



# SUDAN INFRASTRUCTURE SERVICES PROJECT

## Revised Performance Monitoring Plan

Transport, Water and Energy Sector Programs

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## 1. Introduction

### 1.1 Background

South Sudan has achieved a modicum of security and political stability since the signing of the Comprehensive Peace Agreement (CPA) in January 2005. However, with the large influx of returning refugees, the lack of basic infrastructure, and with inadequate employment creation, the autonomous region of South Sudan remains a fragile region. Public institutions are nascent and the private sector is composed almost entirely of micro and small enterprises. Large scale industry is non-existent. Economic development will not occur without the construction of basic transport, energy infrastructure, water supply and sanitation as well as better access to health and education.

To help address these severe impediments to economic growth, USAID has initiated a large-scale aid program with a significant presence in the region. Because South Sudan is not an independent country but an autonomous region within the sovereign state of the Republic of Sudan, USAID's December 2005 Strategic Statement applies to the country as a whole; there is no separate Strategic Strategy for South Sudan at the sub-national level. Nonetheless, the focus of USAID's Sudan activities is on three regions—places that have been identified as vulnerable in the South, the Three Areas, and Khartoum—so that the programming is directed at averting and resolving conflict and increasing stability in the Sudan at large. Hence, programs to rebuild the South Sudan dominate USAID'S efforts and funding resources for the Country.

The USAID/Sudan 2006-2008 Strategy Statement<sup>1</sup> specifically focuses on three Strategic Objectives (SO) aimed at addressing these problems:

- SO 9: Avert and Resolve Conflict
- SO 10: Promote Stability, Recovery and Democratic Reform
- SO 11: Program Support

Accordingly, USAID is funding a variety of programs and projects to support attainment of these objectives. These efforts range from capacity building in government ministries and teacher training programs in education to the funding of the construction of roads, bridges, and water and electricity infrastructure

***Sudan Infrastructure and Services Program (SISP)***. Commenced in October 2006, the SISP is a five-year program that encompasses construction and rehabilitation of transportation networks, urban development, and water, and sanitation infrastructure. Capacity building in selected government ministries is also a critical component of the program.

To date, SISP has focused exclusively on transportation, water and sanitation, and energy. The Performance Monitoring Plan (PMP) will thus be directed at designing monitoring and

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<sup>1</sup> USAID/Sudan Strategy Statement, December 2005

evaluation activities for projects being implemented in these three areas. The PMP can be modified and expanded to evaluate activities to take into account the additional projects in other sectors that might be implemented during the course of the SISP.

As it relates to the USAID Sudan Strategy Statement, the SISP primarily supports achieving Strategic Objective 10, “Promote Stability, Recovery and Democratic Reform.” However, the establishment of improved transport, water, and power infrastructure is necessary for the economic development of the region and the reduction of tensions between North and South Sudan and a reduction in the possibility of renewed armed conflict (SO 9). However, the PMP indicators only assess progress in achieving Strategic Objective 10 because they can be quantified and monitored over relatively short periods. It should be noted that USAID’s Strategic Objectives are defined for the years 2006-2008 only. If additional or different objectives were to be established for the period 2009-2011, the PMP may need to be modified so that it could capture the SISP’s progress in attaining the new SOs.

The SISP can directly benefit targeted populations through generation of employment during the infrastructure construction phase (e.g., road construction) as well as the maintenance phase. In fact, the road maintenance program is designed to be labor intensive so as to maximize job creation. The supply of improved transport, water, and energy infrastructure will also reduce costs of transport, including public transport, increase the mobility of populations and provide clean water and electricity to an increasing proportion of the population. These benefits will be shown by increased employment and household expenditures and income within the targeted populations.

## **1.2 Purpose of the Performance Monitoring Plan**

The purpose of a PMP is to establish the analytical framework to measure a project’s impact, with the goal of quantifying progress in meeting the stated objectives. It is critical to monitor the SISP’s progress given that over the 5 year Program, USAID anticipates spending up to \$700 million in rehabilitating South Sudan’s transport, water and energy sectors. A well-designed PMP will allow USAID to accurately gauge the social and economic impact of its road, water, and energy power projects on an annual or bi-annual basis throughout each project’s life cycle. In collaboration with USAID, the SISP may alter project implementation to maximize the program’s impacts depending on the outcome of these findings

South Sudan offers numerous challenges to developing and implementing an effective PMP. Economic and social data from secondary sources at either the “national” (e.g. South Sudan) or the sub-national (states) level are essentially nonexistent. Data on water and energy consumption patterns have never been collected. The results for the 2008 census were supposed to be released in July 2008 but are only now becoming accessible. Regardless, the data was not available at the time when the surveys were conducted. The lack of population estimates and data regarding domicile locations do not allow for an unbiased sample selection. Therefore, to ensure reliability and consistency the team will compare the baseline results to the census data once it is fully published.

Because of these severe data limitations, infrastructure impacts will be assessed based primarily on surveys of households, businesses, and individuals in the relevant zones of influence (ZOI) for roads projects and on surveys of the different customer classes (e.g., commercial and public institutional sectors) in planned service areas for water projects.

The emphasis of monitoring activities should be on proper data collection and the efficiency of the performance indicators. Nonetheless a well designed and consistently implemented PMP will serve as a powerful tool for USAID to assess the efficiency of the SISP during the life of the program.

### **1.3 Main Elements of the Performance Monitoring Plan**

All PMPs must contain two elements: good performance indicators and good methods to collect the data on the indicators. First, the Plan must provide a well defined list of performance indicators that can be used to quantify the benefits directly attributable to a project's implementation. Performance indicators must be selected to provide effective measurements of a project's impacts throughout its life cycle. The performance indicators must be clearly defined and mapped to the objectives established during the project's development phase. USAID through its ADS 203.3.4.2 establishes 7 criteria for characterizing a good performance indicator<sup>2</sup>:

- Direct
- Objective
- Adequate
- Quantitative where possible
- Disaggregated where appropriate
- Practical
- Reliable

For example, if a transportation project's objective is to increase accessibility, then performance indicators must correlate to this goal. Traffic counts are a simple and direct measure of the volume of traffic and a good indication of how a new or rehabilitated road stimulates socioeconomic activity. This indicator meets USAID's criteria because it is a direct, objective, quantitative, disaggregate and practical measurement of accessibility and use. It is also an adequate and reliable measurement. Traffic counts, however, are not the only indicator of increased transport accessibility. Passenger and cargo transport costs are also useful indicators of a road's impact on the public's accessibility to transport.

It should be noted that the PMP will include two basic types of performance indicators:

- Standard Element Indicators
- Outcome Performance Indicators

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<sup>2</sup> USAID 2004. Functional Series 200- ADS Programming Policy 203, Assessing and Learning,

Standard Element indicators provide a means for measuring how a project is attaining its immediate objectives for implementing the contract. For example, how many local contractors are used or how many local workers are hired during the construction phase. Also of interest would be the cost per linear kilometer of road constructed or cost per cubic meter of clean water supplied. Standard Element Indicators hence, measure the progress and effectiveness the project implementation. Information to support standard element (achievement) indicators is typically generated in conjunction with project reporting requirements.

Outcome Performance indicators, in contrast, provide measurements on how a project affects targeted populations. Accordingly, an Outcome Performance Indicator would measure how the constructed kilometers of road or water supply pipelines (noted above) have affected the socioeconomic and health status of the targeted populations. Unlike Standard Element Indicators, data to support Outcome Performance Indicators must usually be collected through surveys, informant interviews and from applicable ministries.

The second required element of the PMP delineates the roles and responsibilities for collecting data and specifies the frequency and timing for collecting and analyzing that data. Hence, the PMP serves as a critical tool for planning, managing, and documenting data collection.<sup>3</sup> To ensure consistency in implementation, the PMP must establish the frequency of data collection, the methods of data collection, and responsibility for implementing the plan, including reporting requirements.

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<sup>3</sup> USAID 1996. *Performance Monitoring and Evaluation TIPS*, USAID Center for Development and Evaluation.

## **1.4 Organization of the PMP**

Standard Element and Outcome Performance Indicators must be developed separately for the road transport, water, energy sector and capacity building components of the SISP. The PMP covers all projects up to date for each of the four task orders. The following sections describe the data collection and frequency methods, roles and responsibilities for implementation, the results framework, and the Standard Element and Outcome Performance Indicators for each program. The Annex includes a copy of the Survey Instruments used.



## **2. PMP for the Transport Sector**

### **2.1 SISP Transport Sector Projects**

USAID has selected the reconstruction of the Juba-Nimule Road and the provision of interim road and bridge maintenance on that road as its first major project in the transportation sector. The Juba-Nimule Road extends for 192 km and includes seven bridges on the east side of the River Nile connecting Juba to Uganda. It is expected to generate significant economic activity in the South. Together with improved security, the higher grade road surface will significantly reduce the time and cost for transporting goods and people from Nairobi and Mombasa to destinations west in Uganda as well as to Juba and points northward.

The SISP will also implement a maintenance program for the Juba-Nimule Road once construction has been completed. Road maintenance is a labor intensive activity and will provide employment as well as some opportunity for human resource capacity building. Also, proper maintenance is essential to sustaining the economic benefits achieved from the improved transport conditions.

### **2.2 Overview of PMP Method**

A baseline survey was conducted prior to commencement of construction work to assess the future impacts of the Juba-Nimule road on the Zones of Influence (ZOI). Depending on topography and human settlement patterns, the ZOI can range from less than half a kilometer from the road's centerline on either side of the road to up to 20 kilometers on either side of the centerline. ZOIs are established prior to conducting the baseline surveys. Subsequent surveys will be conducted on an annual basis to determine changes in social and economic indicators resulting from the project's implementation. Annual surveys allow sufficient time to lapse in order to capture changes in economic and social conditions and enable the SISP and USAID to review the current strategy if desired outcomes are not materializing.

The baseline socioeconomic surveys that were conducted using the methods similar to those developed by USAID for the Kabul-Kandahar and Kandahar-Herat Roads (*See USAID Reconstruction of Economic Facilities and Services (REFS); Afghanistan Monitoring and Evaluation Procedures Consistent with the Baseline Studies, February 2004*). For example, for the Kabul-Kandahar-Herat (K-K-H) baseline study, several sets of outcome performance indicators were established to interpret the raw data. These indicators addressed social factors, such as numbers of schools and health clinics, and economic factors such as transport costs and farm gate prices. Separate questionnaires were prepared for households, businesses, settlements, and transportation enterprises to capture the full range of impact on affected populations and economic activities.

The PMP for the SISP Transportation Sector will employ similar surveying techniques but will use questionnaires appropriate to the socioeconomic and cultural conditions of South Sudan. It

should also be noted that for the Juba-Nimule Road a feasibility study has already been completed. The feasibility study collected information on traffic volumes by vehicle type as well as estimated vehicle operating costs. This information will be incorporated into the baseline information collected by the current effort<sup>4</sup>. In particular, the surveys and key informant interviews that will be employed as part of the PMP are as follows:

- **Household Survey:** Households are a basic economic unit and the survey questionnaires provide a useful description of their current economic and social circumstances. These questionnaires seek information on such topics as family size, employment characteristics, wealth and assets, expenditure patterns, education and health care practices, agricultural production, and gender issues, among others. In addition, the questionnaires attempt to relate these characteristics to the roads and to their use by household members.
- **Small Businesses Survey:** This survey is used to obtain information about small businesses, goods sold including increase/decrease, product prices and the importance of the road to the shop's commerce. To gain a better understanding of the origin and transport of goods in marketplaces as well as the number of stalls, the team will ask some observational questions at the major markets in Juba and Nimule. The team will also count the existing businesses along the Juba-Nimule Road.
- **Driver Survey:** Driver interviews will be undertaken at selected locations along the road or at designated intercept points. Respondents will include both drivers for private transport and public transport. The latter group would be surveyed primarily at bus and taxi depots. Due to the scarcity of public transport and private taxi service in the rural areas these surveys will be limited to the major population centers of Juba, Pageri, Moli, and Nimule. The questionnaires seek information regarding such topics as vehicle operators' frequency of travel, travel patterns, ownership, costs, income, and security along the road, among others.
- **Passenger Survey:** This survey provides basic data on origin/destination, travel times, fares, and income levels to determine the incidence of poverty among passengers. Passenger surveys for public transport will be undertaken primarily at bus depots and along the road. Similar to the driver surveys, these surveys will be limited to the population centers listed above. These questionnaires also collect information on the expected impact of the road rehabilitation.
- **Settlement Demographic Interviews:** A separate questionnaire is used at the village level to collect the following information: population, distance from and access to the Juba-Nimule Road, number of schools and clinics, agricultural land base, and available amenities. These questionnaires will be conducted through

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<sup>4</sup> The follow up surveys after the road is completed will require traffic counts to determine how the road has affected the volume and mix of traffic volume.

interviews with village leaders. The data generated through the Settlement Demographic Interview addresses the economic conditions of the surveyed settlements with particular regard to available resources and services in those communities. In addition, the settlement demographic interviews could be tied into the community development plan effort by inquiring about community public infrastructure priorities (schools, clinics). The Demographic Surveys were only conducted for the initial baseline. The data collected from these surveys differ substantially from the census data and household survey data. Therefore these surveys will be omitted from future studies

- **Freight Transport Company Interviews:** While the previous survey questionnaires are aimed at populations and businesses in villages and towns, the survey of freight transport companies focuses solely on Juba and Nimule. Areas will be identified where shipping companies tended to set up shop and structured interviews will be held with those firms to acquire information on transportation routes, vehicle types used for transport, travel time, costs, prices and the expected impact of road improvements.

The surveys will be conducted by local staff and supervised by one or two expatriate economists. Four to six of the staff members will be Sudanese survey managers from the region who have worked on similar projects and are trusted by the community. The enumerators will be local staff, likely 40-50 people as needed to assist with the surveys. The duration of the surveys is approximately two months. **Annex I: Draft Transport Surveys and Interview Protocols** presents the series of draft questionnaires in English that will be used for the baseline and follow-up surveys.<sup>5</sup> The team will pre-test the survey questions to ensure they are clearly understood by respondents.

As noted earlier, once the baseline surveys are completed, follow-up surveys will be performed at one-year intervals to assess changes in the socioeconomic conditions of project's ZOI. The survey data will be compiled and analyzed and the performance indicators recalculated to determine the project's progress in supporting USAID's Strategic Objectives for South Sudan.

### **2.3 Zone of Influence for Juba-Nimule Road**

A ZOI has been identified for the Juba-Nimule Road. Zones of Influence for road projects are determined by evaluating topography and patterns of human settlement along the alignment. The ZOI is the geographical area where the predominant socioeconomic impacts from the road are likely to occur. A ZOI is defined using expert judgment and its size and scope can vary greatly depending on the topographic and demographic characteristics of the region in which the road is located and type of road being constructed.

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<sup>5</sup> Survey questionnaires found in Annex I are currently in draft format and only available in English. After all questionnaires have been reviewed and finalized, all survey questionnaires will be translated into Arabic and accessible in both languages, English and Arabic. Along the road, the survey may also be translated orally into Bari, Madi or Acholi by the enumerators.

The SISP Juba-Nimule Road extends for 192 km following a southward path east of the Nile River. The initial 125 km southward from Juba covers a flat and dry plateau mostly devoid of water sources and population. The only permanent villages after the first 3.1 km from the Nile Bridge are Aru and Kit One. The road reaches the village of Moli at approximately 125 km. The few small clusters of huts situated in the intervening area are primarily small garrisons of SPLA soldiers guarding the road. The closest settlements to the east of the road in this area are about 15-25 kilometers. No known roads connect these settlements with the project road and the land is impenetrable for walking due to the lack of water and presence of land mines. There is a dirt track that somewhat parallels the Juba-Nimule road to the west. Although, maps of the region indicate settlements along the road, a flyover by the M&E Team on February 18, 2008 found little evidence of any human activities of consequence.

There is a junction with the Juba-Nimule Road at about km 100 at Aru that connects with the town of Magwi to the east. A flyover of this area revealed little human activity with only a few very small isolated clusters of huts on this route. As one reaches the 150 km mark several villages begin to appear adjacent to the road, including Pageri, Loa, and Moli. Some additional villages exist to the north west of the road at the junction at Pagari. This “feeder road” travels east to the town of Parajok and north to Magwi. There are numerous villages on this road to Magwi.

Based on topography of the area and distribution of populations, a reasonable ZOI would be limited to the Cities of Juba and Nimule and the villages and settlements located on or adjacent to the project road. The “feeder roads” in the northern segment of the project road contain extremely small and isolated populations that would unlikely obtain any benefits from the project road. These settlements become even more isolated in the rainy season as their connectivity to the Juba-Nimule Road is further diminished. Magwi is too far to the east to gain significant benefits as well. The poor conditions of these roads almost ensures that preponderance of anticipated socioeconomic impacts would occur at the origin and destination towns of Juba and Nimule, and the towns along the southern stretch of the road, including Moli, Pageri, and Loa.

### **2.3.1 Sampling Methods**

At the time of the surveys there was no reliable population and location data in South Sudan. Such data is crucial to “probability sampling”, a technique that allows researchers to accurately make generalized statements about an entire population from a sample of the population. Thus, in the context of South Sudan, it is not possible to sample according to this robust technique. Therefore, the M&E Team will use structured “non-probability” sampling techniques to try to produce reasonably representative data given the limitations. Non-probability sampling techniques are prone to bias because it is impossible to determine the overall representativeness of the sample without population data. However, creating some rules for non-probability sampling may help to improve the representativeness of the sample.<sup>6</sup>

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<sup>6</sup> However, it is important to bear in mind that even with rules, we still cannot know how representative our sample is without some population data.

