

**NATIONAL CONSTRUCTION COUNCIL (NCC)**  
**(Baraza la Taifa la Ujenzi)**



**REPORT**

**BASIC PRICE LIST OF CONSTRUCTION  
RESOURCES FOR IRINGA, LINDI, MBEYA,  
KATAVI, MTWARA, RUVUMA, RUKWA  
AND SONGWE REGIONS**

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## **1.0 INTRODUCTION**

### **1.1 Background**

The National Construction Council (NCC) was established by Act of Parliament No. 20 of 1979 (National Construction Council Act CAP 162 Revised Edition 2008). The mission of the Council is to promote and provide strategic leadership for the development of the construction industry in Tanzania. The mission is implemented through the execution of 15 functions embodied in the NCC Act. Among the functions of the council are “to promote and provide strategic leadership for the growth, development and expansion of the construction industry in Tanzania with emphasis on the development of the local capacity for socio-economic development and competitiveness in the changing global environment; to advise the government on all matters relating to the development of the construction industry and to formulate proposals and recommendations for their implementation as well as to provide advisory services and technical assistance to construction industry stakeholders on all matters related to the construction industry”.

The National Construction Council (NCC) provides advisory services to various stakeholders of the construction industry in areas of, project planning, procurement and contract administration of works, consultancy services, project cost management, value for money auditing; Contract Management and Construction Claims Management. Furthermore, NCC coordinates resolution of construction project disputes, by mainly appointing conciliators, adjudicators and arbitrators.

In line with the above functions and services, NCC has been collecting basic price list of materials, equipment and plant high rates, productivity levels, and labour wages in order to establish basic prices data bank, computation of price indices and computation of construction costs and rates. Therefore, periodically, NCC collects basic price list of construction materials, wages, equipment and plant hire rates, from reliable sources in order to meet this important obligation. The current basic price list is collected with the purpose of building up a baseline databank upon which periodic updates shall be based upon. Similarly, Price Indices will be computed from the databank to enable project cost estimations as well as computations of contract price adjustments in construction projects.

Further, the basic price list collected will be used, whenever necessary, to carry out detailed project cost analysis. Usually this is associated with systematic breakdown of cost data so as to facilitate examination and comparison of different project concepts or designs, or even between two similar projects built on different sites or locations. In essence therefore, the Price List is the basic data required for project cost planning and control. It should therefore be as reliable, accurate and comprehensive. The National Construction Council, has

taken this requirement seriously, and therefore sets aside appropriate resources to collect the basic price list data from sources that are reliable.

In this respect the basic price list can be used as the basis for determining the unit rates that will later be used in the analysis by elements or functional parts of a building, with the aim of providing data for the establishment of cost targets for designing buildings. It is however, one of a wide range of methods which could be used for collecting, collating and classifying the data contained in priced bills of quantities.

Another purpose of a basic price list is to be used in the process of cost analysis so as to show where reductions could most beneficially be made, should the tender unfortunately prove to be too high. The greater the number of cost analyses prepared and circulated, the more extensive will be the body of available cost information and the greater the opportunity for cost comparisons leading to more effective cost control.

### **1.3 Objective**

The main objective of the survey is to ensure that NCC establishes a data bank of prices of commonly used construction materials, labour wages and hiring rates of plant and equipment. The data collected will be supplied to stakeholders each month or throughout a year and whenever they are required.

### **1.4 Scope of the Survey**

The survey for collection of basic price list of commonly used construction materials was conducted in eight (8) regions which included, ***Iringa, Mbeya, Songwe, Rukwa, Katavi, Ruvuma, Mtwara and Lindi Regions***. The materials surveyed for the basic price included cement/bonding material, reinforcement bars, roofing materials, wood (carpentry), quarry products, concrete products, plumbing fixtures, painting and decoration material, some of precast units as well as sanitary installation.

There was also other additional information which was collected during this survey. This additional information included availability of labour and their wages as well as hiring rates for plants and equipment in respective regions.

### **1.5 Survey Methodology**

The following was the methodology applied for this survey:

- Identifying information required and preparation of data collection tools for the survey (in particular, a material price-list matrix indicating the list of materials to be surveyed, the standard unit of measure, price for standard unit quantity commonly sold);

- Identification of sources of information in each region, followed by physical visit to the selected sources in each region;
- Oral interviews with different manufacturers, suppliers and vendors of construction materials;
- Oral interviews with stakeholders in local government, central and private sector;
- Using computer for data recording, compilation and analysis; and
- Report writing.

## **2.0 DATA COLLECTION (BASIC PRICE LIST OF DIFFERENT CONSTRUCTION MATERIALS)**

This exercise is aimed at collecting prices of commonly used construction resources from different parts of Tanzania at specified time intervals. This will enable price trends to be established. As such, the data to be collected should be in form of panel data system, where the price of the same resource is collected from the same outlets at specified time intervals. Therefore, in this study, the basic price data for pre decided construction materials were collected while observing the following principles:

- the technical specification of the materials should be the same for all materials whose prices are collected;
- the unit of measurement of the materials and other resources must be the same;
- Price must be collected from the designated shop and pre decided market of the centre
- Price should include local taxes, if any
- Data have to be collected without interval/break

In case prescribed grade and variety of an item of material is not available in the selected shop, the price for the same item is to be collected from a reserved shop. If that is also not available, the price may be collected for the prescribed quality and quantity in any other shop in the market. In case prescribed quality is not available, commonly used quality may be selected.

As this was the first time data was being collected from these eight regions, sources of information were randomly selected from various major shops within the regions. The prices in respect of certain materials across regions may be observed to differ and there may be few outliers. The possible reasons which may explain such variation would include lack of availability of raw material in some regions to produce the final product, specificity/peculiarity associated with geographical location, distortions in demand and supply of specific material etc.

The basic prices of construction materials from these regions will form a baseline databank upon which continuous data collection will be based. The collection of the information strictly adhered to the above factors and set the conditions to be followed during future data collections. The following is the output of basic prices with respect to selected material in the surveyed regions.

### **2.1 Cement**

Cement is the basic and most essential cementitious construction material in construction. There are over 15 types of cement, however, the most commonly used

in Tanzania is Ordinary Portland Cement. This is used in almost every construction site in Tanzania. In this exercise, the price information was surveyed for Ordinary Portland Cement of Grades 33 (32.5N/mm<sup>2</sup>) and 43 (42.5 N/mm<sup>2</sup>). Information was also collected for white cement. Both Ordinary Portland Cement and White Cement were available in almost all surveyed shops in all regions. Cement is produced in Tanzania, currently there are 13 cement plants based in Tanzania. During this basic price list survey, it was learnt that cement sold in surveyed regions is from Mbeya Cement (Tembo cement) in Mbeya Region, Tanzania Portland Cement (Twiga cement) in Dar es Salaam and Dangote cement in Mtwara. The following Tables show the basic prices of cement as was surveyed in the regions.

**Prices for Ordinary Portland Cement, Grade 33 (32.5N/mm<sup>2</sup>) and Grade 43 (42.5 N/mm<sup>2</sup>)**

Region	Unit	Price (TZS)	
		32.5N/mm <sup>2</sup>	42.5 N/mm <sup>2</sup>
Iringa	50kg bag	15,000.00	16,000.00
Mbeya	50kg bag	12,500.00	15,000.00
Songwe	50kg bag	14,500.00	15,000.00
Rukwa	50kg bag	16,500.00	17,500.00
Katavi	50kg bag	19,500.00	19,500.00
Ruvuma	50kg bag	15,000.00	16,000.00
Lindi	50kg bag	12,000.00	13,000.00
Mtwara	50kg bag	12,000.00	13,000.00

**Price of White cement**

Region	Unit	Price (TZS)
Iringa	40kg bag	30,000.00
Mbeya	40kg bag	35,000.00
Songwe	40kg bag	35,000.00
Rukwa	40kg bag	35,000.00
Katavi	40kg bag	40,000.00
Ruvuma	40kg bag	35,000.00
Lindi	40kg bag	35,000.00
Mtwara	40kg bag	35,000.00

**2.2 Reinforcement Bars (Steel)**

Reinforcement Steel Bars are mainly used to improve the tensile strength of concrete structures. The reinforcing steel is strong in tension as well in compression. It plays an important role in giving strength to structure in construction projects. The prices of steel surveyed in this assignment included high tensile steel bars and mild



steel bars with sizes from 8mm to 32mm diameters. The following tables show the basic prices of steel for the surveyed regions.

### Prices for High Strength Steel bars

Region	Unit	Price (000'TZS)						
		8mm	10mm	12mm	16mm	20mm	25mm	32mm
Iringa	ton	2,650	2,300	1,971	1,850	1,850	1,850	1,850
Mbeya	ton	2,600	2,600	2,400	2,400	2,400	2,400	2,400
Songwe	ton	INA	INA	1,736.1	INA	INA	INA	INA
Rukwa	ton	2,650	2,300	1,971	1,850	1,850	1,850	1,850
Katavi	ton	2,960	2,230	2,250	2,110	2,365	INA	INA
Ruvuma	ton	2,750	2,230	1,971	2,006	2,800	INA	INA
Lindi	ton	2,530	2,300	2,064	1,560	None	INA	INA
Mtwara	ton	2,540	2,300	1,970	2,006	None	INA	INA

Key: INA = Information Not Available

### Table showing the prices for mild steel bars

Region	Unit	Price (000'TZS)						
		8mm	10mm	12mm	16mm	20mm	25mm	32mm
Iringa	ton	2,650	2,300	1,971	1,850	1,850	1,850	1,850
Mbeya	ton	2,000	2,000	1,800,	1,800	1,800,00	1,800	1,800,
Songwe	ton	INA	INA	1,736.1	INA	INA	INA	INA
Rukwa	ton	2,600	2,300	1,900	2,000	2,400	INA	INA
Katavi	ton	2,540	2,300	1,970,	2,006	INA	INA	INA
Ruvuma	ton	2,750	2,230	1,971	2,006	2,800	INA	INA
Lindi	ton	2,530	2,300	2,064	1,560	INA	INA	INA
Mtwara	ton	2,540	2,300	1,970	2,006	INA	INA	INA

Key: INA = Information Not Available

## 2.3 Coarse Aggregates

Coarse aggregate are construction materials extracted from rocks using explosives and crushed into pieces using machines. Coarse aggregates are separated into different sizes using big sieves in machines. Coarse aggregate of sizes less than 40mm is mainly used to make concrete or for bitumen and asphalt concrete construction. while those above 40mm are used for railroads construction. The coarse aggregate provide main structure to concrete and load-bearing ingredient of the concrete. The aggregates surveyed in this exercise were of sizes ranging between 6mm to 25mm.

The quarries for aggregates in surveyed regions are situated close to urban areas and towns. The Quarries and Crasher Plants are owned by private companies. It was learnt that some regions (Iringa, Songwe and Lindi) have to import aggregates from other nearby regions. The following Table shows the basic prices of aggregates for the surveyed regions.

### Prices of Aggregates in Surveyed Regions

Region	Unit	Price (TZS)						
		6mm	10mm	13mm	14mm	19mm	20mm	25mm
Iringa	m <sup>3</sup>	130,000	130,000	130,000	130,000	130,000	130,000	130,000
Mbeya	m <sup>3</sup>	77,000	77,000	77,000	77,000	77,000	77,000	77,000
Songwe	m <sup>3</sup>	120,000	120,000	120,000	120,000	120,000	120,000	120,000
Rukwa	m <sup>3</sup>	82,600	82,600	82,600	82,600	106,200	106,200	82,600
Katavi	m <sup>3</sup>	29,500	59,000	59,000	59,000	59,000	82,600	82,600
Ruvuma	m <sup>3</sup>	90,000	90,000	90,000	90,000	90,000	90,000	90,000
Lindi	m <sup>3</sup>	125,000	125,000	125,000	125,000	125,000	125,000	125,000
Mtwara	m <sup>3</sup>	82,000	82,000	82,000	82,000	82,000	82,000	82,000

## 2.4 Sand/Fine Aggregates

Sand is naturally-occurring material consisting of very small, loose particles of decomposed rocks, corals, or shells. It consists of particles smaller than gravel but coarser than silt, and is used in mortar, glass, abrasives, and foundry molds. Generally, in this survey it was found that the sources of sand for some regions were not very far as was extracted from nearby rivers with exception of few regions. The following Table shows the basic prices of sand for the surveyed regions.

**Table showing basic prices of sand for the surveyed regions**

Region	Iringa	Mbeya	Songwe	Rukwa	Katavi	Ruvuma	Lindi	Mtwara
<b>Price per m<sup>3</sup> (TZS)</b>	17,500	24,000	37,000	25,000	30,000	17,500	25,000	17,500

## 2.5 Ready Mix Concrete

Ready mix concrete is the plant manufactured and directly delivered at the construction site. It is preferred when workspace is limited on construction site and making concrete on site is too difficult tasks. Some time Ready Mix Concrete is used because quality of concrete is more important. The survey revealed that the service for ready mix concrete was available in only two regions. The ready mix concrete surveyed was of Grades 15, 20, 25 and 30. The following Table shows the basic prices of sand for the surveyed regions.

**Prices of Ready mix concrete in Surveyed Regions**

Region	Unit	Price (TZS)			
		Grade 15	Grade 20	Grade 25	Grade 30

Iringa	m <sup>3</sup>	None	None	None	None
Mbeya	m <sup>3</sup>	230,000	270,000	320,000	370,000
Songwe	m <sup>3</sup>	INA	INA	INA	INA
Rukwa	m <sup>3</sup>	250,000	300,000	350,000	400,000
Katavi	m <sup>3</sup>	INA	INA	INA	INA
Ruvuma	m <sup>3</sup>	INA	INA	INA	INA
Lindi	m <sup>3</sup>	INA	INA	INA	INA
Mtwara	m <sup>3</sup>	INA	INA	INA	INA

Key: INA = Information Not Available

## 2.6 Wood/Timber

In construction timber is mainly used for structural applications such as purlins, ties, rafters, struts, fascia boards, wall plates, brackets, beams, hangers, or trusses. These can be sawn or wrought timber from trees that are hardwoods or softwoods. Softwoods which include coniferous trees grow faster and they are light. Their density ranges from 350 to 700 kg/m<sup>3</sup>. Hardwoods which are from broad leaved trees grow slowly. Their density ranges from 450 to 1250 kg/m<sup>3</sup>. The cost of softwood timber is cheaper than hardwoods. Softwoods are therefore extensively used for structural applications.

The survey for this resource included collecting the basic prices of different sizes of softwoods and hardwoods. There are two types of softwoods namely, treated softwoods and untreated softwoods. As for hardwoods, common species are Mkongo, Mkangazi and Mninga. The sizes commonly sold include 150 x 50mm, 100 x 50mm, 75 x 50mm, 50 x 50mm and 150 x 25mm. The sources of these woods were mainly from Mafinga, Njombe, Kilolo, Ileje and Mbinga. The following Tables show the basic prices of woods for the surveyed regions.

**Table showing the prices of Hardwood in Surveyed Regions**

Region	Unit	Price (TZS)		
		150 x 50mm	25 x 200mm	50 x 250mm
Iringa	9ft pc	46,000	INA	70,800
Mbeya	9ft pc	65,000	INA	INA
Songwe	9ft pc	25,000	35,800	45,000
Rukwa	9ft pc	46,000	None	70,800
Katavi	10ft pc	25,000	25,000	30,000
Ruvuma	10ft pc	30,000	45,000	45,000
Lindi	10ft pc	25,000	25,000	30,000
Mtwara	10ft pc	40,000	40,000	50,000

Key: INA = Information Not Available

**Price of treated and untreated softwood in Surveyed Regions**

Region	Unit	Price (TZS)					
		150 x 50mm		100 x 50mm		75 x 50mm	
		Treated	untreated	Treated	untreated	Treated	untreated
Iringa	pc	7,500	7,000	5,300	4,800	3,800	3,300
Mbeya	pc	10,000	8,500	8,000	6,500	5,500	4,500
Songwe	pc	7,000	6,500	5,000	4,500	4,500	4,000
Rukwa	pc	12,000	11,000	9,000	8,000	9,000	8,000
Katavi	pc	13,000	12,500	10,000	9,500	8,000	7,500
Ruvuma	pc	10,000	7,500	6,000	5,000	5,000	4,500
Lindi	pc	14,000	14,000	7,500	7,500	6,000	6,000
Mtwara	pc	11,000	10,000	7,000	6,500	6,000	5,000

Region	Unit	Price (TZS)					
		50 x 50mm		150 x 25mm		200x25mm	
		Treated	untreated	Treated	Untreated	Treated	Untreated
Iringa	pc	2,800	2,500	5,000	4,500	INA	INA
Mbeya	pc	4,500	3,000	10,000	9,000	INA	INA
Songwe	pc	2,500	2,000	6,000	5,500	8,000	7,500
Rukwa	pc	8,000	7,000	9,000	8,000	INA	INA
Katavi	pc	5,000	4,500	INA	INA	14,000	13,500
Ruvuma	pc	3,000	2,500	INA	4,000	None	9,500
Lindi	pc	4,000	3,500	INA	4,000	15,000	15,000
Mtwara	pc	4,000	3,500	INA	5,500	13,000	12,000

Region	Unit	Price (TZS)	
		250x25	
		Treated	Untreated
Iringa	pc	INA	INA
Mbeya	pc	INA	INA
Songwe	pc	12,000	11,500
Rukwa	pc	INA	INA
Katavi	pc	19,500	18,000
Ruvuma	pc	INA	12,000
Lindi	pc	25,000	25,000
Mtwara	pc	18,500	18,000

Key: INA = Information Not Available

## 2.7 Concrete Blocks

Concrete block construction has gained importance and has become a valid alternative to fired clay bricks. The essential ingredients of concrete are cement, aggregate (sand, gravel) and water. Concrete blocks are produced in a large variety of shapes and sizes. They can be produced manually or with the help of machines. Concrete blocks have high compressive strength, resistance to weathering, impact and abrasion. They are Good fire resistance up to about 400 °C and they have very good stability. The concrete blocks surveyed were of sizes 450mm\*250mm \*100mm, 450mm\*250mm \*125mm and 450mm\*250mm \*150mm. They were locally available in all regions. The following Table shows the prices of the concrete blocks as was surveyed in the eight regions.

**Table showing the prices of concrete blocks in Surveyed Regions**

Region	Unit	Price (TZS)		
		450mm*250mm*100 mm,	450mm*250mm*125 mm	450mm*250mm*150 mm
Iringa	pc	1,000	1,200	1,500
Mbeya	pc	1,300	1,500	1,500
Songwe	pc	1,200	1,500	1,700
Rukwa	pc	1,000	1,200	1,500
Katavi	pc	1,000	1,200	1,600
Ruvuma	pc	1,200	1,400	1,600
Lindi	pc	900	1,000	1,500
Mtwara	pc	900	1,000	1,500

## 2.8 Precast Concrete Pipe Culverts

A culvert is a structure that allows water to flow under a road, railroad, trail, or similar obstruction from one side to the other side. Typically embedded so as to be surrounded by soil, a culvert may be made from a plastic, reinforced concrete or other material. The pipe culverts surveyed were of sizes 600mm diameter, 900mm diameter and 120mm diameter. The following Table shows the prices of the concrete pipe culverts as was surveyed in the eight regions.

**Table showing the prices of concrete pipe culverts in Surveyed Regions**

Region	Unit	Price (TZS)		
		Pipe Diameter		
		600mm	900mm	120mm
Iringa	pc	INA	INA	INA
Mbeya	pc	INA	INA	INA
Songwe	pc	INA	IA	INA
Rukwa	pc	INA	INA	INA
Katavi	pc	100,000	250,000	300,000

Ruvuma	pc	INA	INA	INA
Lindi	pc	120,000	140,000	170,000
Mtwara	pc	110,000	130,000	170,000

Key: INA = Information Not Available

## 2.9 Paints

Paint is any pigmented liquid, liquefiable, or mastic composition that, after application to a substrate in a thin layer, converts to a solid film. It is most commonly used to protect, color, or provide texture to objects. Paint can be made or purchased in many colors—and in many different types, such as watercolor or synthetic. Paint is typically stored, sold, and applied as a liquid, but most types dry into a solid.

There are two groups of paints – water based paint and oil based paint. Water is used as a solvent in water based paints. Artificial solvents are used for oil based paints. These artificial solvents include acetone and benzene. There are some pigments that can be used for both water or oil based paints.

During the current survey five types of paints were considered including Gross Paints, Acrylic Emulsion Paints, Plastic Emulsion Paints, Weather Guard Paints and Wash and Wear Paints. These paints were locally available in shops for all eight surveyed regions. The table below shows the price of the paints as was surveyed in respective regions.

