00	345.60	69.12	414.72	
173	P10D	Saide Buana	Mud	4.9	4.1	20.1	20.00	401.80	80.36	482.16	
			Mud	3.7	3.2	11.8	20.00	236.80	47.36	284.16	
			Mud	4.1	3.1	12.7	20.00	254.20	50.84	305.04	
			Mud, thatched	3.7	2.2	8.1	20.00	162.80	32.56	195.36	
174	P12D	Angelina Marrula	Mud, thatched	3.9	3.6	14.0	20.00	280.80	56.16	336.96	
175	P13D	Maria Benesse	Mud, thatched	6.0	3.1	18.6	20.00	372.00	74.40	446.40	
176	P14D	Gabriel Tahuba	Mud, thatched	4.0	3.0	12.0	20.00	240.00	48.00	288.00	
			Mud, thatched	4.5	4.5	20.3	20.00	405.00	81.00	486.00	
177	P15D	Isabel Aly	Mud, thatched	4.0	4.0	16.0	20.00	320.00	64.00	384.00	
178	P16D	Wilson Nkumpa	Mud, thatched	6.9	6.8	46.9	20.00	938.40	187.68	1,126.08	
179	P17D	Aida Saide	Mud, thatched	5.1	4.6	23.5	20.00	469.20	93.84	563.04	
			Mud, thatched	4.6	3.6	16.6	20.00	331.20	66.24	397.44	
180	P18D	Joaquina Mario	Mud, thatched	4.0	4.0	16.0	20.00	320.00	64.00	384.00	
181	P19D	Ernesto Metucula	Mud, thatched	4.9	4.7	23.0	20.00	460.60	92.12	552.72	
182	P20D	Armando Jackson	Mud, thatched	3.3	2.1	6.9	20.00	138.60	27.72	166.32	
183	P21D		Mud, thatched	4.5	4.5	20.3	20.00	405.00	81.00	486.00	
184	P22D		Mud, thatched	6.0	3.1	18.6	20.00	372.00	74.40	446.40	
						661.4		13,227.80	2,645.56	15,873.36	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
LIONE (NSINGEUE) VILLAGE : LICHINGA DISTRICT											
185	P23D	Noemia Aquimo	Mud, thatched	5.0	4.0	20.0	20.00	400.00	80.00	480.00	
			Mud, thatched	3.3	2.3	7.6	20.00	151.80	30.36	182.16	
186	P24D	Antonio Ngaunge	Mud, thatched	5.2	2.4	12.7	20.00	253.76	50.75	304.51	
						40.3		805.56	161.11	966.67	
MASSANGULO (MAGHIPA) VILLAGE : NGAUMA DISTRICT											
187	P37D		Mud, thatched	5.3	4.2	22.3	20.00	445.20	89.04	534.24	
188	P38D		Brick, corrugated	6.0	4.2	25.2	53.00	1335.60	267.12	1,602.72	
189	P39D		Brick, corrugated	5.2	4.6	23.9	53.00	1267.76	253.55	1,521.31	
190	P40D		Brick, corrugated	5.2	4.1	21.3	53.00	1129.96	225.99	1,355.95	
191	P41D		Brick, corrugated	4.9	4.6	22.5	53.00	1194.62	238.92	1,433.54	
192	P42D	Mairosse Aquibo	Brick, corrugated	7.0	5.0	35.0	53.00	1855.00	371.00	2,226.00	
193	P47D		Brick, corrugated	4.0	3.9	15.6	53.00	826.80	165.36	992.16	
						165.8		8,054.94	1,610.99	9,665.93	
LUAGALA (NUNGU'S) VILLAGE : NGAUMA DISTRICT											
194	D1D		E.P Luagala, brick, corrugated	6.4	5.0	32.0	53.00	1696.00	339.20	2,035.20	
195	D20E	Arlindo lassine	Mud, thatched	4.0	3.5	14.0	20.00	280.00	56.00	336.00	
196	D21E		Mud, thatched	5.0	4.0	20.0	20.00	400.00	80.00	480.00	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
197	D22E	Tuaibo Saide	Brick, corrugated	10.0	5.0	50.0	53.00	2650.00	530.00	3,180.00	
198	D24E		Mud, thatched	5.5	3.0	16.5	20.00	330.00	66.00	396.00	
199	P8E	Yahaya Kwaiaia	Brick, thatched	6.0	4.0	24.0	20.00	480.00	96.00	576.00	
200		Magido Mustafa (Filoho-Dele)	Brick, corrugated	6.0	4.8	28.8	53.00	1526.40	305.28	1,831.68	
201		Tuaibo Saide	Brick, corrugated			56.6	53.00	3000.00	600.00	3,600.00	
						241.9		10,362.40	2,072.48	12,434.88	
MANDIMBA (CHIKWENGA) VILLAGE : MANDIMBA DISTRICT											
202	F29D	Paulo Aide	Brick, corrugated	7.3	5.1	37.2	53.00	1973.19	394.64	2,367.83	
203	F30D	Eduardo Rafael	Brick, corrugated	8.6	5.8	49.9	53.00	2643.64	528.73	3,172.37	
			Mud, thatched	7.8	4.0	31.2	20.00	624.00	124.80	748.80	
204	F31D	Jemusse Dua	Mud, thatched	5.4	4.1	22.1	20.00	442.80	88.56	531.36	
205	F32D	Gerasse Moyo	Brick, corrugated	7.0	5.8	40.6	53.00	2151.80	430.36	2,582.16	
			Alpendre, mud thatched	6.0	2.8	16.8	20.00	336.00	67.20	403.20	
			Dependencia, brick, corrugated	6.1	5.0	30.5	53.00	1616.50	323.30	1,939.80	
			Mud, thatched	5.2	4.2	21.8	20.00	436.80	87.36	524.16	
206	F33D	Luis Calunga	Brick, corrugated	7.3	5.3	38.7	53.00	2050.57	410.11	2,460.68	
			Mud, thatched	3.3	2.7	8.9	20.00	178.20	35.64	213.84	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
			Mud, thatched	4.6	3.6	16.6	20.00	331.20	66.24	397.44	
207	F34D	Cassimo Sande	Mud, thatched	4.6	3.5	16.1	20.00	322.00	64.40	386.40	
			Mud, thatched	4.6	3.0	13.8	20.00	276.00	55.20	331.20	
208	F35D	Rafael Jafar	Mud, thatched	7.0	4.0	28.0	20.00	560.00	112.00	672.00	
			Mud, thatched	7.0	3.0	21.0	20.00	420.00	84.00	504.00	
209	F43D	Hortencio Cupiha	Dependencia, brick, corrugated	5.7	3.0	17.1	53.00	906.30	181.26	1,087.56	
210	F45D	Paulo W. Jemusse	Dependencia, brick, corrugated	3.7	1.1	4.1	53.00	215.71	43.14	258.85	
			Brick, thatched	6.8	5.1	34.7	20.00	693.60	138.72	832.32	
211	F36E	Mário Cunge	Mud, thatched	7.5	4.0	30.0	20.00	600.00	120.00	720.00	
			Mud, thatched	7.3	5.0	36.5	20.00	730.00	146.00	876.00	
212	F37E	António Manuel	Dependencia, mud, thatched	7.0	5.0	35.0	20.00	700.00	140.00	840.00	
			Dependencia, mud, thatched	11.5	5.0	57.5	20.00	1150.00	230.00	1,380.00	
213	F38E	Victoria Sinoa	Brick, corrugated	10.0	8.0	80.0	53.00	4240.00	848.00	5,088.00	
			Dependencia, brick, corrugated	5.0	4.0	20.0	53.00	1060.00	212.00	1,272.00	
214	F39E	António Amade	Mud, thatched	7.0	6.2	43.4	20.00	868.00	173.60	1,041.60	
			Mud, thatched	5.0	4.2	21.0	20.00	420.00	84.00	504.00	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
			Mud, thatched	5.0	4.0	20.0	20.00	400.00	80.00	480.00	
			Brick, corrugated	5.0	4.6	23.0	53.00	1219.00	243.80	1,462.80	
215	F44E	João Alberto Buhu	Brick, corrugated	12.1	9.0	108.9	53.00	5771.70	1154.34	6,926.04	
						924.4		33,337.01	6,667.40	40,004.41	
MANDIMBA (NAUCHECHE/MUITA) VILLAGE : MANDIMBA DISTRICT											
216	F49D	Rafael Danga	Mud, thatched	8.0	5.0	40.0	20.00	800.00	160.00	960.00	
217	F50D	Daud Cassubi	Mud, thatched	6.0	4.5	27.0	20.00	540.00	108.00	648.00	
218	F54D	Mateus Chaibu	Mud, thatched	6.0	4.0	24.0	20.00	480.00	96.00	576.00	
219	F58E	Escola EP Saude	Sala/p.saude, brick, corrugated	14.0	4.0	56.0	53.00	2968.00	593.60	3,561.60	
220	F59E	Victor Duriasse	Mud, thatched	3.7	2.5	9.3	20.00	185.00	37.00	222.00	
221	F64E	Estevão Cavinga	Mud, thatched	5.2	3.0	15.6	20.00	312.00	62.40	374.40	
222		E. Muita	Sala 2º bloco, brick, corrugated	17.0	7.3	124.1	53.00	6577.30	1315.46	7,892.76	
			Secretaria, brick	9.0	7.7	69.3	53.00	3672.90	734.58	4,407.48	
						365.3		15,535.20	3,107.04	18,642.24	
MANDIMBA (DADAUTA) VILLAGE : MANDIMBA DISTRICT											
223	F66E	Patricio Jaime	Brick, corrugated	9.7	6.3	61.1	53.00	3238.83	647.77	3,886.60	
224	F68E	Langson Gumbe	Brick, corrugated	9.7	6.3	61.1	53.00	3238.83	647.77	3,886.60	
225	F70E	Novas Viriado	Mud, thatched	7.0	4.4	30.8	20.00	616.00	123.20	739.20	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
226	F71E	Araujo Luis	Mud, thatched	6.2	3.5	21.7	20.00	434.00	86.80	520.80	
227	F72E	Eduardo Wilson	Mud, thatched	7.8	4.0	31.2	20.00	624.00	124.80	748.80	
228	F73E	Vasco Antonio	Mud, thatched	5.0	3.1	15.5	20.00	310.00	62.00	372.00	
						221.4		8,461.66	1,692.33	10,153.99	
MANDIMBA (CONGERENGE) VILLAGE : MANDIMBA DISTRICT											
229	F77D	Raibo Maldade	Mud, thatched	4.7	3.0	14.1	20.00	282.00	56.40	338.40	
			Mud, thatched	3.0	2.0	6.0	20.00	120.00	24.00	144.00	
230	F80D	Manuel Samuel	Mud, thatched	4.3	2.3	9.9	20.00	197.80	39.56	237.36	
			Mud, thatched	5.0	4.8	24.0	20.00	480.00	96.00	576.00	
231	F86D	Luisa Miponda	Brick, corrugated	6.0	5.0	30.0	53.00	1590.00	318.00	1,908.00	
232	F78E	Samuel Orlando	Mud, thatched	3.8	3.2	12.2	20.00	243.20	48.64	291.84	
233	F79E	Eduardo Zacarias	Mud, thatched	5.4	4.5	24.3	20.00	486.00	97.20	583.20	
234	F83E		Mud, thatched	6.0	5.2	31.2	20.00	624.00	124.80	748.80	
			Mud, thatched	6.1	3.0	18.3	20.00	366.00	73.20	439.20	
235	F84E	Lemos Mwinama	Mud, thatched	5.4	3.7	20.0	20.00	399.60	79.92	479.52	
						189.9		4,788.60	957.72	5,746.32	
MUKWAIAIA (MUKWAIAIA) VILLAGE : MANDIMBA DISTRICT											
236	P16D	Luis Selemene	Mud, thatched	3.5	3.9	13.7	20.00	273.00	54.60	327.60	
237	P17E	Armando Issa	Mud, thatched	3.8	3.4	12.9	20.00	258.40	51.68	310.08	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
238	P18E	Lukia Muicho	Mud, thatched	3.5	4.4	15.4	20.00	308.00	61.60	369.60	
239	P20E	Witney Wiske	Brick, corrugated	4.2	3.2	13.4	20.00	268.80	53.76	322.56	
240	P21E	Meque Maeque	Mud, thatched	7.0	6.0	42.0	20.00	840.00	168.00	1,008.00	
						97.4		1,948.20	389.64	2,337.84	
MANDIMBA (JUNTA) VILLAGE : MANDIMBA DISTRICT											
241	F1D	Wiaky Fernado	Mud, thatched	5.2	3.5	18.2	20.00	364.00	72.80	436.80	
			Mud, thatched	4.0	2.5	10.0	20.00	200.00	40.00	240.00	
242	F2D	Estango Fernando	Mud, thatched	6.0	4.0	24.0	20.00	480.00	96.00	576.00	
			Mud, thatched	3.6	2.5	9.0	20.00	180.00	36.00	216.00	
243	F4D	Rafael Nocode	Mud, thatched	4.2	3.0	12.6	20.00	252.00	50.40	302.40	
244	F5D	Noe Samuel Janguia	Mud, thatched	4.0	3.8	15.2	20.00	304.00	60.80	364.80	
			Mud, thatched	5.6	3.0	16.8	20.00	336.00	67.20	403.20	
245	F7D	Hawa Mwapwexiwa	Mud, thatched	5.0	3.5	17.5	20.00	350.00	70.00	420.00	