Prior to the census of April 2008, the last Sudan census was taken in 1993 during the height of the civil war. In the south, only a few strategically important garrison towns held by the north were covered. Moreover, since the signing of the CPA in 2005, thousands of returnees have come back into South Sudan making any point-in-time-estimates of population obsolete almost immediately. **Exhibit 1** below shows very rough estimates of the population along the road, estimated by local informants in the villages in November 2007. While these estimates are not verified, they do provide a basic picture of the relative size of villages along the road in the recent past.

**Exhibit 1: Indicative Local Population Estimates by Villagers, November 2007.**

<b>Indicative Local Population Estimates by Villagers – Not verified*</b>			
<b>Community</b>	<b>Current</b>	<b>Before War</b>	<b>Future Projection</b>
<b>Population Estimates from Local Informants</b>			
Nimule	5,000-6,000	3,000-4,500	8,000-9,000
Loa	332	2,200	5,000
Pageri	1,650	6,000-7,000	600,000*
Kerepi	354	35,000	70,000
Moli	1,000	20,000	25,000
Kit One	100	17,000	19,000
Aru	475	2,000-3,000	9,000
Lolubo	480	6,000-7,000	9,000-12,000
Juba/Gumbo	12,000	21,000	40,000
<b>Estimated Total:*</b>	<b>20,000-30,000</b>	<b>77,000-82,000</b>	<b>200,000-700,000*</b>

\* The reliability of all local estimates is not verified; further investigation strongly recommended if more accurate data is not forthcoming from the planned national census scheduled for April 2008; Pageri numbers are particularly questionable.

Source: SSISP Community/Stakeholder Participation Plan, Draft January 2008.

The population estimates of the City of Juba are also unreliable. By the end of 2005, it was estimated that Juba had approximately 250,000 residents including internally displaced persons.<sup>7</sup> This number has undoubtedly increased since that time as estimates now range from approximately 300,000 to nearly 1 million.

As mentioned previously, a nationwide census organized by the Southern Sudan Commission for the Census, Statistics and Evaluation in South Sudan was conducted on April 15, 2008. Unfortunately, the data was not accessible during the implementation of the surveys and therefore it was not possible to use this data to estimate the population or for sampling purposes.

Since there was not any available data on domicile locations prior to the baseline survey, it was impossible to choose a preselected, random sample of the households within the towns in the

<sup>7</sup> Creative Associates. "Juba Assessment: Town Planning and Administration." The United States Agency for International Development. Draft, November 2005.

ZOI. Therefore, the LBG M&E team used a series of modified area sampling technique to obtain the most representative sample possible for the household and shopkeeper surveys.

For the household and shopkeeper surveys in Juba, where there is relatively good mapping data, the LBG M&E Team divided the city into smaller sample blocks and sub-blocks. Enumerators were then responsible for sampling a certain number of households and/or shops within each sample sub-block. While this technique is considered to produce less reliable results than choosing a pre-selected random sample, it was the only technique that produced reasonably representative results given the data constraints.

The specific sampling procedure was as follows<sup>8</sup>:

- a) The team will estimate the approximate number of households/businesses in each sampling block and sub-block;
- b) Since the survey covers the entire city, the sampling blocks may be quite large. Therefore, enumerators will be responsible for sampling a set number of households/businesses within each sub-block;
- c) The estimated total number of households in each sampling block will be divided by 10 or 20 (depending on how many households are estimated to be in the sampling block) to obtain the sampling interval;
- d) A random start number will be selected between one and the sampling interval;
- e) From the center of the sampling block, a pen will be spun to determine the sampling direction;
- f) Household/business counting will begin from the nearest house up to the desired start number, which will be the first house to be interviewed;
- g) This start house will be marked and counting will continue until all the households are marked and interviewed.

For the household/shopkeeper/business surveys in the villages along the road, the procedure was similar. However, it was not possible for the M&E Team to divide the villages into geographical blocks due to the lack of mapping data. Therefore, Survey Managers were responsible for ensuring that there was a geographically representative sample within the villages.

Enumerators were then responsible for estimating the population of the villages and following procedures C-G to determine number of households to be surveyed in each village. In many of the villages, it was not possible for the enumerators to take a full census on businesses due to such a limited number in that area. In each village a survey manager noted the GPS coordinates of the starting points to ensure comparability with follow-up surveys.

Nimule was the most difficult city to sample because it is relatively large and does not have very detailed mapping data. Therefore, like the smaller villages, the M&E Team relied on the Survey Managers to ensure representative geographical coverage.

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<sup>8</sup> This survey procedure is modified from the “South Sudan Annual Needs and Livelihood Assessment.” World Food Program, Food and Agriculture Organization, and The South Sudan Ministry of Forestry and Agriculture. (2007).

The driver and passenger surveys were intercept surveys in which enumerators stand at known transportation hubs in either Juba or Nimule and intercept respondents for the survey. Like the surveying techniques described above, intercept surveying is a non-probability sampling technique and therefore prone to bias. The interviews took place over a series of several days and enumerators were given the following rules:

- a) Enumerators must ask every 5<sup>th</sup> passenger and driver to take the survey.
- b) Enumerators will keep an “observational log” of each person who refuses to take the survey.
- c) Enumerators will take 100 surveys in Juba, 100 in Nimule and 100 at villages located along the road

The “observational log” collected observational data on which types of respondents refused to take the survey. For example, if many women riding busses refuse to take the passenger survey, then the M&E team has some idea of the missing demographic groups in the survey.

For the transport/freight companies, local survey managers identified all transport companies that use the Juba-Nimule road and conduct structured interviews. Surveys were also conducted with 3 to 4 different companies that may consider using the Juba-Nimule road once it has been rehabilitated.

### **2.3.2 Rough Order of Magnitude Cost for Performance Monitoring of Road Projects**

Monitoring of the SISP road infrastructure involved conducting a baseline survey and a follow-up survey once the road is constructed. Establishing baseline conditions entailed conducting a series of surveys and informant interviews at targeted communities and key locations along the Juba-Nimule Road. The baseline survey was estimated to take approximately 2 months to implement and 1 month to analyze the data. This survey was completed in April 2008 and a Baseline Reported was submitted to USAID in July 2008.

Expert expatriate technical support is required to oversee the design and implementation of the transport PMP including analysis and reporting of results. It is assumed that the 4-year program would require about 2 months of a Senior Economist and about 6 months of mid-level support for a survey specialist or economist. In addition, approximately 60 local enumerators and 4 survey managers would be required to conduct the baseline and follow-up surveys. Total rough order estimated cost for the 4 –Year M&E program for monitoring the Juba-Nimule Road is \$313,000.

## **2.4 Results Framework**

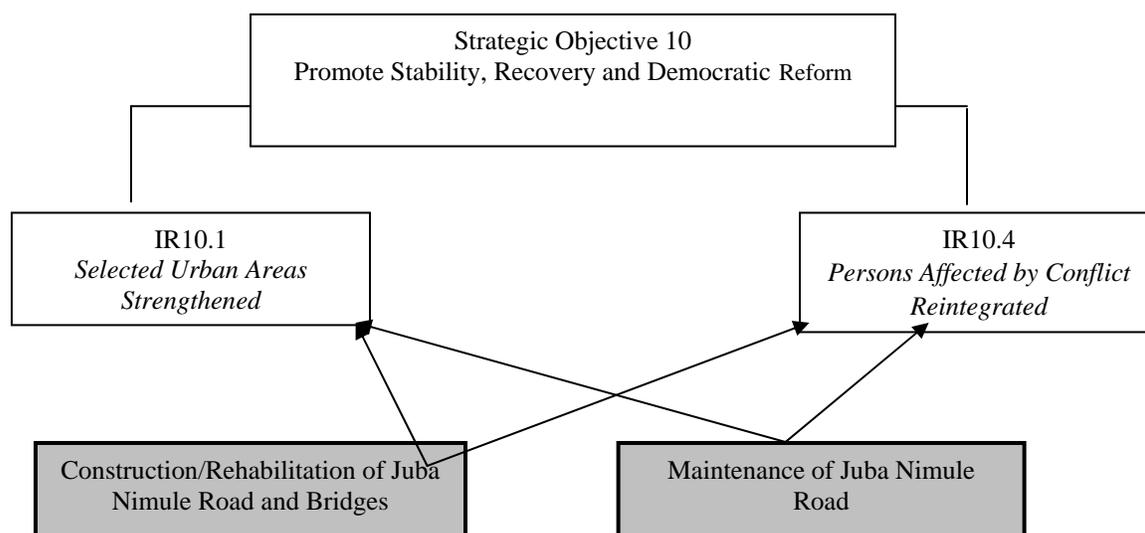
**Exhibit 2** below depicts how the Juba-Nimule Road construction and maintenance projects are mapped to USAID’s Strategic Objectives 10 and the Intermediate Results associated with that Strategic Objective. Transport infrastructure is not explicitly referenced in any of the Intermediate Results associated with SO 10. However, successful implementation of SISP road

projects, including the Juba-Nimule project, should contribute to the attainment of two Intermediate Results that support SO 10:

IR 10.2: Selected Urban Areas Strengthened

IR 10.4: Affected by Conflict Reintegrated

In particular, the upgrading and maintenance of the Juba-Nimule Road will create jobs in Juba and along its path during construction and operation. The road should also facilitate Juba's economic development by significantly reducing the cost of transporting goods and services from other points, not only in South Sudan but from Kenya and Uganda as well. Employment creation is a key factor in strengthening the urban region of Juba, which is one of the key goals of IR 10.2. The road will also promote the reintegration of persons affected by the conflict (IR10.4). The road should increase access to primary education, health care, and improve food security. The significant decrease in travel time as well as reductions in vehicle operating costs should lead to commensurate reductions in the cost for accessing these vital services. In the absence of basic road infrastructure, residents must pay high costs and endure long travel times to visit clinics and procure other basic services. The following section details how the selected performance indicators are linked to USAID Intermediate Results under Strategic Objective 10.



**Exhibit 2: Graphical Representation of Results Framework for Juba-Nimule Road and Maintenance and Bridge Projects**

#### 2.4.1 Linkage between Outcome Performance Indicators for Road Infrastructure and Intermediate Results

USAID recognizes that provision of basic public infrastructure is critical to integrating persons affected by conflict and strengthening urban centers in South Sudan. A functioning road is a necessary condition for the development of Juba and the villages and settlements located along its path to Nimule and the Ugandan border. Because the road is in such a state of disrepair, it can take up to 6 hours to drive the distance from Juba to Nimule. Vehicles often breakdown with broken axles and flat tires are a common occurrence. These conditions significantly raise the price of transport for people and goods. Together with the high cost of petrol, these poor road conditions limit the resident population's access to public services and the ability to move freely from one place to another. Economic development is impeded and job creation is stifled.

Although SO 10 and its supporting Intermediate Results do not explicitly relate to improved transportation, the new Juba-Nimule Road would help establish conditions that would promote the reintegration of persons affected by conflict and the strengthening of selected urban areas such as Juba. Specifically, the improvements to the Juba-Nimule Road should significantly reduce the cost of transport, lower the price of goods, promote the growth of public and private transport services, and stimulate economic activities. These impacts would clearly support job growth and economic integration of returning displaced persons.

Because the road project is indirectly linked to both IR 10.2 and IR 10.4, it would be difficult to discriminate between the IRs in terms of outcome performance indicators. For example, an indicator such as increased household consumption represents a better integration of persons affected by conflict and the strengthening of urban areas. This is especially true if the household is located in the vicinity of Juba. Rather than isolate impacts to Juba households from other

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areas in South Sudan and attempt to differentiate non-affected persons from affected persons, this PMP will relate outcome performance indicators to both of the IRs under SO 10.

It should be noted that the follow-up surveys will capture the effectiveness of the road maintenance program. For example, if travel times begin to increase and cost of transport begin to rise in the years after the road is built, this could be a strong indicator that road conditions are beginning to deteriorate due to inadequate maintenance. Any analysis of changes in road performance however, would have to be conducted in context of other factors. For example, if traffic volume increases to the point where it exceeds road capacity, increases in travel time would be totally independent of whether or not the road was well maintained.

#### **2.4.1.1 Outcome Performance Indicators**

The Outcome Performance Indicators can be organized in a series of categories which should outline predominate socioeconomic impacts from the upgrading and maintenance of the Juba-Nimule Road. These would include Household Economic Status, Household Access to Health and Education, Transportation Cost and Accessibility, Small Business Viability, and Women's Status.

##### ***Household Economic Status Impact Indicators***

Although changes in employment and household income can result from a variety of factors including the implementation of other projects in the ZOI, efficient transport is a necessary condition for increased business activities and resulting gains in job and income creation. Without a functional road network, the effectiveness of other projects planned for the Juba-Nimule Corridor would be nil. Collectively, these performance indicators will provide an annual overview of the road's impact in catalyzing private sector growth. The Outcome Performance Indicators that will be used to capture changes in household economic status are as follows:

- Average Household Monthly Wage Income
- Average Weekly Expenditure for Food Staples
- Average Monthly Household Expenditures for Transportation
- Average Yearly Expenditures on Health Care

##### ***Household Access to Health and Education***

The provision of improved road infrastructure will decrease the cost and time for residents to travel to their desired destinations. The reduction in time and cost to travel should allow for better access to health and educational facilities. The following outcome performance indicators will measure the project road's impact on accessibility to these two vital services:

- Travel times to Health Clinics
- Cost to travel to Health Clinics
- Travel time to School

##### ***Transportation Traffic Levels, Access and Costs***

The improved road will significantly reduce travel time and cost of travel as vehicles will be able to travel at consistently higher speeds and not incur the damages to their vehicles that are regularly caused by driving on the current road. Particularly during the wet season, when sections of the road become impassible, the hard road surface result in a large improvement of travel conditions. These changes should also aid in the development of a private transport sector and provide greater freedom of movement to residents living in the zone of influence. Finally, reduced transport cost and the induced economic activities should improve the status of small businesses operating along the roads. Their operating costs should drop and supply chain reliability should improve. Increases in local economic activity should increase demand for their products. The following outcome performance indicators will be employed to measure these benefits to households, drivers and passengers, and small businesses:

**Traffic Levels and Travel Time**

- Traffic Counts (Average Daily Traffic);
- Travel Time to Juba/Nimule

**Transportation Access and Cost**

- Passenger cost per trip
- Average Fuel Cost for Commercial Vehicle
- Average Fuel Cost for Passenger Vehicles

**Small Business Viability**

- Monthly Sales
- Average Monthly Transport Costs
- Percent of Businesses using Juba-Nimule Road to transport merchandise

**Status of Women**

The impact the road will have on the well-being of women will be addressed within the household survey. As shown in **Annex I**, the questions will take into consideration travel time to clinics, markets and to obtain water/fuel.

**2.4.1.2 Standard Element Indicators**

As discussed earlier, the PMP will also include “Standard Element Indicators” to measure the progress and success of each project in meeting immediate and direct project objectives. These include the hiring of local contractors, local labor, and the installation of pipeline and building roads. The following Standard Element indicators will be employed in the Transport PMP to measure the degree to which projective objectives are being met:

- Number of Kilometers of Road Bridges Completed
- Number of People benefitting from Juba-Nimule Road
- Number of Jobs Created
- New Businesses Created or Businesses Expanded
- Number of contractors in business as a result of USG assistance

## **2.5 Performance Indicator Worksheets**

This section presents the Outcome Performance and Standard Element Indicator Worksheets that correspond to the Outcome Performance and Standard Element Indicators described above. The Worksheets have been prepared at a level of detail such that they will be applicable to the Juba-Nimule Road and all other SISP Roads that will be evaluated under the SISP PMP. The cost for obtaining data, in this case, the rough cost of implementing the surveys for the Juba-Nimule Road, is presented in the section 2.3.2

The outcome performance indicators are based on USAID's Performance Management Toolkit (April 2003). However, because the Plan was prepared in the absence of even the most basic socioeconomic data for the ZOI for the Juba-Nimule Road, it was not realistic to generate target and actual values for the set of outcome performance indicators. Instead, these values will be determined based on the results of the socioeconomic baseline studies.

Each Performance Indicator Worksheet clearly defines the Indicator and provides guidelines for how the data will be collected, by whom, and at what frequency. The worksheets also describe responsibilities for collecting, compiling, analyzing, storing, and reporting data to USAID. In brief, the Outcome Performance Indicator and Standard Element Worksheets define the Indicators and establish the procedures for generating those Indicators on a periodic basis for delivery to USAID.