**Table showing the prices of Paints in Surveyed Regions**

Type of Paints	Unit	Price (TZS) in the Region			
		Iringa	Mbeya	Songwe	Rukwa
Gross Paints	4 litre	22,000	24,000	20,000	22,000
Acrylic Emulsion Paints	20 litres	40,000	35,000	35,000	40,000
Plastic Emulsion Paints	20 litres	40,000	35,000	35,000	40,000
Weather Guard Paints	20 litres	150,000	155,000	120,000	150,000
Wash n Wear Paints	20 litres	160,000	160,000	140,000	160,000

Type of Paints	Unit	Price (TZS) in the Region			
		Katavi	Ruvuma	Lindi	Mtwara
Gross Paints	4 litre	25,000	20,000	22,000	20,000
Acrylic Emulsion Paints	20 litres	40,000	35,000	35,000	35,000
Plastic Emulsion Paints	20 litres	40,000	35,000	35,000	35,000
Weather Guard Paints	20 litres	140,000	130,000	150,000	135,000
Wash n Wear Paints	20 litres	145,000	165,000	150,000	140,000

## 2.10 Marine Board

Marine Board is a replacement for wood in construction that does not permit splinter, crack, rot, swell or absorb water like traditional materials. The Panel is sanded on both faces. Its exposure durability rating is exterior and the glue used is a water resistant. The survey on the basic price of marine board was done on two different sizes which are 2400mmx1200mmx18mm and 2400mmx1200mmx12mm. The Table below shows the price of the marine board as was surveyed in respective regions.

Table showing the prices of marine Board in Surveyed Regions

Region	Unit	Price (TZS)	
		2400mm*1200mm*18mm	2400mm*1200mm*12mm
Iringa	pc	60,000	50,000
Mbeya	pc	75,000	INA
Songwe	pc	85,000	INA
Rukwa	pc	85,000	INA
Katavi	pc	65,000	INA
Ruvuma	pc	65,000	INA
Lindi	pc	70,000	60,000
Mtwara	pc	60,000	INA

Key: INA = Information Not Available

## 2.11 Roofing Sheets

A roof is the topmost portion of a building, which protects the building and its inhabitants from the sun, rain, wind, snow and all atmospheric conditions. They should be constructed in consideration of the climatic changes of a place, availability of materials and also depends on architectural considerations.

Roofing materials are of various types, and their selection depends upon the climatic conditions of a place, availability of materials, fabrication facility and the building owner's budget. Most commonly used materials for pitched roofs are Asbestos cement (AC), Galvanized iron corrugated sheets, Industrial Trough (IT5) sheets, Corrugated PVC sheets, Fibre reinforced cement sheets and Fibre Glass Roofing. The available roofing sheets in the surveyed regions were mainly corrugated iron sheets and IT5 sheets with gages 28, 30 and 32. The Table below shows the price of the roofing sheets as was surveyed in respective regions.

Table showing the prices of Roofing Sheets in Surveyed Regions

Region	Unit	Price (TZS)					
		C.I Sheets			IT Sheets (T5)		
Gage		28	30	32	28	30	32
Iringa	pc	None	16,800	14,500	None	32,000	24,000
Mbeya	pc	None	16,500	12,000	None	19,000	INA
Songwe	pc	None	18,125	14,500	None	23,750	INA

Rukwa	pc	None	17,800	14,000	None	23,000	INA
Katavi	pc	29,200	17,000	16,500	37,500	26,000	INA
Ruvuma	pc	27,000	20,000	16,000	17,000	26,000	INA
Lindi	pc	27,000	19,000	16,500	36,000	30,000	INA
Mtwara	pc	27,000	19,000	16,500	26,500	17,000	INA

*Key: INA = Information Not Available*

## 2.12 Gypsum Board/Drywall

Gypsum Board (also known as drywall plasterboard, wallboard, sheet rock, or gypsum panel) is a panel made of calcium sulfate dehydrates (gypsum), with or without additives, typically extruded between thick sheets of facer and backer paper, used in the construction of interior walls and ceilings. The gypsum boards surveyed were mainly those imported from China (ex China) and those imported from Thailand (ex Thailand) both with size 2400mmx120mmx10mm thick. They were readily available in all surveyed regions. The Table below shows the price of the gypsum boards as was surveyed in respective regions.

**Table showing the prices of Gypsum Board in Surveyed Regions**

Region	Unit	Price (TZS)	
		ex China, 240mm*120mm*10mm thick	ex Thailand, 240mm*120mm*10mm thick
Iringa	pc	20,000	28,000
Mbeya	pc	16,500	22,000
Songwe	pc	18,000	22,000
Rukwa	pc	18,000	25,000
Katavi	pc	16,000	20,000
Ruvuma	pc	18,000	25,000
Lindi	pc	17,000	21,000
Mtwara	pc	16,000	20,000

## 2.13 Tiles

A tile is a thin object usually square or rectangular in shape. Tiles are manufactured piece of hard-wearing material such as ceramic, stone, metal, baked clay, or even glass, generally used for covering roofs, floors, walls, or other objects such as tabletops. Tiles are often used to form wall and floor coverings, and can range from simple square tiles to complex or mosaics. Tiles are most often made of ceramic. Ceramic materials for tiles include earthenware, stoneware and porcelain. This survey looked into porcelain floor tiles and ceramic wall tiles. Most of the tiles surveyed were twyford China with sizes for porcelain floor tiles 400x400x10mm, 500X500X10mm as well as 600X600X10mm and that for ceramic wall tiles



250X400X10mm and 200x300x10mm. The Tables below show the price of the tiles as was surveyed in respective regions.

**Table showing the prices of Porcelain Tiles in Surveyed Regions**

Size of Porcelain Tiles	Unit	Price (TZS) in the Region			
		Iringa	Mbeya	Songwe	Rukwa
400x400x10mm	12pcs box	INA	INA	22,000	INA
500X500X10mm	7pcs box	38,000	40,000	35,000	40,000
600X600X10mm	4pcs box	40,000	45,000	30,000	34,000

Size of Porcelain Tiles	Unit	Price (TZS) in the Region			
		Katavi	Ruvuma	Lindi	Mtwara
400x400x10mm	12pcs box	30,000	38,000	22,000	22,000
500X500X10mm	7pcs box	45,000	42,000	35,000	37,000
600X600X10mm	4pcs box	42,000	48,000	40,000	42,000

Table showing the prices of Ceramic Wall Tiles in Surveyed Regions

Size of Porcelain Tiles	Unit	Price (TZS) in the Region			
		Iringa	Mbeya	Songwe	Rukwa
250X400X10mm	15pcs box	INA	17,000	18,000	INA
200x300x10mm	16pcs box	INA	INA	INA	INA

Size of Porcelain Tiles	Unit	Price (TZS) in the Region			
		Katavi	Ruvuma	Lindi	Mtwara
250X400X10mm	15pcs box	18,000	18,000	20,000	17,000
200x300x10mm	16pcs box	13,000	INA	15,000	11,000

*Key: INA = Information Not Available*

## 2.14 PVC Pipes

PVC pipes are extremely strong and most importantly, these pipes are 100% resistant to corrosion. While red is used for hot water, whereas blue is used for cold water, but there's no difference between the material.

There are many uses of PVC. As a rigid plastic, it is used as vinyl siding, magnetic stripe cards, window profile, pipe, plumbing and conduit fixtures. PVC is commonly used as the insulation on electric wires. Frequently in applications where smoke is a

major hazard (notably in tunnels) PVC-free LSOH (low-smoke, zero-halogen) cable insulation is used.

PVC pipes are majorly used for manufacturing sewerage pipes and agricultural pipes. PVC pipes have been used for more than 60 years and show that they have very long-lasting material properties. They are easy to install, strong and durable and, when they eventually reach the end of their service life, they can be recycled back into new PVC pipes. As a result, PVC pipe systems are very cost efficient.

During the survey, PVC pipes were found to be available in almost all hardware shops in all surveyed regions. The surveyed classes of PVC pipes were class A, class B and class C. The surveyed sizes range from 13mm diameter to 150mm diameter. The Table below shows the prices of PVC Pipes as was surveyed in respective regions.

**Table showing the prices of PVC Pipes in Surveyed Regions**

PVC Size and Class	Unit	Price (TZS) in the Region			
		Iringa	Mbeya	Songwe	Rukwa
<b>Class A</b>					
19mm Dia	m	1,200	1,200	INA	INA
38mm Dia	6m PC	10,000	7,500	10,000	10,000
100mm Dia	6m PC	16,000	12,000	15,000	15,000
<b>Class B</b>					
13mm Dia	m	1,300	1,100	1,300	1,300
19mm Dia	m	1,500	1,200	1,300	1,300
25mm Dia	m	1,500	1,400	1,500	1,500
38mm Dia	m	5,500	4,500	5,500	5,500
50mm Dia	m	6,500	7,000	6,500	6,500
75mm Dia	6m	45,000	42,000	45,000	45,000
100mm Dia	6m	55,000	50,000	55,000	55,000
150mm Dia	6m	65,000	70,000	65,000	65,000
<b>Class C</b>					
19mm Dia	m	2,000	1,300	1,400	1,500
25mm Dia	m	2,200	2,000	2,200	2,200
38mm Dia	m	5,500	4,500	5,200	5,500
50mm Dia	m	8,000	7,000	7,500	8,000

PVC Size and Class	Unit	Price (TZS) in the Region			
		Katavi	Ruvuma	Lindi	Mtwara
<b>Class A</b>					
19mm Dia	m	1,600	1,600	1,600	1,600

PVC Size and Class	Unit	Price (TZS) in the Region			
		Katavi	Ruvuma	Lindi	Mtwara
38mm Dia	6m PC	15,000	15,000	15,000	15,000
100mm Dia	6m PC	12,000	12,000	12,000	12,000
<b>Class B</b>					
13mm Dia	m	1,000	1,000	1,000	1,000
19mm Dia	m	1,200	1,200	1,200	1,200
25mm Dia	m	1,300	1,300	1,300	1,300
38mm Dia	m	5,000	5,000	5,000	5,000
50mm Dia	m	6,000	6,000	6,000	6,000
75mm Dia	6m	35,000	50,000	35,000	35,000
100mm Dia	6m	35,000	60,000	35,000	35,000
150mm Dia	6m	70,000	70,000	70,000	70,000
<b>Class C</b>					
19mm Dia	m	2,500	1,500	2,500	2,500
25mm Dia	m	2,800	2,200	2,800	2,800
38mm Dia	m	5,500	5,500	5,500	5,500
50mm Dia	m	9,000	8,000	9,000	9,000

## 2.15 Hollow Steel Sections

Steel hollow sections are the most versatile and efficient form for construction and mechanical applications. Many of the strongest and most impressive structures in the world today would not have been possible without hollow sections. In construction, hollow sections create lightweight and visually attractive structures that benefit communities and environments. Steel buildings are inherently adaptable and can be easily extended. Steel is lighter in weight than other construction materials. This enables extensions to be built to existing buildings without overloading their foundations. Structures can be unbolted, reconnected, modified, repaired, reused and recycled.

During the survey, Hollow Steel Sections were found to be available in some few hardware shops in all surveyed regions. The Table below shows the prices of PVC Pipes as was surveyed in respective regions.

**Table showing the prices of Hollow Steel Sections in Surveyed Regions**

Size of the Steel Section	Unit	Price (TZS) in the Region			
		Iringa	Mbeya	Songwe	Rukwa
Size 3/4" x 3/4" x 1	pc	9,000	12,500	9,000	9,000
Size 3/4" x 3/4" x 1.2	pc	10,000	13,000	10,000	10,000
Size 3/4" x 3/4" x 1.6	pc	14,000	14,000	14,000	14,000
Size 1" x 1" x 1	pc	12,000	13,500	10,500	12,000
Size 1" x 1" x 1.2	pc	12,000	15,000	12,000	12,000
Size 1" x 1" x 1.6	pc	15,000	16,000	15,000	15,000
Size 1 1/2" x 1" x 1.2	pc	17,000	16,000	19,000	17,000
Size 1 1/2" x 1" x 1.6	pc	17,500	17,500	17,500	17,500

Size of the Steel Section	Unit	Price (TZS) in the Region			
		Iringa	Mbeya	Songwe	Rukwa
Size 1 1/4" x 1 1/4" x 1.2	pc	15,000	18,000	15,000	15,000
Size 1 1/4" x 1 1/4" x 1.6	pc	INA	25,000	INA	INA
Size 1 1/2" x 1 1/2" x 1.2	pc	19,000	25,000	19,000	19,000
Size 1 1/2" x 1 1/2" x 1.6	pc	N/A	N/A	N/A	N/A
Size 2" x 1" x 1.2	pc	23,000	25,000	23,000	23,000
Size 2" x 1" x 1.6	pc	INA	INA	INA	INA
Size 2" x 2" x 1.2	pc	INA	INA	INA	INA

Key: INA = Information Not Available

Size of the Steel Section	Unit	Price (TZS) in the Region			
		Katavi	Ruvuma	Lindi	Mtwara
Size 3/4" x 3/4" x 1	pc	9,500	10,000	10,000	10,000
Size 3/4" x 3/4" x 1.2	pc	10,500	11,000	12,000	12,000
Size 3/4" x 3/4" x 1.6	pc	INA	13,000	13,000	13,000
Size 1" x 1" x 1	pc	10,500	13,000	13,000	13,000
Size 1" x 1" x 1.2	pc	16,500	11,500	11,500	11,500
Size 1" x 1" x 1.6	pc	15,500	14,500	14,500	14,500
Size 1 1/2" x 1" x 1.2	pc	20,000	17,500	17,500	17,500
Size 1 1/2" x 1" x 1.6	pc	INA	18,000	18,000	18,000
Size 1 1/4" x 1 1/4" x 1.2	pc	15,000	15,000	15,000	15,000
Size 1 1/4" x 1 1/4" x 1.6	pc	INA	INA	INA	INA
Size 1 1/2" x 1 1/2" x 1.2	pc	INA	20,000	20,000	20,000
Size 1 1/2" x 1 1/2" x 1.6	pc	INA	INA	INA	INA
Size 2" x 1" x 1.2	pc	INA	25,000	25,000	25,000
Size 2" x 1" x 1.6	pc	INA	INA	INA	INA
Size 2" x 2" x 1.2	pc	28,000	INA	25,000	25,000

## 2.16 Plastic Water Tank (Sim Tank)

Plastic water tank is a container for storing water. Plastic tanks are manufactured from food-grade safe, BPA-free polyethylene plastic so they're 100% safe for storing drinking water. The survey for water tank focused on Sim tank type of different sizes from 500 liters to 10,000 liters. They were found to be available in some few hardware shops in all surveyed regions. The Table below shows the prices of Plastic Water Tank (Sim Tank) as was surveyed in respective regions.

**Table showing the prices of Sim Tank in Surveyed Regions**

Size of the Sim Tank	Unit	Price (TZS) in the Region			
		Iringa	Mbeya	Songwe	Rukwa
10,000ltr	No.	2,900,000	2,500,000	2,300,000	3,000,000
5,000ltr	No.	1,500,000	950,000	950,000	1,200,000
4,000ltr	No.	1,000,000	750,000	860,000	850,000

Size of the Sim Tank	Unit	Price (TZS) in the Region			
		Iringa	Mbeya	Songwe	Rukwa
3,000ltr	No.	800,000	650,000	560,000	670,000
2,000ltr	No.	600,000	350,000	360,000	470,000
1,000ltr	No.	400,000	180,000	240,000	250,000
500ltr	No.	250,000	150,000	200,000	180,000

Size of the Sim Tank	Unit	Price (TZS) in the Region			
		Katavi	Ruvuma	Lindi	Mtwara
10,000ltr	No.	2,900,000	3,100,000	3,000,000	2,800,000
5,000ltr	No.	1,400,000	1,200,000	1,100,000	1,000,000
4,000ltr	No.	900,000	900,000	850,000	850,000
3,000ltr	No.	750,000	650,000	650,000	600,000
2,000ltr	No.	650,000	480,000	450,000	400,000
1,000ltr	No.	450,000	260,000	230,000	300,000
500ltr	No.	250,000	150,000	150,000	180,000

## 2.17 DOORS

A door may be defined as an openable barrier or as a framework of wood, steel, aluminum, glass or a combination of these materials secured in a wall opening. Function of door is to give access to the inside of a room of a building. It serves as a connecting link between the various internal portions of building. During this survey several types of doors were observed and their prices recorded. The types surveyed were hard Wood door, Flush doors, Grilled doors Aluminium doors as well as PVC doors. They were found to be available in most of the shops in the surveyed regions. The Table below shows the types of the doors surveyed and their prices in the surveyed regions.

**Table showing the prices of Doors in Surveyed Regions**

Types of Doors	Dimension	Unit	Price (TZS) in the Region			
			Iringa	Mbeya	Songwe	Rukwa
<b>H/W DOORS</b>	45X900X2100mm	no	500,000	280,000	350,000	400,000
	45X800X2100mm	no	450,000	280,000	300,000	350,000
<b>FLUSH DOORS</b>	45X900X2100mm	no	85,000	250,000	INA	80,000
	45X800X2100mm	no	75,000	250,000	INA	75,000
<b>GRILLED DOORS</b>	double door	m <sup>2</sup>	130,000	150,000	100,000	120,000
	single door	m <sup>2</sup>	100,000	110,000	90,000	95,000
<b>ALUMINIUM DOORS</b>	900X2100mm	m <sup>2</sup>	150,000	150,000	125,000	120,000
<b>PVC DOORS</b>	900X2100mm	m <sup>2</sup>	200,000	200,000	135,000	130,000

*Key: INA = Information Not Available*

Types of Doors	Dimension	Unit	Price (TZS) in the Region			
			Katavi	Ruvuma	Lindi	Mtwara
<b>H/W DOORS</b>	45X900X2100mm	no	300,000	350,000	INA	INA
	45X800X2100mm	no	250,000	300,000	INA	INA
<b>FLUSH DOORS</b>	45X900X2100mm	no	INA	60,000	125,000	130,000
	45X800X2100mm	no	INA	55,000	120,000	110,000
<b>GRILLED DOORS</b>	double door	m <sup>2</sup>	160,000	140,000	155,000	150,000
	single door	m <sup>2</sup>	130,000	100,000	125,000	120,000
<b>ALUMINIUM DOORS</b>	900X2100mm	m <sup>2</sup>	150,000	160,000	130,000	120,000
<b>PVC DOORS</b>	900X2100mm	m <sup>2</sup>	160,000	200,000	145,000	150,000

### 3.0 HIRE RATES FOR PLANT AND EQUIPMENT

In construction, plant refers to heavy machinery and equipment used during construction works. At the smaller scale, there may be some overlap between what is considered plant, small plant, tools, small tools or equipment. Very broadly, tools might be considered to be instruments that are used by hand, whereas equipment might refer to a set of tools used for a single purpose. Construction plant is generally re-useable, and so as well as being purchased new, it may be purchased second hand or hired.

During this survey it was found that Plants and Equipment are hired from a contractor based in respective regions. However, in all regions the available plants and Equipments were found to be very limited. The hiring rates were per eight hours in a day and were found to vary from region to region. The mainly available plant and equipment were: Rollers, Water Bowser, Excavator, Grader, Asphalt Paver, Chip Spreader, Pneumatic Roller, Plate Compactor/Pedestrian Roller, Dozer, Wheel loader, Bitumen sprayer, Concrete mixer, Low Bed, Toyota Land Cruiser and Lorries/Tipper. The Table below shows the plant and equipment hiring rates as was surveyed in respective regions.