246	F8D	Saina Momade	Mud, thatched	5.0	3.0	15.0	20.00	300.00	60.00	360.00	
247	F9D	Alberto António	Dependencia, brick, corrugated	7.0	3.0	21.0	53.00	1113.00	222.60	1,335.60	
248	F10D	Abandonada	Brick, thatched	6.0	5.0	30.0	20.00	600.00	120.00	720.00	
249	F11D	Paulo Maquissene	Brick, corrugated	7.5	6.5	48.8	53.00	2583.75	516.75	3,100.50	
250	F12D	Estevão A.	Mud, thatched	3.9	3.4	13.3	20.00	265.20	53.04	318.24	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
		Majumuca									
			Mud, thatched	2.5	2.5	6.3	20.00	125.00	25.00	150.00	
251	F16D	Juliana Saide	Mud, thatched	5.0	3.4	17.0	20.00	340.00	68.00	408.00	
252	F18D		Brick, corrugated	13.0	10.6	137.8	53.00	7303.40	1460.68	8,764.08	
253	F19D	SDPI Mandimba	Brick, corrugated	10.1	6.0	60.6	53.00	3211.80	642.36	3,854.16	
254	F21D	Arlindo Martins	Mud, thatched	5.7	3.4	19.4	20.00	387.60	77.52	465.12	
			Mud, thatched	5.0	3.7	18.5	20.00	370.00	74.00	444.00	
255	F22D	Carlitos Martins	Mud, thatched	4.3	3.2	13.8	20.00	275.20	55.04	330.24	
256	F23D	Martins Fernado	Mud, thatched	5.1	4.7	24.0	20.00	479.40	95.88	575.28	
			Mud, thatched	3.7	3.4	12.6	20.00	251.60	50.32	301.92	
257	F24D	Rafael Jafar	Mud, thatched	14.0	4.0	56.0	20.00	1120.00	224.00	1,344.00	
			Alpendre	5.3	3.0	15.9	20.00	318.00	63.60	381.60	
258	F25D	Victor M. Braz	Mud, thatched	6.6	3.2	21.1	20.00	422.40	84.48	506.88	
			Mud, thatched	5.7	2.7	15.4	20.00	307.80	61.56	369.36	
259	F26D	Ali Bwanaali	Brick, corrugated	10.0	7.8	78.0	53.00	4134.00	826.80	4,960.80	
			Mud, thatched	6.4	3.0	19.2	20.00	384.00	76.80	460.80	
			Mud, thatched	3.5	2.4	8.4	20.00	168.00	33.60	201.60	
			Mud, thatched	4.5	3.0	13.5	20.00	270.00	54.00	324.00	
260	F27D	Rosa Saide	Mud, thatched	6.8	4.0	27.2	20.00	544.00	108.80	652.80	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
			Mud, thatched	4.7	3.0	14.1	20.00	282.00	56.40	338.40	
			Mud, thatched	5.0	3.0	15.0	20.00	300.00	60.00	360.00	
261	F28D		Mud, corrugated	5.0	4.8	24.0	30.00	720.00	144.00	864.00	
			Mud, thatched	6.0	4.0	24.0	20.00	480.00	96.00	576.00	
262	F3E	Caniva John	Mud, thatched	5.0	5.0	25.0	20.00	500.00	100.00	600.00	
			Mud, thatched	4.5	3.0	13.5	20.00	270.00	54.00	324.00	
263	F13E	Jojo Ibraimo	Mud, thatched	6.2	3.0	18.6	20.00	372.00	74.40	446.40	
264	F14E	Joaquim Toquela	Mud, thatched	5.0	4.7	23.5	20.00	470.00	94.00	564.00	
			Mud, thatched	3.7	3.5	13.0	20.00	259.00	51.80	310.80	
265	F15E	Maliló Mussa	Mud, thatched	5.0	3.4	17.0	20.00	340.00	68.00	408.00	
266	F17E	Maria Tona	Mud, thatched	4.5	3.7	16.7	20.00	333.00	66.60	399.60	
267	F20E	Judite Martins	Mud, thatched	5.2	3.2	16.6	20.00	332.80	66.56	399.36	
						1,036.8		32,398.95	6,479.79	38,878.74	
CONGERENGE (CHIPA) VILLAGE : MANDIMBA DISTRICT											
268	F87D		Mud, thatched	6	4.8	28.8	20.00	576.00	115.20	691.20	
269	F88D		Mud, thatched	4	3	12	20.00	240.00	48.00	288.00	
270	F90D	Evaristo Botomar	Mud, thatched	3.13	2.3	7.199	20.00	143.98	28.80	172.78	
271	F91D	Alfredo	Mud, thatched	6	4	24	20.00	480.00	96.00	576.00	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
272	F92D	Francisco Jorge	Mud, thatched	3	1.8	5.4	20.00	108.00	21.60	129.60	
273	F109D	Francisco Jorge	Mud, thatched	4	3.6	14.4	20.00	288.00	57.60	345.60	
274	F110D	Ernesto Bunaia	Mud, thatched	4	3.6	14.4	20.00	288.00	57.60	345.60	
275	F111D	Lourenço João	Brick, corrugated	5.4	4	21.6	53.00	1144.80	228.96	1,373.76	
276	F112D	Ismael Felex	Mud, thatched	5	3.84	19.2	20.00	384.00	76.80	460.80	
277	F113D	Jamisson Waisson	Mud, thatched	6	3.6	21.6	20.00	432.00	86.40	518.40	
278	F114D	Ricardo Taimone	Mud, thatched	7.2	5	36	20.00	720.00	144.00	864.00	
279	F115D	Evaristo Simione	Mud, thatched	8	6	48	20.00	960.00	192.00	1,152.00	
280	F116D	Isac	Mud, thatched	3.94	3.2	12.608	20.00	252.16	50.43	302.59	
281	F117D	Augusto Dimwa	Mud, thatched	4	3	12	20.00	240.00	48.00	288.00	
282	F118D	Bonetasio Camwaua	Brick, corrugated	8	4.8	38.4	53.00	2035.20	407.04	2,442.24	
283	F121D		Mud, thatched	5	3.6	18	20.00	360.00	72.00	432.00	
284	F122D		Brick, corrugated	5	3.84	19.2	53.00	1017.60	203.52	1,221.12	
285	F123D		Mud, thatched	5	3.36	16.8	20.00	336.00	67.20	403.20	
286	F124D		Mud, thatched	7.2	5	36	20.00	720.00	144.00	864.00	
287	F132D	EP1 Musserepa	Brick, corrugated	16	14.417	230.672	53.00	12225.62	2445.12	14,670.74	
288	F94E	Antonio Mimo	Mud, thatched	6	4	24	20.00	480.00	96.00	576.00	
289	F95E	Fernando Roberto	Mud, thatched	7.2	5	36	20.00	720.00	144.00	864.00	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
290	F96E	Virgilio	Mud, thatched	4	3.6	14.4	20.00	288.00	57.60	345.60	
291	F97E	Carlitos	Mud, thatched	8	6	48	20.00	960.00	192.00	1,152.00	
292	F98E	Artur	Brick, corrugated	15	12.68	190.2	53.00	10080.60	2016.12	12,096.72	
293	F99E		Brick, corrugated	16.3	14.5	236.35	53.00	12526.55	2505.31	15,031.86	
294	F102E	Ismael Felex	Mud, thatched	5.88	4	23.52	20.00	470.40	94.08	564.48	
295	F103E	Ibraimo Anube	Mud, thatched	3.13	2.3	7.199	20.00	143.98	28.80	172.78	
296	F104E	Vasco Dickson	Mud, thatched	7.965	5.8	46.197	20.00	923.94	184.79	1,108.73	
297	F105E	Magalhães Jastene	Brick, corrugated	7.08	4.1	29.028	53.00	1538.48	307.70	1,846.18	
								51,083.31	10,216.66	61,299.97	
NAME OF VILLAGE: MISSISSI (MABANDE/MISSISSI) : NAME OF DISTRICT: MANDIMBA											
298	F136D	Daibo Bamusse	Mud, Thatched	4.6	4.5	20.7	20.00	414.00	82.80	496.80	
299	F141D	Sergio Domingos	Mud, Thatched	6.2	4	24.8	20.00	496.00	99.20	595.20	
300	F142D	Antono Matias	Mud, Thatched	7.7	6	46.2	20.00	924.00	184.80	1108.80	
301	F133E	Joalinho Victor	Mud, Thatched	4.3	3.2	13.76	20.00	275.20	55.04	330.24	
302	F134E	Saide Alane	Mud, Thatched	4.5	4	18	20.00	360.00	72.00	432.00	
303	F135E	Manuel Alberto	Mud, Thatched	5.2	5	26	20.00	520.00	104.00	624.00	
304	F137E	Afonso Canivete	Mud, Thatched	5.2	5	26	20.00	520.00	104.00	624.00	
305	F138E	Opuquia Widimane	Mud, Thatched	6.6	4.4	29.04	20.00	580.80	116.16	696.96	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
306	F140E	Leonora Agostinho	Mud, Thatched	3.2	3	9.6	20.00	192.00	38.40	230.40	
			Mud, Thatched	4.5	2.8	12.6	20.00	252.00	50.40	302.40	
						226.7		4,534.00	906.80	5,440.80	
MEPICA (BAIRRO MATHUANE VILLAGE : CUAMBA DISTRICT)											
307	D63D	Desconhecido	Mud, Thatched	3	3	9	20.00	180.00	36.00	216.00	
308	D64D	Thebro	Mud, Thatched	5	3.5	17.5	20.00	350.00	70.00	420.00	
309	D69D	Jemussane Aidame	Mud, Thatched	6	4	24	20.00	480.00	96.00	576.00	
310	D70D	Caudencio Quidione	Mud, Thatched	4	3	12	20.00	240.00	48.00	288.00	
311	D72D	António Quidione	Mud, Thatched	6	4	24	20.00	480.00	96.00	576.00	
312	D73D	Eugénio Achasse	Mud, Thatched	4	2.5	10	20.00	200.00	40.00	240.00	
313	D74D	Hilário Bistone	Mud, Thatched	4	1.5	6	20.00	120.00	24.00	144.00	
314	D75D	Cristina Paulino	Mud, Thatched	4	5	20	20.00	400.00	80.00	480.00	
			Mud, Thatched	3	1.5	4.5	20.00	90.00	18.00	108.00	
315	D76D	Leotério José	Mud, Thatched	4	3	12	20.00	240.00	48.00	288.00	
316	D77D	Deolinda França	Mud, Thatched	4	3	12	20.00	240.00	48.00	288.00	
317	D78D	Jemusse Anussa	Brick, Corrugated	6	3	18	53.00	954.00	190.80	1,144.80	
318	D79D	Runia Laine	Mud, Thatched	4	4	16	20.00	320.00	64.00	384.00	
319	D80D	Catira Aissa	Mud, Thatched	4.5	4	18	20.00	360.00	72.00	432.00	
320	D81D	Cristovao Pateni	Mud, Thatched	5	6	30	20.00	600.00	120.00	720.00	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
321	D82D	Celestino Alberto	Mud, Thatched	8	5	40	20.00	800.00	160.00	960.00	
322	D83E	Desconhecido	Mud, Thatched	3	3.5	10.5	20.00	210.00	42.00	252.00	
323	D84E	Desconhecido	Mud, Thatched	4	2.5	10	20.00	200.00	40.00	240.00	
324	D87E	Cristiano Jemusse	Brick, Corrugated	8	4	32	53.00	1696.00	339.20	2,035.20	
			Mud, Thatched	5	3	15	20.00	300.00	60.00	360.00	
325	D89D	Desconhecido	Brick, Corrugated	4	4	16	53.00	848.00	169.60	1,017.60	
326	D90E	Desconhecido	Mud, Thatched	4	3.5	14	20.00	280.00	56.00	336.00	
327	D92D	Desconhecido	Mud, Thatched	5	6	30	20.00	600.00	120.00	720.00	
						400.5		10,188.00	2,037.60	12,225.60	
BAIRRO MEPICA VILLAGE : CUAMBA DISTRICT											
328	D93D	Desconhecido	Mud, Thatched	5	4	20	20.00	400.00	80.00	480.00	
329	D94E	Isaque Luis	Mud, Thatched	15	2	30	20.00	600.00	120.00	720.00	
330	D95E	Desconhecido	Mud, Thatched	4	3	12	20.00	240.00	48.00	288.00	
331	D99D	Vasco Jonasse	Mud, Thatched	10	4	40	20.00	800.00	160.00	960.00	
332		Km 46,7	Mud, Thatched	70	6	420	20.00	8400.00	1680.00	10,080.00	
						522		10,440.00	2,088.00	12,528.00	
BAIRRO CIMENTO VILLAGE : CUAMBA DISTRICT											
333	H2E	Mariana Jochera	Mud, Thatched	5.3	3.7	19.61	20.00	392.20	78.44	470.64	
			Mud, Thatched	2.5	2.4	6	20.00	120.00	24.00	144.00	
334	H37D	Arlindo /Amido	Mud, Thatched	5.5	7	38.5	20.00	770.00	154.00	924.00	
						64.11		1,282.20	256.44	1,538.64	