<b>Objective: EG Impact Indicator</b>									
<b>Area:</b> Infrastructure									
<b>Element:</b> Transport Services									
<b>Indicator:</b> KM of road built or rehabilitated through USG assistance									
DESCRIPTION									
<b>Is the Indicator Standard or Custom? Standard</b>									
<b>Precise Definition(s):</b> Km of road constructed or rehabilitated.									
<b>Unit of Measure:</b> KM									
<b>Disaggregated by:</b> N/A									
<b>Type:</b> Output					<b>Direction of Change:</b> Higher=better				
<b>Rationale/Management Utility:</b> LBG has been contracted by USAID to manage the construction of the Juba-Nimule Road (192km). Weekly field reports measure progress on the construction and rehabilitation works.									
PLAN FOR DATA ACQUISITION BY USAID									
<b>Data Collection Method:</b> Weekly field reports submitted by field supervisors									
<b>Method of Acquisition by USAID:</b> Weekly, Monthly, Quarterly and Annual Reports									
<b>Data Source(s):</b> Field reports									
<b>Frequency/Timing of Data Acquisition:</b> Weekly Reports									
<b>Estimated Cost of Data Acquisition:</b> Low									
<b>Responsible Individual(s) at USAID:</b> George Wagwa									
DATA QUALITY ISSUES									
<b>Date of Initial Data Quality Assessment:</b> November 2008									
<b>Known Data Limitations and Significance (if any):</b> N/A									
<b>Actions Taken or Planned to Address Data Limitations:</b> N/A									
<b>Date of Future Data Quality Assessments:</b> N/A									
<b>Procedures for Future Data Quality Assessments:</b> Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.									
PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING									
<b>Data Analysis:</b> N/A									
<b>Presentation of Data:</b> Data will be presented in Tables and narratives weekly and monthly reports									
<b>Review of Data:</b> Routine monitoring by LBG M&E team									
<b>Reporting of Data:</b> Monthly, Quarterly and Annual Reports									
OTHER NOTES									
<b>Measurement Notes on Baselines/Targets:</b> Baseline target was determined by USAID									
How was the target determined?									
Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
KM	N/A	N/A	192	192 repaired	95		97		192
<b>Location of Data Storage:</b> LBG SISP Juba Office									
<b>Other Notes:</b>									

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

<p><b>Objective: EG Impact Indicator</b>  <b>Area:</b> Infrastructure  <b>Element:</b> Transport Services  <b>Indicator:</b> Bridges Rehabilitated or Constructed</p>
<b>DESCRIPTION</b>
<p><b>Is the Indicator Standard or Custom?</b> Standard  <b>Precise Definition(s):</b>          Bridges rehabilitated or constructed. LBG has been contracted to repair and construct eight bridges located on the Juba-Nimule Road.</p> <p><b>Unit of Measure:</b> Bridges  <b>Disaggregated by:</b> N/A  <b>Type:</b> Output   <b>Direction of Change:</b> Higher=better  <b>Rationale/Management Utility:</b> Indicator measures progress of bridges rehabilitated and constructed on the Juba-Nimule Road.</p>
<b>PLAN FOR DATA ACQUISITION BY USAID</b>
<p><b>Data Collection Method:</b> Weekly field reports conducted by site supervisors and submitted to TO managers.  <b>Method of Acquisition by USAID:</b> Weekly, Monthly, Quarterly and Annual Reports  <b>Data Source(s):</b> Field reports  <b>Frequency/Timing of Data Acquisition:</b> Weekly Reports  <b>Estimated Cost of Data Acquisition:</b> Low  <b>Responsible Individual(s) at USAID:</b> George Wagwa</p>
<b>DATA QUALITY ISSUES</b>
<p><b>Date of Initial Data Quality Assessment:</b> November 2008  <b>Known Data Limitations and Significance (if any):</b> N/A  <b>Actions Taken or Planned to Address Data Limitations:</b> N/A  <b>Date of Future Data Quality Assessments:</b> September 2011  <b>Procedures for Future Data Quality Assessments:</b> Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.</p>
<b>PLAN FOR DATA ANALYSIS, REVIEW, &amp; REPORTING</b>
<p><b>Data Analysis:</b> N/A  <b>Presentation of Data:</b> Data will be presented in tables and narratives weekly and monthly reports  <b>Review of Data:</b> Routine monitoring by LBG M&amp;E team  <b>Reporting of Data:</b> Monthly, Quarterly and Annual Reports</p>
<b>OTHER NOTES</b>

**Measurement Notes on Baselines/Targets:** Baseline target was determine by USAID

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Bridges	N/A	N/A	9	9 rehabilitated	7 constructed		0		Retire indicator

**Location of Data Storage:** LBG SISP Juba Office**Other Notes:****THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan****Objective: EG Impact Indicator****Area:** Infrastructure**Element:** Transport Services**Indicator:** Number of people benefiting from USG supported transportation infrastructure projects (in thousands)**DESCRIPTION****Is the Indicator Standard or Custom?** Standard**Precise Definition(s):**

Estimation of the number of people who will benefit from using the transportation infrastructure. For example, as the result of a new road, 1000 people can travel to local markets to purchase goods and 1000 other people can now easily access to neighboring village's services. Therefore, 2000 people are benefiting from USG sponsored transportation infrastructure.

To determine the beneficiaries in 2008 LBG used the traffic count conducted in 2007 and interviews with local leaders. However in 2009 census data will be used.

**Unit of Measure:** People**Disaggregated by:** Gender starting in 2009**Type:** Outcome**Direction of Change:** Higher=better**Rationale/Management Utility** Measures the impact of the basic transportation infrastructure sponsored by the USG.**PLAN FOR DATA ACQUISITION BY USAID****Data Collection Method:** Annual Structured Interviews conducted by M&E officer and Community Development Officer and Census Data. The data collected is stored at the LBG Juba office and reported annually to USAID.**Method of Acquisition by USAID:** Annual Reports**Data Source(s):** Interviews, Traffic Count Tally Sheets and Census Data**Frequency/Timing of Data Acquisition:** Annual Reports**Estimated Cost of Data Acquisition:** Low**Responsible Individual(s) at USAID:** George Wagwa**DATA QUALITY ISSUES****Date of Initial Data Quality Assessment:** November 2008

**Known Data Limitations and Significance (if any):** The lack of 2008 census data restricted the data collection and analysis.

**Actions Taken or Planned to Address Data Limitations:** Census data will be used to calculate beneficiaries in 2009.

**Date of Future Data Quality Assessments:** September 2011

**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** N/A

**Presentation of Data:** Data will be presented in tables and narratives reported in quarterly and annual reports

**Review of Data:**

**Reporting of Data:** Information used in annual and quarterly reports

#### OTHER NOTES

**Measurement Notes on Baselines/Targets:** Baseline target was determine by USAID

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
People	500*	N/A	600	750	800		900		900

\*Thousands

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

**Objective: EG Impact Indicator**

**Area:** Infrastructure

**Element:** Transport Services

**Indicator:** Number of private local contractors in business as a result of USG assistance

#### DESCRIPTION

**Is the Indicator Standard or Custom?** Standard

**Precise Definition(s):** Firms currently carrying out construction, rehabilitation or maintenance on Juba-Nimule Road. Private local contractors refer to smaller and larger Southern-Sudanese owned enterprises.

**Unit of Measure:** Contractors

**Disaggregated by:** N/A

**Type:** Output

**Direction of Change:** Higher=better

**Rationale/Management Utility:** The indicator measures one method for capacity building in South Sudan. Local contractors capable of carrying out road works will positively impact infrastructure development in the South.

#### PLAN FOR DATA ACQUISITION BY USAID

**Data Collection Method:** Documents (contracts) and interviews with contractors. The interviews will be conducted by the M&E officer at the completion of each contract. The questionnaires will be developed by the M&E team.

**Method of Acquisition by USAID:** Monthly, Quarterly and Annual Reports

**Data Source(s):** LBG contract documents and membership records from business associations, GOSS records

**Frequency/Timing of Data Acquisition:** Monthly, Quarterly and Annual Reports

**Estimated Cost of Data Acquisition:** Low**Responsible Individual(s) at USAID:** George Wagwa**DATA QUALITY ISSUES****Date of Initial Data Quality Assessment:** November 2008**Known Data Limitations and Significance (if any):** N/A**Actions Taken or Planned to Address Data Limitations:** N/A**Date of Future Data Quality Assessments:** September 2011**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.**PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING****Data Analysis:** N/A**Presentation of Data:** Data will be presented in Tables and narratives quarterly and annual reports**Review of Data:** Review of contract documents and interviews by M&E team**Reporting of Data:** Information gathered from interviews and monthly, quarterly and annual reports.**OTHER NOTES****Measurement Notes on Baselines/Targets:** Baseline target was determined by USAID

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Local contractors	N/A	N/A	3	3	3		3		

**Location of Data Storage:** LBG SISP Juba Office**Other Notes:****THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan****Objective: EG Impact Indicator****Area:** Infrastructure**Element:** Transport Services**Indicator:** Number of local contractors capable of delivering \$ 2 million road construction or maintenance services per annum, as result of USG support**DESCRIPTION****Is the Indicator Standard or Custom?** Standard**Precise Definition(s):** Contractors carrying out construction, rehabilitation or maintenance totaling \$2 million or higher. A private local contractor refers to smaller and larger Southern-Sudanese owned enterprises.**Unit of Measure:** Contractors**Disaggregated by:** N/A**Type:** Output**Direction of Change:** Higher=better**Rationale/Management Utility:** Strengthening of number of large and small firms registered and owned by South Sudanese that are actively carrying out construction, rehabilitation and maintenance work will support infrastructure development in South Sudan.

**PLAN FOR DATA ACQUISITION BY USAID**

**Data Collection Method:** Documents (contracts) and interviews with contractors conducted by M&E officer.

**Method of Acquisition by USAID:** Monthly and Annual Reports

**Data Source(s):** LBG contract documents and membership records from business associations, GOSS records

**Frequency/Timing of Data Acquisition:** Monthly, Quarterly and Annual Reports

**Estimated Cost of Data Acquisition:** Low

**Responsible Individual(s) at USAID:** George Wagwa

**DATA QUALITY ISSUES**

**Date of Initial Data Quality Assessment:** November 2008

**Known Data Limitations and Significance (if any):** N/A

**Actions Taken or Planned to Address Data Limitations:**

**Date of Future Data Quality Assessments:** September 2011

**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

**PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING**

**Data Analysis:** N/A

**Presentation of Data:** Data will be presented in tables and narratives quarterly and annual reports

**Review of Data:** Routine monitoring by LBG M&E team

**Reporting of Data:** Information compiled from interviews, monthly, quarterly and annual reports.

**OTHER NOTES**

**Measurement Notes on Baselines/Targets:** Baseline target was determine by USAID

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Local contractors	N/A	N/A	N/A	N/A	3		3		

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

<p><b>Objective: EG Impact Indicator</b>  <b>Area:</b> Infrastructure  <b>Element:</b> Transport Services  <b>Indicator:</b> Number of new businesses created or expanded as a result of USG funded activities</p>
<b>DESCRIPTION</b>
<p><b>Is the Indicator Standard or Custom? Standard</b>  <b>Precise Definition(s):</b>  A business is defined as an income generating activity that meets at least one of the following criteria:  1. Marketing and selling of goods or services from a public location, including a shared or private storefront/building or market stall.  2. Sale (or intention of sale) of a majority of agricultural production.</p> <p>Under this definition, a new business can include a mobile or stationary business, microenterprise, service provision, seasonal businesses or agricultural activity provided they meet one of these criteria. This definition does NOT include one time service provision or agricultural production for household consumption as these do not constitute 'regular' income generation. Expanded means that revenues have increased, a new product has been offered, the business has expanded sales into new geographical areas, and/or employment numbers have increased.</p> <p>The construction/rehabilitation of the Juba-Nimule road has spurred the development many new businesses along the road including the creation of new market centers. This new business directly contributes to economic growth in the region and increases livelihood opportunities. New businesses will be counted every year and expanded businesses will be measured before and after program implementation.</p> <p><b>Unit of Measure:</b> Number of businesses  <b>Disaggregated by:</b> New/Expanded  <b>Type:</b> Outcome   <b>Direction of Change:</b> Higher=better  <b>Rationale/Management Utility:</b> Development of new businesses and livelihood opportunities is a critical component of economic growth and measurement of new or expanded businesses created by USG assistance provides a valid estimate of the impact of this assistance on economic growth in the area.</p>
<b>PLAN FOR DATA ACQUISITION BY USAID</b>
<p><b>Data Collection Method:</b> Annual Business Counts on the Juba-Nimule Road and business survey prior and post project implementation.  <b>Method of Acquisition by USAID:</b> Annual Reports and Baseline/Follow-up Reports  <b>Data Source(s):</b> Tally sheets and Business Surveys (Copies of the Baseline Survey are included in the Annex)  <b>Frequency/Timing of Data Acquisition:</b> Annually an prior and post project implementation  <b>Estimated Cost of Data Acquisition:</b> medium  <b>Responsible Individual(s) at USAID:</b> George Wagwa</p>
<b>DATA QUALITY ISSUES</b>
<p><b>Date of Initial Data Quality Assessment:</b> November 2008  <b>Known Data Limitations and Significance (if any):</b> Data quality depends on the ability to properly sample as well as the quality of the responses.  <b>Actions Taken or Planned to Address Data Limitations:</b> Census data will be used to conduct sampling in villages and towns.  <b>Date of Future Data Quality Assessments:</b> September 2011  <b>Procedures for Future Data Quality Assessments:</b> Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.</p>
<b>PLAN FOR DATA ANALYSIS, REVIEW, &amp; REPORTING</b>
<p><b>Data Analysis:</b> The raw data will be collected by survey team and analysis will conducted using Excel or STATA by LBG economists.  <b>Presentation of Data:</b> Data will be presented in tables and narratives in annual and baseline reports</p>

**Review of Data:** Routine monitoring and training by LBG M&E team

**Reporting of Data:** Annual and Baseline Reports

#### OTHER NOTES

**Measurement Notes on Baselines/Targets:** Baseline target was determine by USAID

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A	4	305	500		650		
New									
Expanded									
Or if disaggregated by gender									

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

**Objective: EG Impact Indicator**

**Area:** Infrastructure

**Element:** Transport Services

**Indicator:** Number of jobs created

#### DESCRIPTION

**Is the Indicator Standard or Custom?** Standard

**Precise Definition(s):** Local jobs generated carrying out construction, security, rehabilitation or maintenance works. Private local contractors' employees as well as LBG employees.

**Unit of Measure:** jobs created

**Disaggregated by:** gender

**Type:** Outcome

**Direction of Change:** Higher=better

**Rationale/Management Utility:** Road construction and maintenance activities directly contribute to economic recovery through the creation of jobs.

#### PLAN FOR DATA ACQUISITION BY USAID

**Data Collection Method:** Hiring trackers which are completed every month by field managers and signed by individual laborers. Time sheets collected by subcontractors.

**Method of Acquisition by USAID:** Monthly and Annual Reports

**Data Source(s):** Hiring trackers submitted from the field and time sheets

**Frequency/Timing of Data Acquisition:** Monthly and Annual Reports

**Estimated Cost of Data Acquisition:** Low

**Responsible Individual(s) at USAID:** George Wagwa

#### DATA QUALITY ISSUES

**Date of Initial Data Quality Assessment:** November 2008

**Known Data Limitations and Significance (if any):** Prior to 2009 there were no records of employees hired. The only record was email correspondence between LBG staff and subcontractors.

**Actions Taken or Planned to Address Data Limitations:** Hiring tracker drafted and distributed to all sub-contractors

**Date of Future Data Quality Assessments:** September 2011

**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** N/A

**Presentation of Data:** Data will be presented in tables and narratives quarterly and annual reports

**Review of Data:** Routine monitoring by LBG M&E team to determine whether hiring tracker is filled out properly and submitted to TO manager.

**Reporting of Data:** Annual and Baseline Reports

#### OTHER NOTES

**Measurement Notes on Baselines/Targets:** Baseline target was determine by USAID

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Male	N/A	N/A	500	834	1250		500		
Female	N/A	N/A		164	250				

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON:** June 29, 2009 by Sonia Moldovan

**Objective:** EG Impact Indicator

**Area:** Infrastructure

**Element:** Transport Services

**Indicator:** Traffic Count

#### DESCRIPTION

**Is the Indicator Standard or Custom?** Custom

**Precise Definition(s):** Traffic count on rehabilitated/maintained roads.

**Unit of Measure:** Motor Vehicles

**Disaggregated by:** N/A

**Type:** Outcome

**Direction of Change:** Higher=better

**Rationale/Management Utility:** An increase in traffic along the rehabilitated road is an indicator of economic growth and recovery

#### PLAN FOR DATA ACQUISITION BY USAID

**Data Collection Method:** 7 day traffic count on the roads.

**Method of Acquisition by USAID:** LBG will provide estimates to USAID on an annual basis.

**Data Source(s):** Tally sheets

**Frequency/Timing of Data Acquisition:** Annually.

**Estimated Cost of Data Acquisition:** Low

**Responsible Individual(s) at USAID:** Boutros Magaya

#### DATA QUALITY ISSUES

**Date of Initial Data Quality Assessment:** N/A

**Known Data Limitations and Significance (if any):** Data quality depends on the ability to properly note vehicles and complete the tally sheets during the traffic count.

**Actions Taken or Planned to Address Data Limitations:** N/A

**Date of Future Data Quality Assessments:** September 2011

**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** TO managers and M&E officer will verify tally sheets as well as monitor part of the implementation.