**Table showing the hiring rates of plants and equipment in Surveyed Regions**

Type of Plants and Equipment	Unit	Hiring Rates (TZS)			
		Iringa	Mbeya	Songwe	Rukwa
Roller 3900	8hrs	700,000	600,000	INA	700,000
Water Bowser 15,000 ltrs	8hrs	400,000	300,000	INA	400,000
Toyota Land Cruiser	8hrs	100,000	120,000	INA	150,000
Lorries/Tipper of any size	8hrs	350,000	350,000	INA	400,000
Excavator	8hrs	1,000,000	800,000	INA	1,200,000
Grader	8hrs	1,000,000	820,000	INA	1,000,000
Asphalt Paver	8hrs	INA	1,500,000	INA	1,500,000

Type of Plants and Equipment	Unit	Hiring Rates (TZS)			
		Iringa	Mbeya	Songwe	Rukwa
Chipping Spreader	8hrs	INA	1,500,000	INA	1,500,000
Pneumatic Roller	8hrs	INA	600,000	INA	750,000
Plate Compactor/Pedestrian Roller	8hrs	250,000	200,000	INA	200,000
Tower Crane	hr	350,000		INA	300,000
Dozer	8hrs	INA	840,000	INA	INA
Wheel loader	8hrs	INA	INA	INA	INA
Bitumen sprayer	8hrs	INA	INA	INA	INA
Concrete mixer (small)	8hrs	INA	INA	INA	INA
Low Bed	8hrs	INA	INA	INA	INA
Compressor	8hrs	INA	600,000	INA	INA

Type of Plants and Equipment	Unit	Hiring Rates (TZS)			
		Katavi	Ruvuma	Lindi	Mtwara
Roller 3900	8hrs	750,000	600,000	750,000	650,000
Water Bowser 15,000 ltrs	8hrs	450,000	300,000	400,000	400,000
Toyota Land Cruiser	8hrs	INA	INA	INA	INA
Lorries/Tipper of any size	8hrs	450,000	400,000	400,000	400,000
Excavator	8hrs	900,000	700,000	1,000,000	850,000
Grader	8hrs	1,100,000	700,000	1,000,000	1,000,000
Asphalt Paver	8hrs	1,300,000	INA	INA	1,200,000
Chipping Spreader	8hrs	600,000	INA	2,240,000	500,000
Pneumatic Roller	8hrs	INA	INA	750,000	INA
Plate Compactor/Pedestrian Roller	8hrs	INA	INA	250,000	INA
Tower Crane	hr	INA	INA	INA	INA
Dozer	8hrs	1,100,000	800,000	1,500,000	1,000,000
Wheel loader	8hrs	800,000	INA	1,000,000	700,000
Bitumen sprayer	8hrs	1,500,000	INA	INA	1,400,000
Concrete mixer (small)	8hrs	150,000	INA	INA	100,000
Low Bed	8hrs	1,200,000	INA	1,500,000	1,000,000
Compressor	8hrs	INA	INA	INA	INA

Key: INA = Information Not Available

#### 4.0 LABOUR (UNSKILLED)

Unskilled labor refers to workers who have no special training or experience. It is a part of the workforce with a very limited skill set. Unskilled labor consists of people with a high school diploma or less. However, when the economy is struggling, people with degrees may do unskilled work. In some parts of the world today, employees with law degrees are working as cleaners.

Most sectors of the economy require unskilled labor. Workers with no skills are at the bottom of the socioeconomic ladder of the active population. The active population refers to people with jobs. During harvest time, farms take on lots of unskilled labor. Their work requires the minimum of training and experience.

For the survey conducted it was revealed that in most regions labourers are easily available during dry season only, while during wet season people are busy with agricultural activities. In other regions such as Katavi, labour is available only in some localities of the region. It is not easy to get them in some areas due to agricultural, fishing and mining activities. Due to that, contractors are required to borrow labour force from the nearby regions. When they come to work on construction sites, sometimes they are being paid as piece work system and sometimes are being paid as per day work. The rate of payment varies from one contractor to another.

Table showing the Labor Wages in Surveyed Regions.

Labour	Unit	Wage (TZS)			
		Iringa	Mbeya	Songwe	Rukwa
Unskilled	Day	Paid per piecework	10,000	Paid per piecework	7,000
Steel fixer	Day	INA	20,000	INA	INA
Carpenter	Day	INA	20,000	INA	INA

Key: INA = Information Not Available

Labour	Unit	Wage (TZS)			
		Katavi	Ruvuma	Lindi	Mtwara
Unskilled	Day	Paid per piece works	Paid per piecework	15,000	15,000
Steel fixer	Day	INA	INA	INA	INA
Carpenter	Day	INA	INA	INA	INA

#### 5.0 RECOMMENDATIONS AND WAY FORWARD

From this survey it was found out that:



- a) The Current Report presents Basic Price List at region levels, however, projects are often implemented at even lower levels. The prices at different towns, wards, and villages in a particular region may differ significantly when compared by the prices established in here. Similarly different regions will record different basic price lists. Generally however, the prices are competitive and are greatly influenced by local market condition of demand and supply and to some extent are partly influenced by macro environment at national and international environment level). This indicates that the construction industry is healthy as it encourages competitive pricing and business competition.
- b) It is assumed that depending on the season at which the information was collected, prices of some materials, plant, equipment and labour may differ when surveyed at different season. This is mainly influenced by three main reasons. First, the accessibility of the supply outlet from major all weather roads) especially during rainy seasons. Second, the availability of labour force, again during the rainy season, and third, the demand fluctuation during the year. It is known that most construction works are implemented during the dry season, particularly after the harvest season. With this in mind, it is important that prices of similar resources, from similar sources, be surveyed during the rainy season, and other major agricultural seasons. This will enable price fluctuations during different reasons to be recorded and be factored out in establishing average prices of resources.
- c) The current Basic Price list is intended to be the baseline price data for the establishment of Price indices for respective localities.. Inevitably, other surveys at reasonable intervals, say after every six months, have to be undertaken to collect Basic Price Lists of similar resources from similar sources. This will not only enable prices to be updated, but also provide information through which price indices will be established.
- d) Tanzania is a vast country, consequently, prices differ from one town to the other depending on the distance from the nearest sources of materials or the other market forces defined by the micro environment of the locality. Particular challenges are associated with remote areas where the demand for some resources are not enough to attract many or big supply outlets. It is therefore expected that average regional or town prices will be used to estimate construction costs in those areas, as well as indices for adjusting prices of projects implemented in those localities. However, in order to improve the reliability of Price information at district levels, it will be necessary

that resources be set aside to extend the data collection exercise to the district and town levels.

- e) Particular challenge is posed when it comes to labour wages and equipment and plant hire rates in remote areas. Often, there are fewer projects implemented in remote areas, as such, skills, equipment and plant are scarce in these areas. Even the Basic Price List collected during this exercise is not well qualified for generalization. It is mainly influenced mainly by the current construction activities in the regions. In other words, the time window within which the fluctuations of these resources occurs may be smaller than the six months interval suggested for updating price information. It is recommended that for resources like labour, equipment and plant, the Basic Price List should be surveyed more frequently than the other materials. Monthly surveys are suggested for these resources.
  
- f) The Databank of basic price list for construction materials, labour wages, equipment and plant hire rates is an inevitable resource for improving construction cost management in Tanzania. However, experience shows that stakeholders are still reluctant to share price list of their products and services. Consequently, the establishment and indeed that continuous updating of the information in the databank will require huge than necessary resources to undertake. It is recommended that, NCC should establish collaborations with major construction material factories, major hardware stores, major equipment and plant hire centres, labour unions, construction cost experts, major infrastructure agencies, and consultants in order that instead of physically visiting the outlets to survey price information, these collaborative stakeholders could provide the required information to NCC for compilation and analysis. This will reduce the cost of collecting the price list data, but also will increase the frequencies for data updating as well as increase the number of towns and districts covered in the databank.
  
- g) Despite construction being an important sector of the economy, availability of construction related information/data is a challenge in Tanzania. Serious gaps in data are witnessed. The gap include information on current statistics on construction activities, consumption of construction materials, employment of construction labour, construction costs, methods of financing of construction projects, etc. Therefore NCC should collaborate with other institutions public and private to collect, compile, analyse, store, and publish critical information for tracking the construction industry development, growth and expansion. Similar systems should be develop at zonal and regional levels so as to capture and reflect zonal and regional differences as well as

ensure availability of reliable basic construction industry information is readily available.

- h) The current basic price list information was sourced from major outlets (major hardware stores and factory agents), which are usually used by contractors, and individuals sourcing bulk (large quantities). However, most individuals implementing private small to medium projects, do use shops other than these major outlets. The prices of these smaller outlets are relatively higher. It is recommended that, a factor be established to averagely convert basic prices from major outlets to prices of relatively smaller outlets. This information be included in the Databank in case private individuals will use the basic price list established in this exercise.
  
- i) It can be seen that price of other important materials and resources like fuel (diesel), bituminous materials, electrical work materials, plumbing work materials, even the labour rates do not include semi skilled and skilled worker rates, the different work trades are not recognized. In order to ensure that the Price List is comprehensive and include all necessary resources at the appropriate detail levels, more refined data collection tools need to be used in the data survey exercises. It is therefore recommended that next survey exercises should expand the resources whose information is collected, as well as refine the level of detail at which the resource price is surveyed.
  
- j) Beyond basic price lists, construction costs are commonly based on construction work rates. It is recommended that the survey of basic price list should be extended to also collect average construction work rates. In so doing, both cost estimation and cost management responsibilities will be provided with reliable data upon which to base the decisions and actions. This assignment should be preceded by establishing basic construction work items commonly specified in each construction trades.

# **APPENDICES**

# APPENDIX I: PRICE LIST OF CONSTRUCTION MATERIALS FOR IRINGA REGION

## PRICE OF CONSTRUCTION MATERIALS (IRINGA - JUNE, 2019)

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
<b>1</b>	<b>CEMENT</b>					
	32.5N/mm <sup>2</sup>	50kg bag	15,000.00	Dar, Mtwara, Mbeya, Tanga		
	42.5N/mm <sup>2</sup>	50kg bag	16,000.00	Ditto		
	White cement	40kg bag	30,000.00	Ditto		
<b>2</b>	<b>HIGH TENSILE STEEL REINFORCEMENTS</b>					
	8mm Dia	ton	2,650,000.00	DSM		
	10mm Dia	ton	2,300,000.00	DSM		
	12mm Dia	ton	1,971,000.00	DSM		
	16mm Dia	ton	1,850,000.00	DSM		
	20mm Dia	ton	1,850,000.00	DSM		
	25mm Dia	ton	1,850,000.00	DSM		
	32mm Dia	ton	1,850,000.00	DSM		
	<b>MILD STEEL BARS</b>					
	8mm Dia	ton	2,650,000.00	DSM		
	10mm Dia	ton	2,300,000.00	DSM		
	12mm Dia	ton	1,971,000.00	DSM		
	16mm Dia	ton	1,850,000.00	DSM		
	20mm Dia	ton	1,850,000.00	DSM		
	25mm Dia	ton	1,850,000.00	DSM		
	32mm Dia	ton	1,850,000.00	DSM		
<b>3</b>	<b>AGGREGATES</b>					
	6mm Dia	m <sup>3</sup>	130,000.00	Lugoba - Coast	403	Price includes transport cost
	10mm Dia	m <sup>3</sup>	130,000.00	Ditto		
	13mm Dia	m <sup>3</sup>	130,000.00	Ditto		
	14mm Dia	m <sup>3</sup>	130,000.00	Ditto		
	19mm Dia	m <sup>3</sup>	130,000.00	Ditto		
	20mm Dia	m <sup>3</sup>	130,000.00	Ditto		
	25mm Dia	m <sup>3</sup>	130,000.00	Ditto		
<b>4</b>	<b>SAND</b>	m <sup>3</sup>	17,500.00		4	<ul style="list-style-type: none"> <li>Includes transport</li> <li>Easy to get</li> </ul>
<b>5.</b>	<b>HARD CORE</b>	m <sup>3</sup>	10,000.00		2	Includes transport to town.
<b>6.</b>	<b>READY MIX CONCRETE</b>					
	Class 15	m <sup>3</sup>	N/A			
	Class 20	m <sup>3</sup>	N/A			
	Class 25	m <sup>3</sup>	N/A			
	Class 30	m <sup>3</sup>	N/A			
<b>7.</b>	<b>PLANT AND EQUIPMENT HIRE</b>					
	Roller 3900	8hours	700,000.00			<ul style="list-style-type: none"> <li>Plants and Equipment are hired from a contractor based in Iringa.</li> <li>The available</li> </ul>
	Water Bowser 15,000 ltrs	8hours	400,000.00			
	Toyota Land Cruiser	8hours	100,000.00			
	Lorries/Tipper of any size	8hours	350,000.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	Excavator	8hours	1,000,000.00			plants and Equipments are limited.
	Grader	8hours	1,000,000.00			
	Asphalt Paver	8hours	N/A			
	Chipping Spreader	8hours	N/A			
	Pneumatic Roller	8hours	N/A			
	Plate Compactor/Pedestrian Roller	8hours	250,000.00			
	Tower Crane	Hour	350,000.00			
8.	<b>SOFTWOOD TREATED</b>					
	150x50mm, 12ft	pc	7,500.00	Mafinga and Kilolo	150	
	100x50mm, 12ft	pc	5300.00	Ditto		
	75x50mm, 12ft	pc	3,800.00	Ditto		
	50x50mm, 12ft	pc	2,800.00	Ditto		
	150x25mm, 12ft	pc	5,000.00	Ditto		
9.	<b>SOFTWOOD NOT TREATED</b>					
	150x50mm, 12ft	pc	7,000.00	Mafinga and Kilolo	700	
	100x50mm, 12ft	pc	4,800.00	Ditto		
	75x50mm, 12ft	pc	3,300.00	Ditto		
	50x50mm, 12ft	pc	2,500.00	Ditto		
	150x25mm, 12ft	pc	4,500.00	Ditto		
10	<b>HARDWOOD - MNINGA/MKONGO</b>					
	150x50mm	9ft	46,000.00	Katavi/S'Wanga		
	200,000.00	9ft	70,800.00	Ditto		
11	<b>PAINTS</b>					
	Gross Paints	4litre	22,000.00	Dar		
	Acrylic Emulsion Paints	20litres	40,000.00	Ditto		
	Plastic Emulsion Paints	20litres	40,000.00	Ditto		
	Weather Guard Paints	20litres	150,000.00	Ditto		
	Wash n Wear Paints	20litres	160,000.00	Ditto		
12	<b>MARINE BOARD</b>					
	8ftx4ftx18mm	pc	60,000.00	Ditto		
	8ftx4ftx12m	pc	50,000.00	Ditto		
13	<b>HARDCORE</b>					
	Stones	m <sup>3</sup>	17,500.00	Iringa	5	
14	<b>PROBES</b>					
	Probes for Formworks	pc	3,000.00	Ditto		
15	<b>LABOUR</b>					
	Un skilled Labour	Day	As per piece work			
16.	<b>ROOFING SHEETS</b>					
	<b>C.I Sheets</b>					
	G32 – 10ft	pc	14,500.00	Dar		
	G30 – 10ft	pc	16,800.00	Ditto		
	<b>IT Sheets (T5)</b>					
	G30 – 10ft	pc	24,000.00	Ditto		
	G28 -10ft	pc	32,000.00	Ditto		
17	<b>GYPSON BOARDS</b>					
	Gypsum Board, ex China, 8ftx4ftx10mm thick	pc	20,000.00	Dar		
	Gypsum Board, ex Thailand, 8ftx4ftx10mm thick	pc	28,000.00	Ditto		
	Cornice, 6ft	pc	5,000.00	Ditto		
	Gypsum lining	m	5,000.00	Ditto		
	Gypsum decorative	no	20,000.00	Ditto		

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	Gypsum angle decorative	no	20,000.00	Ditto		
	Gypsum powder, 25kg	bag	20,000.00	Ditto		
18.	<b>NAILS</b>					
	Roofing nails	box	28,000.00	Dar		
	Normal nails	kg	4,000.00	Ditto		
19.	<b>SIM TANK</b>					
	10,000ltr	no	2,900,000.00	Dar		
	5,000ltr	no	1,500,000.00	Ditto		
	4,000ltr	no	1,000,000.00	Ditto		
	3,000ltr	no	800,000.00	Ditto		
	2,000ltr	no	600,000.00	Ditto		
	1,000ltr	no	400,000.00	Ditto		
	500ltr	no	250,000.00	Ditto		
23	<b>PORCELAIN TILES TRYFORD CHINA</b>					
	400x400x10mm					
	500X500X10mm	7pcs box	38,000.00			
	600X600X10mm	4pcs box	40,000.00			
24.	<b>CERAMIC WALL TILES TRYFORD CHINA</b>					
	250X400X10mm					
25	<b>KITCHEN SINK</b>					
	Double tray Stainless steel 780 X 400mm wide	PC	150,000.00			
	Double tray Stainless steel 750 X 440mm wide	PC	130,000.00			
	Double tray Stainless steel 800 X 430mm wide	PC	180,000.00			
	Single Tray Stainless steel	PC	95,000.00			
26.	<b>PLUMBING AND SANITATION</b>					
	<b>WASH HAND BASIN (WHB)</b>					
	large	PC	320,000.00			
	small	PC	160,000.00			
	<b>WC- Western Type</b>					
	WC- Armitage	PC	320,000.00			
	WC-china	PC	280,000.00			
	<b>WC- Eastern Type</b>					
	WC-china	PC	20,000.00			
	WC Armitage	PC	80,000.00			
	<b>SOAP DISPENSER</b>	PC	30,000.00			
	<b>PVC PIPES</b>					
	<b>Class A</b>					
	19mm Dia	m	1,200.00			
	38mm Dia	6m PC	10,000.00			
	100mm Dia	6m Pc	16,000.00			
	<b>Class B</b>					
	13mm Dia	m	1,300.00	Dar		
	19mm Dia	m	1,500.00			
	25mm Dia	m	1,500.00			
	38mm Dia	m	5,500.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	50mm Dia	m	6,500.00			
	75mm Dia	6m	45,000.00			
	100mm Dia	6m	55,000.00			
	150mm Dia	6m	65,000.00			
	<b>Class C</b>					
	19mm Dia	m	2,000.00			
	25mm Dia	m	2200.00			
	38mm Dia	m	5,500.00			
	50mm Dia	m	8,000.00			
27	<b>DOORS</b>					
	H/W					
	45X900X2100mm High	no	500,000.00			
	45X800X2100mm High	no	450,000.00			
28.	<b>FLUSH DOORS</b>					
	45X900X2100mm High	no	85,000.00			
	45X800X2100mm High	no	75,000.00			
29.	<b>GRILLED DOORS</b>					
	double door	sm	130,000.00			
	single door	sm	100,000.00			
30	<b>GRILLED WINDOW</b>					
	Grilled window	sm	95,000.00			
31	<b>HOLLOW STEEL SECTIONS</b>					
	Size 3/4" x 3/4" x 1	pc	9,000.00			
	Size 3/4" x 3/4" x 1.2	pc	10,000.00			
	Size 3/4" x 3/4" x 1.6	pc	14,000.00			
	Size 1" x 1" x 1	pc	12,000.00			
	Size 1" x 1" x 1.2	pc	12,000.00			
	Size 1" x 1" x 1.6	pc	15,000.00			
	Size 1 1/2" x 1" x 1.2	pc	17,000.00			
	Size 1 1/2" x 1" x 1.6	pc	17,500.00			
	Size 1 1/4" x 1 1/4" x 1.2	pc	15,000.00			
	Size 1 1/4" x 1 1/4" x 1.6	pc	N/A			
	Size 1 1/2" x 1 1/2" x 1.2	pc	19,000.00			
	Size 1 1/2" x 1 1/2" x 1.6	pc	N/A			
	Size 2" x 1" x 1.2	Pc	23,000.00			
	Size 2" x 1" x 1.6	Pc				
32.	<b>STEEL SHEETS</b>					
	1200x1800x1mm thick	PC	60,000.00			
	1200x1800x1.2 mm thick	PC	75,000.00			
	1200x1800x1.6 mm thick	PC	95,000.00			
	<b>Z- PURLINS</b>					
	30x40x30x1.2mm thick	6m PC	45,000.00			
33.	<b>CONCRETE BLOCKS</b>					
	4inch	pc	1,000.00			
	5inch	pc	1,200.00			
	6inch	pc	1,500.00			
34.	<b>ALUMINIUM DOORS</b>					
	900X2100mm High Well Fabricated Aluminium Door	m <sup>2</sup>	150,000.00			



	<b>MATERIAL</b>	<b>UNIT</b>	<b>PRICE, TSH</b>	<b>SOURCES</b>	<b>DISTANCE FROM TOWN/CITY, Km</b>	<b>REMARKS</b>
	Complete with Furniture					
	Ditto, PVC	m <sup>2</sup>	<b>200,000.00</b>			
34	<b>ALUMINIUM WINDOWS</b>					
	Well Fabricated Aluminium Window with 5mm thick clear glass Complete with furniture	m <sup>2</sup>	<b>120,000.00</b>			
	Ditto, Tinted Glass Ditto	m <sup>2</sup>	<b>130,000.00</b>			
35.	<b>STEEL ANGLES</b>					
	25x25x3mm thick	6m pc	<b>17,000.00</b>			
	50x75x3mm thick	6m pc	<b>35,000.00</b>			
	50x100x4mm thick	6m pc	<b>45,000.00</b>			
	38x38x4mm thick	6m pc	<b>35,000.00</b>			
36.	<b>GALVANISED STEEL PIPES</b>					
	19mm Dia	6m pc	<b>30,000.00</b>			
	25mm Dia	6m pc	<b>35,000.00</b>			
	38mm Dia	6m pc	<b>65,000.00</b>			
	50mm Dia	6m pc	<b>85,000.00</b>			

### **ADDITIONAL INFORMATION COLLECTED IN IRINGA REGION**

The following information was also collected in Iringa Region

<b>S/No</b>	<b>Description</b>	<b>Status</b>	<b>Remarks</b>
1.	Labour	Easily Available during dry season only	During wet season people are busy with agricultural activities.
2.	Quarries for Production of Aggregates	There is no firm to produce and supply aggregates in the area.	
3.	Sand	Sand is easily obtained in the area.	
4.	Plants and Equipment	There is no firm for hiring plants and equipments in the area.	Plants and Equipments are hired from contractors who are idle during the period.