No.	ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Disturbance Allowance	TOTAL	
								443,891.04	88,778.21	532,669.25	

Appendix 2 Affected Kitchens

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	REMARKS
LUMBI (ISSA) VILLAGE : LICHINGA DISTRICT								
D1E	Massala Ali	Mud, thatched	1.6	2.6	4.2	2.00	8.32	
D1E	Massala Ali	Mud, thatched	2.0	2.5	5.0	2.00	10.00	
D22E	Tuaibo Saide	Mud, thatched	6.0	3.0	18.0	2.00	36.00	
D2E	Sipaguedje Amini	Mud, thatched	2.0	2.0	4.0	2.00	8.00	
D3E	Amini Selemene	Mud, thatched	3.0	3.0	9.0	2.00	18.00	
D4E	White Assane	Mud, thatched	6.0	4.0	24.0	2.00	48.00	
D5E	Ndala Omar	Mud, thatched	2.0	2.0	4.0	2.00	8.00	
D26E	Afati Mussa	Mud, thatched	4.0	2.0	8.0	2.00	16.00	
					76.16		152.32	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
H00015E	Mariamo Jemussi	Mud, thatched	3.4	2.3	7.8	2.00	15.64	
H00021D	Falelo Cabichi	Mud, thatched	3.0	3.0	9.0	2.00	18.00	
H00023E	Saina Amado	Mud, thatched	4.6	2.5	11.5	2.00	23.00	
H00025E	Jamia Mbuana	Mud, thatched	3.0	3.0	9.0	2.00	18.00	

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	REMARKS
		Mud, thatched	2.4	2.4	5.8	2.00	11.52	
H00027E	Saujat Filale	Mud, thatched	3.0	3.0	9.0	2.00	18.00	
		Mud, thatched	2.0	2.0	4.0	2.00	8.00	
H00030E	Amussa Mustafa	Mud, thatched	3.0	2.0	6.0	2.00	12.00	
H00031E	Ermelinda	Mud, thatched	3.0	3.0	9.0	2.00	18.00	
H00033E	Mustafa Amado	Mud, thatched	5.8	3.3	19.1	2.00	38.28	
H00034E		Mud, thatched	3.2	3.5	11.2	2.00	22.40	
H00035E	Sabiti Saisse	Mud, thatched	2.4	3.3	7.9	2.00	15.84	
H0038D	Mariato Cazembe	Mud, thatched	3.0	3.0	9.0	2.00	18.00	
H0040D	Aua Caissi	Mud, thatched	3.7	2.7	10.0	2.00	19.98	
H0041D	Roni Caissi	Mud, thatched	2.2	2.5	5.5	2.00	11.00	
H0045D		Mud, thatched	3.7	3.0	11.1	2.00	22.20	
H0046D	Zacarias Saide	Mud, thatched	3.0	2.0	6.0	2.00	12.00	
H0047D	Jafar Mustafa	Mud, thatched	3.3	2.5	8.3	2.00	16.50	
H54E	Mateus Mustafa	Mud, thatched	3.0	3.0	9.0	2.00	18.00	
H56E	Adija Amado	Mud, thatched	4.9	3.0	14.7	2.00	29.40	
H60E	Boma	Mud, thatched	2.4	2.4	5.7	2.00	11.38	
H63E	Alija Jandi	Mud, thatched	5.5	3.1	17.1	2.00	34.13	
H66E	Amade Muamed	Mud, thatched	2.0	2.0	4.0	2.00	8.00	
H67E	Jaime	Oven, mud, thatched	2.0	2.0	4.0	2.00	8.00	oven
H72E	Bonomar Piat	Mud, thatched	5.1	3.1	15.8	2.00	31.62	
H76D	Cassimo	Mud, thatched	2.1	3.7	7.8	2.00	15.54	

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	REMARKS
					237.2144		474.43	
(LULIMILE) VILLAGE : LICHINGA DISTRICT								
	z1	Brick, Corrugated Concrete	6.7	3.7	24.8	5.00	123.95	
	z2	Brick, Corrugated Concrete	3.6	3	10.8	5.00	54.00	
	z3	Mud, Thatched	2.5	2.3	5.8	2.00	11.50	
	z4	Brick, Corrugated	3.1	3.1	9.6	5.00	48.05	
					51.0		237.50	
MACHEMBE (USSENE) VILLAGE : LICHINGA DISTRICT								
P11D	Agostinho Manue	Mud, thatched	4.0	2.0	8.0	2.00	16.00	
MACHEMBA (MPONDE) VILLAGE : LICHINGA DISTRICT								
	Mariato Adamo	Mud, Thatched	2.0	2.0	4.0	2.00	8.00	
	Mariato Mustafa	Mud, Thatched	2.0	2.0	4.0	2.00	8.00	
	Mauridi Botão	Brick, Corrugated	3.0	2.0	6.0	5.00	30.00	
					14.0		46.00	
LUAGALA (NUNGU'S) VILLAGE : NGAUMA DISTRICT								
D20E	Arlindo Iassine	Estufa (Mud, thatched)	4.4	4.0	17.6	2.00	35.20	
D22E	Tuaibo Saide	Mud, thatched	3.5	3.0	10.5	2.00	21.00	
					28.1		56.20	
MUKWAIAIA (MUKWAIAIA) VILLAGE : MANDIMBA DISTRICT								

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	REMARKS
P25D	Abreu Ncuanda	Estufa (Mud, thatched)	4.0	2.0	8.0	2.00	16.00	
P26D	Gemusse Jafari	Estufa (Mud, thatched)	3.0	4.0	12.0	2.00	24.0	
P23E	Matossa Aly	Estufa (Mud, thatched)	4.0	2.0	8.0	2.00	16.00	
					28.0		56.00	
MANDIMBA (JUNTA) VILLAGE : MANDIMBA DISTRICT								
F5D	Noe Samuel Janguia	Mud, thatched	4	3	12.0	2.00	24.00	
F9D	Alberto António	Mud, thatched	3	3	9.0	2.00	18.00	
F27D	Rosa Saide	Mud, thatched	3	3	9.0	2.00	18.00	
F13E	Jojo Ibraimo	Mud, thatched	2.6	2	5.2	2.00	10.40	
					30		70.40	

Appendix 3 Affected Shops

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate (US\$)	Cost (US\$)	REMARKS
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
H0046D	Zacarias Saide						24,630.00	Figure from raw data
H79D	Adile Jemussi	Barraca, corrugated	8.5	3.5	29.8	46.00	1,368.50	
H80D	Cassimo Rachide	Barraca, corrugated	4.0	2.8	11.2	46.00	515.20	
H81D	Amini	Barraca, brick, corrugated	5.1	3.6	18.3	50.00	912.90	
H81D	Maguigusane	Barraca, corrugated	5.5	3.6	19.6	46.00	902.52	
H83E	Ahamade Buana	Barraca, brick, corrugated	4.4	3.4	15.0	50.00	748.00	
H84E	Santos Sanudi	Barraca, brick, corrugated	3.4	3.0	10.1	50.00	505.50	
H85E	Muhamade Swale	Barraca, brick, corrugated	3.9	4.5	17.6	50.00	877.50	
H86E	Africa	Barraca, brick, corrugated	3.2	3.7	11.7	50.00	582.75	
H94E	Xavier Adamo	Bar, thatched	8.4	4.2	35.3	50.00	1,764.00	
	XXXX	Barraca, mud, thatched	4.0	3.4	13.6	46.00	625.60	
					182.0		33,432.47	

LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
P25E	Rajabo Abasse	Barraca, brick, corrugated	6.2	5.0	31.0	50.00	1,550.00	
P26E	Mustafo Momade	Barraca, brick, corrugated	2.5	2.0	5.0	50.00	250.00	
P27E	Guido Rajabo	Barraca, brick, corrugated	2.9	2.1	6.1	50.00	304.50	
P28E	Rosa Alimo	Barraca, brick, corrugated	3.1	2.5	7.8	50.00	387.50	
P29E	Abrao Capungua	Barraca, brick, corrugated	3.1	2.5	7.8	50.00	387.50	
P30E	Fracio Momade	Barraca, brick, corrugated	3.0	2.6	7.8	50.00	390.00	
D0008D	Daude Jamal	Barraca, brick, corrugated	9.0	5.0	45.0	50.00	2,250.00	
D0009D	Adaue Magido	Barraca, brick, corrugated	9.7	3.9	37.8	50.00	1,891.50	
D00010D	Daudo Esfalo	Barraca, brick, corrugated	9.6	5.6	53.8	50.00	2,688.00	
D00011D	Cássio	Barraca, brick, corrugated	4.2	5.2	21.8	50.00	1,092.00	
D00012D	Sumaila	Barraca, brick, corrugated	3.6	5.7	20.5	50.00	1,026.00	
					244.3		12,217.00	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
F0010D	Matilde Leonardo						8000.00	
							8000.00	
	a1	Barraca, Brick , Corrugated	11.6	11.2	129.92	50.00	6,496.00	Concrete
	a2	Barraca, Brick , Corrugated	2.5	2.0	5	50.00	250.00	Concrete
	a3	Barraca, Brick , Corrugated	6.0	3.0	18	50.00	900.00	under construction
	a4	Barraca, Brick , Corrugated	5.5	4.0	22	50.00	1,100.00	
					174.9		24,746.00	

LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
DL12D		Barraca, Brick, corrugated	4.0	3.0	12.0	50.00	600.00	
		Barraca, Brick, corrugated	4.0	2.0	8.0	50.00	400.00	
DL27E	Samila Saide	Barraca, Brick, corrugated	3.0	3.0	9.0	50.00	450.00	
DL29E	Assiene Jafar	Barraca, Brick, corrugated	3.0	4.0	12.0	50.00	600.00	
		Barraca, Brick, corrugated	3.0	3.0	9.0	50.00	450.00	
		Barraca, Brick, corrugated	2.0	2.0	4.0	50.00	200.00	
DL30E		Barraca, Brick, corrugated	4.0	4.0	16.0	50.00	800.00	
DL31E	Mariato Adamo	Barraca, Brick, corrugated	4.0	4.0	16.0	50.00	800.00	
		Barraca, Brick, corrugated	4.0	2.0	8.0	50.00	400.00	
		Barraca, Brick, corrugated	2.0	2.0	4.0	50.00	200.00	
DL32E	Mariato Mustafa	Barraca, Brick, corrugated	5.0	5.0	25.0	50.00	1,250.00	
		Barraca, Brick, corrugated	3.0	2.0	6.0	50.00	300.00	
		Barraca, Brick, corrugated	6.0	5.0	30.0	50.00	1,500.00	
		Barraca, Brick, corrugated	2.0	2.0	4.0	50.00	200.00	
		Barraca, Brick, corrugated	1.5	1.5	2.3	50.00	112.50	
DL33E	Saize Dinala	Barraca, Brick, corrugated	5.0	5.0	25.0	50.00	1,250.00	
DL34E		Barraca, Brick, corrugated	3.0	4.0	12.0	50.00	600.00	
DL35E		Barraca, Brick, corrugated	3.0	3.0	9.0	50.00	450.00	
DL36E		Barraca, Brick, corrugated	6.0	4.0	24.0	50.00	1,200.00	
DL37E	Isabel Omar	Barraca, Brick, corrugated	4.0	3.0	12.0	50.00	600.00	