**Presentation of Data:** Data will be presented using standard USAID reporting format

**Review of Data:** M&E officer will supervise traffic count along with surveyors and engineers.

**Reporting of Data:** Information compiled from traffic count tally sheets and presented in annual reports.

#### OTHER NOTES

**Measurement Notes on Baselines/Targets:** Baseline target was determine by USAID

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	Traffic Count 2007*	N/A	N/A	09>07 traffic count		10>09 traffic count		TBD

\*Tables included below

**Location of Data Storage:** LBG SISF Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

**TRAFFIC COUNT 2007**From **Juba Bridge** to **Bor Jct.** **3.4 km**

	M/cycle	Car	4WD	Minibus	Big Bus	Light Truck	Medium Truck	Heavy Truck	Articulated Truck	Total
Average	341	5	235	148	22	145	133	65	30	1,125
Diverted traffic	-	2	31	20	4	14	18	23	15	126
<b>AADT base case</b>	<b>341</b>	<b>6</b>	<b>266</b>	<b>167</b>	<b>26</b>	<b>159</b>	<b>151</b>	<b>89</b>	<b>45</b>	<b>1,251</b>
In % of AADT	27%	1%	21%	13%	2%	13%	12%	7%	4%	100%

From **Bor Jct.** to **Torit Jct.** **17.4 km**

	M/cycle	Car	4WD	Minibus	Big Bus	Light Truck	Medium Truck	Heavy Truck	Articulated Truck	Total
Average	5	6	33	2	7	19	53	23	9	158
Diverted traffic	-	2	31	20	4	14	18	23	15	126
<b>AADT base case</b>	<b>5</b>	<b>7</b>	<b>64</b>	<b>22</b>	<b>11</b>	<b>32</b>	<b>72</b>	<b>47</b>	<b>24</b>	<b>284</b>
In % of AADT	2%	3%	23%	8%	4%	11%	25%	16%	8%	100%

From **Torit Jct.** to **Nimule Center** **169.2 km**

	M/cycle	Car	4WD	Minibus	Big Bus	Light Truck	Medium Truck	Heavy Truck	Articulated Truck	Total
Average	3	4	11	1	7	17	44	16	6	111
Diverted traffic	-	2	31	20	4	14	23	31	18	142
<b>AADT base case</b>	<b>3</b>	<b>6</b>	<b>43</b>	<b>21</b>	<b>12</b>	<b>32</b>	<b>67</b>	<b>47</b>	<b>24</b>	<b>254</b>
In % of AADT	1%	2%	17%	8%	5%	12%	27%	19%	9%	100%

From **Nimule Center** to **Ugandan Border** **2.0 km**

	M/cycle	Car	4WD	Minibus	Big Bus	Light Truck	Medium Truck	Heavy Truck	Articulated Truck	Total
Average	683	2	117	74	11	73	66	33	15	1,074
Diverted traffic	-	2	31	20	4	14	23	31	18	142
<b>AADT base case</b>	<b>683</b>	<b>4</b>	<b>149</b>	<b>94</b>	<b>15</b>	<b>87</b>	<b>89</b>	<b>64</b>	<b>33</b>	<b>1,217</b>
In % of AADT	56%	0%	12%	8%	1%	7%	7%	5%	3%	100%

M/cycles = 2 times Juba - Bor Jct

Other vehicles = half Juba - Bor Jct



### **3. PMP for Water and Sanitation Sector**

#### **3.1 SISP Water and Sanitation Sector Projects**

Since the signing of the CPA in 2005, the influx of returnees to Juba has overwhelmed the ageing water and sanitation infrastructure of the city. Most sections have no access to the municipal water system and the majority of the population relies on untreated water obtained directly from the Nile. Human waste disposal is completely uncontrolled resulting in very high pollution levels. These conditions, coupled with the rapid population growth, have made water borne illness endemic. In 2006, Juba experienced a major outbreak of cholera which resulted in many deaths.

The Juba Community Water Project has three component projects of two types. The first projects are Quick Impact Projects (QIP) that will provide potable water to large segments of Juba's population to reduce water-borne diseases. The QIP projects are as follows:

- Tanker Truck Chlorination
- Community Water Supply Tank Installation
- Hygiene and Point-of-Use Water Treatment Program

The Juba Community Quick Impact Projects started in May 2008 and consisted of the tanker truck chlorination and the construction of community supply systems along the river. The medium term projects started in June 2008 and include the expansion of the city water distribution network to provide a water supply to elevated tanks in Kator and Munuki, borehole rehabilitation, public latrine and ablution block construction, household latrine program and the hygiene and point of use (POU) water treatment initiative. The original work plan, approved by USAID, recommended that the water program is expanded to Wau the second year. Therefore a baseline survey was conducted in anticipation of expanding the urban Water, Sanitation and Hygiene (WASH) program to Wau.

#### **3.2 Overview of PMP Method**

As noted earlier, the PMP for the water and sanitation sector will include two basic performance indicators: Standard Element and Outcome Performance Indicators.

##### ***Standard Element Indicators Data Collection Methods***

Standard element indicators provide a means for measuring how a project is attaining its immediate objectives for implementing the contract. For the water sector this could include how many community leaders are trained in water and sanitation management by a certain date. In this way, the Standard Element (achievement) indicators measure the progress and effectiveness of project implementation. The data needed to report on these indicators will be collected and recorded by survey managers working within Gabat, Munuki and Kator communities.

### ***Outcome Performance Data Collection Methods***

The water project has multiple ZOIs due to the four different components. The tanker truck chlorination project targeted the following communities: Kator, Gabat–Juba na Bari through Prison Area to Juba Grand Hotel vicinity, Jebel Nyoka-Kasava and Munuki–Nyokuron, and Munuki proper. The Community Water Supply project was limited to its geographical scope to the communities of Lologo, Kator (near the bridge) and Kator (Lologo). The Juba Hygiene and POU Initiative targets: Kator, Gabat–Juba na Bari through Prison Area to Juba Grand Hotel Vicinity, Jebel Nyoka-Kasava and Munuki–Nyokuron, and Munuki Proper. The expansion of the city water distribution system has targeted the Kator and Munuki communities.

It is important to note the overlap in the water project’s geographical scope. For example, the communities of Jebel Nyoka-Kasava and Munuki–Nyokuron were the intended beneficiaries of all of the projects. Accordingly, any changes indicated by future surveys of these communities would have to be attributed to the overall water project and not to any of the particular subcomponents.

Since the program duration was for only one year, ex-post surveys were undertaken at the end of the program to measure changes in socio-economic and health indicators resulting from the project’s implementation. For each project the M&E team conducted a baseline survey and a follow-up survey.

The baseline socio-economic and health surveys collected the raw data necessary to measure a series of impact socio-economic and health indicators (which are described more detail below). The socio-economic indicators measured important social and economic characteristics such as consumption, income and returnee status. The health indicators measured health characteristics such as incidences of cholera and diarrhea, sanitation habits as well as attitudes toward sanitation habits. In this way, the surveys were designed to collect objective data as well as opinion data.

There was a questionnaire module used to measure household socio-economic and health characteristics. The questionnaire is as follows:

***Household Socio-Economic and Health Survey:*** Households are a basic economic unit, and the survey questionnaires provide a useful description of their current socio-economic and health circumstances. The questionnaire sought information on such topics as family size, expenditure patterns as well as disease incidence and sanitation practices.

This survey was used to obtain information about water collection practices as well as the health and sanitation practices of women and children. It is important to understand how women are impacted as they are usually responsible for collecting water and are the primary care-givers for children in the household.

### ***Neighborhood Demographic Interviews***

In addition to the survey questionnaires, semi-structured interviews with neighborhood leaders, councils and/or associations were conducted to collect community demographic information

about the populations in Gabat, Munuki and Kator areas. This included information about number of returnees in the population, clinics, and current sources of water and public sanitation facilities. The data generated through these interviews addressed conditions of the surveyed neighborhoods, with particular regard to available water, health and sanitation resources in the communities. In addition, the neighborhood demographic interviews could be tied into the community development plan effort through inquiring about community water and sanitation infrastructure priorities. The Demographic Surveys were only conducted for the initial baseline. The data collected from these surveys differ substantially from the census data and household survey data. Therefore these surveys will be omitted from future studies.

The survey and interviews were conducted by local staff and supervised by one or two expatriate socio-economists. Two survey managers from Juba oversaw the implementation of the surveys. These survey managers hired 10 enumerators to assist with the surveys. The duration of the surveys was approximately one month. **Annex I** presents the draft survey questionnaire and interview protocol in English that was used for the baseline and follow-up surveys. The team pre-tested the survey questions to ensure they were clearly understood by respondents.

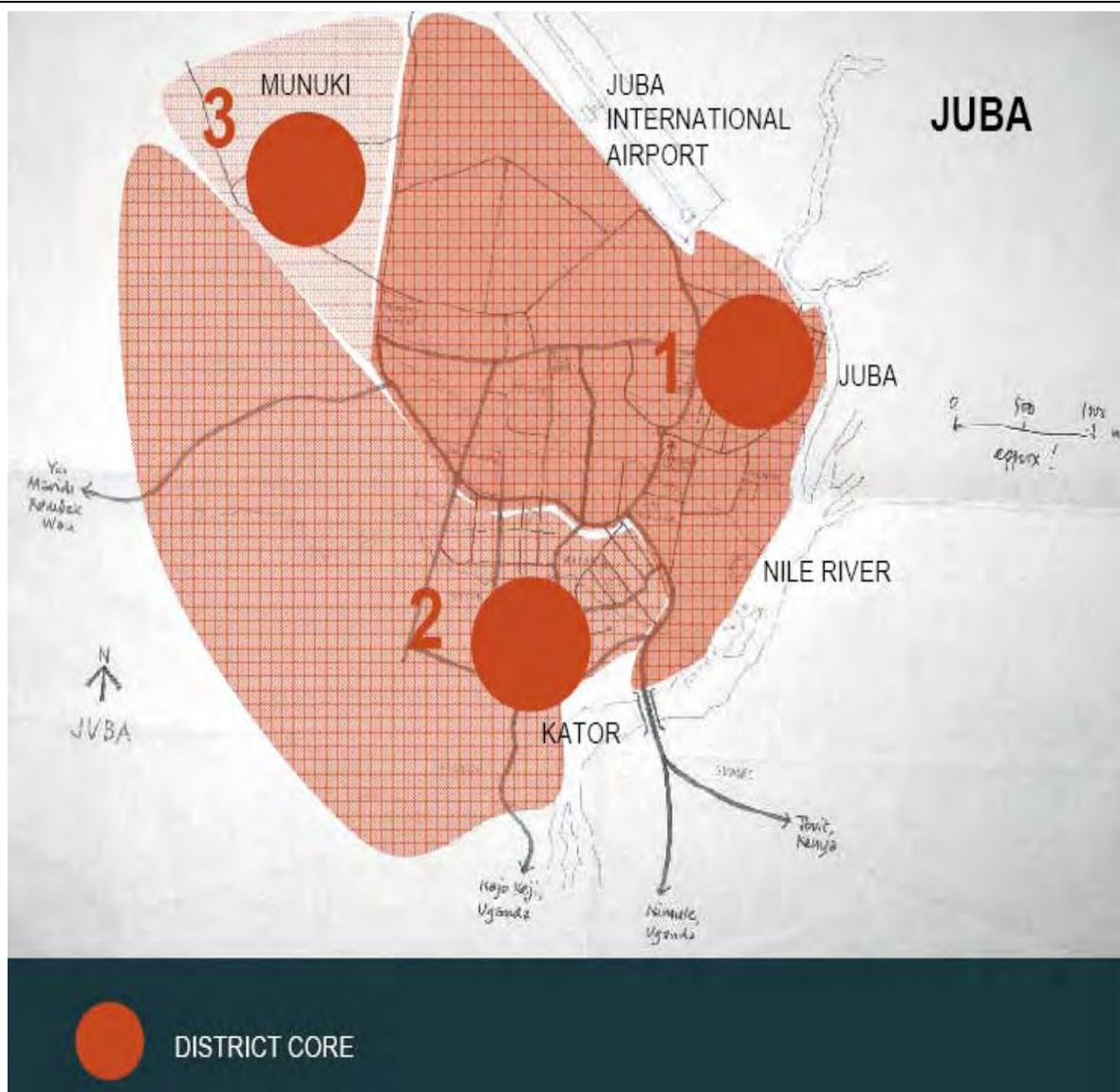
### **3.3 Zone of Influence and Sampling Method**

Since the signing of the CPA, the City of Juba has been transformed from a garrison town to a bustling civilian capital. The population of the city has increased dramatically; reaching approximately 250,000 by the end of 2005, including internally displaced persons (IDPs).<sup>9</sup> However, population has increased significantly in the past two years due to the constant influx of returnees pouring back into the city. Current population estimates are very rough as new returnee settlements continue to appear throughout the city. A more accurate picture of the city's demographics became available as Sudan's first nation-wide census since 1993 began on April 15, 2008 with data being released during the summer of 2008.

Accordingly, the PMP must rely on population estimates and mapping to determine the populations of Gabat, Munuki and Kator for the sampling protocol. As noted, Gabat is a smaller resettlement community within Juba Town sub-district, while Munuki and Kator are separate sub-districts. **Exhibit 3** below shows a map of the sub-districts of Greater Juba.

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<sup>9</sup>Creative Associates. "Juba Assessment: Town Planning and Administration." The United States Agency for International Development. Draft, November 2005.



### Exhibit 3: Sub-Districts of Greater Juba

Source: Creative Associates. "Juba Assessment: Town Planning and Administration", The United States Agency for International Development. Draft, November 2005.

In 2005, it was estimated that Juba Town had approximately 77,000 residents, Munuki had approximately 100,000 residents and Kator had approximately 73,000 residents.<sup>10</sup> Only the ZOI around the proposed project site was sampled. The ZOI had a radius of about 500 meters around the proposed project site, which is a reasonable distance to walk for water and sanitation services. The ZOI areas were delineated using detailed maps of greater Juba. The ZOI for Gabat included the entire community because it was already a defined neighborhood within Juba Town. Because there were no data on domicile locations, it was not possible to obtain a preselected random sample of the households in the ZOIs. Therefore, a modified area sampling technique

<sup>10</sup> Ibid.

was used to obtain the most representative sample possible. This technique involved breaking the ZOI into smaller sample blocks. Enumerators were then responsible for sampling a certain number of households within each sample block. While this technique is considered to produce less reliable results than choosing a pre-selected random sample, it was only technique that produced reasonably representative results given the data constraints.

The specific sampling procedure consisted of six steps<sup>11</sup>:

- a) The team estimates the approximate number of households in each sampling block in the selected ZOI or neighborhood;
- b) The estimated total number of households in each sampling block is divided by 5 or 10 or 20 (depending on how many households are estimated to be in the sampling block) to obtain the sampling interval;
- c) A random start number is selected between one and the sampling interval;
- d) From the center of the sampling block, a pen is spun to determine the sampling direction;
- e) Household counting begins from the nearest house up to the desired start number, which is the first house to be interviewed;
- f) This start house is marked and counting continues until all the households are marked and interviewed.

For the neighborhood demographic interviews, local survey managers first met with and interviewed neighborhood officials. They then asked if there were any other councils or associations within the neighborhood that would have any information community health water and/or sanitation. If so, then the local survey managers conducted additional interviews with them.

### **3.4 Rough Order of Magnitude Cost for Performance Monitoring**

Monitoring of the SISP water and sanitation project involved conducting a baseline survey and a follow-up survey as well as collecting administrative information on standard element (achievement) indicators. Establishing baseline conditions entailed conducting a series of surveys and informant interviews at targeted communities in Juba. The baseline survey was estimated to take approximately 2 months to implement and 1 month to analyze the data. The follow-up survey at the end of year 1 required the same level of effort. A baseline survey was conducted in December 2008 in Wau and there may be a new round of baseline surveys conducted in Makalal in 2010 if it is recommended that the SISP water and sanitation projects are replicated in this area.

The largest cost component of the PMP program was the cost for one senior-level expatriate economist and two mid-level expatriate economists with surveying experience to oversee the design and implementation of the PMP including analysis and reporting of results. The

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<sup>11</sup> This survey procedure is modified from the "South Sudan Annual Needs and Livelihood Assessment." World Food Program, Food and Agriculture Organization, and The South Sudan Ministry of Forestry and Agriculture. (2007). The sampling procedure will be modified for each project site. In Wau the M&E team selected random points and trained survey manager on how to locate them on the map.

remaining expenditures were for the SISP survey managers, translators, and enumerators. In 2008 the cost of the project was estimated as follows:

**Exhibit 4: Project Cycle Cost**

<b>Year 1</b>	<b>Initial Water Sector Baseline Survey</b>
	\$65,702
	<b>Follow-up Surveys/Baseline for Wau</b>
<b>Year 2</b>	\$70,000
<b>Year 3</b>	\$40,560
<b>Year 4</b>	\$42,588
<b>Total</b>	<b>\$187,850</b>

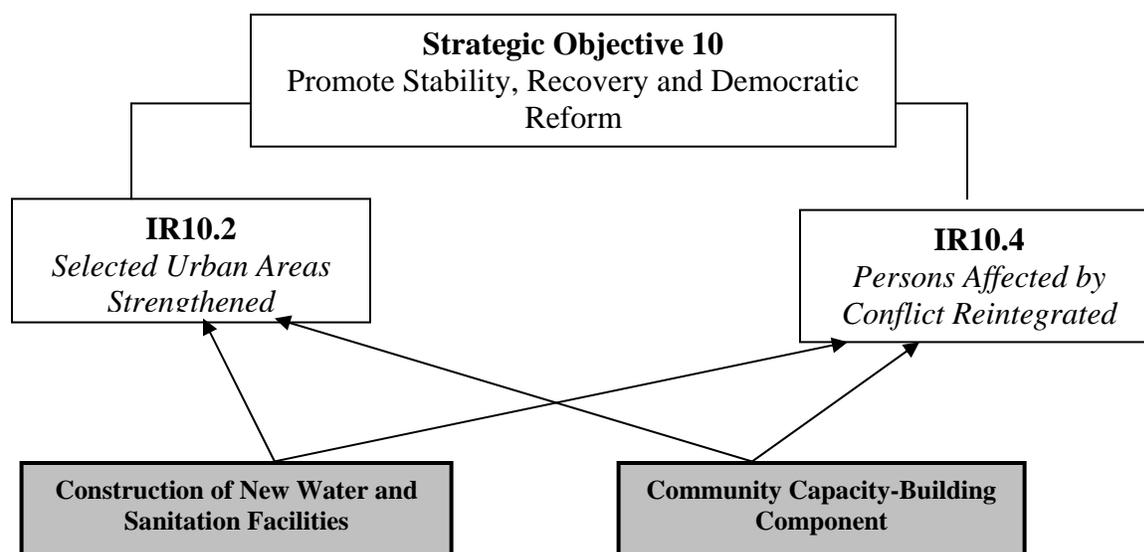
### 3.5 Results Framework

**Exhibit 5** below depicts how the SISP water and sanitation projects are mapped to USAID's Strategic Objectives 10 and the Intermediate Results associated with that Strategic Objective. Water and sanitation infrastructure is not explicitly referenced in any of the Intermediate Results associated with SO10. However, successful implementation of the SISP water and sanitation project should contribute to the attainment of two Intermediate Results that support SO 10. For SO10, the impact indicators for water and sanitation projects map to:

IR 10.2: Selected Urban Areas Strengthened

IR 10.4: Affected by Conflict Reintegrated

In particular, providing access to clean water and sanitation services should have an immediate health, social and economic impact for the newest residents of Juba. First and foremost, these services will decrease the likelihood that vulnerable communities in Gabat, Munuki and Kator will fall victim to debilitating water-borne diseases like cholera and acute watery diarrhea (AWD). This will help to solidify stability in Juba as communities will be less susceptible to panic-inducing pandemics. It will also help to strengthen the economy of Juba as workers, small-business owners and micro-entrepreneurs will be less susceptible to illnesses that keep them away from their normal economic activities



**Exhibit 5: Graphical Representation of Results Framework Strategic Objective 10, IR 10.2 and IR 10.4.**

Moreover, access to clean water and sanitation will go a long way to integrate the most vulnerable of all of Juba’s residents—women and children—into South Sudanese society. Improved access to clean water may help women and children reduce the time they spend fetching water, particularly if new access points are installed in areas closer to their homes. Additionally, children, who are particularly susceptible to water-borne illnesses, may miss fewer school days if they have access to clean water. Lastly, the integration of the concerns of women and children through the community capacity-building program will help them have a say in the implementation and management of public services in their communities.