### **Challenges**

- Obtaining labour force during rainy season is difficult.
- Most of the construction materials are imported from Dar es Salaam, a distance exceeding 400kms.

- Gravel is not readily available in some areas of Iringa Region. For instance, Kilolo district.
- Reinforcement Bars are found to be supplied with length of less than 40fts.

## APPENDIX II: PRICE LIST OF CONSTRUCTION MATERIALS FOR LINDI REGION

### PRICE OF CONSTRUCTION MATERIALS (LINDI REGION – JULY, 2019)

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
<b>1</b>	<b>CEMENT</b>					
	32.5N/mm <sup>2</sup>	50kg bag	12,500.00	Mtwara		
	42.5N/mm <sup>2</sup>	50kg bag	13,000.00	Ditto		
	White cement	40kg bag	35,000.00	Ditto		
<b>2</b>	<b>HIGH TENSILE STEEL REINFORCEMENTS</b>					
	8mm Dia	ton	2,530,000.00	DSM		
	10mm Dia	ton	2,300,000.00	DSM		
	12mm Dia	ton	2,064,000.00	DSM		
	16mm Dia	ton	1,560,000.00	DSM		
	20mm Dia	ton	N/A	N/A		
	25mm Dia	ton	N/A	N/A		
	32mm Dia	ton	N/A	N/A		
	<b>MILD STEEL BARS</b>					
	8mm Dia (12,000.00)	ton	2,530,000.00	DSM		
	10mm Dia (17,000.00)	ton	2,300,000.00	DSM		
	12mm Dia (22,000.00)	ton	2,064,000.00	DSM		
	16mm Dia(29,000.00)	ton	1,560,000.00	DSM		
	20mm Dia	ton	N/A	N/A		
	25mm Dia	ton	N/A	N/A		
	32mm Dia	ton	N/A	N/A		
<b>3</b>	<b>AGGREGATES</b>					
	6mm Dia	m <sup>3</sup>	125,000.00	Lugoba	600	<ul style="list-style-type: none"> <li>Price includes transport cost</li> <li>Granitic Aggregates</li> <li>The Quarry is owned by private company</li> </ul>
	10mm Dia	m <sup>3</sup>	125,000.00	Ditto		
	13mm Dia	m <sup>3</sup>	125,000.00	Ditto		
	14mm Dia	m <sup>3</sup>	125,000.00	Ditto		
	19mm Dia	m <sup>3</sup>	125,000.00	Ditto		
	20mm Dia	m <sup>3</sup>	125,000.00	Ditto		
	25mm Dia	m <sup>3</sup>	125,000.00	Ditto		
	Dust	m <sup>3</sup>	125,000.00	Ditto		
<b>4</b>	<b>SAND</b>	m <sup>3</sup>	25,000.00		5	<ul style="list-style-type: none"> <li>Includes transport to town</li> <li>Readily Available</li> </ul>
<b>5.</b>	<b>HARD CORE</b>	m <sup>3</sup>	17,500.00		15	Includes transport to town.
<b>6.</b>	<b>READY MIX CONCRETE</b>					
	Class 15	m <sup>3</sup>	N/A			Not available
	Class 20	m <sup>3</sup>	N/A			Ditto
	Class 25	m <sup>3</sup>	N/A			Ditto
	Class 30	m <sup>3</sup>	N/A			Ditto
<b>7.</b>	<b>PLANT AND EQUIPMENT HIRE</b>			Lindi Town		
	Roller 3900	8hours	750,000.00			<ul style="list-style-type: none"> <li>Plants and Equipment are Hired from a contractor when She is Idle</li> </ul>
	Water Bowser 15,000 ltrs	8hours	400,000.00			
	Toyota Land Cruiser	8hours	N/A			
	Lorries/Tipper of any	8hours	400,000.00			

	<b>MATERIAL</b>	<b>UNIT</b>	<b>PRICE, TSH</b>	<b>SOURCES</b>	<b>DISTANCE FROM TOWN/CITY, Km</b>	<b>REMARKS</b>
	size					• Not easily obtainable
	Excavator -	8hours	1,000,000.00			
	Grader	8hours	1,000,000.00			
	Asphalt Paver	8hours	N/A			
	Chip Spreader	8hours	2,240,000.00			
	Pneumatic Roller	8hours	750,000.00			
	Plate Compactor/Pedestrian Roller	8hours	250,000.00			
	Tower Crane	Hour	N/A			
	Dozer	8hours	1,500,000.00			
	Wheel loader	8hours	1,000,000.00			
	Bitumen sprayer	8hours	N/A			
	Concrete mixer (small)	8hours	N/A			
	Low Bed	8hours	1,500,000.00			
8.	<b>SOFTWOOD TREATED</b>					
	150x50mm, 12ft	pc	14,000.00	Mafinga and Njombe	102 and 240	
	100x50mm, 12ft	pc	7,500.00	Ditto		
	75x50mm, 12ft	pc	6,000.00	Ditto		
	50x50mm, 12ft	pc	4,000.00	Ditto		
	200x25mm, 12ft	pc	15,000.00	Ditto		
	250x25mm, 12ft	pc	25,000.00	Ditto		
9.	<b>SOFTWOOD NOT TREATED</b>					
	150x50mm, 12ft	pc	14,000.00	Mbinga and Njombe		
	100x50mm, 12ft	pc	7,500.00	Ditto		
	75x50mm, 12ft	pc	6,000.00	Ditto		
	50x50mm, 12ft	pc	3,500.00	Ditto		
	150x25mm, 12ft	pc	4,000.00	Ditto		
	25x200mm 12ft	pc	15,000.00	Ditto		
	25x250mm 12ft	pc	25,000.00	Ditto		
10	<b>HARDWOOD - MNINGA/MKONGO</b>					
	150x50mm, 10ft	pc	25,000.00	Kilwa and Mozambique		Obtained by Ordering
	25x250mm, 10ft	pc	25,000.00	Ditto		
	50x200mm, 10ft	pc	30,000.00	Ditto		
11	<b>PAINTS</b>					
	<b>Gross Paints</b>	4litre	22,000.00	Dar		
	Acrylic Emulsion Paints	20litres	35,000.00	Ditto		
	Plastic Emulsion Paints	20litres	35,000.00	Ditto		
	Weather Guard Paints	20litres	150,000.00	Ditto		
	Wash n Wear Paints	20litres	150,000.00	Ditto		
12	<b>MARINE BOARD</b>					
	8ftx4ftx18mm	pc	70,000.00	Dar		
	8ftx4ftx12mm	pc	60,000.00			
13	<b>Plywood</b>					
	4ftx8ft sheet	pc	15,000.00	Dar		
14	<b>PROBES</b>					
	Probes for Forworks	pc	4,000.00	Kilwa		
15	<b>LABOUR</b>					
	Un skilled Labour	Day	15,000.00			
16.	<b>ROOFING SHEETS</b>					
	<b>C.I Sheets</b>					
	G32 – 10ft	pc	16,500.00	Dar		
	G30 – 10ft	pc	19,000.00	Ditto		

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	<b>G28 – 10ft</b>	pc	27,000.00	Ditto		
	<b>IT Sheets</b>					
	<b>G30 – 10ft</b>	pc	30,000.00	Ditto		
	<b>G28 10ft</b>	m	36,000.00	Ditto		
<b>17</b>	<b>GYPSUM BOARDS</b>					
	Gypsum Board, ex China, 8ftx4ftx10mm thick	pc	17,000.00	Dar		
	Gypsum Board, ex Thailand, 8ftx4ftx10mm thick	pc	21,000.00	Ditto		
	Cornice, 6ft	pc	4,000.00	Ditto		
	Gypsum lining	m	7,000.00	Ditto		
	Gypsum decorative	no	15,000.00	Ditto		
	Gypsum angle decorative	no	25,000.00	Ditto		
	Gypsum powder, 25kg (BBG)	bag	16,000.00	Ditto		
<b>18.</b>	<b>NAILS</b>					
	Roofing nails (IT)	box	35,000.00	Dar		
	Normal Roofing nails	kg	4,000.00	Ditto		
	Normal Nails	kg	3,500.00	Ditto		
<b>19.</b>	<b>SIM TANK</b>					
	10,000ltr	no	3,000,000.00	Dar		
	5,000ltr	no	1,100,000.00	Ditto		
	4,000ltr	no	850,000.00	Ditto		
	3,000ltr	no	650,000.00	Ditto		
	2,000ltr	no	450,000.00	Ditto		
	1,000ltr	no	230,000.00	Ditto		
	500ltr	no	150,000.00	Ditto		
<b>23</b>	<b>PORCELAIN TILES TRYFORD CHINA</b>					
	400x400x10mm	12pcs box	22,000.00	Ditto		
	500X500X10mm	7pcs box	35,000.00	Ditto		
	600X600X10mm	4pcs box	40,000.00	Ditto		
<b>24.</b>	<b>CERAMIC WALL TILES TRYFORD CHINA</b>					
	250X400X10mm	15pcs box	20,000.00	Dar		
	200x300x10mm	16pcs box	15,000.00	Dar		
<b>25</b>	<b>KITCHEN SINK</b>					
	Double tray Stainless steel 780 X 400mm wide	PC	75,000.00	Dar		
	Double tray Stainless steel 750 X 440mm wide	PC	70,000.00	Ditto		
	Double tray Stainless steel 800 X 430mm wide	PC	75,000.00	Ditto		
	Single Tray Stainless steel	PC	50,000.00	Ditto		
<b>26.</b>	<b>PLUMBING AND SANITATION</b>					
	<b>WASH HAND BASIN (WHB)</b>					
	large	PC	300,000.00			
	small	PC	250,000.00			
	<b>WC- Western Type</b>					

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CIT Y, Km	REMARKS
	WC- Armitage	PC	300,000.00			
	WC-china	PC	250,000.00			
	<b>WC- Eastern Type</b>					
	WC-china	PC	25,000.00			
	WC Armitage	PC	35,000.00			
	WC Coloured	pc	45,000.00			
	<b>SOAP DISPENSER</b>	PC	25,000.00			
	<b>PVC PIPES</b>					
	<b>Class A</b>					
	38mm Dia	6m PC	10,000.00			
	100mm Dia	6m Pc	15,000.00			
	50mm Dia	6m pc	12,000.00			
	<b>Class B</b>					
	13mm Dia	m	1,000.00	Dar		
	19mm Dia	m	1,200.00			
	25mm Dia	m	1,300.00			
	38mm Dia	m	5,000.00			
	50mm Dia	m	6,000.00			
	75mm Dia	6m	35,000.00			
	100mm Dia	6m	35,000.00			
	150mm Dia	6m	70,000.00			
	<b>Class C</b>					
	19mm Dia	m	2,500.00			
	25mm Dia	m	2,800.00			
	38mm Dia	m	5,500.00			
	50mm Dia	m	9,000.00			
27	<b>DOORS</b>					
	<b>H/W</b>					
	45X900X2100mm High	no	N/A			
	45X800X2100mm High	no	N/A			
28.	<b>FLUSH DOORS</b>					
	45X900X2100mm High	no	125,000.00			
	45X800X2100mm High	no	120,000.00			
29.	<b>GRILLED DOORS</b>					
	double door	m <sup>2</sup>	155,000.00			
	single door	m <sup>2</sup>	125,000.00			
30	<b>GRILLED WINDOW</b>					
	Grilled window	sm	110,000.00			
31	<b>HOLLOW STEEL SECTIONS</b>					
	Size 3/4" x 3/4" x 1	pc	10,000.00			
	Size 3/4" x 3/4" x 1.2	pc	12,000.00			
	Size 3/4" x 3/4" x 1.6	pc	13,000.00			
	Size 1" x 1" x 1	pc	13,000.00			
	Size 1" x 1" x 1.2	pc	11,500.00			
	Size 1" x 1" x 1.6	pc	14,500.00			
	Size 1 1/2" x 1" x 1.2	pc	17,500.00			
	Size 1 1/2" x 1" x 1.6	pc	18,000.00			
	Size 1 1/4" x 1 1/4" x 1.2	pc	15,000.00			
	Size 1 1/2" x 1 1/2" x 1.2	pc	20,000.00			
	Size 2" x 1" x 1.2	Pc	25,000.00			
	Size 2" x 2" x 1.2	pc	25,000.00			
32.	<b>STEEL SHEETS</b>					

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	1200x1800x1mm thick	PC	55,000.00			
	1200x1800x1.2 mm thick	PC	65,000.00			
	1200x1800x1.6 mm thick	PC	75,000.00			
	<b>Z- PURLINS</b>					
	30x40x30x1.2mm thick	6m PC	N/A			
33.	<b>CONCRETE BLOCKS</b>					
	4inch	pc	900.00			
	5inch	pc	1,000.00			
	6inch	pc	1,500.00			
34.	<b>ALUMINIUM DOORS</b>					
	900X2100mm High Well Fabricated Aluminium Door Complete with Furniture	m <sup>2</sup>	130,000.00			
	Ditto, PVC	m <sup>2</sup>	145,000.00			
34	<b>ALUMINIUM WINDOWS</b>					
	Well Fabricated Aluminium Window with 5mm thick clear glass Complete with furniture	m <sup>2</sup>	120,000.00			
	Ditto, Tinted Glass Ditto	m <sup>2</sup>	140,000.00			
35.	<b>CHIP BOARDS</b>					
	4ftx6ft sheet	pc	18,000.00	Dar		
36.	<b>STEEL BLACK PIPES</b>					
	63mm Dia	6m pc	90,000.00	Dar		
	38mm Dia	pc	60,000.00			
	31.25mm Dia	pc	45,000.00			
	25mm Dia	pc	32,000.00			
	19mm Dia	pc	25,000.00			
	13mm Dia	pc	20,000.00			
37.	<b>PRECAST CONCRETE PIPE CULVERTS</b>					
	600mm Dia	pc	120,000.00			
	900mm Dia	pc	140,000.00			
	1200mm Dia	pc	170,000.00			
38.	<b>GALVANISED STEEL PIPES</b>					
	13mm Dia, 6m	pc	N/A			
	38mm Dia, 6m	pc	N/A			
	75mm Dia, 6m	pc	N/A			
39.	<b>WIRE MESH</b>					
	4ftx8ftx2.5mm Dia (wide space)	pc	15,000.00			
	4ftx8ftx2.5mm Dia (Narrow space)	pc	20,000.00			
40.	<b>PAVING BLOCKS</b>					
	Paving blocks	m <sup>2</sup>	30,000.00			

## ADDITIONAL COLLECTED INFORMATION

The following information have also been collected in Lindi Region

S/No	Description	Status	Remarks
1.	Labour	Available in many localities of the region.	Contractors used to pay them in piece work system. The payment varies from one contractor to another.
2.	Quarries for Production of Aggregates	There is no aggregate quarries that are based in Lindi Region	Granite aggregates are obtained from Lugoba which is more than 600kms from Lindi town.
3.	Sand	Sand is easily sourced in the area. It is found within 40kms from Lindi Town.	
4.	Plants and Equipment	There is no firm which owns plants and equipment for hire. The service is offered by few contractors who are based in Lindi Region. They usually hire out their few plants and equipment when idle.	
5.	Gravel	Generally gravel is easily obtained in many parts of the region.	

### Challenges

- It is difficult to get granite aggregates in Lindi Region;
- Most of the construction materials are imported from Dar es Salaam, a distance exceeding 300kms
- In Lindi, Plants and equipment are not readily available, the hiring service is only offered by idle contractors.
- Reinforcement Bars are found to be supplied with length of less than 40fts.





## APPENDIX III: PRICE LIST OF CONSTRUCTION MATERIALS FOR MBEYA REGION

### PRICE LIST OF CONSTRUCTION MATERIALS (MBEYA REGION – JUNE, 2019)

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
<b>1</b>	<b>CEMENT</b>					
	32.5N/mm <sup>2</sup>	50kg bag	11,525.43	Mbeya cement		
	42.5N/mm <sup>2</sup>	50kg bag	15,000.00	Ditto		
	White cement	40kg bag	35,000.00	Ditto		
<b>2</b>	<b>HIGH TENSILE STEEL REINFORCEMENTS</b>					
	8mm Dia	ton	2,600,000.00	DSM		
	10mm Dia	ton	2,600,000.00	DSM		
	12mm Dia	ton	2,400,000.00	DSM		
	16mm Dia	ton	2,400,000.00	DSM		
	20mm Dia	ton	2,400,000.00	DSM		
	25mm Dia	ton	2,400,000.00	DSM		
	32mm Dia	ton	2,400,000.00	DSM		
	<b>MILD STEEL BARS</b>					
	8mm Dia	ton	2,000,000.00	DSM		
	10mm Dia	ton	2,000,000.00	DSM		
	12mm Dia	ton	1,800,000.00	DSM		
	16mm Dia	ton	1,800,000.00	DSM		
	20mm Dia	ton	1,800,000.00	DSM		
	25mm Dia	ton	1,800,000.00	DSM		
	32mm Dia	ton	1,800,000.00	DSM		
<b>3</b>	<b>AGGREGATES</b>					
				Msisi	35	Price includes transport cost to town centre
	6mm Dia	m <sup>3</sup>	77,000.00			
	10mm Dia	m <sup>3</sup>	77,000.00	Ditto		
	13mm Dia	m <sup>3</sup>	77,000.00	Ditto		
	14mm Dia	m <sup>3</sup>	77,000.00	Ditto		
	19mm Dia	m <sup>3</sup>	77,000.00	Ditto		
	20mm Dia	m <sup>3</sup>	77,000.00	Ditto		
	25mm Dia	m <sup>3</sup>	77,000.00	Ditto		
<b>4</b>	<b>SAND</b>	m <sup>3</sup>	24,000.00	Mbeya	4	• Includes transport
<b>5.</b>	<b>HARD CORE</b>	m <sup>3</sup>	25,000.00		5	Includes transport to town.
<b>6.</b>	<b>READY MIX CONCRETE</b>					
	Class 15	m <sup>3</sup>	230,000.00			Includes transport to town
	Class 20	m <sup>3</sup>	270,000.00			Ditto
	Class 25	m <sup>3</sup>	320,000.00			Ditto
	Class 30	m <sup>3</sup>	370,000.00			Ditto
<b>7.</b>	<b>PLANT AND EQUIPMENT HIRE</b>					
	Roller 3900	8hours	600,000.00			
	Water Bowser 15,000 ltrs	8hours	300,000.00			
	Toyota Land Cruiser	8hours	120,000.00			
	Lorries/Tipper of any size	8hours	350,000.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	Excavator –	8hours	800,000.00			
	Dozer D4 HP 95	8hours	840,000.00			
	Grader	8hours	820,000.00			
	Asphalt Paver	8hours	1,500,000.00			
	Chipping Spreader	8hours	1,500,000.00			
	Pneumatic Roller	8hours	600,000.00			
	Plate Compactor/Pedestrian Roller	8hours	200,000.00			
	Compressor	8hours	600,000.00			
8.	<b>SOFTWOOD TREATED</b>					
	150x50mm, 12ft	pc	10,000.00	Mafinga	263	
	100x50mm, 12ft	pc	8,000.00	Ditto		
	75x50mm, 12ft	pc	5,500.00	Ditto		
	50x50mm, 12ft	pc	4,500.00	Ditto		
	150x25mm, 12ft	pc	10,000.00	Ditto		
9.	<b>SOFTWOOD NOT TREATED</b>					
	150x50mm, 12ft	pc	8,500.00	Mafinga	263	
	100x50mm, 12ft	pc	6,500.00	Ditto		
	75x50mm, 12ft	pc	4,500.00	Ditto		
	50x50mm, 12ft	pc	3,000.00	Ditto		
	150x25mm, 12ft	pc	9,000.00	Ditto		
10	<b>HARDWOOD - MNINGA/MKONGO</b>					
	150x50mm	9ft	65,000.00	Katavi/S'Wanga	324	
11	<b>PAINTS</b>					
	Gross Paints	1litre	6,000	Dar		
	Acrylic Emulsion Paints	20litres	35,000	Ditto		
	Plastic Emulsion Paints	20litres	35,000	Ditto		
	Weather Guard Paints	20litres	155,000.00	Ditto		
	Wash n Wear Paints	20litres	160,000.00	Ditto		
12	<b>MARINE BOARD</b>					
	8ftx4ftx18mm	pc	75,000.00	Ditto		
13	<b>HARDCORE</b>					
	Stones	m <sup>3</sup>	25,000.00	mbeya	5	
14	<b>PROBES</b>					
	Probes for Forworks	pc	2,000.00	Ditto		
15	<b>LABOUR</b>					
	Un skilled Labour	Per Day	10,000.00			
	Steel fixer	Per day	20,000.00			
	Carpenter	Per Day	20,000.00			
16.	<b>ROOFING SHEETS</b>					
	<b>C.I Sheets</b>					
	G32 – 10ft	pc	12,000.00	Dar		
	G30 – 10ft	pc	16,500.00	Ditto		
	<b>IT Sheets</b>					
	G30 – 10ft	pc	19,000.00	Dar		
17	<b>GYPSUM BOARDS</b>					
	Gypsum Board, ex China, 8ftx4ftx10mm thick	pc	16,500.00	Dar		
	Gypsum Board, ex Thailand, 8ftx4ftx10mm thick	pc	22,000.00	Ditto		
	Cornice, 6ft	pc	5,000.00	Ditto		
	Gypsum lining	m	10,000.00	Ditto		
	Gypsum decorative	no	3,500.00	Ditto		
	Gypsum angle decorative	no	5,000.00	Ditto		