DL38E		Barraca, Brick, corrugated	8.0	8.0	64.0	50.00	3,200.00	absent
D39E	Mauridi Botao	Barraca, Brick, corrugated	5.0	4.0	20.0	50.00	1,000.00	
		Barraca, Brick, corrugated	8.0	4.0	32.0	50.00	1,600.00	
		Barraca, Brick, corrugated	3.0	2.0	6.0	50.00	300.00	
		Barraca, Brick, corrugated	2.0	2.0	4.0	50.00	200.00	
					373.3		18,662.50	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
P36D	Aly Cahibo	Barraca, brick, corrugated	37.5	10.0	375.0	50.00	18,750.00	
P46D	Cassimo Mussa	Barraca	4.0	4.5	18.0	46.00	828.00	
					393.0		19,578.00	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
D13D	Sualehe	Barraca, brick, corrugated	6.2	7.0	43.4	50.00	2,170.00	
D15D	Size	Barraca	2.1	4.0	8.4	46.00	386.40	
D16D	Quimo Leman	Barraca	5.0	6.0	30.0	46.00	1,380.00	
D17D	Jawado Saide	Barraca	5.4	6.1	32.9	46.00	1,515.24	
D18D	Mussa Mustafa	Barraca	7.0	3.1	21.7	46.00	998.20	
D3E	Chauriaco Victor	Barraca	7.8	5.8	45.2	46.00	2,081.04	
D5E		Barraca	15.1	6.1	92.1	46.00	4,237.06	
		Barraca	4.2	4.8	20.2	46.00	927.36	
D6E	Mateus Saide	Barraca	4.8	6.4	30.7	46.00	1,413.12	
D7E	Amido	Barraca	3.4	3.4	11.6	46.00	531.76	

D8E	Assilage	Barraca	3.2	4.7	15.0	46.00	691.84	
					351.3		16,332.02	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
F40D	Fátima Carlos	Barraca, brick, corrugated	5.0	4.1	20.5	50.00	1,025.00	
F41E	Romão Paulo	Restaurant, brick, corrugated	9.9	5.6	55.4	50.00	2,772.00	
		Barraca, brick, corrugated	7.4	5.0	37.0	50.00	1,850.00	
		Bar, brick, thatched	10.7	5.0	53.5	46.00	2,461.00	
					166.4		8,108.00	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
F55D	Jafar Awalo	Barraca, mud, thatched	4.3	3.1	13.3	46.00	613.18	
F56D	Andre Singano	Barraca, mud, thatched	3.0	2.0	6.0	46.00	276.00	
F62D	Rafael Mário	Barraca, mud, thatched	4.0	2.2	8.8	46.00	404.80	
F63D	Elias Andihoxe	Barraca, mud, thatched	2.3	2.2	5.1	46.00	232.76	
F60E	Lucas Tomas	Barraca, mud, thatched	4.4	3.2	14.1	46.00	647.68	
F61E	Luciano Pedro	Barraca, mud, thatched	6.8	5.1	34.7	46.00	1,595.28	
					82.0		3,769.70	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
F75D	Comered Talamombe	Barraca, brick, corrugated	3.0	2.5	7.5	50.00	375.00	
F76D	Júlia Faque	Barraca, brick, corrugated	3.0	2.5	7.5	50.00	375.00	
F66E	Patricio Jaime	Barraca, brick, corrugated	5.0	4.0	20.0	50.00	1,000.00	
F67E	Armando Wairesse	Club, mud, thatched	9.0	4.0	36.0	46.00	1,656.00	

					56.0		3,406.00	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
F77D	Raibo Maldade	Barraca, mud, thatched	4.6	4.0	18.4	46.00	846.40	
F81D	Fernando Mário	Barraca, mud, thatched	4.0	2.5	10.0	46.00	460.00	
F82D	Jaime Meque	Barraca, brick, corrugated	3.7	2.0	7.4	50.00	370.00	
F84E	Lemos Mwinama	Barraca, mud, thatched	2.8	2.5	7.0	46.00	322.00	
					42.8		1998.40	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
P9D	Frank Sabite	Mud, thatched	7.0	5.0	35.0	46.00	1,610.00	
P10D	António Saide	Brick, corrugated	7.6	6.1	46.4	50.00	2,318.00	
P11D	Eugénio Saide	Brick, corrugated	8.0	6.0	48.0	50.00	2,400.00	
P13D	António Issa	Brick, corrugated	7.0	6.0	42.0	50.00	2,100.00	
P14D	Mussa Cassamo	Mud, thatched	7.0	6.0	42.0	46.00	1,932.00	
P12D	Hussen Cassamo	Mud, thatched	6.4	3.0	19.2	46.00	883.20	
P8E	Yahaia Mukwaia	Brick, thatched	6.0	4.0	24.0	46.00	1,104.00	
P19E	Sumane Nganga	Mud, thatched	4.0	4.0	16.0	46.00	736.00	
P22E	Ncuanda	Mud, thatched	3.5	3.2	11.2	46.00	515.20	
P24E	Frank Afia	Mud, thatched	5.3	5.0	26.5	46.00	1,219.00	
					310.3		14,817.40	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
F6D	Manuel M. Alifa	Barraca, brick, corrugated	4	4	16	50.00	800.00	

LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
D67D	Hermínio Tomo	Barraca, (Mud, Thatched)	4	3.5	14	46.00	644.00	
D68D	Feliciano Jemussane	Barraca (Mud, Thatched)	5	4	20	46.00	920.00	
D71D	Desconhecido	Barraca (Mud, Thatched)	3	3	9	46.00	414.00	
D85E	João Mirion	Barraca (Mud, Thatched)	3	2.5	7.5	46.00	345.00	
D86D	Alfredo Bartolomeu	Video club (Mud, Thatched)	3.5	3	10.5	46.00	483.00	
					61		2806.00	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
D100E	Mussa Madjessu	Barraca (Brick, Corrugated)	6	3	18	50.00	900.00	
D103D	Rogério Manuel	Barraca (Mud, Thatched)	4	3	12	46.00	552.00	
D104D	Acida Sualehe	Barraca (Mud, Thatched)	7	3	21	46.00	966.00	
D105E	António Manuel	Mud, Thatched	3	2	6	46.00	276.00	
					57		2694.00	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
H1E	Jonadan	Barraca (Brick, Corrugated)	5.8	4.8	27.84	50.00	1392.00	
H4D	Yassine Djussa	Barraca (Mud, Thatched)	10.5	6	63	46.00	2898.00	
H5D	Marcelino	Barraca (Mud, Thatched)	6	6	36	46.00	1656.00	
H8D	Saide Abubacar	Barraca (Brick, Corrugated)	13	5.4	70.2	50.00	3510.00	

		Barraca (Brick, Corrugated)	4.7	3.6	16.92	50.00	846.00	
H9D	Luisa Riquissa	Barraca (Brick, Corrugated)	11.5	3.7	42.55	50.00	2127.50	
H10D	Unherath	Barraca (Brick, Corrugated)	4.5	4.2	18.9	50.00	945.00	
H11D	Dinatha	Barraca (Brick, Corrugated)	4.7	4	18.8	50.00	940.00	
H12E	Calb Usseni	Armazem (Brick, Corrugated)	15	8.4	126	50.00	6300.00	
H13E	Batone Galimoto	Barraca (Brick, Corrugated)	2.5	5.7	14.25	50.00	712.50	
H14E	Agostinho Saimon	Barraca (Brick, Corrugated)	5.7	4.7	26.79	50.00	1339.50	
H15D	Salimo	Barraca (Brick, Corrugated)	6	4	24	50.00	1200.00	
H16D	Diness Nando	Barraca (Brick, Corrugated)	4	3.5	14	50.00	700.00	
H17D	Jhon Aly	Barraca (Brick, Corrugated)	6.3	3.3	20.79	50.00	1039.50	
		Mud, Corrugated	5.8	9.6	55.68	46.00	2561.28	
H20D	Momade Júlio	Barraca (Brick, Corrugated)	5.5	4.3	23.65	50.00	1182.50	
H21D	Rajabo Rafael	Barraca (Brick, Corrugated)	5.5	2.2	12.1	50.00	605.00	
H22E	Rachidi	Barraca (Brick, Corrugated)	2.2	2.4	5.28	50.00	264.00	
H23E		Barraca (Brick, Corrugated)	2.3	3	6.9	50.00	345.00	
H24E	Suma	Barraca (Mud, Thatched)	5	5.6	28	46.00	1288.00	
H25D	Agostinho	Barraca (Brick, Corrugated)	6	7.5	45	50.00	2250.00	
H26D	Nelson Aristides	Barraca (Brick, Corrugated)	2.6	4.9	12.74	50.00	637.00	
H27D	Zildro	Barraca (Brick, Corrugated)	2.4	3.8	9.12	50.00	456.00	
H28D	Martinho	Barraca (Mud, Thatched)	4	5.6	22.4	46.00	1030.40	

H29D	Horácio Agostinho	Barraca (Mud, Thatched)	3	5.4	16.2	46.00	745.20	
		Barraca (Mud, Thatched)	5.6	5	28	46.00	1288.00	
		Barraca (Mud, Thatched)	2.9	4.9	14.21	46.00	653.66	
H30D	Juatino Luiz	Barraca (Brick, Corrugated)	3.2	8	25.6	50.00	1280.00	
H32D	Paulino Sement	Barraca (Mud, Thatched)	3	3.3	9.9	46.00	455.40	
H34E	Silva T. Watata	salao-cabeleireiro (Brick, Thatched)	12	8	96	46.00	4416.00	
H36D		Barraca (Brick, Corrugated)	7.8	4	31.2	50.00	1560.00	
H38E	Adolfo José	Barraca (Brick, Corrugated)	3.2	4	12.8	50.00	640.00	
H39D	Santos Alvaro	Barraca (Brick, Corrugated)	3.2	4	12.8	50.00	640.00	
H40	Augusto Ambrosio	Barraca (Brick, Corrugated)	11.3	3	33.9	46.00	1559.40	
H41E	Feleciano	Barraca (Brick, Corrugated)	3.3	3	9.9	50.00	495.00	
H42E	Almeida Vaquina	Barraca (Mud, Thatched)	6	2	12	46.00	552.00	
H43E	Baptista	Barraca (Brick, Corrugated)	3.3	3	9.9	50.00	495.00	
					1053.32		51004.84	
			TOTAL		3563.5		214,372.33	

Appendix 4 Affected Maize Stores

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Remarks
						US\$	US\$	
LUMBI (ISSA) VILLAGE : LICHINGA DISTRICT								
D2E	Sipaguedje Amini	Mud, thatched	2	2	4.0	2.00	8.00	
D4E	White Assane	Mud, thatched	2	2	4.0	2.00	8.00	
		Mud, thatched	2	2	4.0	2.00	8.00	
D5E	Ndala Omar	Mud, thatched	2	2	4.0	2.00	8.00	
		Mud, thatched	2	2	4.0	2.00	8.00	
		Mud, thatched	2	2	4.0	2.00	8.00	
		Mud, thatched	2	2	4.0	2.00	8.00	
D18E	Ângela Jawadu	Mud, thatched	5.1	5.1	26.0	2.00	52.02	
D23E	Domingos Machava	Mud, thatched	3	3	9.0	2.00	18.00	
		Mud, thatched	2	2	4.0	2.00	8.00	
D24E		Mud, thatched	2	2	4.0	2.00	8.00	
		Mud, thatched	2	2	4.0	2.00	8.00	
D25E		Mud, thatched	2	2	4.0	2.00	8.00	