### **3.5.1 Linkage between Outcome Performance Indicators for the Water and Sanitation Projects and Intermediate Results**

USAID recognizes that provision of basic water and sanitation infrastructure is critical to integrating persons affected by conflict and strengthening urban centers in South Sudan. Access to clean water and sanitation services is a necessary condition for the economic, political and social development of Juba. Since there is little public water and sanitation infrastructure, water-borne illnesses are a constant threat to the population, particularly during the rainy season. In 2006, Juba experienced large outbreaks of cholera and AWD.<sup>12</sup> Such outbreaks are significantly costly in terms of loss of life and economic productivity.

Although SO 10 and its supporting Intermediate Results do not explicitly relate to improved access to water and sanitation, the SISIP program would help establish conditions that would help promote attainment of the reintegration of persons affected by conflict and the strengthening of selected urban areas such as Juba. In particular, improved water and sanitation services should significantly decrease the number of days residents are sick with water-borne illnesses, decrease

<sup>12</sup> United Nations Central Emergency Response Fund. “CERF Sudan Report 2006.” The United Nations. (2006).

time spent obtaining clean water for household consumption and thus improve economic productivity and increase the number of days children attend school. These affects will certainly contribute to USAID's goals.

### **3.5.1.1 Outcome Performance Indicators**

As with the Juba-Nimule Road project, the water and sanitation projects are indirectly linked to IR 10.2 and IR 10.4. Thus, Outcome Performance indicators are organized in a series of categories which capture the predominant socioeconomic and health impacts of improving water and sanitation services in the three communities. These include Household Socio-Economic Indicators, Household Health Indicators, Health Indicators and a willingness-to-pay study.

#### ***Household Socioeconomic Impact Indicators***

Although changes in income and expenditures can result from exogenous factors, clean water and adequate sanitation services are clearly essential for having a healthy and productive citizenry. Ensuring a health population will also help other projects such as livelihood programs, microfinance programs and job training programs become more successful.

Collectively, the performance indicators will provide an ex-ante and ex-post overview of the water and sanitation program's impact on household income and expenditures. For example, a clear improvement would be if the share of water expenditures to total expenditures decreased as a result of the project. Moreover, respondents will be asked to recall these indicators for the dry and rainy seasons to capture changes in water and sanitation expenditures during the rainy season. Lastly, through these indicators, the team will also collect information on willingness-to-pay for improved water and sanitation services, which is important for the long-term sustainability of the program on the community-level. The indicators are as follows:

- Average Household Monthly Wage Income
- Adult Illiteracy Rate

#### ***Household Health Indicators***

Household Health indicators measure the program's impact both on reducing common water-borne illnesses through the infrastructure component as well as its impact on changing behaviors through the community capacity-building component. In addition, they will attempt to measure the loss of human productivity by asking respondents to estimate the number of days they have missed from work due to water-borne illness. The full set of health indicators are:

- Percentage of Households Reporting AWD During the Previous 12 Months;
- Average Cases of AWD per Household in the Previous 12 Months;
- Incidences of Death from Water Borne Diseases;
- Average Number of Weeks Missed in Previous Year due to AWD per Household;
- Average number of weeks missed per school-age child in previous year due to AWD;
- Percentage of HH Members always Hand Washing After Using the Latrine
- Percentage of HH Members always Hand Washing After Using Latrine

### ***Water and Sanitation Accessibility Indicators***

These indicators will measure any change in access to treated water and latrine services in the ZOI.

- Percentage of HH Receiving Water from Clean or treated Sources
- Percentage of HH Chlorinating Water
- Average Time Spent Daily Collecting Water
- Percentage Of Households Paying for Water
- Average HH Monthly expenditures for Water

### **3.5.1.2 Standard Element Indicators**

As discussed earlier, the PMP will also include “standard element indicators” to measure the progress and success of each project in meeting immediate and direct project objectives. The following achievement indicators will be employed to measure the degree to which project objectives are being met:

- Number of People in Targeted Areas with Access to Improved Drinking Water Supply;
- Number of People Trained in Good Health and Hygiene Practices;
- Number of People in Targeted Areas with Access to Improved Sanitations as a result of USG assistance
- Number of Businesses Created or Expanded
- Number of Jobs Created

## **3.6 Performance Indicator Worksheets**

This section presents the Outcome Performance and Standard Element Indicator Worksheets that correspond to the Outcome Performance and Standard Element Indicators described above. The Worksheets were prepared at a level of detail such that they were applicable to the Juba community Water Projects and all other SISP Water projects that were and will be evaluated under the SISP PMP. The cost for obtaining data, in this case, the rough cost of implementing the surveys for the Juba Community Household Surveys is presented in section 2.3.

The Performance Indicators were based on USAID’s Performance Management Toolkit (April 2003). However, because the Plan was prepared in the absence of even the most basic socioeconomic data for the ZOI for the Juba Community Household Surveys, it was not realistic to generate target and actual values for the set of performance impact indicators. Instead, these values were determined based on the results of the socioeconomic baseline studies.

Each Performance Indicator Worksheet clearly defines the Indicator and provides for how the data will be collected, by whom, and at what frequency. The worksheets also describe responsibilities for collecting, compiling, analyzing, storing, and reporting of data to USAID. In

short, the Performance Worksheets define the Indicators and establish the procedures for generating those Indicators on a periodic basis for delivery to USAID.

<p><b>Objective: EG Impact Indicator</b>  <b>Area: Health</b>  <b>Element: Water/Sanitation</b>  <b>Indicator:</b> Number of People in Target Areas with Access to Improved Drinking Water Supply as Result of USG Assistance</p>
<b>DESCRIPTION</b>
<p><b>Is the Indicator Standard or Custom? Standard</b>  <b>Precise Definition(s):</b></p> <p>Number of people in target community beneficiary population with access to improved drinking water supply.</p> <p>It is important to note that improved sources may still contain harmful substances, and water can be contaminated during transport and storage. Improved drinking water sources includes water supply technologies including household water connection, public standpipe, borehole, protected dug well, protected spring, rainwater collection and bottled water (if a secondary source is also improved).</p> <p>LBG aimed to improve access to treated water in neighborhoods with high incidences of water-borne disease. The program also focused on building the capacity of community based organizations to manage water facilities.</p> <p><b>Unit of Measure:</b> people  <b>Disaggregated by:</b> Gender starting in 2009  <b>Type:</b> Outcome   <b>Direction of Change:</b> Higher=better  <b>Rationale/Management Utility:</b> This indicator accurately measures delivery of a basic human service, using definitions that are completely consistent with internationally endorsed WHO/UNICEF indicators</p>
<b>PLAN FOR DATA ACQUISITION BY USAID</b>
<p><b>Data Collection Method:</b> Chlorination logs as well as site logs monitoring the number of people collecting water.  <b>Method of Acquisition by USAID:</b> LBG will provide data to USAID for the duration of ISP Project.  <b>Data Source(s):</b> Tanker truck chlorination and water guard distribution logs.  <b>Frequency/Timing of Data Acquisition:</b> Annually and Quarterly.  <b>Estimated Cost of Data Acquisition:</b> Low  <b>Responsible Individual(s) at USAID:</b> George Wagwa and Martin Swanka</p>
<b>DATA QUALITY ISSUES</b>
<p><b>Date of Initial Data Quality Assessment:</b> November 2008  <b>Known Data Limitations and Significance (if any):</b> None  <b>Actions Taken or Planned to Address Data Limitations:</b> N/A  <b>Date of Future Data Quality Assessments:</b> September 2011  <b>Procedures for Future Data Quality Assessments:</b> Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.</p>
<b>PLAN FOR DATA ANALYSIS, REVIEW, &amp; REPORTING</b>
<p><b>Data Analysis:</b> N/A.  <b>Presentation of Data:</b> Data will be presented in tables and narratives in annual and baseline reports  <b>Review of Data:</b> Routine monitoring and training and site visits by LBG M&amp;E team</p>

<b>Reporting of Data:</b> Information compiled from monthly, quarterly and annual reports.									
<b>OTHER NOTES</b>									
<b>Measurement Notes on Baselines/Targets:</b> How was the target determined?									
Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A	50,000	180,087	171,000		N/A		
<b>Location of Data Storage:</b> LBG SISP Juba Office									
<b>Other Notes:</b>									
<b>THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan</b>									

<b>Objective: EG Impact Indicator</b>	
<b>Area:</b> Health	
<b>Element: Water/Sanitation</b>	
<b>Indicator:</b> Number of Jobs Created	
<b>DESCRIPTION</b>	
<b>Is the Indicator Standard or Custom?</b> Standard	
<b>Precise Definition(s):</b> Number of jobs created as a result of Water and Sanitation projects implemented by LBG and sub-contractors.	
<b>Unit of Measure:</b> Number of people.	
<b>Disaggregated by:</b> Gender	
<b>Type:</b> Outcome	<b>Direction of Change:</b> Higher=better
<b>Rationale/Management Utility:</b> Measures Progress of ISP in improving water supply and Sanitation infrastructure while creating jobs.	
<b>PLAN FOR DATA ACQUISITION BY USAID</b>	
<b>Data Collection Method:</b> Data will be provided by subcontractors and field supervisors to TO manager	
<b>Method of Acquisition by USAID:</b> LBG will provide data to USAID for the duration of ISP Project	
<b>Data Source(s):</b> Hiring tracker for the laborers employed.	
<b>Frequency/Timing of Data Acquisition:</b> Monthly and annually	
<b>Estimated Cost of Data Acquisition:</b> low	
<b>Responsible Individual(s) at USAID:</b> George Wagwa and Martin Swaka	
<b>DATA QUALITY ISSUES</b>	
<b>Date of Initial Data Quality Assessment:</b> November 2008	
<b>Known Data Limitations and Significance (if any):</b> Data quality depends on the ability of site supervisors to fill out hiring tracker monthly.	
<b>Actions Taken or Planned to Address Data Limitations:</b> N/A	
<b>Date of Future Data Quality Assessments:</b> N/A	
<b>Procedures for Future Data Quality Assessments:</b> N/A	
<b>PLAN FOR DATA ANALYSIS, REVIEW, &amp; REPORTING</b>	
<b>Data Analysis:</b> N/A.	
<b>Presentation of Data:</b> Data will be presented in tables and narratives in annual and baseline reports	

**Review of Data:** Routine monitoring and training by LBG M&E team

**Reporting of Data:** Information compiled from monthly, quarterly and annual reports.

#### OTHER NOTES

#### Measurement Notes on Baselines/Targets:

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Jobs Create Male	N/A	N/A	500	63	70		85		
Jobs Created Female				8	10		20		

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

**Objective:** EG Impact Indicator

**Area:** Health

**Element:** Water/Sanitation

**Indicator:** Number of people in target areas with access to improved sanitation as a result of USG assistance

#### DESCRIPTION

**Is the Indicator Standard or Custom?** Standard

**Precise Definition(s):**

Number of people who now have access to latrines.

Improved access to pit latrine in neighborhoods of high cholera and other water-borne disease occurrences will improve overall health and reduce infant, child and women mortality. The program will also increase the capacity of community based organizations to improve sanitation coverage.

**Unit of Measure:** Number of people

**Disaggregated by:** Gender starting 2009

**Type:** Outcome

**Direction of Change:** Higher=better

**Rationale/Management Utility:** This indicator accurately measures delivery of a basic human service, using definitions that are completely consistent with internationally endorsed WHO/UNICEF indicators

#### PLAN FOR DATA ACQUISITION BY USAID

**Data Collection Method:** Weekly site reports and site visits by implementers and M&E officer.

**Method of Acquisition by USAID:** Monthly Reports, Quarterly and Annual Reports

**Data Source(s):** Site reports as well as records of fees collected for facilities usage

**Frequency/Timing of Data Acquisition:** Monthly and Quarterly

**Estimated Cost of Data Acquisition:** low

**Responsible Individual(s) at USAID:** George Wagwa and Martin Swaka

#### DATA QUALITY ISSUES

**Date of Initial Data Quality Assessment:** November 2008

**Known Data Limitations and Significance (if any):** Data quality depends on the ability to properly collect fees as well as monitor the collection of fees.

**Actions Taken or Planned to Address Data Limitations:** N/A

**Date of Future Data Quality Assessments:** September 2011

**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** N/A

**Presentation of Data:** Data will be presented in tables and narratives in annual reports

**Review of Data:** Routine monitoring and training by LBG M&E team

**Reporting of Data:** Information compiled from quarterly and annual reports.

#### OTHER NOTES

**Measurement Notes on Baselines/Targets:**

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A	53,000	N/A	53,000				53,000
Male	N/A	N/A	26,500	N/A	26,500				26,500
Female	N/A	N/A	26,500	N/A	26,500				26,500

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

**Objective: EG Impact Indicator**

**Area:** Health

**Element:** Water/Sanitation

**Indicator:** Number of New Business Created or Expanded

#### DESCRIPTION

**Is the Indicator Standard or Custom?** Standard

**Precise Definition(s):**

A business is defined as an income generating activity that meets at least one of the following criteria:

1. Marketing and selling of goods or services from a public location, including a shared or private storefront/building or market stall.
2. Sale (or intention of sale) of a majority of agricultural production.

However, for the Water Program the number mainly refers to vendors and smaller businesses selling Waterguard

**Unit of Measure:** Number of businesses

**Disaggregated by:** N/A

**Type:** Outcome

**Direction of Change:** Higher=better

**Rationale/Management Utility:** This indicator measures the increase in the number of new businesses selling chlorination tablets. An increase in the number of businesses contributes to economic growth as well as increase in the number of people with access to clean water.

#### PLAN FOR DATA ACQUISITION BY USAID

**Data Collection Method:** Waterguard Distribution Logs from PSI

**Method of Acquisition by USAID:** Monthly Reports

**Data Source(s):** Water Guard Vendor List

**Frequency/Timing of Data Acquisition:** Monthly

**Estimated Cost of Data Acquisition:** Low

**Responsible Individual(s) at USAID:** George Wagwa and Martin Swaka

#### DATA QUALITY ISSUES

**Date of Initial Data Quality Assessment:** November 2008

**Known Data Limitations and Significance (if any):** Data quality depends on the ability to properly differentiate between newly created business and expanded business.

**Actions Taken or Planned to Address Data Limitations:** N/A

**Date of Future Data Quality Assessments:** September 2011

**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** The raw data will be collected by subcontractors and stored at the LBG office.

**Presentation of Data:** Data will be presented in Tables and narratives in annually reports

**Review of Data:** Routine monitoring and training by LBG M&E team

**Reporting of Data:** Information compiled from monthly and quarterly reports.

#### OTHER NOTES

##### Measurement Notes on Baselines/Targets:

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A	100	100	150		200		200

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

**Objective: EG Impact Indicator**

**Area: 3.1 Health**

**Element: 3.1.8 Water and Sanitation**

**Indicator Title: NUMBER OF INDIVIDUALS TRAINED IN GOOD HEALTH AND HYGIENE PRACTICES**

#### DESCRIPTION

**Custom Indicator: Standard**

**Precise Definition(s):**

Training refers to people reached through safe water/hygiene/sanitation outreach programs and people reached through module-style safe water system trainings/ trainings.

Training in good health and hygiene practices in neighborhoods of high cholera and other water-borne disease occurrences will improve overall health and reduce infant, child and women mortality.

**Unit of Measure:** Number of people

**Disaggregated by:** gender starting 2009

**Type:** Output

**Direction of Change:** Higher=better

**Rationale/Management Utility:** The intent of the indicator is to measure the total number of people trained in hygiene and good health practices according to national or international standards.