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	Gypsum powder, 25kg	bag	20,000.00	Ditto		
18.	<b>NAILS</b>					
	Roofing nails	kg	12,000.00	Dar		
	Normal nails	kg	3,000.00	Ditto		
19.	<b>SIM TANK</b>					
	10,000ltr	no	2,500,000.00	Dar		
	5,000ltr	no	950,000.00	Ditto		
	4,000ltr	no	750,000.00	Ditto		
	3,000ltr	no	650,000.00	Ditto		
	2,000ltr	no	350,000.00	Ditto		
	1,000ltr	no	180,000.00	Ditto		
	500ltr	no	150,000.00	Ditto		
23	<b>PORCELAIN TILES</b>					
	<b>RAK</b>					
	600X600X10mm	4pcs box	45,000.00			
	<b>TRYFORD CHINA</b>					
	400x400x10mm					
	500X500X10mm	7pcs box	40,000.00			
	600X600X10mm	4pcs box	45,000.00			
	Grade A.					
	600X600X10mm	4pcs box	55,000.00			
	Grade B					
	600X600X10mm	4pcs box	45,000.00			
24.	<b>CERAMIC WALL TILES</b>					
	250X400X10mm	15pcs box	17,000			
25	<b>KITCHEN SINK</b>					
	Double tray Stainless steel 780 X 400mm wide	PC	250,000.00			
	Double tray Stainless steel 750 X 440mm wide	PC	200,000.00			
	Double tray Stainless steel 800 X 430mm wide	PC	280,000.00			
	Single Tray Stainless steel	PC	180,000.00			
26.	<b>PLUMBING AND SANITATION</b>					
	<b>WASH HAND BASIN (WHB)</b>					
	large	PC	250,000.00			
	small	PC	180,000.00			
	<b>WC- Western Type</b>					
	WC- Armitage	PC	150,000.00			
	WC-china	PC	130,000.00			
	<b>WC- Eastern Type</b>					
	WC-china	PC	30,000.00			
	WC Armitage	PC	120,000.00			
	<b>SOAP DISPENSER</b>	PC	10,000.00			
	<b>PVC PIPES</b>					
	<b>Class A</b>					
	38mm Dia	6m PC	7,500.00			
	100mm Dia	6m Pc	12,000.00			
	<b>Class B</b>					
	13mm Dia	m	1,100.00	Dar		

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	19mm Dia	m	1,200.00			
	25mm Dia	m	1,400.00			
	38mm Dia	m	4,500.00			
	50mm Dia	m	6,500.00			
	75mm Dia	m	7,000.00			
	100mm Dia	6m	50,000.00			
	150mm Dia	6m	70,000.00			
	<b>Class C</b>					
	19mm Dia	m	1,300.00			
	25mm Dia	m	2,000.00			
	38mm Dia	m	4,500.00			
	50mm Dia	m	7,000.00			
27	<b>DOORS</b>					
	<b>H/W</b>					
	45X900X2100mm High	no	280,000.00			
	45X800X2100mm High	no	280,000.00			
28.	<b>FLUSH DOORS</b>					
	45X900X2100mm High	no	250,000.00			
	45X800X2100mm High	no	250,000.00			
29.	<b>GRILLED DOORS</b>					
	double door	sm	150,000.00			
	single door	sm	110,000.00			
30	<b>GRILLED WINDOW</b>					
	Grilled window	sm	90,000.00			
31	<b>IRON MONGERY</b>					
	100mm Hinges	Pc	8,000.00			
	Mortice Locks	pc	95,000.00			
32	<b>HOLLOW STEEL SECTIONS</b>					
	Size 3/4" x 3/4" x 1	pc	12,500.00			
	Size 3/4" x 3/4" x 1.2	pc	13,000.00			
	Size 3/4" x 3/4" x 1.6	pc	14,000.00			
	Size 1" x 1" x 1	pc	13,500.00			
	Size 1" x 1" x 1.2	pc	15,000.00			
	Size 1" x 1" x 1.6	pc	16,000.00			
	Size 1 1/2" x 1" x 1.2	pc	16,000.00			
	Size 1 1/2" x 1" x 1.6	pc	17,500.00			
	Size 1 1/4" x 1 1/4" x 1.2	pc	18,000.00			
	Size 1 1/4" x 1 1/4" x 1.6	pc	25,000.00			
	Size 1 1/2" x 1 1/2" x 1.2	pc	25,000.00			
	Size 1 1/2" x 1 1/2" x 1.6	pc	N/A			
	Size 2" x 1" x 1.2	Pc	25,000.00			
	Size 2" x 1" x 1.6	Pc	N/A			
33	<b>STEEL SHEETS</b>					
	1200x1800x1mm thick	PC	65,000.00			
	1200x1800x1.2 mm thick	PC	80,000.00			
	1200x1800x1.6 mm thick	PC	95,000.00			
34	<b>Z- PURLINS</b>					
	30x40x30x1.2mm thick	6m PC	40,000.00			
35.	<b>CONCRETE BLOCKS</b>					
	4inch	pc	1,300.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	5inch	pc	1,500.00			
	6inch	pc	1,500.00			
36.	<b>ALUMINIUM DOORS</b>					
	900X2100mm High Well Fabricated Aluminium Door Complete with Furniture	m <sup>2</sup>	150,000.00			
	Ditto, PVC	m <sup>2</sup>	200,000.00			
37	<b>ALUMINIUM WINDOWS</b>					
	Well Fabricated Aluminium Window with 5mm thick clear glass Complete with furniture	m <sup>2</sup>	150,000.00			
	Ditto, Tinted Glass Ditto	m <sup>2</sup>	180,000.00			
38	<b>Welded Grilled Window</b>	m <sup>2</sup>	250,000.00			

### ADDITIONAL INFORMATION COLLECTED

The following information was also collected in Mbeya Region

S/No	Description	Status	Remarks
1.	Labour	Easily available during dry season only	During wet season people are mostly engaged in agricultural activities.
2.	Quarries for Production of Aggregates	There is a quarry at Msihi that produces and supplies aggregates in the area. The Quarry is located 35kms from the Mbeya City	
3.	Sand	Sand is easily obtained in the area. It is found about 5km from the City.	
4.	Plants and Equipment	There are firms which own plants and equipment for hire.	

### Challenges

- Obtaining labour force during rainy season is difficult.
- Most of the construction materials are supplied from Dar es Salaam, a distance exceeding 800kms.



## APPENDIX IV: PRICE LIST OF CONSTRUCTION MATERIALS FOR KATAVI REGION

### PRICE LIST OF CONSTRUCTION MATERIALS (KATAVI REGION – JUNE, 2019)

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
<b>1</b>	<b>CEMENT</b>					
	32.5N/mm <sup>2</sup>	50kg bag	19,500.00	Mtwara and Mbeya		
	42.5N/mm <sup>2</sup>	50kg bag	19,500.00	Ditto		
	White cement	40kg bag	40,000.00	Ditto		
<b>2</b>	<b>HIGH TENSILE STEEL REINFORCEMENTS</b>					
	8mm Dia (14,000.00/pc)	ton	2,960,000.00	DSM		
	10mm Dia (16,500.00/pc)	ton	2,230,000.00	DSM		
	12mm Dia (24,000.00/pc)	ton	2,250,000.00	DSM		
	16mm Dia(40,000.00/pc)	ton	2,110,000.00	DSM		
	20mm Dia	ton	2365,000.00	DSM		
	25mm Dia	ton	N/A	N/A		
	32mm Dia	ton	N/A	N/A		
	<b>MILD STEEL BARS</b>					
	8mm Dia	ton	2,540,000.00	DSM		
	10mm Dia	ton	2,300,000.00	DSM		
	12mm Dia	ton	1,970,000.00	DSM		
	16mm Dia	ton	2,006,000.00	DSM		
	20mm Dia	ton	N/A	N/A		
	25mm Dia	ton	N/A	N/A		
	32mm Dia	ton	N/A	N/A		
<b>3</b>	<b>AGGREGATES</b>					
	6mm Dia	m <sup>3</sup>	29,500.00	Mpanda	15	<ul style="list-style-type: none"> <li>• Price excludes transport cost</li> <li>• Granitic Aggregates</li> <li>• The Quarry is owned by private company</li> </ul>
	10mm Dia	m <sup>3</sup>	59,000.00	Ditto		
	13mm Dia	m <sup>3</sup>	59,000.00	Ditto		
	14mm Dia	m <sup>3</sup>	59,000.00	Ditto		
	19mm Dia	m <sup>3</sup>	59,000.00	Ditto		
	20mm Dia	m <sup>3</sup>	82,600.00	Ditto		
	25mm Dia	m <sup>3</sup>	82,600.00	Ditto		
	Dust	m <sup>3</sup>	29,500.00	Ditto		
<b>4</b>	<b>SAND</b>	m <sup>3</sup>	30,000.00		4	<ul style="list-style-type: none"> <li>• Includes transport to town</li> <li>• Readily Available</li> </ul>
<b>5.</b>	<b>HARD CORE</b>	m <sup>3</sup>	33,000.00		10	Includes transport to town.
<b>6.</b>	<b>READY MIX CONCRETE</b>					
	Class 15	m <sup>3</sup>	N/A			Not available
	Class 20	m <sup>3</sup>	N/A			Ditto
	Class 25	m <sup>3</sup>	N/A			Ditto
	Class 30	m <sup>3</sup>	N/A			Ditto
<b>7.</b>	<b>PLANT AND EQUIPMENT HIRE</b>			Mtwara Town		



	<b>MATERIAL</b>	<b>UNIT</b>	<b>PRICE, TSH</b>	<b>SOURCES</b>	<b>DISTANCE FROM TOWN/CITY, Km</b>	<b>REMARKS</b>
	Roller 3900	8hours	<b>750,000.00</b>			<ul style="list-style-type: none"> <li>Plants and Equipment are Hired from a contractor when She is Idle</li> <li>Not easily obtainable</li> </ul>
	Water Bowser 15,000 ltrs	8hours	<b>450,000.00</b>			
	Toyota Land Cruiser	8hours	<b>N/A</b>			
	Lorries/Tipper of any size	8hours	<b>450,000.00</b>			
	Excavator -	8hours	<b>900,000.00</b>			
	Grader	8hours	<b>1,100,000.00</b>			
	Asphalt Paver	8hours	<b>1,300,000.00</b>			
	Chipping Spreader	8hours	<b>600,000.00</b>			
	Pneumatic Roller	8hours	<b>N/A</b>			
	Plate Compactor/Pedestrian Roller	8hours	<b>N/A</b>			
	Tower Crane	Hour	<b>N/A</b>			
	Dozer	8hours	<b>1,100,000.00</b>			
	Wheel loader	8hours	<b>800,000.00</b>			
	Bitumen sprayer	8hours	<b>1,500,000.00</b>			
	Concrete mixer (small)	8hours	<b>150,000.00</b>			
	Low Bed	8hours	<b>1,200,000.00</b>			
<b>8.</b>	<b>SOFTWOOD TREATED</b>					
	150x50mm, 12ft	pc	<b>13,000.00</b>	<b>Mafinga and Njombe</b>	<b>102 and 240</b>	
	100x50mm, 12ft	pc	<b>10,000.00</b>	<b>Ditto</b>		
	75x50mm, 12ft	pc	<b>8,000.00</b>	<b>Ditto</b>		
	50x50mm, 12ft	pc	<b>5,000.00</b>	<b>Ditto</b>		
	200x25mm, 12ft	pc	<b>14,000.00</b>	<b>Ditto</b>		
	250x25mm, 12ft	pc	<b>19,500.00</b>	<b>Ditto</b>		
<b>9.</b>	<b>SOFTWOOD NOT TREATED</b>					
	150x50mm, 12ft	pc	<b>12,500.00</b>	<b>Mafinga and Njombe</b>		
	100x50mm, 12ft	pc	<b>9,500.00</b>	<b>Ditto</b>		
	75x50mm, 12ft	pc	<b>7,500.00</b>	<b>Ditto</b>		
	50x50mm, 12ft	pc	<b>4,500.00</b>	<b>Ditto</b>		
	200x25mm, 12ft	pc	<b>13,500.00</b>	<b>Ditto</b>		
	250x25mm, 12ft	pc	<b>18,000.00</b>	<b>Ditto</b>		
<b>10</b>	<b>HARDWOOD - MNINGA/MKONGO</b>					
	150x50mm, 10ft	pc	<b>25,000.00</b>	<b>Katavi Forests</b>		Obtained by Ordering (Not easy to get)
	25x250mm, 10ft	pc	<b>25,000.00</b>	<b>Ditto</b>		
	50x200mm, 10ft	pc	<b>40,000.00</b>	<b>Ditto</b>		
<b>11</b>	<b>PAINTS</b>					
	<b>Gross Paints</b>	4litre	<b>25,000.00</b>	<b>Dar</b>		
	Acrylic Emulsion Paints	20litres	<b>40,000.00</b>	<b>Ditto</b>		
	Plastic Emulsion Paints	20litres	<b>40,000.00</b>	<b>Ditto</b>		
	Weather Guard Paints	20litres	<b>140,000.00</b>	<b>Ditto</b>		
	Wash n Wear Paints	20litres	<b>145,000.00</b>	<b>Ditto</b>		
<b>12</b>	<b>MARINE BOARD</b>					
	8ftx4ftx18mm	pc	<b>65,000.00</b>	<b>Dar</b>		
<b>13</b>	<b>PLYWOOD</b>					
	4ftx8ft sheet	pc	<b>22,000.00</b>	<b>Dar</b>		
<b>14</b>	<b>PROBES</b>					
	Probes for Formworks	pc	<b>3,000.00</b>	<b>Kilwa</b>		
<b>15</b>	<b>LABOUR</b>					
	Un skilled Labour	Day	<b>Paid per piece works</b>			Difficult to get due to agricultural and gold mining activities
<b>16.</b>	<b>ROOFING SHEETS</b>					

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	<b>C.I Sheets</b>					
	G32 – 10ft	pc	16,500.00	Dar		
	G30 – 10ft	pc	17,000.00	Ditto		
	G28 – 10ft	pc	29,200.00	Ditto		
	<b>IT Sheets</b>					
	G30 – 10ft	pc	26,000.00	Ditto		
	G28 10ft	m	37,500.00	Ditto		
17.	<b>GYPNUM BOARDS</b>					
	Gypsum Board, ex China, 8ftx4ftx10mm thick	pc	16,000.00	Dar		
	Gypsum Board, ex Thailand, 8ftx4ftx10mm thick	pc	20,000.00	Ditto		
	Cornice, 6ft	pc	4,000.00	Ditto		
	Gypsum lining	m	7,000.00	Ditto		
	Gypsum decorative	no	15,000.00	Ditto		
	Gypsum angle decorative	no	25,000.00	Ditto		
	Gypsum powder, 25kg (BBG)	bag	16,000.00	Ditto		
18.	<b>NAILS</b>					
	Roofing nails (IT)	box	35,000.00	Dar		
	Normal Roofing nails	kg	4,000.00	Ditto		
	Normal Nails	kg	3,500.00	Ditto		
19.	<b>SIM TANK</b>					
	10,000ltr	no	2,900,000.00	Dar		
	5,000ltr	no	1,400,000.00	Ditto		
	4,000ltr	no	900,000.00	Ditto		
	3,000ltr	no	750,000.00	Ditto		
	2,000ltr	no	650,000.00	Ditto		
	1,000ltr	no	450,000.00	Ditto		
	500ltr	no	250,000.00	Ditto		
23	<b>PORCELAIN TILES</b>					
	<b>TRYFORD CHINA</b>					
	400x400x10mm	12pcs box	30,000.00	Ditto		
	500X500X10mm	7pcs box	45,000.00	Ditto		
	600X600X10mm	4pcs box	42,000.00	Ditto		
24.	<b>CERAMIC WALL TILES</b>					
	<b>TRYFORD CHINA</b>					
	250X400X10mm	15pcs box	18,000.00	Dar		
	200x300x10mm	16pcs box	13,000.00	Dar		
25	<b>KITCHEN SINK</b>					
	Double tray Stainless steel 780 X 400mm wide	PC	70,000.00	Dar		
	Double tray Stainless steel 750 X 440mm wide	PC	60,000.00	Ditto		
	Double tray Stainless steel 800 X 430mm wide	PC	70,000.00	Ditto		
	Single Tray Stainless steel	PC	55,000.00	Ditto		
26.	<b>PLUMBING AND SANITATION</b>					
	<b>WASH HAND BASIN (WHB)</b>					
	large	PC	350,000.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	small	PC	250,000.00			
	<b>WC- Western Type</b>					
	WC- Armitage	PC	300,000.00			
	WC-china	PC	200,000.00			
	<b>WC- Eastern Type</b>					
	WC-china	PC	20,000.00			
	WC Armitage	PC	40,000.00			
	WC Coloured	pc	50,000.00			
	<b>SOAP DISPENSER</b>	PC	25,000.00			
	<b>PVC PIPES</b>					
	<b>Class A</b>					
	38mm Dia	6m PC	10,000.00			
	100mm Dia	6m Pc	15,000.00			
	50mm Dia	6m pc	12,000.00			
	<b>Class B</b>					
	13mm Dia	m	1,000.00	Dar		
	19mm Dia	m	1,200.00			
	25mm Dia	m	1,300.00			
	38mm Dia	m	5,000.00			
	50mm Dia	m	6,000.00			
	75mm Dia	6m	35,000.00			
	100mm Dia	6m	35,000.00			
	150mm Dia	6m	70,000.00			
	<b>Class C</b>					
	19mm Dia	m	2,500.00			
	25mm Dia	m	2,800.00			
	38mm Dia	m	5,500.00			
	50mm Dia	m	9,000.00			
27	<b>DOORS</b>					
	<b>H/W</b>					
	45X900X2100mm High	no	300,000.00			
	45X800X2100mm High	no	250,000.00			
28.	<b>FLUSH DOORS</b>					
	45X900X2100mm High	no	N/A			
	45X800X2100mm High	no	N/A			
29.	<b>GRILLED DOORS</b>					
	double door	m <sup>2</sup>	160,000.00			
	single door	m <sup>2</sup>	130,000.00			
30	<b>GRILLED WINDOW</b>					
	Grilled window	sm	120,000.00			
31	<b>HOLLOW STEEL SECTIONS</b>					
	Size 3/4" x 3/4" x 1	pc	9,500.00			
	Size 3/4" x 3/4" x 1.2	pc	10,500.00			
	Size 1" x 1" x 1	pc	10,500.00			
	Size 1 1/2" x 1 1/2" x 4	pc	40,000.00			
	Size 1" x 1" x 1.6	pc	15,500.00			
	Size 1 1/2" x 1" x 1	pc	16,500.00			
	Size 1 1/2" x 1 1/2" x 3	pc	30,000.00			
	Size 1 1/4" x 1 1/4" x 1.2	pc	15,000.00			
	Size 1 1/2" x 1 1/2" x 1.2	pc	20,000.00			
	Size 2" x 2" x 1.2	pc	28,000.00			
32.	<b>STEEL SHEETS</b>					
	1200x1800x1mm thick	PC	65,000.00			