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Remarks
					79.0		158.02	
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT								
H0001D		Mud, thatched	4.2	4.2	17.64	2.00	35.28	
H00016E	Lúcia Abudo	Mud, thatched	1.7	1.7	2.89	2.00	5.78	
H00027E	Saujat Filale	Mud, thatched	4	4	16	2.00	32	
H00030E	Amussa Mustafa	Mud, thatched	2	2	4	2.00	8	
H00032E	Amado Caissi	Mud, thatched	2	2	4	2.00	8	
H00037E	Anafe Cilale	Mud, thatched	3	3	9	2.00	18	
H0038D	Mariato Cazembe	Mud, thatched	4.2	4.2	17.64	2.00	35.28	
H0039D	Lameque	Mud, thatched	2	2	4	2.00	8	
H55E	Aly Assido	Mud, thatched	3	2	6	2.00	12	
H57E	Ussene	Mud, thatched	3	3	9	2.00	18	
H61E	Rongela	Mud, thatched	3	3	9	2.00	18	
H77D	Brandao	Mud, thatched	9	2	18	2.00	36	
					117.17		234.34	
MACHEMBA (MPONDE) VILLAGE : LICHINGA								
	k1	Thatched	2	2	4	2.00	8.00	
			1.5	1.5	2.25	2.00	4.50	
	k2	Thatched	2	2	4	2.00	8.00	
					10.25		20.50	
MANDIMBA (CONGERENGE) VILLAGE : MANDIMBA DISTRICT								

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m ²)	Rate	Cost	Remarks
F80D	Manuel Samuel	Thatched	4.2	2.1	8.82	2.00	17.64	
TOTAL					215.25		430.50	

Appendix 5 Affected Toilets

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m ²)	Rate	Cost	Remarks
LUMBI (BAIRRO ISSA) VILLAGE : LICHINGA DISTRICT								
D1E	Massala Ali	Mud, thatched	2.0	2.0	4.0	2.00	8.00	
D5E	Ndala Omar	Mud, thatched	4.0	4.0	16.0	2.00	32.00	
					20.0		40.00	
LUMBI (BAIRRO LUMBI) VILLAGE : LICHINGA DISTRICT								
H00021D	Falelo Cabichi	Mud, thatched	3.4	2.7	9.2	2.00	18.36	
H00028E		Mud, thatched	2.0	3.0	6.0	2.00	12.00	
H0038D	Mariato Cazembe	Mud, thatched	3.6	3.2	11.5	2.00	23.04	
H0040D	Aua Caissi	Mud, thatched	2.0	2.5	5.0	2.00	10.00	
H57E	Ussene	Mud, thatched	2.8	3.7	10.2	2.00	20.35	
H59E	Jafar Amassi	Mud, thatched	3.0	3.0	9.0	2.00	18.00	
H60E	Boma	Mud, thatched	6.8	4.1	27.8	2.00	55.57	
					78.7		157.32	
(LULIMILE) VILLAGE : LICHINGA DSTRIC								
	w1	Brick, Corrugated	3.0	2.1	6.3	3.00	18.90	
	w2	Mud, Thatched	3.0	2.5	7.5	2.00	15.00	
	w3	Mud, Thatched	2.5	2.0	5.0	2.00	10.00	
	w4	Brick, Corrugated	3.2	2.2	7.0	3.00	21.12	
	w5	Brick, Corrugated	3.2	2.8	9.0	3.00	26.88	cement
	w6	Mud, Thatched	3.0	3.0	9.0	2.00	18.00	
	w7	Mud, Thatched	4.0	3.0	12.0	2.00	24.00	
	w8	Mud, Thatched	3.0	3.0	9.0	2.00	18.00	
	w9	Brick, Corrugated	3.0	2.0	6.0	3.00	18.00	

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m²)	Rate	Cost	Remarks
	w10	Mud, Thatched	2.0	2.0	4.0	2.00	8.00	
	w11	Mud, Thatched	3.0	3.0	9.0	2.00	18.00	
					83.8		195.90	
MANDIMBA (CHIKWENGA) VILLAGE : MANDIMBA DISTRICT								
F35D	Rafael Jafar	Mud, thatched	5.0	2.5	12.5	2.00	25.00	
F37E	António Manuel	Mud, thatched	3.0	2.0	6.0	2.00	12.00	
							37.00	
MANDIMBA (JUNTA) VILLAGE : MANDIMBA DISTRICT								
F7D	Hawa Mwapwexiwa	Mud, thatched	3.0	2.0	6.0	2.00	12.00	
F14E	Joaquim Toquela	Mud, thatched	4.0	3.0	12.0	2.00	24.00	
					18.0		36.00	
					200.46		466.22	

Appendix 6 Affected Mosques

ID	Name	Description	Length	Width	Area (m ²)	Rate (US\$)	Total (US\$)
LUMBI (ISSA) VILLAGE : LICHINGA DISTRICT							
D7E	Diquissone Amine	Mud, thatched	7.4	4.4	32.6	47.00	1,530.32
MACHEMBE (USSENE) VILLAGE : LICHINGA DISTRICT							
P14D	Gabriel Tahuba	Brick, corrugated	7.0	5.0	35.0	53.00	1,855.00
Total					68		3,385.32

Appendix 7 Affected Poultry Coop

ID	Name	Description	Length	Width	Area (m ²)	Rate (US\$)	Total (US\$)
(LUMBI) VILLAGE : LICHINGA DISTRICT							
H00027E	Saujat Filale	Mud, thatched	2.7	1.8	4.8	2.0	9.58
H66E	Amade Muamed	Mud, thatched	3.0	3.0	9.0	2.0	18.00
Total					13.79		27.58

Appendix 8 Affected wells

ID	Name	Radius (M)	π	Depth	Area (m ²)	Rate (US\$)	Total (US\$)
(LUMBI) VILLAGE : LICHINGA DISTRICT							
H00028E		0.5	3.14	12.0	9.0	25.00	225.00

Appendix 9 Affected Compound/yard

ID	Name	Length	Width	Area (m2)	Rate (US\$)	Total (US\$)	Remarks
D22E	Tuaibo Saide	16.0	6.0	96.0	3.00	288.00	Grass fencing
LUMBI (LUMBI) VILLAGE : LICHINGA DISTRICT							
H0001D		6.8	7.0	47.6	2.00	95.20	
H00021D	Falelo Cabichi	21.4	20.3	435.2	2.00	870.46	
H00027E	Saujat Filale	16.0	2.0	32.0	2.00	64.00	
H00028E		16.0	15.5	247.5	2.00	495.04	
H00033E	Mustafa Amado	14.3	16.5	236.0	2.00	471.90	
H00034E		10.6	7.0	74.2	2.00	148.40	

ID	Name	Length	Width	Area (m2)	Rate (US\$)	Total (US\$)	Remarks
H00037E	Anafe Cilale	15.0	7.0	105.0	2.00	210.00	
H0042D		16.0	7.0	112.0	2.00	224.00	
H0044D		18.0	22.1	397.8	2.00	795.60	
H0045D		9.3	9.3	86.5	2.00	172.98	
H0046D	Zacarias Saide	19.9	18.0	358.2	2.00	716.40	
H53E		12.5	10.3	128.8	2.00	257.50	
H55E	Aly Assido	3.0	3.0	9.0	2.00	18.00	
H60E	Boma	12.3	10.3	127.1	2.00	254.20	
H66E	Amade Muamed	14.3	3.6	51.4	2.00	102.82	
H00069E	Omar Iassido	15.0	14.8	222.0	2.00	444.00	
H00071E		16.0	8.0	128.0	2.00	256.00	
H75D	Laitone Buana	16.9	23.2	391.4	2.00	782.77	
H76D	Cassimo	14.9	12.7	189.2	2.00	378.46	
H78D	Rapolo	11.7	13.7	160.3	2.00	320.58	
H87D	Salimo	15.0	12.9	193.5	2.00	387.00	
H90D	Malawi	13.0	11.5	149.5	2.00	299.00	
H93D	Awa Quimo	3.2	3.0	9.6	2.00	19.20	
D23D	Magido Mustafa	16.0	10.0	160.0	3.00	480.00	Made of grass
D25E	Adelia Chechane	23.0	7.0	161.0	2.00	322.00	

ID	Name	Length	Width	Area (m2)	Rate (US\$)	Total (US\$)	Remarks
F86D	Luisa Meponda	4.0	80.0	320.0	3.00	960.00	Made of grass
F120E		30.0	10.0	300.0	3.00	900.00	Made of grass
			Subtotal	4,832.8		10,445.5	
(LULIMILE) VILLAGE : LICHINGA DISTRICT							
F0002D	Rosa Isabel Samuel	7.2	6.6	47.5	3.00	142.56	Made of grass
F0003D	Gomes Sinova	20.0	17.4	348.0	2.00	696.00	
F0010D	Matilde Leonardo	20.0	14.0	280.0	3.00	840.00	Made of grass
F0011D	Anunsa Saide	17.0	13.0	221.0	3.00	663.00	Made of grass
F0012D	Celina Leonardo	16.0	13.0	208.0	3.00	624.00	Made of grass
F0013D	Saide Mauridi	16.0	15.0	240.0	3.00	720.00	Made of grass
F0014D		22.0	14.0	308.0	3.00	924.00	Made of grass
F0015D	Horado Vaheque	19.0	15.0	285.0	3.00	855.00	Made of grass
F0016D	Amidi B. Omar	27.0	26.0	702.0	3.00	2,106.00	Made of grass
F21D	Lidia António	18.0	17.0	306.0	3.00	918.00	Made of grass
F25D	Amissi Amado	18.0	14.0	252.0	3.00	756.00	Brick and mortar
F26D	Taira Saine	18.0	10.0	180.0	3.00	540.00	Made of grass
F27D	Dina Lucia	11.9	10.0	119.0	3.00	357.00	Made of grass
F28D	Luis Selemene	20.0	10.0	200.0	3.00	600.00	Made of grass
F30D		12.7	10.0	127.0	3.00	381.00	Made of grass

ID	Name	Length	Width	Area (m2)	Rate (US\$)	Total (US\$)	Remarks
F31D	Manuel Wilson	20.0	16.0	320.0	3.00	960.00	Brick and mortar
F33D	Joana Aly	12.0	10.0	120.0	3.00	360.00	Brick and mortar
F37D	Carlos Saide	18.0	15.0	270.0	3.00	810.00	Made of grass
F38D	Amado Bacar	15.0	13.0	195.0	3.00	585.00	Made of grass
F40D	Raposo Gustavo	19.0	16.0	304.0	3.00	912.00	Made of grass
F41D	Ingles Jemusse	15.0		-	3.00	-	Brick e mortar
F42E	Ali Cassimo	21.0	19.0	399.0	3.00	1,197.00	Made of grass
F43E	Caisse Jafar	15.0	10.0	150.0	3.00	450.00	Made of grass
				5,581.5		16,396.56	
MASSANGULO (NKALAPA) VILLAGE : NGAUMA DISTRICT							
D0002E	Dalila	20.0	7.0	140.0	3.00	420.00	
MASSANGULO (MAGHIPA) VILLAGE : NGAUMA DISTRICT							
P44D	Calia Assiqui	12.0	6.0	72.0	3.00	216.00	
(CHIKWENGA) VILLAGE : MANDIMBA DISTRICT							
F33D	Luis Calunga	21.0	12.2	256.2	2.00	512.40	
F34D	Cassimo Sande	20.0	14.0	280.0	2.00	560.00	
F42D	Mbela Pedro	37.7	5.0	188.5	3.00	565.50	In Brick
F45D	Paulo W. Jemusse	40.0	6.0	240.0	3.00	720.00	In concrete
F46D	Administração de Mandimba	55.5	5.0	277.5	3.00	832.50	In concrete

ID	Name	Length	Width	Area (m2)	Rate (US\$)	Total (US\$)	Remarks
F37E	António Manuel	30.0	30.0	900.0	2.00	1,800.00	
F38E	Victoria Sinoa	36.0	12.0	432.0	2.00	864.00	
				2574.2		5854.4	
(DADAUTA) VILLAGE : MANDIMBA DISTRICT							
F75D	Comered Talamombe	27.0	2.5	67.5	3.00	202.50	Made of grass
F76D	Júlia Faque	23.0	3.0	69.0	3.00	207.00	Made of grass
F77D	Raibo Maldade	12.0	9.5	114.0	3.00	342.00	Made of grass
F69E	Moz Leaf Tabaco	9.7	4.0	38.8	3.00	116.40	Made of sticks
F72E	Eduardo Wilson	17.2	16.2	278.6	3.00	835.92	Made of grass
F73E	Vasco António	14.0	2.4	33.6	3.00	100.80	Made of grass
F83E		14.0	11.0	154.0	3.00	462.00	Made of grass
	Esc. Dadauta EP1	30.0	15.0	450.0	3.00	1,350.00	Fencing
	Es. P. Mina	30.4	15.0	456.0	3.00	1,368.00	Fencing
			Subtotal	1,661.5		4,984.62	
MISSISSI (MABANDE/MISSISSI) VILLAGE : MANDIMBA							
F149D	António Matias	6.0		-	3.00	-	Made of bricks
F159D	EPC Mississi	30.0	10.0	300.0	3.00	900.00	Made of sticks
F134E	Saide Alane	23.0	7.0	161.0	3.00	483.00	Made of grass
F140E	Leonora Agostinho	14.0	12.0	168.0	3.00	504.00	Made of grass