#### PLAN FOR DATA ACQUISITION BY USAID

**Data Collection Method:** Data provided by LBG water to TO manager from subcontractors and field staff conducting training

**Method of Acquisition by USAID:** Scheduled reports from partners

**Data Source(s):** Reports, training logs and sign in sheets

**Frequency/Timing of Data Acquisition:** Monthly and quarterly reports

**Estimated Cost of Data Acquisition:** Low

**Responsible Individual(s) at USAID:** George Wagwa and Martin Swanka

#### DATA QUALITY ISSUES

**Date of Initial Data Quality Assessment:** November 2008

**Known Data Limitations and Significance (if any):** None

**Actions Taken or Planned to Address Data Limitations:** N/A

**Date of Future Data Quality Assessments:** September 2011

**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** N/A

**Presentation of Data:** Training agenda and sign in sheets

**Review of Data:** Site visits by M&E officer to verify training and ensure proper documentation is collected

**Reporting of Data:** Monthly, quarterly and annually

#### OTHER NOTES

**Measurement Notes on Baselines/Targets:**

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A		16,308	26,500	167,547			167,547
Men					12,985	70,789			70,789
Women					13,515	96,758			95,758

**Location of Data Storage:** LBG SISP Office, Juba.

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29<sup>th</sup> by Sonia Moldovan**



## **4. PMP for Energy Sector**

### **4.1 SISP Energy Sector Projects**

The energy component of the SISP program focuses on providing capacity building for the Ministry of Housing, Land and Public Utilities and providing electricity to Kapoeta and Maridi. Fiscal Year 2008 objectives were to provide electric sector policy support for the State Electric Distribution Companies (SEDCs) and to establish Sub Directorates of Distribution (SDD) and Regulation (SDR) as well as hire and train key staff for these entities. Management support and technical assistance was also provided to the project to operate the 1200kw installed capacity in Yei. Operation and management of the power facility was handed over to local authorities and the electric cooperative at the end of April 2008. However, technical assistance and training for the 1200kw installed capacity will continue throughout the life of the SISP program.

The electrification of Kapoeta will occur in 2010. The design will be oriented to employ a medium voltage (11 Kv) distribution system and to install generators sized to meet demand requirements for the first five years of utility operation. The power plant will provide electricity to businesses, ho street lights. The baseline conducted will assess willingness-to-pay for both businesses and households. The report which will be submitted in July 2009 will provide a thorough analysis of the socio-economic situation in Kapoeta as well as a brief summary of the structured interviews conducted with clinics and hospitals. The electrification for Maridi will tentatively occur in 2011. The baseline for Maridi will be conducted 6-9 months prior to project implementation.

### **4.2 Overview of PMP method**

As noted in the introduction, the PMP includes two basic types of performance indicators:

- Standard Element Indicators
- Outcome Performance Indicators

Standard element indicators provide a means to measure how a project is attaining its immediate objectives for implementing the contract. Some examples include: how many public sector employees are trained, whether a drafted legislation is passed and how many sub-directorates are created. These indicators will be included in the monthly/quarterly reports as appropriate, for each individual task order. In contrast, Outcome Performance indicators provide measurements on how a project affects targeted populations. An outcome performance indicator would measure how many additional services are being performed as a result of access to electricity and whether costs for this service are decreasing. Unlike standard element indicators, data to support Outcome Performance indicators is typically collected through surveys, informant interviews and from applicable ministries.

**Structured Interviews:** **Annex I** includes the energy sector questionnaire that will be used to assess the effectiveness of the training conducted over the next year with the MPHLU and Yei employees, the employees in Yei as well as the sustainability of the cooperative.

Follow-up surveys at the MPHLU will be conducted post project implementation. The structured interviews in Yei will be conducted before the hand-over to local authorities and then on a yearly basis. **Exhibit 6** presents estimates of the number of individuals who will be trained at MPHLU and in Yei at YECO:

**Exhibit 6: Estimated Number of Trainees**

<b>Courses</b>	<b>YECO(SSREP)</b>	<b>Juba/States(SSISP)</b>	<b>Total</b>
<b>Policy and regulation</b>			
Women	2	5	7
Men	10	16	26
<b>Totals</b>	<b>12</b>	<b>21</b>	<b>33</b>
<b>Utility operation courses</b>			
Women	2	3	5
Men	39	37	76
<b>Totals</b>	<b>41</b>	<b>40</b>	<b>81</b>
<b>Grand Totals</b>	<b>53</b>	<b>61</b>	<b>114</b>

The purpose of the structured interviews will be to assess the effectiveness of the training in catalyzing policy development and implementation as well as the creation of regulatory bodies. Specific indicators that will be used to assess the initial energy sector capacity building project in Yei are:

#### **Standard Element Indicators**

- Number of individuals who have received training in policy and regulatory courses
- Number of individuals who have received technical training
- Number of individuals connected to the grid
- Number of jobs created
- Number of new businesses created or expanded

#### **Outcome Performance Indicators**

- Number of policies and regulations implemented in the energy sector specifically:
- Amount spend on electricity by businesses and households
- Number of security related incidences/robberies for businesses in the last month
- Monthly revenue for businesses

Furthermore the M&E team will conduct follow up qualitative surveys (structured interviews) to assess the overall impacts of the 1200KW of power in Yei. In 2006, NRECA International (NRECA) conducted a willingness to pay (WTP) study, which indicated that households and businesses are able and willing to pay relatively high energy costs for lighting and entertainment services. The survey also obtained some basic data such as income level, expenditures, and sources of electricity for businesses, public buildings and households. The study results concluded that survey participants already paid relatively high prices for traditional energy services. Most participants paid more for these energy sources than they would for electricity, even with an unsubsidized tariff of \$0.45/kWh<sup>13</sup>.

Recent information indicates that consumers are now paying up to \$0.97/kWh. The follow-up structured interviews will be conducted in order to gain a better understanding, through a qualitative analysis, of the overall project impacts on the city of Yei. The income and expenditure data from the WTP survey will be used as a comparison to evaluate any benefits from increased access to electricity. The M&E team recognizes that the infrastructure component of the Yei project is not part of SISP. However, because structured interviews will be conducted to assess the effectiveness of the training and the new management structure, the team recommends that a brief questionnaire evaluating the general impacts of the 1200kw be also incorporated into the follow-up surveys.

The analysis will require interviews with consumers who have access to electricity. Interviews with commercial establishments will also be conducted, including shops, pharmacies, hotels, bars, public buildings and light industrial buildings. The interviews will be conducted by one local staff and supervised by one expatriate economist. For the commercial and industrial interviews, the local survey manager will first meet with and interview neighborhood officials. They will then ask if there are any other councils or associations within the neighborhood that would have any information about commercial buildings dependent on electricity. If so, then the local survey managers will also conduct interviews with the respective owners.

If future electrification projects are initiated under SISP, baseline studies which would include a willingness to pay study will be conducted followed by baseline and follow-up surveys to assess impacts of the additional energy sources. Therefore, the energy sector PMP includes a discussion of methods and indicators that would be used for assessing energy infrastructure projects that will be funded under the SISP.

### **4.3 PMP Methods for SISP Electrification Projects**

As discussed above, the initial M&E method for the energy component of the SISP will be baseline surveys and structured interviews conducted prior and post project implementation.

The questionnaire to establish a baseline would address the following:

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<sup>13</sup>This was the amount initially estimated by the WTP study.

### **Business and Household Surveys:**

Surveys would be conducted for households and businesses that would receive electric power services under the SISP projects. Establishments classified as light industrial are mills that grind various types of grain into flour for residential consumption. Commercial establishments include retail businesses, schools and hospitals.

The structured interviews would be conducted by local enumerators managed by one or two expatriate economists depending on the size of the town.

For the household surveys, the following sampling procedure would be employed<sup>14</sup>:

- a) The team would estimate the approximate number of households in each town area
- b) The estimated total number of households in each area would be divided by 5 or 10 or 20 (depending on how many households are estimated to be in the sampling block) to obtain the sampling interval;
- c) A random start number would be selected between one and the sampling interval;
- d) From the center of the sampling block, a pen would be spun to determine the sampling direction
- e) Household counting would begin from the nearest house up to the desired start number, which would be the first house to be interviewed;
- f) This start house would be marked and counting would continue until all the households are marked and interviewed.

For the commercial and light industrial interviews, local survey managers would first meet with and interview neighborhood officials. They would then ask if there are any other councils or associations within the neighborhood that would have any information about commercial buildings dependant on electricity. If so, then the local survey managers will also conduct interviews with the respective owners. Business surveys will be conducted with randomly selected businesses. The Baseline Reports will explain in detail the method employed in Kapoeta.

Survey numbers would vary with town size. For small villages it is recommended that approximately 20 surveys be conducted and for larger towns and cities 100-200. The survey questions for the households, health clinics and educational facilities are presented in Annex III.

#### **4.4 Rough Order of Magnitude Cost for Performance Monitoring**

Monitoring the SISP energy projects could entail conducting a baseline survey, follow-on surveys and structured interviews for the capacity building component. Baseline surveys could

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<sup>14</sup> This survey procedure is modified from the "South Sudan Annual Needs and Livelihood Assessment." World Food Program, Food and Agriculture Organization, and The South Sudan Ministry of Forestry and Agriculture. (2007).

take approximately one-two months to implement depending on village size and one month to analyze the data. Follow-up surveys would require the same level of effort. These surveys would be conducted in defined Zones of Influence, which for energy products encompass the planned service areas.

The largest cost component of the PMP program will be the cost for one senior-level expatriate economist and two mid-level expatriate economists with surveying experience to oversee the design and implementation of the PMP including analysis and reporting of results. The remaining expenditures would be for the SISP survey managers, translators, and enumerators.

The estimated program cost for monitoring and evaluating the current project is estimated at about \$125,234 for the lifetime of SISP. Baseline and Follow-up surveys would need to be implemented for each infrastructure project such as Maridi and Kapoeta. Lifetime M&E costs for these additional projects could approach \$175,000 depending on the size of the project and the year in which it would be implemented. This estimate is based on the order of magnitude cost estimate for the water sector project surveys which would require a similar level of effort to monitor. Also it should be noted that a project completed in Year 3 would have only 2 years of monitoring assuming the SISP program ends as schedule.

#### **4.5 Results Framework**

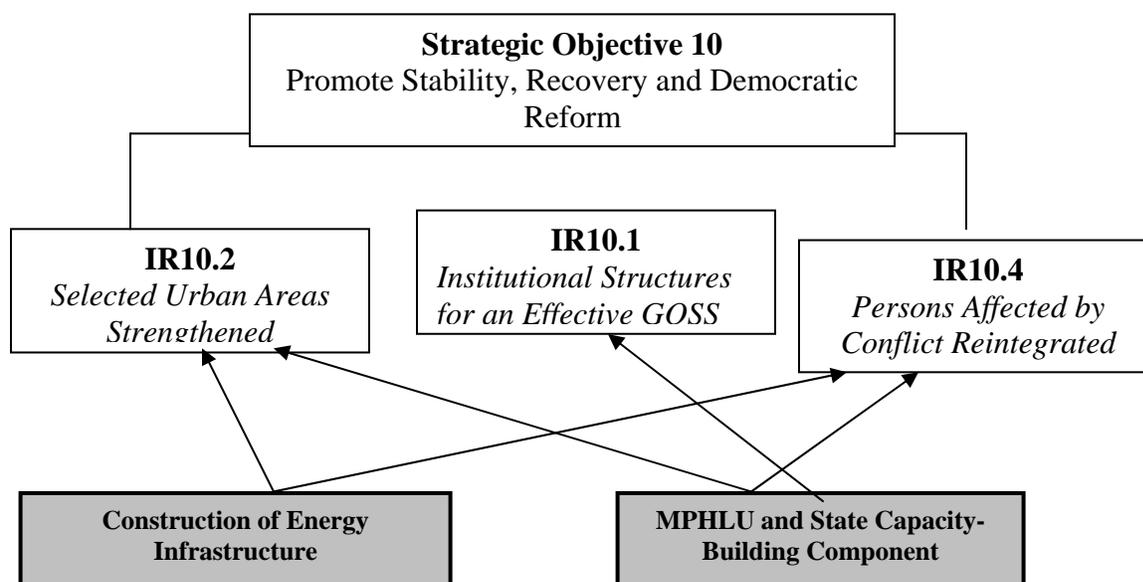
**Exhibit 7** depicts how the SISP energy projects are mapped to USAID's Strategic Objectives 10 and the Intermediate Results associated with that Strategic Objective. Energy sector infrastructure and capacity building is not explicitly referenced in any of the Intermediate Results associated with SO10. However, successful implementation of SISP energy projects will contribute to the attainment of three Intermediate Results that support SO10. For SO10, the performance indicators for energy projects map to:

IR 10.1: Core Institutional Structures for an Effective, Transparent,  
and Accountable GOSS

IR 10.2: Selected Urban Areas Strengthened

IR 10.4: Affected by Conflict Reintegrated

In particular, providing access to electricity should have an immediate impact on the health, social and economic well being of the residents of Yei and other potential towns. Access to energy can impact household welfare through education as well as the health status of household members. According to the World Bank literacy has shown to be much higher in households with electricity than in those without, and children in households that use modern cooking fuels are less likely to suffer acute respiratory disease than children in households that use biomass. Other impacts of services on welfare include time saving, productivity and income. Access to electricity will also enable hospitals and clinics to operate better and businesses to function more efficiently.



**Exhibit 7: Graphical Representation of Results Framework Strategic Objective 10, RI 10.1 and IR 10.2.**

Access to electricity will facilitate the integration of women and youth into South Sudanese Society. Improved access to electricity may help women and children reduce the time they spend gathering and transporting fuel sources. It will also enable children to study in the evenings and all individuals to receive better health care.

#### **4.5.1 Linkage between Outcome Performance Indicators for the Energy Projects and Intermediate Results**

Providing training as well as energy infrastructure will not only increase the capacity of the South Sudanese but also integrate those affected by conflict and eventually strengthen the urban centers in South Sudan. Access to energy is a crucial component which adds to the efficiency of the public sector. The training programs under the SISP work with local Sudanese to help them manage and operate existing and future energy projects. Access to electricity will impact the amount of time spent gathering fuel sources, accessing health care as well as education.

The following categories of Outcome Performance indicators would be used to assess the impacts of energy infrastructure projects that would be implemented under the SISP.

##### ***Outcome Performance Indicators***

##### ***Household Socio-Economic Indicators***

It is evident that income and expenditure changes are affected by different factors. However, access to electricity can significantly increase the productivity of the population. The indicators below will provide a snapshot of the existing conditions prior to access to electricity and compare them to results obtained once the infrastructure has been created.

The indicators are as follows:

- Average Total Monthly Household Income
- Average Total Monthly Household Expenditures for Electricity;

### ***Household/Business Accessibility Indicators***

These indicators will be used to measure the time spend by individuals obtaining energy sources. Women and children are typically responsible for collection of fuel sources. It is important to have a clear picture of what impact this has on their lives. The following indicators will be looked at:

- Average Time Spend Per Day to Collect Fuel;
- Business Expenditures for Electricity
- Percentage of Households and Businesses with Access to a Generator
- Average Monthly Business Revenue
- Average Number of Robberies per Business over the last 12 Months

### ***Standard Element Indicators***

As discussed earlier, the PMP will also include Standard Element indicators to measure the programs direct success such as:

- Number of policies laws agreements or regulations related to modern energy services implemented as a result of USG assistance
- Capacity constructed/rehabilitated as result of USG assistance
- Number of people receiving USG supported training in policy and regulatory practices
- Number of people receiving USG -supported training in technical energy fields
- Number of Jobs Created
- Number of People with Increased Access to Modern Energy Services
- Number of Businesses Created or Expanded

## **4.6 Performance Indicator Worksheets<sup>15</sup>**

This section presents the Outcome Performance and Standard Element Indicator Worksheets that correspond to the Outcome Performance and Standard Element Indicators described above. The Worksheets have been prepared at a level of detail such that they will be applicable to the energy sector projects and all other energy sector projects that will be evaluated under the SISP PMP.

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<sup>15</sup> Performance Indicator Worksheets are only included for the current tasks under the SSISP/NRECA program

The cost for obtaining data, in this case, the rough cost of implementing the surveys is presented in section 4.4.

Each Performance Indicator Worksheet clearly defines the Indicator and provides for how the data will be collected, by whom, and at what frequency. The worksheets also describe responsibilities for collecting, compiling, analyzing, storing, and reporting of data to USAID. In short, the Performance Worksheets define the Indicators and establish the procedures for generating those Indicators on a periodic basis for delivery to USAID.

<b>Objective: EG Impact Indicator</b> <b>Area:</b> Infrastructure <b>Element: Modern Energy Services</b> <b>Indicator:</b> Number of policies laws agreements or regulations related to modern energy services implemented as a result of USG assistance
DESCRIPTION
<b>Is the Indicator Standard or Custom? Standard</b> <b>Precise Definition(s):</b> Number of policies laws agreements or regulations related to modern energy services implemented as a result of USG assistance  <b>Unit of Measure:</b> Policy <b>Disaggregated by:</b> N/A <b>Type:</b> Output   <b>Direction of Change:</b> Higher=better <b>Rationale/Management Utility:</b> Measures the progress of ISP in catalyzing reform in GoSS
PLAN FOR DATA ACQUISITION BY USAID
<b>Data Collection Method:</b> Weekly and Monthly Reports and Policy Drafts <b>Method of Acquisition by USAID:</b> Reports <b>Data Source(s):</b> Policy Drafts <b>Frequency/Timing of Data Acquisition:</b> Monthly and Quarterly Reports <b>Estimated Cost of Data Acquisition:</b> low <b>Responsible Individual(s) at USAID:</b> Boutros Magaya
DATA QUALITY ISSUES
<b>Date of Initial Data Quality Assessment:</b> November 2008 <b>Known Data Limitations and Significance (if any):</b> N/A <b>Actions Taken or Planned to Address Data Limitations:</b> N/A <b>Date of Future Data Quality Assessments:</b> September 2011 <b>Procedures for Future Data Quality Assessments:</b> Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.
PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING
<b>Data Analysis:</b> N/a <b>Presentation of Data:</b> Progress will be described in monthly and quarterly reports. <b>Review of Data:</b> N/A <b>Reporting of Data:</b> Monthly and Quarterly Reports
OTHER NOTES

**Measurement Notes on Baselines/Targets:**

How was the target determined? Baseline Report

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Policy	N/A	N/A	1	0	1		N/A		

**Location of Data Storage:** LBG SISF Juba Office**Other Notes:****THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan****Objective: EG Impact Indicator****Area:** Infrastructure**Element: Modern Energy Services****Indicator:** Number of people with increased access to modern energy services (in millions)**DESCRIPTION****Is the Indicator Standard or Custom?** Standard**Precise Definition(s):**

Number of people with increased access to modern energy services. The number of beneficiaries was estimated by multiplying total number of customers by weighted beneficiaries per connection (Customer) of 44.4 which was estimated by the project manager for YECO project YEI at the start of electric service.