	<b>MATERIAL</b>	<b>UNIT</b>	<b>PRICE, TSH</b>	<b>SOURCES</b>	<b>DISTANCE FROM TOWN/CITY, Km</b>	<b>REMARKS</b>
	1200x1800x1.2 mm thick	PC	<b>75,000.00</b>			
	1200x1800x1.6 mm thick	PC	<b>85,000.00</b>			
	<b>Z- PURLINS</b>					
	30x40x30x1.2mm thick	6m PC	<b>N/A</b>			
<b>33.</b>	<b>CONCRETE BLOCKS</b>					
	4inch	pc	<b>1000.00</b>			
	5inch	pc	<b>1,200.00</b>			
	6inch	pc	<b>1,600.00</b>			
<b>34.</b>	<b>ALUMINIUM DOORS</b>					
	900X2100mm High Well Fabricated Aluminium Door Complete with Furniture	m <sup>2</sup>	<b>150,000.00</b>			
	Ditto, PVC	m <sup>2</sup>	<b>160,000.00</b>			
<b>34</b>	<b>ALUMINIUM WINDOWS</b>					
	Well Fabricated Aluminium Window with 5mm thick clear glass Complete with furniture	m <sup>2</sup>	<b>140,000.00</b>			
	Ditto, Tinted Glass Ditto	m <sup>2</sup>	<b>150,000.00</b>			
<b>35.</b>	<b>CHIP BOARDS</b>					
	4ftx6ft sheet	pc	<b>20,000.00</b>	Dar		
<b>36.</b>	<b>BLACK STEEL PIPES</b>					
	63mm Dia	6m pc	<b>90,000.00</b>	Dar		
	75mm Dia	pc	<b>130,000.00</b>			
	50mm Dia	pc	<b>80,000.00</b>			
	38mm Dia	pc	<b>60,000.00</b>			
	25mm Dia	pc	<b>40,000.00</b>			
<b>37.</b>	<b>PRECAST CONCRETE CULVERTS</b>					
	600mm Dia	pc	<b>100,000.00</b>			
	900mm Dia	pc	<b>250,000.00</b>			
	1200mm Dia	pc	<b>300,000.00</b>			
<b>38.</b>	<b>GALVANISED STEEL PIPES</b>					
	13mm Dia, 6m	pc	<b>N/A</b>			
	38mm Dia, 6m	pc	<b>N/A</b>			
	75mm Dia, 6m	pc	<b>N/A</b>			
<b>39.</b>	<b>WIRE MSHH</b>					
	4ftx8ftx2.5mm Dia (wide space)	pc	<b>14,000.00</b>			
	4ftx8ftx2.5mm Dia (Narrow space)	pc	<b>15,000.00</b>			
<b>40.</b>	<b>PAVING BLOCKS</b>					
	Paving blocks	m <sup>2</sup>	<b>N/A</b>			
	<b>GRAVEL</b>					
<b>41.</b>	Gravel Materials	m3		Mpanda	40	Obtained at scarce quantities

## ADDITIONAL COLLECTED INFORMATION

The following information have also been collected

S/No	Description	Status	Remarks
1.	Labour	Available only in some localities of the region. Not easy to get them in some areas due to agricultural and gold mining activities	Contractors are required to recruit and employ labour force from the nearing regions
2.	Quarries for Production of Aggregates	There is a quarry for aggregates operated by Private Company about 15km from Mpanda town.	<ul style="list-style-type: none"> <li>• The region has no problem of availability of good quality aggregates.</li> <li>• However, it was learnt that the current crusher capacity is smaller than the average demand of aggregate in the region.</li> </ul>
3.	Sand	Sand is readily available from nearby sources, about 4kms from Town.	
4.	Plants and Equipment	There is no firm which owns plants and equipment for hire. The service is offered by few contractors who are based in Katavi Region. They usually hire out their few plants and equipment when idle.	Contractors are urged to hire plants and equipments from other regions.
5.	Gravel	Not easily available. Obtained at little amounts more than 40kms from Mpanda Town.	

### Challenges

- Obtaining labour force in Mpanda is difficult due to gold mining and agricultural activities.
- Most of the construction materials are imported from Dar es Salaam, a distance exceeding 1500kms.
- Plants and equipments for the construction works are not readily available in Mpanda region.
- Hardcore materials can be obtained more than 40kms away from Mpanda Town.
- Sources of gravel are scarce, a few are sources with limited capacity are located at distant borrow pits, about 40km from town.
- Reinforcement bars are supplied at lengths less than 40fts.



## APPENDIX V: PRICE LIST OF CONSTRUCTION MATERIALS FOR MTWARA REGION

### PRICE OF CONSTRUCTION MATERIALS (MTWARA REGION – JULY, 2019)

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
<b>1</b>	<b>CEMENT</b>					
	32.5N/mm <sup>2</sup>	50kg bag	12,500.00	Mtwara		
	42.5N/mm <sup>2</sup>	50kg bag	13,000.00	Ditto		
	White cement	40kg bag	35,000.00	Ditto		
<b>2</b>	<b>HIGH TENSILE STEEL REINFORCEMENTS</b>					
	8mm Dia	ton	2,540,000.00	DSM		
	10mm Dia	ton	2,300,000.00	DSM		
	12mm Dia	ton	1,970,000.00	DSM		
	16mm Dia	ton	2,006,000.00	DSM		
	20mm Dia	ton	N/A	N/A		
	25mm Dia	ton	N/A	N/A		
	32mm Dia	ton	N/A	N/A		
	<b>MILD STEEL BARS</b>					
	8mm Dia	ton	2,540,000.00	DSM		
	10mm Dia	ton	2,300,000.00	DSM		
	12mm Dia	ton	1,970,000.00	DSM		
	16mm Dia	ton	2,006,000.00	DSM		
	20mm Dia	ton	N/A	N/A		
	25mm Dia	ton	N/A	N/A		
	32mm Dia	ton	N/A	N/A		
<b>3</b>	<b>AGGREGATES</b>					
	6mm Dia	m <sup>3</sup>	82,000.00	Mtwara	170	<ul style="list-style-type: none"> <li>• Price includes transport cost</li> <li>• Granitic Aggregates</li> <li>• The Quarry is owned by private company</li> </ul>
	10mm Dia	m <sup>3</sup>	82,000.00	Ditto		
	13mm Dia	m <sup>3</sup>	82,000.00	Ditto		
	14mm Dia	m <sup>3</sup>	82,000.00	Ditto		
	19mm Dia	m <sup>3</sup>	82,000.00	Ditto		
	20mm Dia	m <sup>3</sup>	82,000.00	Ditto		
	25mm Dia	m <sup>3</sup>	82,000.00	Ditto		
	Dust	m <sup>3</sup>	82,000.00	Ditto		
	6mm Dia	m <sup>3</sup>	71,000.00	Mtwara	45	<ul style="list-style-type: none"> <li>• Price includes transport</li> <li>• Limestone aggregates</li> <li>• Quarry owned by private company</li> </ul>
	10mm Dia	m <sup>3</sup>	71,000.00	Ditto		
	13mm Dia	m <sup>3</sup>	71,000.00	Ditto		
	14mm Dia	m <sup>3</sup>	71,000.00	Ditto		
	19mm Dia	m <sup>3</sup>	71,000.00	Ditto		
	20mm Dia	m <sup>3</sup>	71,000.00	Ditto		
	25mm Dia	m <sup>3</sup>	71,000.00	Ditto		
	Dust	m <sup>3</sup>	71,000.00	Ditto		
	6mm Dia	m <sup>3</sup>	150,000.00	LUGOBA		<ul style="list-style-type: none"> <li>• Price includes transport cost</li> <li>• Granitic Aggregates</li> <li>• The Quarry is owned by private company</li> </ul>
	10mm Dia	m <sup>3</sup>	150,000.00	Ditto		
	13mm Dia	m <sup>3</sup>	150,000.00	Ditto		
	14mm Dia	m <sup>3</sup>	150,000.00	Ditto		
	19mm Dia	m <sup>3</sup>	150,000.00	Ditto		
	20mm Dia	m <sup>3</sup>	150,000.00	Ditto		
	25mm Dia	m <sup>3</sup>	150,000.00	Ditto		
	Dust	m <sup>3</sup>	150,000.00	Ditto		
<b>4</b>	<b>SAND</b>	m <sup>3</sup>	17,500.00		4	<ul style="list-style-type: none"> <li>• Includes transport to town</li> <li>• Readily</li> </ul>

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
						Available
5.	<b>HARD CORE</b>	m <sup>3</sup>	<b>33,000.00</b>		<b>10</b>	Includes transport to town.
6.	<b>READY MIX CONCRETE</b>					
	Class 15	m <sup>3</sup>	N/A			Not available
	Class 20	m <sup>3</sup>	N/A			Ditto
	Class 25	m <sup>3</sup>	N/A			Ditto
	Class 30	m <sup>3</sup>	N/A			Ditto
7.	<b>PLANT AND EQUIPMENT HIRE</b>			<b>Mtwara Town</b>		
	Roller 3900	8hours	<b>650,000.00</b>			<ul style="list-style-type: none"> <li>Plants and Equipment are Hired from a contractor when She is Idle</li> <li>Not easily obtainable</li> </ul>
	Water Bowser 15,000 ltrs	8hours	<b>400,000.00</b>			
	Toyota Land Cruiser	8hours	<b>N/A</b>			
	Lorries/Tipper of any size	8hours	<b>400,000.00</b>			
	Excavator -	8hours	<b>850,000.00</b>			
	Grader	8hours	<b>1,000,000.00</b>			
	Asphalt Paver	8hours	<b>1,200,000.00</b>			
	Chipping Spreader	8hours	<b>500,000.00</b>			
	Pneumatic Roller	8hours	<b>N/A</b>			
	Plate Compactor/Pedestrian Roller	8hours	<b>N/A</b>			
	Tower Crane	Hour	<b>N/A</b>			
	Dozer	8hours	<b>1,000,000.00</b>			
	Wheel loader	8hours	<b>700,000.00</b>			
	Bitumen sprayer	8hours	<b>1,400,000.00</b>			
	Concrete mixer (small)	8hours	<b>100,000.00</b>			
	Low Bed	8hours	<b>1,000,000.00</b>			
8.	<b>SOFTWOOD TREATED</b>					
	150x50mm, 12ft	pc	<b>11,000.00</b>	<b>Mafinga and Njombe</b>	<b>102 and 240</b>	
	100x50mm, 12ft	pc	<b>7,000.00</b>	<b>Ditto</b>		
	75x50mm, 12ft	pc	<b>6,000.00</b>	<b>Ditto</b>		
	50x50mm, 12ft	pc	<b>4,000.00</b>	<b>Ditto</b>		
	200x25mm, 12ft	pc	<b>13,000.00</b>	<b>Ditto</b>		
	250x25mm, 12ft	pc	<b>18,500.00</b>	<b>Ditto</b>		
9.	<b>SOFTWOOD NOT TREATED</b>					
	150x50mm, 12ft	pc	<b>10,000.00</b>	<b>Mbinga and Njombe</b>		
	100x50mm, 12ft	pc	<b>6,500.00</b>	<b>Ditto</b>		
	75x50mm, 12ft	pc	<b>5,000.00</b>	<b>Ditto</b>		
	50x50mm, 12ft	pc	<b>3,500.00</b>	<b>Ditto</b>		
	150x25mm, 12ft	pc	<b>5,500.00</b>	<b>Ditto</b>		
	25x200mm 12ft	pc	<b>12,000.00</b>	<b>Ditto</b>		
	25x250mm 12ft	pc	<b>18,000.00</b>	<b>Ditto</b>		
10	<b>HARDWOOD - MNINGA/MKONGO</b>					
	150x50mm, 10ft	pc	<b>40,000.00</b>	<b>Kilwa and Mozambique</b>		Obtained by Ordering
	25x250mm, 10ft	pc	<b>40,000.00</b>	<b>Ditto</b>		
	50x200mm, 10ft	pc	<b>50,000.00</b>	<b>Ditto</b>		
11	<b>PAINTS</b>					
	<b>Gross Paints</b>	4litre	<b>20,000.00</b>	Dar		
	Acrylic Emulsion Paints	20litres	<b>35,000.00</b>	Ditto		
	Plastic Emulsion Paints	20litres	<b>35,000.00</b>	Ditto		
	Weather Guard Paints	20litres	<b>135,000.00</b>	Ditto		
	Wash n Wear Paints	20litres	<b>140,000.00</b>	Ditto		



	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
12	<b>MARINE BOARD</b>					
	8ftx4ftx18mm	pc	60,000.00	Dar		
13	<b>Plywood</b>					
	4ftx8ft sheet	pc	20,000.00	Dar		
14	<b>PROBES</b>					
	Probes for Forworks	pc	4,000.00	Kilwa		
15	<b>LABOUR</b>					
	Un skilled Labour	Day	15,000.00			
16.	<b>ROOFING SHEETS</b>					
	<b>C.I Sheets</b>					
	G32 – 10ft	pc	16,500.00	Dar		
	G30 – 10ft	pc	19,0800.00	Ditto		
	G28 – 10ft	pc	27,000.00	Ditto		
	<b>IT Sheets</b>					
	G30 – 10ft	pc	17,000.00	Ditto		
	G28 10ft	m	26,500.00	Ditto		
17	<b>GYPSUM BOARDS</b>					
	Gypsum Board, ex China, 8ftx4ftx10mm thick	pc	16,000.00	Dar		
	Gypsum Board, ex Thailand, 8ftx4ftx10mm thick	pc	20,000.00	Ditto		
	Cornice, 6ft	pc	4,000.00	Ditto		
	Gypsum lining	m	7,000.00	Ditto		
	Gypsum decorative	no	15,000.00	Ditto		
	Gypsum angle decorative	no	25,000.00	Ditto		
	Gypsum powder, 25kg (BBG)	bag	16,000.00	Ditto		
18.	<b>NAILS</b>					
	Roofing nails (IT)	box	30,000.00	Dar		
	Normal Roofing nails	kg	4,000.00	Ditto		
	Normal Nails	kg	3,000.00	Ditto		
19.	<b>SIM TANK</b>					
	10,000ltr	no	2,800,000.00	Dar		
	5,000ltr	no	1,000,000.00	Ditto		
	4,000ltr	no	850,000.00	Ditto		
	3,000ltr	no	600,000.00	Ditto		
	2,000ltr	no	400,000.00	Ditto		
	1,000ltr	no	300,000.00	Ditto		
	500ltr	no	180,000.00	Ditto		
23	<b>PORCELAIN TILES</b>					
	<b>TRYFORD CHINA</b>					
	400x400x10mm	12pcs box	22,000.00	Ditto		
	500X500X10mm	7pcs box	37,000.00	Ditto		
	600X600X10mm	4pcs box	42,000.00	Ditto		
24.	<b>CERAMIC WALL TILES</b>					
	<b>TRYFORD CHINA</b>					
	250X400X10mm	15pcs box	17,000.00	Dar		
	200x300x10mm	16pcs box	11,000.00	Dar		
25	<b>KITCHEN SINK</b>					
	Double tray Stainless steel 780 X 400mm wide	PC	75,000.00	Dar		
	Double tray Stainless steel 750 X 440mm wide	PC	65,000.00	Ditto		
	Double tray Stainless	PC	70,000.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	steel 800 X 430mm wide			Ditto		
	Single Tray Stainless steel	PC	55,000.00	Ditto		
26.	<b>PLUMBING AND SANITATION</b>					
	<b>WASH HAND BASIN (WHB)</b>					
	large	PC	350,000.00			
	small	PC	250,000.00			
	<b>WC- Western Type</b>					
	WC- Armitage	PC	300,000.00			
	WC-china	PC	200,000.00			
	<b>WC- Eastern Type</b>					
	WC-china	PC	20,000.00			
	WC Armitage	PC	40,000.00			
	WC Coloured	pc	50,000.00			
	<b>SOAP DISPENSER</b>	PC	25,000.00			
	<b>PVC PIPES</b>					
	<b>Class A</b>					
	38mm Dia	6m PC	10,000.00			
	100mm Dia	6m Pc	15,000.00			
	50mm Dia	6m pc	12,000.00			
	<b>Class B</b>					
	13mm Dia	m	1,000.00	Dar		
	19mm Dia	m	1,200.00			
	25mm Dia	m	1,300.00			
	38mm Dia	m	5,000.00			
	50mm Dia	m	6,000.00			
	75mm Dia	6m	35,000.00			
	100mm Dia	6m	35,000.00			
	150mm Dia	6m	70,000.00			
	<b>Class C</b>					
	19mm Dia	m	2,500.00			
	25mm Dia	m	2,800.00			
	38mm Dia	m	5,500.00			
	50mm Dia	m	9,000.00			
27	<b>DOORS</b>					
	<b>H/W</b>					
	45X900X2100mm High	no	N/A			
	45X800X2100mm High	no	N/A			
28.	<b>FLUSH DOORS</b>					
	45X900X2100mm High	no	130,000.00			
	45X800X2100mm High	no	110,000.00			
29.	<b>GRILLED DOORS</b>					
	double door	m <sup>2</sup>	150,000.00			
	single door	m <sup>2</sup>	120,000.00			
30	<b>GRILLED WINDOW</b>					
	Grilled window	sm	120,000.00			
31	<b>HOLLOW STEEL SECTIONS</b>					
	Size 3/4" x 3/4" x 1	pc	10,000.00			
	Size 3/4" x 3/4" x 1.2	pc	12,000.00			
	Size 3/4" x 3/4" x 1.6	pc	13,000.00			
	Size 1" x 1" x 1	pc	13,000.00			
	Size 1" x 1" x 1.2	pc	11,500.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	Size 1" x 1" x 1.6	pc	14,500.00			
	Size 1 1/2" x 1" x 1.2	pc	17,500.00			
	Size 1 1/2" x 1" x 1.6	pc	18,000.00			
	Size 1 1/4" x 1 1/4" x 1.2	pc	15,000.00			
	Size 1 1/4" x 1 1/4" x 1.6	pc	N/A			
	Size 1 1/2" x 1 1/2" x 1.2	pc	20,000.00			
	Size 1 1/2" x 1 1/2" x 1.6	pc	N/A			
	Size 2" x 1" x 1.2	Pc	25,000.00			
	Size 2" x 1" x 1.6	Pc	N/A			
	Size 2" x 2" x 1.2	pc	25,000.00			
32.	<b>STEEL SHEETS</b>					
	1200x1800x1mm thick	PC	60,000.00			
	1200x1800x1.2 mm thick	PC	70,000.00			
	1200x1800x1.6 mm thick	PC	80,000.00			
	<b>Z- PURLINS</b>					
	30x40x30x1.2mm thick	6m PC	N/A			
33.	<b>CONCRETE BLOCKS</b>					
	4inch	pc	900.00			
	5inch	pc	1,000.00			
	6inch	pc	1,500.00			
34.	<b>ALUMINIUM DOORS</b>					
	900X2100mm High Well Fabricated Aluminium Door Complete with Furniture	m <sup>2</sup>	120,000.00			
	Ditto, PVC	m <sup>2</sup>	150,000.00			
34	<b>ALUMINIUM WINDOWS</b>					
	Well Fabricated Aluminium Window with 5mm thick clear glass Complete with furniture	m <sup>2</sup>	100,000.00			
	Ditto, Tinted Glass Ditto	m <sup>2</sup>	150,000.00			
35.	<b>CHIP BOARDS</b>					
	4ftx6ft sheet	pc	20,000.00	Dar		
36.	<b>STEEL PIPES</b>					
	63mm Dia	6m pc	90,000.00	Dar		
37.	<b>CULVERTS</b>					
	600mm Dia	pc	110,000.00			
	900mm Dia	pc	130,000.00			
	1200mm Dia	pc	170,000.00			
38.	<b>GALVANISED STEEL PIPES</b>					
	13mm Dia, 6m	pc	30,000.00			
	38mm Dia, 6m	pc	45,000.00			
	75mm Dia, 6m	pc	180,000.00			
39.	<b>WIRE MSHH</b>					
	4ftx8ftx2.5mm Dia (wide space)	pc	14,000.00			
	4ftx8ftx2.5mm Dia (Narrow space)	pc	15,000.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
40.	<b>PAVING BLOCKS</b>					
	Paving blocks	m <sup>2</sup>	25,000.00			

### ADDITIONAL COLLECTED INFORMATION

The following information was also collected during the survey in Mtwara Region

S/No	Description	Status	Remarks
1.	Labour	Available only in some localities of the region. Not easy to get them in some areas due to agricultural and fishing activities	Contractors are required to recruit and employ labour force from nearby regions
2.	Quarries for Production of Aggregates	There is a quarry of aggregates operated by TANROADS about 120km from Songea town.	Aggregates are readily available
3.	Sand	Sand is easily obtained in the area. It is found about 4kms from the Town.	
4.	Plants and Equipment	There is no firm which owns plants and equipment for hire. The service is offered by few contractors who are based in Mtwara Region. They usually hire out their few plants and equipment when idle.	
5.	Gravel	Not easily available.	

### Challenges

- Obtaining labour force particularly during rainy season is difficult.
- Most of the construction materials are imported from Dar es Salaam, a distance exceeding 1000kms.
- Plants and equipment for the construction works is an issue in the Songea region.
- Hard core is not readily available. it is obtained about 4kms from town.
- Gravel obtainable at a limited content at distant borrow pits.
- Reinforcement Bars are sold in length less than 40fts.