ID	Name	Length	Width	Area (m2)	Rate (US\$)	Total (US\$)	Remarks
			Subtotal	629.0		1,887.0	
(JUNTA) VILLAGE : MANDIMBA DISTRICT							
F2D	Estango Fernando	16.0	16.0	256.0	3.00	768.00	
F7D	Hawa Mwapwexiwa	18.0	18.0	324.0	3.00	972.00	
F25D	Victor M. Braz	25.7	16.0	411.2	3.00	1,233.60	
F26D	Ali Bwanaali	39.0	15.0	585.0	3.00	1,755.00	
F14E	Joaquim Toquela	17.4	13.3	231.4	3.00	694.26	
			Subtotal	1,807.6		5,422.9	
MEPICA (BAIRRO MATHUANE) VILLAGE : CUAMBA DISTRICT							
D62D	Valentino Boma	12	5	60	3.00	180	Mud, thatched
D66D	Momade Saize	20	6	120	3.00	360	Mud, thatched
		12	4	48	3.00	144	Mud, thatched
						684	
(BAIRRO MEPICA) : CUAMBA DISTRICT							
Km 56,6D	MLT	70	3	210	3.00	630	Brick, corrugated
Km 56,7E	Escola	70	3	210	3.00	630	Mud, thatched
						1260	
				TOTAL		47,858.95	

Appendix 10 Affected Kraals

NAME OF VILLAGE: LUMBI (LUMBI)				NAME OF DISTRICT: LICHINGA		
ID	Name	Length	Width	Area (m ²)	Rate (US\$)	Total (US\$)
H00015E	Mariamo Jemussi	4.0	3.8	15.3	2	30.56

Appendix 11 Affected Trees

ID	Name of owner	Type of trees	Diameter	Qty	Rate (US\$)	Total (US\$)	Remarks
(ISSA) VILLAGE : LICHINGA DISTRICT							
D2E	Sipaguedje Amini	Fruteira		1	14.07	14.07	Massuco, 4 Anos
D4E	White Assane	Fruteira		1	14.07	14.07	Nespereira, 3 Anos
DE5	Ndala Omar	Fruteira		1	14.07	14.07	Massuco de Malawi, 8 Anos
DE7	Diquissone Amine	Fruteira		1	14.07	14.07	Massuco de Malawi, 7 Anos
D8E	Inácia Diquissone	Fruteira		1	39.46	39.46	Mangueira, 10 Anos
D15E		Fruteira		1	14.07	14.07	Pessegueiro, 7 Anos
D17E		Fruteira		1	14.07	14.07	Massuco de Malawi, 5 Anos
D19E		Fruteira		2	14.07	28.14	Pessegueiro, < 10 Anos
DE20	Apiti Mustafa	Fruteira		1	14.07	14.07	Massuco de Malawi, <10 Anos

ID	Name of owner	Type of trees	Diameter	Qty	Rate (US\$)	Total (US\$)	Remarks
DE21	Adjangala Amane	Fruteira		2	14.07	28.14	Papaeira e Nespera, >10 Anos
D23E	Domingos Machava	Fruteira		1	39.46	39.46	Mangueira, <10 Anos
D26E	Afati Mussa	Fruteira		2	14.07	28.14	Limoeiro e Pessegueiro, <2 Anos
				15.00		261.86	
(LUMBI) VILLAGE: LICHINGA							
H73D	Buanar	Pessegueiro		1	14.07	14.07	1 Ano
		Abacateira		1	36.43	36.43	7 meses
				2.00		50.50	
(LULIMILE): LICHINGA DISTRICT							
F0001D	Osvaldo Samuel	Pinheiros		13	58.07	754.93	1,90m3, 30 anos
F0003D	Gomes Sinova	arvores de fruta		3	36.43	109.29	3 anos
		Bananeiras		31	0.44	13.65	4 anos
F0009D	Amabo Rachide	Pinheiros		8	58.07	464.57	1,70m3, 30 years
F0013D	Saide Mauridi	Fruteiras		2	14.07	28.14	4 anos
F0014D		Fruteiras		2	14.07	28.14	3 anos
F0015D	Horado Vaheque	Fruteiras		3	14.07	42.21	3 anos
F24D	Ilda Anuncha	Fruteiras		1	14.07	14.07	4 anos

ID	Name of owner	Type of trees	Diameter	Qty	Rate (US\$)	Total (US\$)	Remarks
F46E	Agricultura	Pinheiros		325	58.07	18,873.21	2,2m3, 30 anos
F47D	Agricultura	Pinheiros		332	58.07	19,279.71	2,2m4, 30 anos
				720		39,607.94	
MACHEMBE (USSENE) VILLAGE: LICHINGA DISTRICT							
M1E	Madala Adamo	Pinheiro		6	58.07	348.43	km 21+300
		Mangueiras		4	39.46	157.86	
		Massuco		2	14.07	28.14	
		Pessegueiros		6	39.46	236.79	
P12D	Angelina	Larangeiras		3	39.46	118.39	27+800
		Pessegueiros		5	14.07	70.36	
P13D	Maria Benesse	Larangeiras		2	39.46	78.93	
		Abacateira		1	36.43	36.43	
		Limoeiro		1	36.43	36.43	
		Pessegueiros		1	14.07	14.07	
				31		1,125.82	
MACHEMBE (NTAPASA) VILLAGE : LICHINGA DISTRICT							
G14D	Gabriel Talemberta	Massuco		1	14.07	14.07	17cm, 4anos
		Laranjeira		1	39.46	39.46	13cm, 5anos

ID	Name of owner	Type of trees	Diameter	Qty	Rate (US\$)	Total (US\$)	Remarks
		Mangueira		1	39.46	39.46	14cm, 2anos
				3.00		93.00	
MACHEMBA (MPONDE) : LICHINGA DISTRICT							
DL010D	Mapine Matumula	Fruteira		4	14.07	56.29	1 ano
DL012D	Saina Manuel	Pessegueiro		1	14.07	14.07	1 ano
DL28D	Basilio Magido	Massuco		8	14.07	112.57	1 ano
DL019E	Mário Mandoa	Pessegueiro		3	14.07	42.21	5 anos
DL39E	Maurudi Butão	Pessegueiro		1	14.07	14.07	3 anos
DL40E	Rafael lassine	Massuco		7	14.07	98.50	7 anos
		Mespera		1	14.07	14.07	7 anos
		Massala		1	14.07	14.07	8 anos
				26		365.86	
LUAGALA (NUNGU'S) VILLAGE : NGAUMA							
D22E	Tuaibo Saide	Fruteira		2	14.07	28.14	10 anos, Massuco
		Fruteira		1	39.46	39.46	10 anos, Mangueira
D24E		Fruteira		1	39.46	39.46	10 anos, Mangueira
				4		107.07	
MANDIMBA (NAUCHECHE/MUITA) VILLAGE : MANDIMBA DISTRICT							

ID	Name of owner	Type of trees	Diameter	Qty	Rate (US\$)	Total (US\$)	Remarks
F57	Rafael Nipururu	Eucaliptos		4	36.43	145.71	4 anos, 0,5m3
F49D	Rafael Danga	Mangueira		1	39.46	39.46	20 anos, 1.2m3
F51D	Teresa Rajabo	Mangueiras		3	39.46	118.39	30 anos, 2m3
F54D	Mateus Chaibu	Mangueiras		4	39.46	157.86	30 anos, 2m3
F52E	Jaime Sale	Mangueiras		2	39.46	78.93	30 anos, 2m3
F53E	Inácio Agostinho	Mangueiras		12	39.46	473.57	30 anos, 2m3
	Ngunga Ngumila	Fruteiras		5	14.07	70.36	10 anos, 1.3m3
				31		1,084.29	
MANDIMBA (DADAUTA) VILLAGE : MANDIMBA DISTRICT							
F74D	Mina Maua	Acacias		23	36.43	837.86	5 anos, 0,4m3
F69E	Moz Leaf Tabaco	Acacias		26	36.43	947.14	3 anos, 0.5m3
				49		1785.00	
MISSISSI (MISSISSI/MABANDE) VILLAGE : MANDIMBA							
F143D	Horacio A. Silva	Eucaliptos		20	36.43	728.57	7 anos
F144D	Raul Gerazi	Eucaliptos		16	36.43	582.86	7 anos
F137E	Afonso Canivete	Mangueira		9	36.43	327.86	20 anos
F148E	Opuquia Widimane	Mangueira		4	36.43	145.71	25 anos
F158E	Inácio Mucoto	Mangueiras		6	36.43	218.57	30 anos, 0.9m3

ID	Name of owner	Type of trees	Diameter	Qty	Rate (US\$)	Total (US\$)	Remarks
				55		2,003.57	
(JUNTA) VILLAGE : MANDIMBA DISTRICT							
F1D	Wisky Fernado	Mangueiras		5	39.46	197.32	30 anos, 1.40m3
F2D	Estango Fernado	Mangueira		1	39.46	39.46	30 anos, 1.60m3
F3E	Caniva John	Mangueiras		3	39.46	118.39	30 anos, 1.20m3
F4D	Rafael Nocode	Mangueiras		8	39.46	315.71	23 anos, 0.97m3
F5D	Noe S. Janguia	Fruteiras		5	14.07	70.36	22 anos, 0.70m3
F7D	Hawa Mwapwexiwa	Bananeiras		154	0.44	67.83	30 anos, 154
		Mangueira		1	39.46	39.46	30 anos, 1.30m3
F8D	Saina Momade	Bananal		17	0.44	7.49	30 anos
F9D	Alberto A. Lupale	Limoeiros		2	36.43	72.86	9 anos
		Mangueiras		2	39.46	78.93	20 anos, 0.20m3
F12D	Estevão A. Majumuca	Bananal		60	0.44	26.43	20 anos
		Mangueiras		4	39.46	157.86	30 anos, 1.40m3
		Eucaliptos		2	36.43	72.86	6 anos, 0.9m3
F14E	Joaquim Toquela	Fruteiras		3	14.07	42.21	20 anos, 0.7m3
F16D	Juliana Saide	P. Ata		1	39.46	39.46	6 anos
F17E	Maria Tona	Mangueiras		20	39.46	789.29	19 anos, 0.6m3

ID	Name of owner	Type of trees	Diameter	Qty	Rate (US\$)	Total (US\$)	Remarks
F23D	Martins Fernado	Fruteiras		6	14.07	84.43	20 anos, 0.9m3
F25D	Victor M. Braz	Fruteiras		16	14.07	225.14	20 anos, 0.63m3
F26D	Ali Bwanaali	Fruteiras		16	14.07	225.14	13 anos, 0.6m3
				326		2,670.63	
MANDIMBA (CAMOTO) VILLAGE : MANDIMBA DISTRICT							
F47D	Maria Manuel	Bananeiras		100	0.44	44.04	30 anos
		Bananeiras		40	0.44	17.62	30 anos, sautente
				140		61.66	
CONGERENGE (CHIPA) VILLAGE : MANDIMBA							
F124D		Mangueiras		7	39.46	276.25	20 anos, ausente
F125E	Ganizane Amido	Eucaliptos		39	39.46	1539.10	9 anos
F127E	Jose Liuaia	Acacias		14	39.46	552.5	9 anos, 0,6m3
F132D	EP1 Musserepa	Acacias		100	39.46	3,946.43	7 anos, 0,6m4
				160		6,314.29	
MANDIMBA (NGAME) VILLAGE : MANDIMBA							
E		Mangueira		10	39.46	394.64	8 anos
		Acácia		3	36.43	109.29	6 anos
P1E		Mangueira		22	39.46	868.21	1.8 km