**Unit of Measure:** Millions of people**Disaggregated by:** N/A**Type:** Outcome**Direction of Change:** Higher=better**Rationale/Management Utility:** This indicator will measure how many people additional KW will impact**PLAN FOR DATA ACQUISITION BY USAID****Data Collection Method:** Customer Records (Billing Records)**Method of Acquisition by USAID:** Monthly and Quarterly Reports**Data Source(s):** Connection Records**Frequency/Timing of Data Acquisition:** Monthly**Estimated Cost of Data Acquisition:** low**Responsible Individual(s) at USAID:** Boutros Magaya**DATA QUALITY ISSUES****Date of Initial Data Quality Assessment:** November 2008**Known Data Limitations and Significance (if any):** The definition for beneficiaries is vague. We are waiting on clarification from USAID to have a more concise definition.**Actions Taken or Planned to Address Data Limitations:** N/A**Date of Future Data Quality Assessments:** September 2011**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.**PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING****Data Analysis:** N/A

**Presentation of Data:** Data will be presented in tables and narratives quarterly and annual reports

**Review of Data:** Routine monitoring and training by LBG M&E team

**Reporting of Data:** Quarterly and Annual Reports

#### OTHER NOTES

#### Measurement Notes on Baselines/Targets:

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
People with access to electricity	N/A	N/A	0.042*	0.016183	0.003		0.0065		

\* In millions

**Location of Data Storage:** LBG SISF Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

<b>Objective: EG Impact Indicator</b> <b>Area: Infrastructure</b> <b>Element: Modern Energy Services</b> <b>Indicator: Capacity constructed/rehabilitated as result of USG assistance</b>									
<b>DESCRIPTION</b>									
<b>Is the Indicator Standard or Custom? Standard</b> <b>Precise Definition(s):</b> Capacity constructed/rehabilitated as result of USG assistance  <b>Unit of Measure: KW</b> <b>Disaggregated by: N/A</b> <b>Type: Output</b>   <b>Direction of Change: Higher=better</b> <b>Rationale/Management Utility: The indicator measure progress in the construction of energy facilities</b>									
<b>PLAN FOR DATA ACQUISITION BY USAID</b>									
<b>Data Collection Method: Field Reports submitted by site managers and site visits by M&amp;E officer</b> <b>Method of Acquisition by USAID: Monthly and Quarterly Reports</b> <b>Data Source(s): Field reports</b> <b>Frequency/Timing of Data Acquisition: Monthly and Quarterly</b> <b>Estimated Cost of Data Acquisition: Low</b> <b>Responsible Individual(s) at USAID: Boutros Magaya</b>									
<b>DATA QUALITY ISSUES</b>									
<b>Date of Initial Data Quality Assessment: November 2008</b> <b>Known Data Limitations and Significance (if any): N/A</b> <b>Actions Taken or Planned to Address Data Limitations: N/A</b> <b>Date of Future Data Quality Assessments: September 2001</b> <b>Procedures for Future Data Quality Assessments: Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.</b>									
<b>PLAN FOR DATA ANALYSIS, REVIEW, &amp; REPORTING</b>									
<b>Data Analysis: N/A</b> <b>Presentation of Data: N/A</b> <b>Review of Data: Routine monitoring and training by LBG M&amp;E team</b> <b>Reporting of Data: Monthly and Quarterly Reports</b>									
<b>OTHER NOTES</b>									
<b>Measurement Notes on Baselines/Targets:</b> How was the target determined? Work Plan									
Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Capacity	N/A	N/A	0.8	0.8	0		0.4		
<b>Location of Data Storage: LBG SISP Juba Office</b> <b>Other Notes:</b>									
<b>THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan</b>									

<p><b>Objective: EG Impact Indicator</b>  <b>Area:</b> Infrastructure  <b>Element: Modern Energy Services</b>  <b>Indicator:</b> Number of people receiving USG supported training in policy and regulatory practices and in technical energy fields</p>
<b>DESCRIPTION</b>
<p><b>Is the Indicator Standard or Custom? Standard</b>  <b>Precise Definition(s):</b>  Number of people receiving training in policy, regulatory practices and technical energy fields</p> <p><b>Unit of Measure:</b> Number of People  <b>Disaggregated by:</b> N/A  <b>Type:</b> Outcome   <b>Direction of Change:</b> Higher=better  <b>Rationale/Management Utility:</b> Training will increase GOSS's capacity in the energy sector</p>
<b>PLAN FOR DATA ACQUISITION BY USAID</b>
<p><b>Data Collection Method:</b> Training reports and sign in sheets  <b>Method of Acquisition by USAID:</b> Monthly and quarterly reports  <b>Data Source(s):</b> Sign in Sheets, Training Curriculum, Seminar updates  <b>Frequency/Timing of Data Acquisition:</b> Monthly  <b>Estimated Cost of Data Acquisition:</b> Low  <b>Responsible Individual(s) at USAID:</b> Boutros Magaya</p>
<b>DATA QUALITY ISSUES</b>
<p><b>Date of Initial Data Quality Assessment:</b> November 2008  <b>Known Data Limitations and Significance (if any):</b> N/A  <b>Actions Taken or Planned to Address Data Limitations:</b> N/A  <b>Date of Future Data Quality Assessments:</b> September 2011  <b>Procedures for Future Data Quality Assessments:</b> Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.</p>
<b>PLAN FOR DATA ANALYSIS, REVIEW, &amp; REPORTING</b>
<p><b>Data Analysis:</b> N/A  <b>Presentation of Data:</b> Narratives and tables in monthly and quarterly reports submitted to USAID.  <b>Review of Data:</b> M&amp;E officer will attend some training sessions and verify sign in sheets  <b>Reporting of Data:</b> Monthly and Annual Reports</p>
<b>OTHER NOTES</b>

**Measurement Notes on Baselines/Targets:**

How was the target determined? Baseline Survey

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Training in policy and regulatory fields for men	N/A	N/A	10	0	27		18		
Training in policy and regulatory fields for women	N/A	N/A	2	0	3		2		
Training in technical fields for men	N/A	N/A	39	127	90		92		
Training in technical fields for women	N/A	N/A	2	4	5		3		

**Location of Data Storage:** LBG SISP Juba Office**Other Notes:****THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan****Objective: EG Impact Indicator****Area:** Infrastructure**Element: Modern Energy Services****Indicator:** Number of Jobs Created**DESCRIPTION****Is the Indicator Standard or Custom? Standard****Precise Definition(s):**

Number of jobs created as a result of energy projects. This included individuals hired by LBG and by subcontractors.

**Unit of Measure:** Number of people.**Disaggregated by:** Gender**Type:** Outcome**Direction of Change:** Higher=better**Rationale/Management Utility:** The indicator will measure how many jobs are created as a result of the energy project.**PLAN FOR DATA ACQUISITION BY USAID****Data Collection Method:** Data Provided by field managers (hiring tracker and time sheets)**Method of Acquisition by USAID:** LBG will provide data to USAID for the duration of ISP Project**Data Source(s):** Hiring tracker for the laborers employed.**Frequency/Timing of Data Acquisition:** Monthly and annually**Estimated Cost of Data Acquisition:** low**Responsible Individual(s) at USAID:** Boutros Magaya**DATA QUALITY ISSUES****Date of Initial Data Quality Assessment:** November 2008**Known Data Limitations and Significance (if any):** Data quality depends on the ability to fill in the hiring tracker monthly in a consistent manner.

**Actions Taken or Planned to Address Data Limitations:** N/A

**Date of Future Data Quality Assessments:** N/A

**Procedures for Future Data Quality Assessments:** N/A

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** N/A

**Presentation of Data:** Data will be presented in Tables and narratives in annual and baseline reports

**Review of Data:** Routine monitoring and training by LBG M&E team

**Reporting of Data:** Monthly and Annual Reports

#### OTHER NOTES

**Measurement Notes on Baselines/Targets:**

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Jobs Create Male	N/A	N/A	500	48	10		20		
Jobs Created Female				6	3		7		

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

**Objective:** EG Impact Indicator

**Area:** Infrastructure

**Element:** Modern Energy Services

**Indicator:** Number of New Business Created or Expanded

#### DESCRIPTION

**Is the Indicator Standard or Custom?** Standard

**Precise Definition(s):**

A business is defined as an income generating activity that meets at least one of the following criteria:

1. Marketing and selling of goods or services from a public location, including a shared or private storefront/building or market stall.
2. Sale (or intention of sale) of a majority of agricultural production.

However, for the Energy Program the indicator will refer to businesses now connected to grid and businesses providing services which require electricity.

**Unit of Measure:** Number of businesses

**Disaggregated by:** N/A

**Type:** Outcome

**Direction of Change:** Higher=better

**Rationale/Management Utility:** The indicator will measure an increase in businesses which will have a positive impact on economic growth in the area.

#### PLAN FOR DATA ACQUISITION BY USAID

**Data Collection Method:** Baseline and Follow-up Surveys, Customer Records

**Method of Acquisition by USAID:** Monthly Reports

**Data Source(s):** Surveys and Records

**Frequency/Timing of Data Acquisition:** Monthly and prior and post project implementation

**Estimated Cost of Data Acquisition:** medium

**Responsible Individual(s) at USAID:** Boutros Magaya

#### DATA QUALITY ISSUES

**Date of Initial Data Quality Assessment:** November 2008

**Known Data Limitations and Significance (if any):** Data quality depends on the ability to properly differentiate between newly created business and expanded business.

**Actions Taken or Planned to Address Data Limitations:** N/A

**Date of Future Data Quality Assessments:** September 2011

**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** The raw data will be collected by subcontractors and the M&E team and analyzed using STATA and excel.

**Presentation of Data:** Data will be presented in tables and narratives in annually reports

**Review of Data:** Routine monitoring and training by LBG M&E team

**Reporting of Data:** Annual

#### OTHER NOTES

##### Measurement Notes on Baselines/Targets:

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A	0	460	0		50		TBD

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

## 5. PMP for Capacity Building (TO 8)

The PMP for TO 8 will put forth numerous standard performance indicators and outcome performance indicators required to assess the effectiveness of all project activities implemented. However because the main components of TO8 are capacity building and institutional strengthening the majority of indicators require a baseline study. In 2009 TO 8 staff conducted an assessment baseline to measure the capacity of MTR. The assessment<sup>16</sup> was submitted to USAID in January 2009 and will be used to measure the impact of training workshops and policies on MTR and state ministries.

The next section lists the activities, corresponding indicators and reporting frequency. The Annexes consist of the Standard Element Indicator Reference sheets, data gathering forms and the baseline assessment.

### 5.1 Activities

#### Activity 1: Assistance to MTR and Establishment RA

Indicators	Data Source	Reporting Frequency
Workshops for National Transport Planning	Sign in sheets and training curriculum	Monthly
Road Agency Established and Legislation Published	Progress reports	Monthly
Road agency operational: key staffed identified and trained	Scope of work, training curriculum, university admission and completion documents, and progress reports	Monthly
Assesst Management System Established	Progress reports and supporting training materials for manager of database	Monthly
MTR website established	Progress reports	Monthly

#### Activity 2: Capacity Building for State Ministries of Physical Infrastructure

Indicators	Data Source	Reporting Frequency
State Ministries Developed Work Plans and Budgets for Policy Implementation	Progress reports and copies of work plan and budget documtents	Monthly

<sup>16</sup> The assessment will be completed by August 2009.

Indicators	Data Source	Reporting Frequency
Two Workshops on Skills Training	Sign in sheets and training curriculum	Monthly
VSAT communications services in 10 states	Progress reports	Monthly

### Activity 3: Capacity Building for Local Contracting Industry

Indicators	Data Source	Reporting Frequency
3 New Contractor's Training Contracts Awarded	Copies of Contracts	Annually
8 Contractor's Advanced Training Contracts Awarded	Copies of Contracts	Annually
Jobs Created	Hiring Tracker	Monthly
Number of new business created	Tally sheets of count along the road	Prior and Post Road Work
Training in technical field for 6 local contractors, 6 supervisors and 2 people from each state	Sign in sheets and training Curriculum	Monthly
50 Kms of Feeder Roads Improved and 68 Kms of Feeder Roads Maintained	Field reports, site visits and weekly reports	Monthly

### Activity 4: Road Safety

Indicators	Data Source	Reporting Frequency
Road Safety skills Training	Sign in sheets and training Curriculum	Monthly
Public Road Safety awareness program	Progress reports, brochures, radio announcements, traffic signs	Monthly

## 5.2 Reporting

TO 8 will submit monthly, quarterly and annual reports to USAID. The quarterly and annual reports will adhere to the New Reporting Template issued by USAID on December 31, 2008. The reports will highlight quantitative and qualitative impact, changes in the work plan and lessons learned. Budget details and project administration will also be discussed. The indicators to the extent possible will be segregated by state and gender.

In addition to the standard reports TO 8 staff and the M&E officer will conduct field visits and attend training seminars to provide first-hand accounts of the work implemented by subcontractors. The M&E officer will regularly visit construction sites to monitor the maintenance and rehabilitation work conducted by local contractors. Weekly reports will be submitted to the TO manager and incorporated into the quarterly and annual reports.

### 5.3 Data Quality

The LBG M&E team with assistance from MSI has implemented standards for data collection and maintenance. The team consists of one M&E Officer in Juba who is assisted by two economists in Washington DC, who oversee all data collection and are responsible for monitoring and analysis. Data collection and reporting is directly managed by each TO manager with support and oversight from the M&E team.

Daily site supervisor reports are written by qualified LBG engineers and summarize construction progress by sub-contractors. Hiring tracking forms are filled out by the sub-contractor listing the staff employed by each contractor on the project during the month. These forms are submitted to project managers and compiled into monthly reports by LBG staff. Attendance logs are completed at workshops by attendees and then submitted to the TO manager. The traffic count will be conducted by trained engineers and monitored by the M&E officer. The business count will be conducted by the M&E officer.

The source data are stored in hard copies at the Ministry of Transport office and electronic copies in the Expedition Program. The M&E officer reviews the source documents and ensures that the data reported is valid. A copy of the field report which is filled out by the M&E officer is attached in Annex II.

### 5.4 Reference Sheets

<p><b>Objective:</b> EG Impact Indicator  <b>Area:</b> Capacity Building  <b>Element:</b> Transport Services  <b>Indicator:</b> Training (This indicator is applicable to all types of training: technical, policy and management)</p>
<b>DESCRIPTION</b>
<p><b>Is the Indicator Standard or Custom?</b> Standard  <b>Precise Definition(s):</b> Number of people receiving training in transportation related policy and regulatory practices.  <b>Unit of Measure:</b> Number of people  <b>Disaggregated by:</b> Male/Female  <b>Type:</b> Outcome   <b>Direction of Change:</b> Higher=better  <b>Rationale/Management Utility:</b> The benefit of training in transportation related policy and regulatory practices will lead to better functioning Ministry of Transport and improved infrastructure services throughout Sudan.</p>
<b>PLAN FOR DATA ACQUISITION BY USAID</b>
<p><b>Data Collection Method:</b> LBG (prime contractor) and Subcontractors.</p>

**Method of Acquisition by USAID:** LBG will provide estimates to USAID  
**Data Source(s):** Training logs, training curriculum and feedback from participants.  
**Frequency/Timing of Data Acquisition:** Scheduled monthly and quarterly reports  
**Estimated Cost of Data Acquisition:** Low  
**Responsible Individual(s) at USAID:** Boutros Magaya

#### DATA QUALITY ISSUES

**Date of Initial Data Quality Assessment:** N/A  
**Known Data Limitations and Significance (if any):** Data quality depends on the ability to fill in the training logs.  
**Actions Taken or Planned to Address Data Limitations:** N/A  
**Date of Future Data Quality Assessments:** September 2011  
**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** TO managers and M&E officer will verify training logs as well as attend some of the training seminars.  
**Presentation of Data:** Data will be presented using standard USAID reporting format  
**Review of Data:** Routine monitoring and training by LBG M&E team  
**Reporting of Data:** Annual and Baseline Reports

#### OTHER NOTES

**Measurement Notes on Baselines/Targets:** Baseline target was determine by USAID  
 How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A	N/A	N/A	200		200		

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**

**Objective: EG Impact Indicator**

**Area:** Capacity Building

**Element:** Transport Services

**Indicator:** Number of Private Local Contractors strengthened as a result of USG assistance (Capacity increased each year)

#### DESCRIPTION

**Is the Indicator Standard or Custom? Standard**

**Precise Definition(s):** Increased capability of local contractors to carry out routine maintenance works, using competitive procurement procedures, not welfare programs.

**Unit of Measure:** Number of contractors

**Disaggregated by:** N/A

**Type:** Outcome

**Direction of Change:** Higher=better

**Rationale/Management Utility:** Trained local contractors will contribute to infrastructure development in South Sudan.

#### PLAN FOR DATA ACQUISITION BY USAID

**Data Collection Method:** Number of contracts issued and field reports assessing contractors work performance

**Method of Acquisition by USAID:** LBG will provide estimates to USAID

**Data Source(s):** LBG (prime contractor) and Subcontractors.

**Frequency/Timing of Data Acquisition:** Scheduled monthly and quarterly reports

**Estimated Cost of Data Acquisition:** Low

**Responsible Individual(s) at USAID:** Boutros Magaya

#### DATA QUALITY ISSUES

**Date of Initial Data Quality Assessment:** N/A

**Known Data Limitations and Significance (if any):** N/A

**Actions Taken or Planned to Address Data Limitations:** N/A

**Date of Future Data Quality Assessments:** September 2011

**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** TO managers and M&E officer will verify training logs as well as attend some of the training seminars.