## APPENDIX VI: PRICE LIST OF CONSTRUCTION MATERIALS FOR RUVUMA REGION

### PRICE OF CONSTRUCTION MATERIALS (RUVUMA REGION – JULY, 2019)

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
<b>1</b>	<b>CEMENT</b>					
	32.5N/mm <sup>2</sup>	50kg bag	15,000.00	Mtwara and Tanga,		
	42.5N/mm <sup>2</sup>	50kg bag	16,000.00	Ditto		
	White cement	40kg bag	35,000.00	Ditto		
<b>2</b>	<b>HIGH TENSILE STEEL REINFORCEMENTS</b>					
	8mm Dia	ton	2,750,000.00	DSM		
	10mm Dia	ton	2,230,000.00	DSM		
	12mm Dia	ton	1,971,000.00	DSM		
	16mm Dia	ton	2,006,000.00	DSM		
	20mm Dia	ton	2,800,000.00	DSM		
	25mm Dia	ton	N/A	N/A		
	32mm Dia	ton	N/A	N/A		
	<b>MILD STEEL BARS</b>					
	8mm Dia	ton	2,750,000.00	DSM		
	10mm Dia	ton	2,230,000.00	DSM		
	12mm Dia	ton	1,971,000.00	DSM		
	16mm Dia	ton	2,006,000.00	DSM		
	20mm Dia	ton	2,800,000.00	DSM		
	25mm Dia	ton	N/A	N/A		
	32mm Dia	ton	N/A	N/A		
<b>3</b>	<b>AGGREGATES</b>					
	6mm Dia	m <sup>3</sup>	90,000.00	SONGEA (Lilondo Quarry)	120	Price excludes transport cost to town centre
	10mm Dia	m <sup>3</sup>	90,000.00	Ditto		
	13mm Dia	m <sup>3</sup>	90,000.00	Ditto		The Quarry is owned by TANROADS Songea
	14mm Dia	m <sup>3</sup>	90,000.00	Ditto		
	19mm Dia	m <sup>3</sup>	90,000.00	Ditto		
	20mm Dia	m <sup>3</sup>	90,000.00	Ditto		
	25mm Dia	m <sup>3</sup>	90,000.00	Ditto		
	Dust	m <sup>3</sup>	30,000.00	Ditto		
<b>4</b>	<b>SAND</b>	m <sup>3</sup>	17,500.00		4	<ul style="list-style-type: none"> <li>• Includes transport to town</li> <li>• Readily Available</li> </ul>
<b>5.</b>	<b>HARD CORE</b>	m <sup>3</sup>	20,000.00		120	Excludes transport to town.
<b>6.</b>	<b>READY MIX CONCRETE</b>					
	Class 15	m <sup>3</sup>	N/A			Not available
	Class 20	m <sup>3</sup>	N/A			Ditto
	Class 25	m <sup>3</sup>	N/A			Ditto
	Class 30	m <sup>3</sup>	N/A			Ditto
<b>7.</b>	<b>PLANT AND EQUIPMENT HIRE</b>			SONGEA TOWN		
	Roller 3900	8hours	600,000.00			Plants and Equipment

	<b>MATERIAL</b>	<b>UNIT</b>	<b>PRICE, TSH</b>	<b>SOURCES</b>	<b>DISTANCE FROM TOWN/CITY, Km</b>	<b>REMARKS</b>
	Water Bowser 15,000 ltrs	8hours	<b>300,000.00</b>			are Hired from a contractor when She is Idle
	Toyota Land Cruiser	8hours	<b>N/A</b>			
	Lorries/Tipper of any size	8hours	<b>400,000.00</b>			
	Excavator -	8hours	<b>700,000.00</b>			
	Grader	8hours	<b>700,000.00</b>			
	Asphalt Paver	8hours	<b>N/A</b>			
	Chipping Spreader	8hours	<b>N/A</b>			
	Pneumatic Roller	8hours	<b>N/A</b>			
	Plate Compactor/Pedestrian Roller	8hours	<b>N/A</b>			
	Tower Crane	Hour	<b>N/A</b>			
	Dozer	8hours	<b>800,000.00</b>			
<b>8.</b>	<b>SOFTWOOD TREATED</b>					
	150x50mm, 12ft	pc	<b>10,000.00</b>	<b>Mbinga and Njombe</b>	<b>102 and 240</b>	
	100x50mm, 12ft	pc	<b>6,000.00</b>	<b>Ditto</b>		
	75x50mm, 12ft	pc	<b>5,000.00</b>	<b>Ditto</b>		
	50x50mm, 12ft	pc	<b>3,000.00</b>	<b>Ditto</b>		
<b>9.</b>	<b>SOFTWOOD NOT TREATED</b>					
	150x50mm, 12ft	pc	<b>7,500.00</b>	<b>Mbinga and Njombe</b>	<b>102 and 240</b>	
	100x50mm, 12ft	pc	<b>5,000.00</b>	<b>Ditto</b>		
	75x50mm, 12ft	pc	<b>4,500.00</b>	<b>Ditto</b>		
	50x50mm, 12ft	pc	<b>2,500.00</b>	<b>Ditto</b>		
	150x25mm, 12ft	pc	<b>4,000.00</b>	<b>Ditto</b>		
	25x200mm 12ft	pc	<b>9,500.00</b>	<b>Ditto</b>		
	25x250mm 12ft	pc	<b>12,000.00</b>	<b>Ditto</b>		
<b>10</b>	<b>HARDWOOD - MNINGA/MKONGO</b>					
	150x50mm, 10ft	pc	<b>30,000.00</b>	<b>Not Konown</b>		Obtained by Ordering
	25x250mm, 10ft	pc	<b>45,000.00</b>	<b>Ditto</b>		
	50x200mm, 10ft	pc	<b>45,000.00</b>	<b>Ditto</b>		
<b>11</b>	<b>PAINTS</b>					
	<b>Gross Paints</b>	4litre	<b>20,000.00</b>	<b>Dar</b>		
	Acrylic Emulsion Paints	20litres	<b>35,000.00</b>	<b>Ditto</b>		
	Plastic Emulsion Paints	20litres	<b>35,000.00</b>	<b>Ditto</b>		
	Weather Guard Paints	20litres	<b>130,000.00</b>	<b>Ditto</b>		
	Wash n Wear Paints	20litres	<b>165,000.00</b>	<b>Ditto</b>		
<b>12</b>	<b>MARINE BOARD</b>					
	8ftx4ftx18mm	pc	<b>65,000.00</b>	<b>Dar</b>		
<b>13</b>	<b>Plywood</b>					
	4ftx8ft sheet	pc	<b>25,000.00</b>	<b>Dar</b>		
<b>14</b>	<b>PROBES</b>					
	Probes for Forworks	pc	<b>3,000.00</b>	<b>Mbinga and Njombe</b>		
<b>15</b>	<b>LABOUR</b>					
	Un skilled Labour	Day	<b>Paid per piecework</b>			
<b>16.</b>	<b>ROOFING SHEETS</b>					
	<b>C.I Sheets</b>					
	<b>G32 – 10ft</b>	pc	<b>16,000.00</b>	<b>Dar</b>		
	<b>G30 – 10ft</b>	pc	<b>20,0800.00</b>	<b>Ditto</b>		
	<b>G28 – 10ft</b>	pc	<b>27,000.00</b>	<b>Ditto</b>		
	<b>IT Sheets</b>					

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	<b>G30 – 10ft</b>	pc	<b>26,000.00</b>	Ditto		
	<b>G28</b>	m	<b>17,000.00</b>	Ditto		
17	<b>GYPSUM BOARDS</b>					
	Gypsum Board, ex China, 8ftx4ftx10mm thick	pc	<b>18,000.00</b>	Dar		
	Gypsum Board, ex Thailand, 8ftx4ftx10mm thick	pc	<b>25,000.00</b>	Ditto		
	Cornice, 6ft	pc	<b>5,000.00</b>	Ditto		
	Gypsum lining	m	<b>5,000.00</b>	Ditto		
	Gypsum decorative	no	<b>15,000.00</b>	Ditto		
	Gypsum angle decorative	no	<b>25,000.00</b>	Ditto		
	Gypsum powder, 25kg	bag	<b>22,000.00</b>	Ditto		
18.	<b>NAILS</b>					
	Roofing nails (IT)	box	<b>33,000.00</b>	Dar		
	Normal Roofing nails	kg	<b>4,000.00</b>	Ditto		
	Normal Nails	kg	<b>3,500.00</b>	Ditto		
19.	<b>SIM TANK</b>					
	10,000ltr	no	<b>3,100,000.00</b>	Dar		
	5,000ltr	no	<b>1,200,000.00</b>	Ditto		
	4,000ltr	no	<b>900,000.00</b>	Ditto		
	3,000ltr	no	<b>650,000.00</b>	Ditto		
	2,000ltr	no	<b>480,000.00</b>	Ditto		
	1,000ltr	no	<b>260,000.00</b>	Ditto		
	500ltr	no	<b>150,000.00</b>	Ditto		
23	<b>PORCELAIN TILES</b>					
	<b>TRYFORD CHINA</b>					
	400x400x10mm	12pcs box	<b>38,000.00</b>	Ditto		
	500X500X10mm	7pcs box	<b>42,000.00</b>	Ditto		
	600X600X10mm	4pcs box	<b>48,000.00</b>	Ditto		
24.	<b>CERAMIC WALL TILES</b>					
	<b>TRYFORD CHINA</b>					
	250X400X10mm	15pcs box	<b>18,000.00</b>	Dar		
25	<b>KITCHEN SINK</b>					
	Double tray Stainless steel 780 X 400mm wide	PC	<b>180,000.00</b>	Dar		
	Double tray Stainless steel 750 X 440mm wide	PC	<b>135,000.00</b>	Ditto		
	Double tray Stainless steel 800 X 430mm wide	PC	<b>160,000.00</b>	Ditto		
	Single Tray Stainless steel	PC	<b>65,000.00</b>	Ditto		
26.	<b>PLUMBING AND SANITATION</b>					
	<b>WASH HAND BASIN (WHB)</b>					
	large	PC	<b>160,000.00</b>			
	small	PC	<b>120,000.00</b>			
	<b>WC- Western Type</b>					
	WC- Armitage	PC	<b>300,000.00</b>			
	WC-china	PC	<b>200,000.00</b>			



	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	<b>WC- Eastern Type</b>					
	WC-china	PC	25,000.00			
	WC Armitage	PC	120,000.00			
	WC Coloured	pc	45,000.00			
	<b>SOAP DISPENSER</b>	PC	30,000.00			
	<b>PVC PIPES</b>					
	<b>Class A</b>					
	38mm Dia	6m PC	10,000.00			
	100mm Dia	6m Pc	15,000.00			
	50mm Dia	6m pc	12,000.00			
	<b>Class B</b>					
	13mm Dia	m	1,000.00	Dar		
	19mm Dia	m	1,200.00			
	25mm Dia	m	1,300.00			
	38mm Dia	m	5,000.00			
	50mm Dia	m	6,000.00			
	75mm Dia	6m	50,000.00			
	100mm Dia	6m	60,000.00			
	150mm Dia	6m	70,000.00			
	<b>Class C</b>					
	19mm Dia	m	1,500.00			
	25mm Dia	m	2,200.00			
	38mm Dia	m	5,500.00			
	50mm Dia	m	8,000.00			
27	<b>DOORS</b>					
	H/W					
	45X900X2100mm High	no	350,000.00			
	45X800X2100mm High	no	300,000.00			
28.	<b>FLUSH DOORS</b>					
	45X900X2100mm High	no	60,000.00			
	45X800X2100mm High	no	55,000.00			
29.	<b>GRILLED DOORS</b>					
	double door	sm	140,000.00			
	single door	sm	100,000.00			
30	<b>GRILLED WINDOW</b>					
	Grilled window	sm	100,000.00			
31	<b>HOLLOW STEEL SECTIONS</b>					
	Size 3/4" x 3/4" x 1	pc	10,000.00			
	Size 3/4" x 3/4" x 1.2	pc	11,000.00			
	Size 3/4" x 3/4" x 1.6	pc	13,000.00			
	Size 1" x 1" x 1	pc	13,000.00			
	Size 1" x 1" x 1.2	pc	11,500.00			
	Size 1" x 1" x 1.6	pc	14,500.00			
	Size 1 1/2" x 1" x 1.2	pc	17,500.00			
	Size 1 1/2" x 1" x 1.6	pc	18,000.00			
	Size 1 1/4" x 1 1/4" x 1.2	pc	15,000.00			
	Size 1 1/4" x 1 1/4" x 1.6	pc	N/A			
	Size 1 1/2" x 1 1/2" x 1.2	pc	20,000.00			
	Size 1 1/2" x 1 1/2" x 1.6	pc	N/A			
	Size 2" x 1" x 1.2	Pc	25,000.00			
	Size 2" x 1" x 1.6	Pc	N/A			
32.	<b>STEEL SHEETS</b>					
	1200x1800x1mm thick	PC	55,000.00			

	<b>MATERIAL</b>	<b>UNIT</b>	<b>PRICE, TSH</b>	<b>SOURCES</b>	<b>DISTANCE FROM TOWN/CITY, Km</b>	<b>REMARKS</b>
	1200x1800x1.2 mm thick	PC	<b>66,000.00</b>			
	1200x1800x1.6 mm thick	PC	<b>90,000.00</b>			
	<b>Z- PURLINS</b>					
	30x40x30x1.2mm thick	6m PC	<b>N/A</b>			
<b>33.</b>	<b>CONCRETE BLOCKS</b>					
	4inch	pc	<b>1,200.00</b>			
	5inch	pc	<b>1,400.00</b>			
	6inch	pc	<b>1,600.00</b>			
<b>34.</b>	<b>ALUMINIUM DOORS</b>					
	900X2100mm High Well Fabricated Aluminium Door Complete with Furniture	m <sup>2</sup>	<b>160,000.00</b>			
	Ditto, PVC	m <sup>2</sup>	<b>200,000.00</b>			
<b>34</b>	<b>ALUMINIUM WINDOWS</b>					
	Well Fabricated Aluminium Window with 5mm thick clear glass Complete with furniture	m <sup>2</sup>	<b>140,000.00</b>			
	Ditto, Tinted Glass Ditto	m <sup>2</sup>	<b>180,000.00</b>			
<b>35.</b>	<b>CHIP BOARDS</b>					
	4ftx6ft sheet	pc	<b>16,000.00</b>	Dar		
<b>36.</b>	<b>STEEL PIPES</b>					
	63mm Dia	6m pc	<b>95,000.00</b>	Dar		

## ADDITIONAL COLLECTED INFORMATION

The following information was also collected during the survey in Ruvuma region

<b>S/No</b>	<b>Description</b>	<b>Status</b>	<b>Remarks</b>
1.	Labour	Available only in some localities of the region. Not easy to get them in some areas due to agricultural and fishing activities	Contractors are required to recruit and employ labour force from nearby regions
2.	Quarries for Production of Aggregates	There is a quarry for aggregates run by TANROADS about 120km from Songea town.	The region has no problem with availability of aggregates.
3.	Sand	Sand is easily obtained in the area. It is found about 4kms from the Town.	
4.	Plants and Equipment	There is no firm which owns plants and equipment for	

		hire. Only a few contractors hire out their few plants and equipment when are idle.	
5.	Gravel	Not easily available.	

### Challenges

- Obtaining labour force particularly during rainy season is difficult.
- Most of the construction materials are imported from Dar es Salaam, a distance exceeding 1000kms.
- Plants and equipments for the construction works is an issue in the Ruvuma region.
- Hardcore is not readily available. Obtained about 4kms from town.
- Gravel is scarce in Ruvuma region, limited amount is sourced at distant borrow pits.
- Reinforcement Bars are sold in lengths less than 40fts.

## APPENDIX VII: PRICE LIST OF CONSTRUCTION MATERIALS FOR RUKWA REGION

### PRICE LIST OF CONSTRUCTION MATERIALS (RUKWA REGION – JUNE, 2019)

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
<b>1</b>	<b>CEMENT</b>					
	32.5N/mm <sup>2</sup>	50kg bag	16,500.00	Mtwara and Mbeya,		
	42.5N/mm <sup>2</sup>	50kg bag	17,500.00	Ditto		
	White cement	40kg bag	35,000.00	Ditto		
<b>2</b>	<b>HIGH TENSILE STEEL REINFORCEMENTS</b>					
	8mm Dia	ton	2,650,000.00	DSM		
	10mm Dia	ton	2,300,000.00	DSM		
	12mm Dia	ton	1,971,000.00	DSM		
	16mm Dia	ton	1,850,000.00	DSM		
	20mm Dia	ton	1,850,000.00	DSM		
	25mm Dia	ton	1,850,000.00	DSM		
	32mm Dia	ton	1,850,000.00	DSM		
	<b>MILD STEEL BARS</b>					
	8mm Dia	ton	2,600,000.00	DSM		
	10mm Dia	ton	2,300,000.00	DSM		
	12mm Dia	ton	1,900,000.00	DSM		
	16mm Dia	ton	2,000,000.00	DSM		
	20mm Dia	ton	2,400,000.00	DSM		
	25mm Dia	ton	N/A	-		
	32mm Dia	ton				
<b>3</b>	<b>AGGREGATES</b>					
				S'Wanga	2	Price excludes transport cost to town centre
	6mm Dia	m <sup>3</sup>	82,600.00			
	10mm Dia	m <sup>3</sup>	82,600.00	Ditto		
	13mm Dia	m <sup>3</sup>	82,600.00	Ditto		
	14mm Dia	m <sup>3</sup>	82,600.00	Ditto		
	19mm Dia	m <sup>3</sup>	106,200.00	Ditto		
	20mm Dia	m <sup>3</sup>	106,200.00	Ditto		
	25mm Dia	m <sup>3</sup>	82,600.00	Ditto		
<b>4</b>	<b>SAND</b>	m <sup>3</sup>	10,000.00		80	<ul style="list-style-type: none"> <li>• Includes transport</li> <li>• Difficult to get</li> </ul>
<b>5.</b>	<b>HARD CORE</b>	m <sup>3</sup>	25,000.00		5	Includes trnsport to town.
<b>6.</b>	<b>READY MIX CONCRETE</b>					
	Class 15	m <sup>3</sup>	250,000.00			Includes transport to town
	Class 20	m <sup>3</sup>	300,000.00			Ditto
	Class 25	m <sup>3</sup>	350,000.00			Ditto
	Class 30	m <sup>3</sup>	400,000.00			Ditto
<b>7.</b>	<b>PLANT AND EQUIPMENT HIRE</b>					
	Roller 3900	8hours	700,000.00			

	<b>MATERIAL</b>	<b>UNIT</b>	<b>PRICE, TSH</b>	<b>SOURCES</b>	<b>DISTANCE FROM TOWN/CITY , Km</b>	<b>REMARKS</b>
	Water Bowser 15,000 ltrs	8hours	<b>400,000.00</b>			
	Toyota Land Cruiser	8hours	<b>150,000.00</b>			
	Lorries/Tipper of any size	8hours	<b>400,000.00</b>			
	Excavator -	8hours	<b>1,200,000.00</b>			
	Grader	8hours	<b>1,000,000.00</b>			
	Asphalt Paver	8hours	<b>1,500,000.00</b>			
	Chipping Spreader	8hours	<b>1,500,000.00</b>			
	Pneumatic Roller	8hours	<b>750,000.00</b>			
	Plate Compactor/Pedestrian Roller	8hours	<b>200,000.00</b>			
	Tower Crane	Hour	<b>300,000.00</b>			
<b>8.</b>	<b>SOFTWOOD TREATED</b>					
	150x50mm, 12ft	pc	<b>12,000.00</b>	Mafinga and Kilolo	700	
	100x50mm, 12ft	pc	<b>9,000.00</b>	Ditto		
	75x50mm, 12ft	pc	<b>9,000.00</b>	Ditto		
	50x50mm, 12ft	pc	<b>8,000.00</b>	Ditto		
	150x25mm, 12ft	pc	<b>9,000.00</b>	Ditto		
<b>9.</b>	<b>SOFTWOOD NOT TREATED</b>					
	150x50mm, 12ft	pc	<b>11,000.00</b>	Mafinga and Kilolo	700	
	100x50mm, 12ft	pc	<b>8,000.00</b>	Ditto		
	75x50mm, 12ft	pc	<b>8,000.00</b>	Ditto		
	50x50mm, 12ft	pc	<b>7,000.00</b>	Ditto		
	150x25mm, 12ft	pc	<b>8,000.00</b>	Ditto		
<b>10</b>	<b>HARDWOOD - MNINGA/MKONGO</b>					
	150x50mm	9ft	<b>46,000.00</b>	Katavi/S'Wanga		
	200,000.00	9ft	<b>70,800.00</b>	Ditto		
<b>11</b>	<b>PAINTS</b>					
	Gross Paints	4litre	<b>22,000.00</b>	Dar		
	Acrylic Emulsion Paints	20litres	<b>40,000.00</b>	Ditto		
	Plastic Emulsion Paints	20litres	<b>40,000.00</b>	Ditto		
	Weather Guard Paints	20litres	<b>150,000.00</b>	Ditto		
	Wash n Wear Paints	20litres	<b>160,000.00</b>	Ditto		
<b>12</b>	<b>MARINE BOARD</b>					
	8ftx4ftx18mm	pc	<b>85,000.00</b>	Ditto		
<b>13</b>	<b>HARDCORE</b>					
	Stones	m <sup>3</sup>	<b>10,000.00</b>	S'Wanga	5	
<b>14</b>	<b>PROBES</b>					
	Probes for Forworks	pc	<b>2000.00</b>	Ditto		
<b>15</b>	<b>LABOUR</b>					
	Un skilled Labour	Day	<b>7,000.00</b>			
<b>16.</b>	<b>ROOFING SHEETS</b>					
	<b>C.I Sheets</b>					
	<b>G32 – 10ft</b>	pc	<b>14,000.00</b>	Dar		
	<b>G30 – 10ft</b>	pc	<b>17,800.00</b>	Ditto		
	<b>IT Sheets</b>					
	<b>G30 – 10ft</b>	pc	<b>23,000.00</b>	Dar		
<b>17</b>	<b>GYPSUM BOARDS</b>					