ID	Name of owner	Type of trees	Diameter	Qty	Rate (US\$)	Total (US\$)	Remarks
P2D		Mangueira		18	39.46	710.36	1.8 km
P4		Mangueira		4	39.46	157.86	2 anos, 3.6 km
D0002D	Mariana	Fruteira		1	14.07	14.07	<10 anos, massuco
				58		2,254.43	
CHIGUAJA (MACUVI) VILLAGE : NGAUMA							
	Desconhecida	Bananeira		60	0.44	26.43	66.4 km
	Desconhecida	Bananeira		50	0.44	22.02	66.6 km
				110		48.45	
MASSANGULO (MASSANGULO) VILLAGE : NGAUMA							
D/E		Eucalipto					78,9km
D/E		Eucalipto		3	36.43	109.29	80,8km
D/E		Mangueira		1	39.46	39.46	80.9
				4		148.75	
(MEPICA) VILLAGE : CUAMBA DISTRICT							
H73E	Evaristo Wilson	Bananeiras		100	0.44	44.04	5 anos
H81E	Daudo Yahana	acácias		4	36.43	145.71	3 anos
H86E	Ncova	Mangueiras		12	39.46	189.76	10 anos
				116			

ID	Name of owner	Type of trees	Diameter	Qty	Rate (US\$)	Total (US\$)	Remarks
			Total	1,850.00		58,172.87	

Appendix 12 Affected Graves

ID	NAME OF FAMILY WITH GRAVE	DESCRIPTION	RATE (US\$)	QUANTITY	COST (US\$)	REMARKS
LIONE (NSINGEUE) LICHINGA DISTRICT						
	Unknown	Earth	530.67	1	530.67	
	Unknown	Earth	530.67	1	530.67	
	Unknown	Earth	530.67	1	530.67	
	Unknown	Earth	530.67	1	530.67	
	Unknown	Earth	530.67	1	530.67	
	Unknown	Earth	530.67	1	530.67	
	Unknown	Earth	530.67	1	530.67	
				8	4245.40	
MANDIMBA (CHIKWENGA) VILLAGE : MANDIMBA DISTRICT						
F1E	Arlindo Jali	Brick	638.04	1	638.04	
F2E	Beside of Jali	Earth	530.67	1	530.67	

ID	NAME OF FAMILY WITH GRAVE	DESCRIPTION	RATE (US\$)	QUANTITY	COST (US\$)	REMARKS
F3E	Beside of Jali	Earth	530.67	1	530.67	
F4E	Jose Pereira Port	Brick	638.04	1	638.04	
F5E	Beside of Jose	Brick	638.04	1	638.04	
F6E	unidentified	Earth	530.67	1	530.67	
F7E	unidentified	Earth	530.67	1	530.67	
F8E	unidentified	Earth	530.67	1	530.67	
F9E	unidentified	Brick	638.04	1	638.04	
F10E	Unidentified	Brick	638.04	1	638.04	
F11E	Unidentified	Brick	638.04	1	638.04	
F12E	Unidentified	Earth	530.67	1	530.67	
F13E	Unidentified	Earth	530.67	1	530.67	
F14E	Fransico John	Brick	638.04	1	638.04	
F15E	Fransico John	Brick	638.04	1	638.04	
F16E	Fransico John	Brick	638.04	1	638.04	
F17E	Unidentified	Brick	638.04	1	638.04	
F18E	Unidentified	Earth	530.67	1	530.67	
F19E	unidentified	Earth	530.67	1	530.67	
F20E	Fernando Waison	Brick	638.04	1	638.04	

ID	NAME OF FAMILY WITH GRAVE	DESCRIPTION	RATE (US\$)	QUANTITY	COST (US\$)	REMARKS
F21E	Fernando Waison	Earth	530.67	1	530.67	
F22E	unidentified	Earth	530.67	1	530.67	
F23E	Rita Bartolomeu	Brick	638.04	1	638.04	
F24E	Fernando Waison	Earth	530.67	1	530.67	
F25E	unidentified	Earth	530.67	1	530.67	
				25	14555.21	
CHIGUAJA (MACUVI) VILLAGE : NGAUMA DISTRICT						
	Unknown	Earth	530.67	1	530.67	
	Unknown	Earth	530.67	1	530.67	
				2	1061.35	
MANDIMBA (JOHÓ/16) VILLAGE : MANDIMBA DISTRICT						
F26E	unidentified	Earth	530.67	1	530.67	30m/6c.ID
F27D	Ngunga Ngumila	Earth	530.67	1	530.67	14 graves
F28E	Rodrigues Surwag	Brick	638.04	1	638.04	3 graves
		Earth	530.67	1	530.67	25 graves
F74E	Mina Maua	Earth	530.67	1	530.67	35 graves
				5	2,760.74	
			Grand Total	40	22,622.70	

Appendix 13 Affected Gardens

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
								20%		
LIONE (NSINGEUE) VILLAGE : LICHINGA DISTRICT										
P24	Antonio Ngaunge	300.0	5.0	1,500.0	628.0	0.031	46.01	9.20	55.21	Maize
	Unknown	200.0	5.0	1,000.0	828.0	0.031	30.67	6.13	36.81	
	Unknown	700.0	5.0	3,500.0	129.0	0.031	107.36	21.47	128.83	
	Unknown	100.0	5.0	500.0	229.0	0.031	15.34	3.07	18.40	
	Unknown	200.0	5.0	1,000.0	731.0	0.031	30.67	6.13	36.81	
	Unknown	600.0	5.0	3,000.0	33.0	0.031	92.02	18.40	110.43	
	Unknown	800.0	5.0	4,000.0		0.031	122.70	24.54	147.24	
	Unknown	300.0	5.0	1,500.0	234.0	0.031	46.01	9.20	55.21	
	Unknown	200.0	10.0	2,000.0	348.0	0.031	61.35	12.27	73.62	
	Unknown	300.0	10.0	3,000.0	149.0	0.031	92.02	18.40	110.43	
M1E	Madala Adamo	800.0	30.0	24,000.0	321.0	0.031	736.20	147.24	883.44	

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
PS2	Saide Rajabo	600.0	30.0	18,000.0	423.0	0.031	552.15	110.43	662.58	
PB3D	Barada Assane	450.0	30.0	13,500.0	224.0	0.031	414.11	82.82	496.93	
PY4D	Yasside Mussa			-		0.031	0.00	0.00	0.00	
PA5E	Auwalo Aid	300.0	30.0	9,000.0	624.0	0.031	276.07	55.21	331.29	
PJ6E	Jorge Fernando			-		0.031	0.00	0.00	0.00	
P7E	Joaquim Cássimo	200.0	30.0	6,000.0	824.0	0.031	184.05	36.81	220.86	
		400.0	30.0	12,000.0	125.0	0.031	368.10	73.62	441.72	
				103,500.0	5,850.0		3174.85		3809.82	
MACHEMBA (MPONDE) : LICHINGA DISTRICT										
DL43D		110	5.0	550.0		0.031	16.87	3.37	20.25	Maize
DL45D		65	5.0	325.0		0.031	9.97	1.99	11.96	Maize
DL47D		50	4.0	200.0		0.031	6.13	1.23	7.36	Maize
DL49D		93	5.0	465.0		0.031	14.26	2.85	17.12	Cabbage
DL51D		43	4.0	172.0		0.031	5.28	1.06	6.33	Maize

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
DL52D		65	3.0	195.0		0.031	5.98	1.20	7.18	Maize
DL53D		76	3.0	228.0		0.031	6.99	1.40	8.39	Maize
DL54D	Armando Aly	157	5.0	785.0		0.031	24.08	4.82	28.90	Maize
DL56D	Tualibo Cazembe	173	5.0	865.0		0.031	26.53	5.31	31.84	Maize
DL41E		80	10.0	800.0		0.031	24.54	4.91	29.45	Cassava
DL42E		53	5.0	265.0		0.031	8.13	1.63	9.75	Maize
DL44E		316	5.0	1,580.0		0.031	48.47	9.69	58.16	Maize
DL46E		250	5.0	1,250.0		0.031	38.34	7.67	46.01	Maize
DL48E	Januário Jaime	156	5.0	780.0		0.031	23.93	4.79	28.71	Maize
DL50E	Mussassa Aquimo	161	6.0	966.0		0.031	29.63	5.93	35.56	Maize
DL55E	Armando Aly	73	5.0	365.0		0.031	11.20	2.24	13.44	Maize
				9,791.0	513		300.34		360.40	

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
CHIGUAJA (MACUVI) VILLAGE : NGAUMA										
E	Unknwon	300	10	3000	266	0.0307	92.02	18.404908	110.429448	Corn Machamba
MASSANGULO (MASSANGULO) VILLAGE : NGAUMA										
D/E	Machamba				73.3	0.031	306.75	61.35	368.10	Maize
D/D	Machamba				73.6	0.031	306.75	61.35	368.10	Maize
D/E	Machamba				74.4	0.031	306.75	61.35	368.10	Maize
D/E	Machamba				74.5	0.031	306.75	61.35	368.10	Maize
D/D	Machamba				76.6	0.031	306.75	61.35	368.10	Maize
D/D	Machamba				76.6	0.031	306.75	61.35	368.10	Maize
D/E	Machamba				77.1	0.031	306.75	61.35	368.10	Maize
D/E	School	70.0	20.0	1,400.0	81.1	0.031	42.94	8.59	51.53	Maize
D/E	School	74.0	5.0	370.0	85.0	0.031	11.35	2.27	13.62	Maize
D/E	School	73.0	10.0	730.0	89.0	0.031	22.39	4.48	26.87	Maize
				2,500.0	781.2		2223.93		2668.71	Maize
CONGERENGE (CHIPA) VILLAGE : MANDIMBA										
F121D		700.0			7.0	0.031	306.75	61.3496933	368.10	Eucalypts

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
F122D					3.0	0.031	306.75	61.3496933	368.10	Pea
F123D					3.0	0.031	306.75	61.3496933	368.10	Sesame
F126E	Saide Paitoné				500.0	0.031	306.75	61.3496933	368.10	
					513.0		1226.99		1472.39	
(MATAMANDA) VILLAGE : MANDIMBA										
P138E		20.0	20.0	400.0	27.2	0.0307	12.27	2.45	14.72	Potatoes
P139D		50.0	20.0	1,000.0	27.8	0.0307	30.67	6.13	36.81	Maize
P140E		70.0	40.0	2,800.0	29.7	0.0307	85.89	17.18	103.07	Maize
P141E		60.0	40.0	2,400.0	29.7	0.0307	73.62	14.72	88.34	Maize
P142E		50.0	30.0	1,500.0	29.7	0.0307	46.01	9.20	55.21	Maize
P143E		20.0	20.0	400.0	30.4	0.0307	12.27	2.45	14.72	Maize
P144D		60.0	45.0	2,700.0	31.5	0.0307	82.82	16.56	99.39	Maize
P145D		30.0	10.0	300.0	32.9	0.0307	9.20	1.84	11.04	Maize
P146D		50.0	20.0	1,000.0	35.2	0.0307	30.67	6.13	36.81	Maize
P147E		60.0	40.0	2,400.0	35.2	0.0307	73.62	14.72	88.34	Maize
P148E		50.0	10.0	500.0	38.7	0.0307	15.34	3.07	18.40	Beans km 38,7

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
P149D		70.0	45.0	3,150.0	38.7	0.0307	96.63	19.33	115.95	Maize
P150E		80.0	30.0	2,400.0	38.7	0.0307	73.62	14.72	88.34	Maize
P151D		40.0	20.0	800.0	42.8	0.0307	24.54	4.91	29.45	Sorghum
P152D		60.0	20.0	1,200.0	45.5	0.0307	36.81	7.36	44.17	Tobacco
P153E		90.0	40.0	3,600.0	45.5	0.0307	110.43	22.09	132.52	Maize
P154E		60.0	55.0	3,300.0	45.8	0.0307	101.23	20.25	121.47	Maize
P155D		70.0	35.0	2,450.0	46.6	0.0307	75.15	15.03	90.18	Maize
P156E		30.0	10.0	300.0	49.2	0.0307	9.20	1.84	11.04	Maize
				32,600.0	700.8		1000.00		1200.00	
MANDIMBA (NGAME) VILLAGE : MANDIMBA										
P1D		60.0	30.0	1,800.0	2.2	0.0307	55.21	11.04	66.26	Maize
P2D				-	2.8	0.0307	306.75	61.35	368.10	Maize
P3D				-	3.0	0.0307	306.75	61.35	368.10	Maize
P5D		65.0	40.0	2,600.0	3.9	0.0307	79.75	15.95	95.71	Maize
P6D		50.0	30.0	1,500.0	3.9	0.0307	46.01	9.20	55.21	Maize
P8D		60.0	35.0	2,100.0	4.2	0.0307	64.42	12.88	77.30	Maize
P10D		70.0	50.0	3,500.0	4.3	0.0307	107.36	21.47	128.83	Maize

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
P16E		60.0	30.0	1,800.0	4.9	0.0307	55.21	11.04	66.26	Maize
P17E		50.0	20.0	1,000.0	5.0	0.0307	30.67	6.13	36.81	Maize
P18D		50.0	20.0	1,000.0	5.1	0.0307	30.67	6.13	36.81	Maize
P19D		70.0	40.0	2,800.0	5.2	0.0307	85.89	17.18	103.07	Maize
P21E		65.0	40.0	2,600.0	5.2	0.0307	79.75	15.95	95.71	Maize
P23D		50.0	30.0	1,500.0	5.3	0.0307	46.01	9.20	55.21	Maize
P24E		50.0	30.0	1,500.0	5.3	0.0307	46.01	9.20	55.21	Maize
P31D		45.0	20.0	900.0	5.3	0.0307	27.61	5.52	33.13	Maize
P32D		65.0	40.0	2,600.0	5.9	0.0307	79.75	15.95	95.71	Maize
P33D		50.0	80.0	4,000.0	6.0	0.0307	122.70	24.54	147.24	Maize
P34D		70.0	50.0	3,500.0	6.4	0.0307	107.36	21.47	128.83	Maize
P41E		70.0	40.0	2,800.0	6.6	0.0307	85.89	17.18	103.07	Maize
P42E		65.0	40.0	2,600.0	6.7	0.0307	79.75	15.95	95.71	Maize
				40,100.0	97.2		1843.56		2212.27	Maize
(MANDIMBA) : MANDIMBA										
P114D		60.0	20.0	1,200.0	21.8	0.0307	36.81	7.36	44.17	Tobacco
P115D		25.0	15.0	375.0	21.1	0.0307	11.50	2.30	13.80	Maize

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
P116E		70.0	10.0	700.0	21.2	0.0307	21.47	4.29	25.77	Maize
P117D		70.0	20.0	1,400.0	21.2	0.0307	42.94	8.59	51.53	Maize
P118E		30.0	30.0	900.0	22.3	0.0307	27.61	5.52	33.13	Maize
P119E		90.0	60.0	5,400.0	22.5	0.0307	165.64	33.13	198.77	Maize
P120E		80.0	40.0	3,200.0	22.7	0.0307	98.16	19.63	117.79	Maize
P121D		75.0	40.0	3,000.0	22.1	0.0307	92.02	18.40	110.43	Maize
P125D		40.0	10.0	400.0	23.6	0.0307	12.27	2.45	14.72	Maize
P126D		30.0	30.0	900.0	23.7	0.0307	27.61	5.52	33.13	Maize
P128E		40.0	30.0	1,200.0	24.3	0.0307	36.81	7.36	44.17	Banana tree
P129E		70.0	30.0	2,100.0	24.6	0.0307	64.42	12.88	77.30	Beans
P130D		90.0	50.0	4,500.0	24.2	0.0307	138.04	27.61	165.64	Maize
P131E		70.0	45.0	3,150.0	24.7	0.0307	96.63	19.33	115.95	Maize
P132D		30.0	15.0	450.0	24.7	0.0307	13.80	2.76	16.56	Tobacco
P133E		80.0	60.0	4,800.0	24.9	0.0307	147.24	29.45	176.69	Peanuts
P134E		90.0	65.0	5,850.0	25.9	0.0307	179.45	35.89	215.34	Maize
P135D		55.0	40.0	2,200.0	26.0	0.0307	67.48	13.50	80.98	Maize
P136D		75.0	30.0	2,250.0	26.5	0.0307	69.02	13.80	82.82	Maize

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
P137D		40.0	25.0	1,000.0	27.7	0.0307	30.67	6.13	36.81	Maize
				44,975.0	432.7		1379.60		1655.52	
LISSETE (CHIUANDA) VILLAGE : MANDIMBA										
P93D		90.0	35.0	3,150.0	14.2	0.0307	96.63	19.33	115.95	Maize
P94D		70.0	30.0	2,100.0	15.6	0.0307	64.42	12.88	77.30	Maize
P95D		50.0	70.0	3,500.0	15.1	0.0307	107.36	21.47	128.83	Maize
P96E		70.0	30.0	2,100.0	15.6	0.0307	64.42	12.88	77.30	Maize
P97D		20.0	10.0	200.0	15.9	0.0307	6.13	1.23	7.36	Potatoes
P98D		20.0	20.0	400.0	16.0	0.0307	12.27	2.45	14.72	Tobacco
P99E		20.0	15.0	300.0	16.9	0.0307	9.20	1.84	11.04	Maize
P101E		70.0	25.0	1,750.0	16.9	0.0307	53.68	10.74	64.42	Maize
P102D		50.0	20.0	1,000.0	17.0	0.0307	30.67	6.13	36.81	Maize
P103D		70.0	40.0	2,800.0	18.1	0.0307	85.89	17.18	103.07	Maize
P104E		90.0	50.0	4,500.0	18.4	0.0307	138.04	27.61	165.64	Tobacco
P105E					18.8	0.0307	0.00	0.00	0.00	Maize
P106E		90.0	75.0	6,750.0	18.8	0.0307	207.06	41.41	248.47	Maize
P107E		90.0	70.0	6,300.0	19.0	0.0307	193.25	38.65	231.90	Maize

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
P108D		70.0	50.0	3,500.0	19.0	0.0307	107.36	21.47	128.83	Maize
P109E		90.0	70.0	6,300.0	19.1	0.0307	193.25	38.65	231.90	Maize
P110D		50.0	30.0	1,500.0	20.0	0.0307	46.01	9.20	55.21	Tobacco
P111E		50.0	30.0	1,500.0	20.1	0.0307	46.01	9.20	55.21	Potatoes
P112D		30.0	20.0	600.0	21.0	0.0307	18.40	3.68	22.09	Potatoes
P113D		70.0	30.0	2,100.0	21.5	0.0307	64.42	12.88	77.30	Maize
				50,350.0	357.0		1544.48		1853.37	
CHIANICO (LUCHIMUA) : MANDIMBA DISTRICT										
P43D		70.0	50.0	3,500.0		0.0307	107.36	21.47	128.83	Maize km 6,7
P44E		75.0	50.0	3,750.0		0.0307	115.03	23.01	138.04	Maize , km 6,8
P45E		80.0	40.0	3,200.0		0.0307	98.16	19.63	117.79	Maize, km 6,9
P46D		30.0	15.0	450.0		0.0307	13.80	2.76	16.56	Maize km 6,9
P47D		30.0	15.0	450.0		0.0307	13.80	2.76	16.56	Maize km 7,3
P49D		90.0	60.0	5,400.0		0.0307	165.64	33.13	198.77	Maize km 7,5
P52E		20.0	10.0	200.0		0.0307	6.13	1.23	7.36	Maize, km 7,5
P55D		45.0	20.0	900.0		0.0307	27.61	5.52	33.13	Maize km 7,5
P56D		65.0	40.0	2,600.0		0.0307	79.75	15.95	95.71	Maize, km 8,3

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
P57		70.0	10.0	700.0		0.0307	21.47	4.29	25.77	Potatoes trees, km 8,4
P64D		40.0	20.0	800.0		0.0307	24.54	4.91	29.45	Mapira, km 8,7
P65D		40.0	20.0	800.0		0.0307	24.54	4.91	29.45	Sunflowers, km 9,2
P66E		70.0	42.0	2,940.0		0.0307	90.18	18.04	108.22	
P68D		70.0	50.0	3,500.0		0.0307	107.36	21.47	128.83	Maize, km 10,9
P81D		30.0	10.0	300.0		0.0307	9.20	1.84	11.04	Maize , km 11
P86D		50.0	20.0	1,000.0		0.0307	30.67	6.13	36.81	Maize, km 12,4
P88E		15.0	18.0	270.0		0.0307	8.28	1.66	9.94	Maize, km 13,6
P89D		80.0	50.0	4,000.0		0.0307	122.70	24.54	147.24	Maize, km 14,2
P90E		70.0	40.0	2,800.0		0.0307	85.89	17.18	103.07	Maize, km 14,6
P92D		25.0	15.0	375.0		0.0307	11.50	2.30	13.80	Maize, km 14,6
P86D				37,935.0			1163.65		1396.38	Maize
MASSANGULO (BAIRRO MATHUANE) VILLAGE : CUAMBA DISTRICT										
km 5,7E/D		300.0	5	1,500.00		0.0307	46.01	9.20	55.21	Banana
km 36,4D		100.0	5	500.00		0.0307	15.34		15.34	Banana
km 36,8 /D		400.0	5	2,000.00		0.0307	61.35	12.27	73.62	Banana
km 37,8E		100.0	5	500.00		0.0307	15.34	3.07	18.40	Banana

ID	NAME OF OWNER	Length (m)	Width (m)	Area (m2)	HECTARES km ²	RATE (US\$)	COST (US\$)	ASSISTANCE FOR OPENING NEW GARDENS	TOTAL (US\$)	REMARKS
km 8,8E/D		200.0	5	1,000.00		0.0307	30.67	6.13	36.81	Banana
				5,500.00			168.71		199.39	
				330,251.00			13,504.63		16,938.69	

Appendix 14 House Holds with Elders

ID	Head of Household	No.	Amount (USD)
LUMBI VILLAGE - LICHINGA DISTRICT			
	Maria Amisse	1	1,200.08
H0031E	Hermelinda Aufi	2	1,200.08
H0025E	Jafar Amassi	1	530.21
H0045D	Zacharias Saide	2	5,160.48
D22E	Tuaibo Saide	1	64.80
			8,155.64
LULIMILE VILLAGE - LICHINGA DISTRICT			
F23D	Fatima Wisque	1	64.51
F0019D	Atija Rachide	2	88.32
F23D	Muanaicha Cassimo	2	446.47
			599.30
LUAGALA (NUNGU'S) VILLAGE - NGAUMA DISTRICT			
D22E	Tuaibo Saide	2	870.1991429
D23E	Magido Mustafa	2	366.336
			1,236.54
	Total		9,991.48

Appendix 15 House Holds with Orphans

ID	Name	No.	Amount
			(USD)
LULIMILE VILLAGE - LICHINGA DISTRICT			
	Lídia António	2	1,287.70
	No name (to be confirmed)	2	513.67
	Arlindo Amido	3	184.80
		Total	1,986.17

Appendix 16 Compensation for Affected Sheds and Other Structures

ID	Name of PAP	Description	Length (m)	Width (m)	Area (m ²)	Rate	Cost (USD)	REMARKS
MEPICA (BAIRRO MATHUANE) VILLAGE : CUAMBA DISTRICT								
D61D	Fatima Andissone	Alpendre (Mud, Thatched)	4.5	2.5	11.25	2.00	22.50	
D65D		Escola (Mud, Thatched)	70	4	280	2.00	560.00	
BAIRRO MEPICA VILLAGE : CUAMBA DISTRICT								
D96E	Jorge Covela	Estufa (Mud, Thatched)	7	6	42	2.00	84.00	
D97E	Samuel Sormone	Estufa (Mud, Thatched)	3	3	9	2.00	18.00	
D98D	Ass. Paulo S. Kankomba	Video show room (Mud, Thatched)	4	3	12	2.00	24.00	
	Km 46,7	Esc. Macoropa (Mud, Thatched)	70	6	420	2.00	840.00	
D101E	Unknown	Estufa (Mud, Thatched)	3	3	9	2.00	18.00	
D102D	Unknown	Estufa	3	4	12	2.00	24.00	
	Km 53,2	School	70	4	280	2.00	560.00	
							1,568.00	
BAIRRO CIMENTO VILLAGE : CUAMBA DISTRICT								
H31D	Alfane Jhosse	Alpendre (Mud, Thatched)	2.7	2.73	7.371	2.00	14.74	
H33D		Alpendre (Mud, Thatched)	4.5	8	36	2.00	72.00	
							86.74	
					TOTAL		2,237.24	

Appendix 17 Pictures of Some Affected Property in the Project Area



Mosque



School at Msingeue in Cimbunila (Lichinga) District



Houses and Structures in Chimbunila (Lichinga) District



Market and Shons along N13 Road Reserve



Graveyard in Mandimba town showing grave in the COI



Borehole in Chmbunila (Lichinga) district



Railway crossing N13 Road



Plantation Trees along N13 Road in Cuamba District



Chikweti Tree Plantation in Chimbunila (Lichinga) District, Niassa



Banana Plantation in Mandimba District