	<b>MATERIAL</b>	<b>UNIT</b>	<b>PRICE, TSH</b>	<b>SOURCES</b>	<b>DISTANCE FROM TOWN/CITY , Km</b>	<b>REMARKS</b>
	Gypsum Board, ex China, 8ftx4ftx10mm thick	pc	18,000.00	Dar		
	Gypsum Board, ex Thailand, 8ftx4ftx10mm thick	pc	25,000.00	Ditto		
	Cornice, 6ft	pc	5,000.00	Ditto		
	Gypsum lining	m	5,000.00	Ditto		
	Gypsum decorative	no	15,000.00	Ditto		
	Gypsum angle decorative	no	25,000.00	Ditto		
	Gypsum powder, 25kg	bag	22,000.00	Ditto		
18.	<b>NAILS</b>					
	Roofing nails	box	30,000.00	Dar		
	Normal nails	kg	4,000.00	Ditto		
19.	<b>SIM TANK</b>					
	10,000ltr	no	3,000,000.00	Dar		
	5,000ltr	no	1,200,000.00	Ditto		
	4,000ltr	no	850,000.00	Ditto		
	3,000ltr	no	670,000.00	Ditto		
	2,000ltr	no	470,000.00	Ditto		
	1,000ltr	no	250,000.00	Ditto		
	500ltr	no	180,000.00	Ditto		
23	<b>PORCELAIN TILES</b>					
	<b>TRYFORD CHINA</b>					
	400x400x10mm					
	500X500X10mm	7pcs box	40,000.00			
	600X600X10mm	4pcs box	34,000.00			
24.	<b>CERAMIC WALL TILES</b>					
	<b>TRYFORD CHINA</b>					
	250X400X10mm					
25	<b>KITCHEN SINK</b>					
	Double tray Stainless steel 780 X 400mm wide	PC	180,000.00			
	Double tray Stainless steel 750 X 440mm wide	PC	130,000.00			
	Double tray Stainless steel 800 X 430mm wide	PC	150,000.00			
	Single Tray Stainless steel	PC	80,000.00			
26.	<b>PLUMBING AND SANITATION</b>					
	<b>WASH HAND BASIN (WHB)</b>					
	large	PC	170,000.00			
	small	PC	120,000.00			
	<b>WC- Western Type</b>					
	WC- Armitage	PC	280,000.00			
	WC-china	PC	200,000.00			
	<b>WC- Eastern Type</b>					
	WC-china	PC	30,000.00			
	WC Armitage	PC	120,000.00			
	<b>SOAP DISPENSER</b>	PC	20,000.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	<b>PVC PIPES</b>					
	<b>Class A</b>					
	38mm Dia	6m PC	10,000.00			
	100mm Dia	6m Pc	15,000.00			
	<b>Class B</b>					
	13mm Dia	m	1,300.00	Dar		
	19mm Dia	m	1,300.00			
	25mm Dia	m	1,500.00			
	38mm Dia	m	5,500.00			
	50mm Dia	m	6,500.00			
	75mm Dia	6m	45,000.00			
	100mm Dia	6m	55,000.00			
	150mm Dia	6m	65,000.00			
	<b>Class C</b>					
	19mm Dia	m	1,500.00			
	25mm Dia	m	2200.00			
	38mm Dia	m	5,500.00			
	50mm Dia	m	8,000.00			
27	<b>DOORS</b>					
	<b>H/W</b>					
	45X900X2100mm High	no	400,000.00			
	45X800X2100mm High	no	350,000.00			
28.	<b>FLUSH DOORS</b>					
	45X900X2100mm High	no	80,000.00			
	45X800X2100mm High	no	75,000.00			
29.	<b>GRILLED DOORS</b>					
	double door	sm	120,000.00			
	single door	sm	95,000.00			
30	<b>GRILLED WINDOW</b>					
	Grilled window	sm	80,000.00			
31	<b>HOLLOW STEEL SECTIONS</b>					
	Size 3/4" x 3/4" x 1	pc	9,000.00			
	Size 3/4" x 3/4" x 1.2	pc	10,000.00			
	Size 3/4" x 3/4" x 1.6	pc	14,000.00			
	Size 1" x 1" x 1	pc	12,000.00			
	Size 1" x 1" x 1.2	pc	12,000.00			
	Size 1" x 1" x 1.6	pc	15,000.00			
	Size 1 1/2" x 1" x 1.2	pc	17,000.00			
	Size 1 1/2" x 1" x 1.6	pc	17,500.00			
	Size 1 1/4" x 1 1/4" x 1.2	pc	15,000.00			
	Size 1 1/4" x 1 1/4" x 1.6	pc	N/A			
	Size 1 1/2" x 1 1/2" x 1.2	pc	19,000.00			
	Size 1 1/2" x 1 1/2" x 1.6	pc	N/A			
	Size 2" x 1" x 1.2	Pc	23,000.00			
	Size 2" x 1" x 1.6	Pc				
32.	<b>STEEL SHEETS</b>					
	1200x1800x1mm thick	PC	60,000.00			
	1200x1800x1.2 mm thick	PC	75,000.00			
	1200x1800x1.6 mm thick	PC	95,000.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY , Km	REMARKS
	<b>Z- PURLINS</b>					
	30x40x30x1.2mm thick	6m PC	45,000.00			
	<b>CONCRETE BLOCKS</b>					
33.	4inch	pc	1,000.00			
	5inch	pc	1,200.00			
	6inch	pc	1,500.00			
	<b>ALUMINIUM DOORS</b>					
	900X2100mm High Well Fabricated Aluminium Door Complete with Furniture	m <sup>2</sup>	150,000.00			
	Ditto, PVC	m <sup>2</sup>	200,000.00			
	<b>ALUMINIUM WINDOWS</b>					
34	Well Fabricated Aluminium Window with 5mm thick clear glass Complete with furniture	m <sup>2</sup>	120,000.00			
	Ditto, Tinted Glass Ditto	m <sup>2</sup>	130,000.00			

### ADDITIONAL INFORMATION COLLECTED IN RUKWA REGION

The following information was also collected during the survey.

S/No	Description	Status	Remarks
1.	Labour	Easily Available during dry season only	During wet season people are engaged in agricultural activities.
2.	Quarries for Production of Aggregates	There is an investor who produces and supplies aggregates in the area. The Quarry is located 2kms from the town of Sumbawanga	
3.	Sand	Sand is not easily obtained in the area. It is found about 80kms from the Town.	
4.	Plants and Equipment	There is one strong investor who owns plants and equipment for hire.	

### Challenges

- Obtaining labour force during rainy season is difficult.



- Most of the construction materials are imported from Dar es Salaam, a distance exceeding 1100kms.
- Sand is not easily obtained.
- Gravel obtainable at a limited quantities at distant quarries.
- Reinforcement bars are sold in lengths of less than 40fts.

## APPENDIX VIII: PRICE LIST OF CONSTRUCTION MATERIALS FOR SONGWE REGION

### PRICE LIST OF CONSTRUCTION MATERIALS (SONGWE – JUNE, 2019)

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
<b>1</b>	<b>CEMENT</b>					
	32.5N/mm <sup>2</sup>	50kg bag	14,500.00	Mtwara and Mbeya,		
	42.5N/mm <sup>2</sup>	50kg bag	15,000.00	Ditto		
	White cement	40kg bag	35,000.00	Ditto		
<b>2</b>	<b>HIGH TENSILE STEEL REINFORCEMENTS</b>					
	8mm Dia	ton	N/A	DSM		
	10mm Dia	ton	N/A	DSM		
	12mm Dia (18,500.00/pc)	ton	1,736,100.00	DSM		
	16mm Dia	ton	N/A	DSM		
	20mm Dia	ton	N/A	DSM		
	25mm Dia	ton	N/A	DSM		
	32mm Dia	ton	N/A	DSM		
	<b>MILD STEEL BARS</b>					
	8mm Dia	ton	N/A	DSM		
	10mm Dia	ton	N/A	DSM		
	12mm Dia	ton	1,736,100.00	DSM		
	16mm Dia	ton	N/A	DSM		
	20mm Dia	ton	N/A	DSM		
	25mm Dia	ton	N/A	-		
	32mm Dia	ton	N/A			
<b>3</b>	<b>AGGREGATES</b>					
	6mm Dia	m <sup>3</sup>	120,000.00	Mswiswi - Mbeya	120	Price includes transport cost to town centre
	10mm Dia	m <sup>3</sup>	120,000.00	Ditto		
	13mm Dia	m <sup>3</sup>	120,000.00	Ditto		
	14mm Dia	m <sup>3</sup>	120,000.00	Ditto		
	19mm Dia	m <sup>3</sup>	120,000.00	Ditto		
	20mm Dia	m <sup>3</sup>	120,000.00	Ditto		
	25mm Dia	m <sup>3</sup>	120,000.00	Ditto		
<b>4</b>	<b>SAND</b>	m <sup>3</sup>	37,000.00	Mbalizi	70	<ul style="list-style-type: none"> <li>• Includes transport</li> <li>• Difficult to get</li> </ul>
<b>5.</b>	<b>HARD CORE</b>	m <sup>3</sup>	51,400.00	Vwawa	15	
<b>6.</b>	<b>READY MIX CONCRETE</b>					
	Class 15	m <sup>3</sup>	N/A			
	Class 20	m <sup>3</sup>	N/A			
	Class 25	m <sup>3</sup>	N/A			
	Class 30	m <sup>3</sup>	N/A			
<b>7.</b>	<b>PLANT AND EQUIPMENT HIRE</b>					
	Roller 3900	8hours	N/A			
	Water Bowser 15,000 ltrs	8hours	N/A			
	Toyota Land Cruiser	8hours	N/A			
	Lorries/Tipper of any size	8hours	N/A			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY , Km	REMARKS
	Excavator -	8hours	N/A			
	Grader	8hours	N/A			
	Asphalt Paver	8hours	N/A			
	Chipping Spreader	8hours	N/A			
	Pneumatic Roller	8hours	N/A			
	Plate Compactor/Pedestrian Roller	8hours	N/A			
	Tower Crane	Hour	N/A			
8.	<b>SOFTWOOD TREATED</b>					
	150x50mm, 12ft	pc	6,500.00	Ileje	60	
	100x50mm, 12ft	pc	4,500.00	Ditto		
	75x50mm, 12ft	pc	4,000.00	Ditto		
	50x50mm, 12ft	pc	2,000.00	Ditto		
	150x25mm, 12ft	pc	5,500.00	Ditto		
	200x25mm, 12ft	pc	7,500.00	Ditto		
	250x25mm, 12ft	pc	11,500.00	Ditto		
9.	<b>SOFTWOOD NOT TREATED</b>					
	150x50mm, 12ft	pc	7,000.00	Ileje	60	
	100x50mm, 12ft	pc	5,000.00	Ditto		
	75x50mm, 12ft	pc	4,500.00	Ditto		
	50x50mm, 12ft	pc	2,500.00	Ditto		
	150x25mm, 12ft	pc	6,000.00	Ditto		
	200x25mm, 12ft	pc	8,000.00	Ditto		
	250x25mm, 12ft	pc	12,000.00	Ditto		
10	<b>HARDWOOD - MNINGA/MKONGO</b>					
	150x50mm	9ft	25,000.00	Zambia		
	200/50mm	9ft	35,800.00	Ditto		
	250x50mm	9ft	45,000.00	Ditto		
11	<b>PAINTS</b>					
	<b>Gross Paints</b>	4litre	20,000.00	Dar		
	Acrylic Emulsion Paints	20litres	35,000.00	Ditto		
	Plastic Emulsion Paints	20litres	35,000.00	Ditto		
	Weather Guard Paints	20litres	120,000.00	Ditto		
	Wash n Wear Paints	20litres	140,000.00	Ditto		
12	<b>MARINE BOARD</b>					
	8ftx4ftx18mm	pc	85,000.00	Ditto		
13	<b>HARDCORE</b>					
	Stones	m <sup>3</sup>	51,400.00	Vwawa	15	
14	<b>PROBES</b>					
	Probes for Forworks	pc	2,500.00	Ditto		
15	<b>LABOUR</b>					
	Un skilled Labour	Day	Paid per work piece			Difficult to get throughout the year due to agricultural acties.
16.	<b>ROOFING SHEETS</b>					
	<b>C.I Sheets</b>					
	G32 – 10ft	pc	14,500.00	Dar		
	G30 – 10ft	pc	18,125.00	Ditto		
	<b>IT Sheets</b>					
	G30 – 10ft	pc	23,750.00	Dar		
17	<b>GYPSUM BOARDS</b>					
	Gypsum Board, ex China, 8ftx4ftx10mm thick	pc	18,000.00	Dar		
	Gypsum Board, ex	pc	22,000.00			

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY , Km	REMARKS
	Thailand, 8ftx4ftx10mm thick			Ditto		
	Cornice, 6ft	pc	3,000.00	Ditto		
	Gypsum lining	m	5,000.00	Ditto		
	Gypsum decorative	no	15,000.00	Ditto		
	Gypsum angle decorative	no	25,000.00	Ditto		
	Gypsum powder, 25kg	bag	20,000.00	Ditto		
18.	<b>NAILS</b>					
	Roofing nails	box	35,000.00	Dar		
	Normal nails	kg	3,500.00	Ditto		
19.	<b>SIM TANK</b>					
	10,000ltr	no	2,300,000.00	Dar		
	5,000ltr	no	950,000.00	Ditto		
	4,000ltr	no	860,000.00	Ditto		
	3,000ltr	no	560,000.00	Ditto		
	2,000ltr	no	360,000.00	Ditto		
	1,000ltr	no	240,000.00	Ditto		
	500ltr	no	200,000.00	Ditto		
23	<b>PORCELAIN TILES</b>					
	<b>TRYFORD CHINA</b>					
	400x400x10mm	12pcs box	22,000.00			
	500X500X10mm	7pcs box	35,000.00			
	600X600X10mm	4pcs box	30,000.00			
24.	<b>CERAMIC WALL TILES</b>					
	<b>TRYFORD CHINA</b>					
	250X400X10mm	15pcs box	18,000.00			
25	<b>KITCHEN SINK</b>					
	Double tray Stainless steel 780 X 400mm wide	PC	175,000.00			
	Double tray Stainless steel 750 X 440mm wide	PC	120,000.00			
	Double tray Stainless steel 800 X 430mm wide	PC	145,000.00			
	Single Tray Stainless steel	PC	75,000.00			
26.	<b>PLUMBING AND SANITATION</b>					
	<b>WASH HAND BASIN (WHB)</b>					
	large	PC	170,000.00			
	small	PC	120,000.00			
	<b>WC- Western Type</b>					
	WC- Armitage	PC	280,000.00			
	WC-china	PC	200,000.00			
	<b>WC- Eastern Type</b>					
	WC-china	PC	30,000.00			
	WC Armitage	PC	120,000.00			
	<b>SOAP DISPENSER</b>	PC	20,000.00			
	<b>PVC PIPES</b>					
	<b>Class A</b>					
	38mm Dia	6m PC	10,000.00			
	100mm Dia	6m Pc	15,000.00			
	<b>Class B</b>					

	MATERIAL	UNIT	PRICE, TSH	SOURCES	DISTANCE FROM TOWN/CITY, Km	REMARKS
	13mm Dia	m	1,300.00	Dar		
	19mm Dia	m	1,300.00			
	25mm Dia	m	1,500.00			
	38mm Dia	m	5,500.00			
	50mm Dia	m	6,500.00			
	75mm Dia	6m	45,000.00			
	100mm Dia	6m	55,000.00			
	150mm Dia	6m	65,000.00			
	<b>Class C</b>					
	19mm Dia	m	1,400.00			
	25mm Dia	m	2,200.00			
	38mm Dia	m	5,200.00			
	50mm Dia	m	7,5000.00			
27	<b>DOORS</b>					
	H/W					
	45X900X2100mm High	no	350,000.00			
	45X800X2100mm High	no	300,000.00			
28.	<b>FLUSH DOORS</b>					
	45X900X2100mm High	no	N/A			
	45X800X2100mm High	no	N/A			
29.	<b>GRILLED DOORS</b>					
	double door	sm	100,000.00			
	single door	sm	90,000.00			
30	<b>GRILLED WINDOW</b>					
	Grilled window	sm	85,000.00			
31	<b>HOLLOW STEEL SECTIONS</b>					
	Size 3/4" x 3/4" x 1	pc	9,000.00			
	Size 3/4" x 3/4" x 1.2	pc	10,000.00			
	Size 3/4" x 3/4" x 1.6	pc	14,000.00			
	Size 1" x 1" x 1	pc	10,500.00			
	Size 1" x 1" x 1.2	pc	12,000.00			
	Size 1" x 1" x 1.6	pc	15,000.00			
	Size 1 1/2" x 1" x 1.2	pc	19,000.00			
	Size 1 1/2" x 1" x 1.6	pc	17,500.00			
	Size 1 1/4" x 1 1/4" x 1.2	pc	15,000.00			
	Size 1 1/4" x 1 1/4" x 1.6	pc	N/A			
	Size 1 1/2" x 1 1/2" x 1.2	pc	19,000.00			
	Size 1 1/2" x 1 1/2" x 1.6	pc	N/A			
	Size 2" x 1" x 1.2	Pc	23,000.00			
32.	<b>STEEL SHEETS</b>					
	1200x1800x1mm thick	PC	60,000.00			
	1200x1800x1.2 mm thick	PC	75,000.00			
	1200x1800x1.6 mm thick	PC	95,000.00			
	<b>Z- PURLINS</b>					
	30x40x30x1.2mm thick	6m PC	19,500.00			
33.	<b>CONCRETE BLOCKS</b>					
	4inch	pc	1,200.00			
	5inch	pc	1,500.00			
	6inch	pc	1,700.00			
34.	<b>ALUMINIUM DOORS</b>					

	<b>MATERIAL</b>	<b>UNIT</b>	<b>PRICE, TSH</b>	<b>SOURCES</b>	<b>DISTANCE FROM TOWN/CITY, Km</b>	<b>REMARKS</b>
	900X2100mm High Well Fabricated Aluminium Door Complete with Furniture	m <sup>2</sup>	<b>130,000.00</b>			
	Ditto, PVC	m <sup>2</sup>	<b>180,000.00</b>			
<b>34</b>	<b>ALUMINIUM WINDOWS</b>					
	Well Fabricated Aluminium Window with 5mm thick clear glass Complete with furniture	m <sup>2</sup>	<b>125,000.00</b>			
	Ditto, Tinted Glass Ditto	m <sup>2</sup>	<b>135,000.00</b>			

### **ADDITIONAL INFORMATION COLLECTED IN SONGWE REGION**

The following information was also collected during the survey in Songwe region

<b>S/No</b>	<b>Description</b>	<b>Status</b>	<b>Remarks</b>
1.	Labour	Not Easily Available throughout the year due to agricultural activities	
2.	Quarries for Production of Aggregates	No vendor for production of aggregates	
3.	Sand	Sand is not easily obtained in the area. It is found about 80kms from Town.	
4.	Plants and Equipment	No firm for hiring plants and equipment in the region.	

### **Challenges**

- Difficult to get labour force.
- Most of the construction materials are imported from Dar es Salaam, a distance exceeding 900kms.
- Sand is not easily obtained.
- Gravel obtainable in limited quantities from distant borrow pits.
- Reinforcement bar are sold in lengths less than 40fts.