**Presentation of Data:** Data will be presented using standard USAID reporting format

**Review of Data:** Routine monitoring and training by LBG M&E team

**Reporting of Data:** Annual and Baseline Reports

#### OTHER NOTES

**Measurement Notes on Baselines/Targets:** Baseline target was determine by USAID

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A	N/A	N/A	12		20		

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON:** June 29, 2009 by Sonia Moldovan

**Objective: EG Impact Indicator**

**Area:** Capacity Building

**Element:** Transport Services

**Indicator:** KM transportation infrastructure constructed or repaired

#### DESCRIPTION

**Is the Indicator Standard or Custom?** Standard

**Precise Definition(s):**

This activity will be combined with the training of Sudanese contractors to provide road maintenance in the different states.

**Unit of Measure:** KM Repaired

**Disaggregated by:** N/A

**Type:** Output

**Direction of Change:** Higher=better

**Rationale/Management Utility:** Trained local contractors will contribute to infrastructure development in South Sudan and improved roads will lower transportation costs and increase traffic flow

**PLAN FOR DATA ACQUISITION BY USAID****Data Collection Method:** Field reports submitted by site engineers and site visits by M&E officer**Method of Acquisition by USAID:** Monthly and Quarterly Reports**Data Source(s):** LBG and subcontractor field reports**Frequency/Timing of Data Acquisition:** Scheduled monthly and quarterly reports**Estimated Cost of Data Acquisition:** Low**Responsible Individual(s) at USAID:** Boutros Magaya**DATA QUALITY ISSUES****Date of Initial Data Quality Assessment:** N/A**Known Data Limitations and Significance (if any):** N/A**Actions Taken or Planned to Address Data Limitations:** N/A**Date of Future Data Quality Assessments:** September 2011**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.**PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING****Data Analysis:** TO managers and M&E officer will verify daily site inspection reports on the number of Kilometers repaired or maintained.**Presentation of Data:** Data will be presented using standard USAID reporting format**Review of Data:** Routine monitoring and training by LBG M&E team**Reporting of Data:** Information compiled from annual and**OTHER NOTES****Measurement Notes on Baselines/Targets:** Baseline target was determine by USAID

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A	N/A	N/A	200		450		

**Location of Data Storage:** LBG SISP Juba Office**Other Notes:****THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan****Objective: EG Impact Indicator****Area:** Capacity Building**Element:** Transport Services**Indicator:** Number of new and expanded business**DESCRIPTION**

**Is the Indicator Standard or Custom? Standard****Precise Definition(s):**

A business is defined as an income generating activity that meets at least one of the following criteria:

1. Marketing and selling of goods or services from a public location, including a shared or private storefront/building or market stall.
2. Sale (or intention of sale) of a majority of agricultural production.

Under this definition, a new business can include a mobile or stationary business, microenterprise, service provision, seasonal businesses or agricultural activity provided they meet one of these criteria. This definition does NOT include onetime service provision or agricultural production for household consumption as these do not constitute 'regular' income generation. Expanded means that revenues have increased, a new product has been offered, the business has expanded sales into new geographical areas, and/or employment numbers have increased.

**Unit of Measure:** Number of Business

**Disaggregated by:** N/A

**Type:** Outcome

**Direction of Change:** Higher=better

**Rationale/Management Utility:** Development of new businesses and livelihood opportunities is a critical component of economic growth and measurement of new or expanded businesses created by USG assistance provides a valid estimate of the impact of this assistance on economic growth in the area

#### PLAN FOR DATA ACQUISITION BY USAID

**Data Collection Method:** Annual business count on rehabilitated roads

**Method of Acquisition by USAID:** Annual Report

**Data Source(s):** Tally sheets compiled by M&E officer.

**Frequency/Timing of Data Acquisition:** Prior and post project/road rehabilitation

**Estimated Cost of Data Acquisition:** Low

**Responsible Individual(s) at USAID:** Boutros Magaya

#### DATA QUALITY ISSUES

**Date of Initial Data Quality Assessment:** N/A

**Known Data Limitations and Significance (if any):** Data quality depends on the to conduct the business count during the same season every year and on every road that is rehabilitated.

**Actions Taken or Planned to Address Data Limitations:** N/A

**Date of Future Data Quality Assessments:** September, 2011

**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.

#### PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING

**Data Analysis:** TO managers and M&E officer compile the information from the tally sheets as well as conduct the business count on some of the rehabilitated roads.

**Presentation of Data:** Data will be presented using standard USAID reporting format

**Review of Data:** Routine monitoring and training by LBG M&E team

**Reporting of Data:** Annual and Baseline Reports

#### OTHER NOTES

**Measurement Notes on Baselines/Targets:**

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A	N/A	N/A	TBD	TBD	2009 Business count		TBD

**Location of Data Storage:** LBG SISP Juba Office**Other Notes:****THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan****Objective: EG Impact Indicator****Area:** Capacity Building**Element:** Transport Services**Indicator:** Traffic Count**DESCRIPTION****Is the Indicator Standard or Custom?** Custom**Precise Definition(s):** Traffic count on rehabilitated/maintained roads.**Unit of Measure:** Motor Vehicles**Disaggregated by:** N/A**Type:** Outcome**Direction of Change:** Higher=better**Rationale/Management Utility:** An increase in traffic along the rehabilitated road is an indicator of economic growth and recovery**PLAN FOR DATA ACQUISITION BY USAID****Data Collection Method:** 7 day traffic count on the roads.**Method of Acquisition by USAID:** LBG will provide estimates to USAID**Data Source(s):** Tally sheets**Frequency/Timing of Data Acquisition:** Annual**Estimated Cost of Data Acquisition:** Low**Responsible Individual(s) at USAID:** Boutros Magaya**DATA QUALITY ISSUES****Date of Initial Data Quality Assessment:** N/A**Known Data Limitations and Significance (if any):** Data quality depends on the ability to fill in the tally sheets during the traffic count.**Actions Taken or Planned to Address Data Limitations:** N/A**Date of Future Data Quality Assessments:** September 2011**Procedures for Future Data Quality Assessments:** Procedures outlined in USAID/Sudan mission order on monitoring and evaluation will be followed.**PLAN FOR DATA ANALYSIS, REVIEW, & REPORTING****Data Analysis:** TO managers and M&E officer will verify tally sheets as well as attend the actual implementation of the traffic count.**Presentation of Data:** Data will be presented using standard USAID reporting format**Review of Data:** Routine monitoring and training by LBG M&E team**Reporting of Data:** Annual and Baseline Reports

**OTHER NOTES**

**Measurement Notes on Baselines/Targets:** Baseline target was determine by USAID

How was the target determined?

Results achieved with USG assistance by 10/01/2006	FY2007 target	FY2007 actual	FY 08 target	FY 08 Actual	FY 09 target	FY 09 actual	FY2010 target	FY2010 actual	EOP target
Total	N/A	N/A	N/A	N/A	TBD		2009 Traffic Count		

**Location of Data Storage:** LBG SISP Juba Office

**Other Notes:**

**THIS SHEET LAST UPDATED ON: June 29, 2009 by Sonia Moldovan**



**ANNEX I**  
**SURVEY INSTRUMENTS**

# SISP Juba-Nimule Road Baseline Survey: Household Module

A.1	Village/ City Identification			
A.2	Payam Identification			
A.3	Block Identification (If in Juba/Nimule}			
A.4	Section Identification (If In Juba/Nimule)			
A.5	KM Along the Road			
A.6	Survey Number			

**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

<b>D. INTERVIEW REPLACEMENT</b>		
		Code
<b>D1</b>	This is a	Yes.....1

	replacement household?	No.....2
--	------------------------	----------

[At this point, please begin the interview by saying: *“Good Afternoon, my name is \_\_\_\_\_. I am from the company that is constructing the Juba-Nimule Road, which is funded by the United States Agency for International Development with cooperation from the GOSS Ministry of Roads and Transport. As part of this project, we are conducting a survey, with the permission of your Payam leaders that asks important questions about your household’s transportation needs. Therefore, I would like to speak to the Head of the Household [the person in the household who is the primary breadwinner and makes most of the financial decisions] or the spouse of the Head of the Household.*

[DETERMINE THE RESPONDENT]

*This survey is being conducted by the company that is going to construct the road. We are working with the GOSS Ministry of Roads and Transport. The purpose of this survey is to collect information in the following areas: 1) household livelihood; 2) household consumption; and 3) household transportation issues. The results will be used to figure how the road will impact households along the road and in Juba.*

*This survey is not connected to the South Sudan Census. Participation in this survey is completely voluntary and all household information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you or your household. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey?* [If asked, the survey will take approximately 1 hour]

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>E. RESPONDENT IDENTIFICATION</b>
<b>E1. Respondent Name</b>
<b>E2. Location [Describe location in relation to section area]:</b>
<b>E3. Language of Interview:</b>

## II. THE HOUSEHOLD ROSTER<sup>1</sup>

[Please say: “Now I will ask you some basic information about the members of your household”.]

PERSONAL ID NUMBER	1. Please list all of the people in your household beginning with the head of the household.  <i>[A household is defined as a group of people who eat together and have been living together for at least 6 of the past 12 months.]</i>	2. Relationship to the head of the household.	3. Sex	4. Age	5. Educational Attainment	6. Marital Status
		Head of Household.....1	M....1	<b>[If less than one year write 0]</b>	Not yet in school.....1	Married.....1
		Spouse of Head of Household.....2	F....2		Illiterate.....2	Never
		Son/Daughter.....3			Literate, without formal school.....3	Married.....2
		Spouse of Son/Daughter.....4			Preschool/Kindergarten.....4	Living Together.....3
		Grandchild.....5			Some Primary .....5	Separated.....4
		Brother/Sister.....6			Primary Grad.....6	Divorced.....5
		Father/Mother.....7			Some Middle.....7	Widowed.....6
		Father/Mother-in-Law....8			Middle Grad.....8	
		Brother/Sister-in-Law....9			Some High School.....9	
		Uncle/Aunt.....10			High School Grad.....10	
		Cousin.....11			Some University.....11	
		Friend.....12			University Grad.....12	
		Servant.....13			Some Post-Grad.....13	

<sup>1</sup> Adapted from “Survey of Living Conditions: Uttar Pradesh and Bihar, India”. The World Bank. <http://www.worldbank.org/LSMS/country/india/slc-hh97.pdf>. (1997-1998).

		Laborer.....14  Other: (Specify.....).... 15			MA/MS.....14  PhD.....15  Professional Degree.....16	
01						
02						
03						
04						
05						
06						
07						
08						

09						
10						

[END HOUSEHOLD ROSTER]

## **DEFINITIONS FOR INTERVIEWERS**

### **Household Roster**

The interviewer must fill out the household roster immediately after he/she identifies the respondent and before any other questions on the survey are asked. Before beginning the household roster, please read the following definition of a household to the respondent: ***“I would now like you to list all the people in your household and their relationship to you. A household is defined as a group of people who live together and eat together for at least 6 of the past 12 months. A person who has lived away from the household for more than 6 months is not considered part of the household even if others in the household consider that person a part of the household. People who live together in the same dwelling but do not eat together are not considered members of the same household. Two exceptions to this rule apply:***

- 1. Persons who are away from the household for more than six months, but are considered the main provider for the household can be counted as part of the household.***
- 2. Servants, lodgers, farm-workers and laborers who live and take meals with the household can be counted as part of the household.”***

It is very important that the interviewer define the household according to these criteria, even though it may not conform to the respondents’ definition of the household.

### **Personal ID Number**

The first column of the roster is labeled “Personal ID Number”. Each line in the grid is assigned a number from 1-10. The “Personal ID Number” is extremely important, as it allows the information gathered in various sections of the questionnaire to be matched together. For example, if a person is assigned the “ID Code” 05 in the roster, then all other sections of the questionnaire where information is collected for individual household members that person should always be entered as “ID Code” 05.

### III. DWELLING CHARACTERISTICS AND RESIDENTIAL STATUS

[Please say: *Now I would like to ask you about your dwelling and your residential status.*]

[Before beginning this section, please read the following definition of dwelling to the respondent: *“A dwelling is a space or a collection of spaces in which your household resides. If you reside in a space with another household (for example, if another family lives in the same house, but does not eat meals with you or share food expenses), please only refer to your household’s specific space when answering the following questions.”*]

<p>7. In which type of dwelling does your household reside? <sup>2</sup></p> <p>House made of mud.....1  House made of concrete..... 2  House made of wood.....3  House made of corrugated metal.....4  Apartment.....5  Stick Tukul.....6  Mud Brick Tukul.....7  Tent.....8  Other (Specify _____).....9</p>	<p>8. How many rooms does your dwelling have?</p> <p>[ENTER NUMBER OF ROOMS]</p>	<p>9. How long has your household resided in this dwelling?</p> <p>[ENTER NUMBER OF WEEKS, MONTHS AND/OR YEARS]</p>			<p>10. What type of tenure does your household have in the dwelling?  <b>[Please Say: “The term ‘tenure’ refers to the legal relationship between your household and your dwelling.”]</b>  <b>[Read List]</b></p> <p>Owned.....1  Rented.....2  Built by household, but no deed or title.....3  Donated.....4  Other (Specify _____).....5  Don’t Know.....-777  <b>[Do Not Read]</b>  Refuse to Answer.....- 999  <b>[Do Not Read]</b></p>	<p>11. What is your household’s residential status? <b>[Read List]</b></p> <p>Continuous resident for 2 years or more.....1  Returned between 1-2 years ago.....2  Returned 1 year ago or less.....3  Internally displaced.....4  Nomad.....5  Other (Specify _____).....6  Don’t Know.....-777  <b>[Do Not Read]</b>  Refuse to Answer.....- 999  <b>[Do Not Read]</b></p>
<p>ENTER CODE:</p>					<p>ENTER CODE:</p>	<p>ENTER CODE:</p>

<sup>2</sup> Housing typologies adapted from 2008 Sudan Census Long Form Questionnaire.

**IV. HOUSEHOLD CHARACTERISTICS**

[Please say: “Now I would like to ask you some questions about the characteristics of your household.”]

<p><b>12.</b> What is the primary language spoken in your household? [Please say: “<i>The term ‘primary language’ means the language that is spoken most of the time by members of the household within the household.</i>”]</p> <p>Arabic.....1          Acholi.....2          Bari.....3          Dinka.....4          Lolubo.....5          Madi.....6          Mundari.....7          Muru.....8          Latuko.....9          Pojulu.....10          English.....11          Other (Specify.....).....12</p>	<p><b>13.</b> Is there a secondary language spoken by your household? [Please say: <i>The term ‘secondary language’ means a language that is spoken occasionally within the household and/or outside of the household to interact with outsiders.</i>]</p> <p>Yes.....1          No..... 2  <b>[Skip to→15]</b></p>	<p><b>14.</b> What is the secondary language in your household? <b>[Read List]</b></p> <p>Arabic.....1          Acholi.....2          Bari.....3          Dinka.....4          Lolubo.....5          Madi.....6          Mundari.....7          Muru.....8          Latuko.....9          Pojulu.....10          English.....11          Other (Specify.....).....12</p>	<p><b>15.</b> Which tribe do most of the members of your household belong to? <b>[Read List]</b></p> <p>Acholi.....1          Bari.....2          Dinka.....3          Dinka Bor.....4          Kuku.....5          Kakwa.....6          Pojulu.....7          Lolubo.....8          Madi.....9          Mundari.....10          Nuer.....11          Shilluk.....12          Other (Specify.....).....13          Refuse to Answer.....- 999  <b>[Do Not Read] [Skip to→18]</b></p>
<p><b>ENTER CODE:</b></p>	<p><b>ENTER CODE:</b></p>	<p><b>ENTER CODE:</b></p>	<p><b>ENTER CODE:</b></p>



**V. CONSUMPTION AND EXPENDITURES**

**[Please Say: *Now I would like to ask you about the consumption for your household.*]**

<b>16.</b> Over the past one week (7 days), did you or others in your household consume any [FOOD ITEM]?  Yes.....1 No.....2		<b>17.</b> How much [FOOD ITEM] did your household <b>consume</b> in total in the past one week?  <b>[Look at separate Unit Code list]</b>		<b>18.</b> How much [FOOD ITEM] did your household <b>purchase</b> in the past one week?  <b>[Look at separate Unit Code list]</b>		<b>19.</b> How much did your household spend on [ITEM]?  <b>[Enter Pounds or Shillings]</b>		<b>20.</b> How much [FOOD ITEM] did your household receive in-kind in the past one week?  <b>[Look at separate Unit Code list]</b>		<b>21.</b> How much [FOOD ITEM] did your household produce on its own for consumption in the past one week?  <b>[Look at separate Unit Code list]</b>	
a. Food Item	b. Code	a. Quantity	b. Unit Code	a. Quantity	b. Unit Code		a. Quantity	b. Unit Code	a. Quantity	b. Unit Code	
1. Sorghum											
2. Maize											
3. Millet											
4. Cassava											
5. Rice											
6. Sweet Potato											
7. Bread											
8. Beans											
9 Tomatoes											

10. Okra										
11. Onions										
12. Banana										
13. Pineapple										
14. Groundnuts										
15. Milk										
16. Chicken										
17. Beef										
18. Goat										
19. Mutton/Sheep										
20 Fish										
21 Eggs										
22. Sugar										
23.Honey										
24.Oil/Ghee										

<b>22. In the past month (30 days) have you or anyone in your household purchased [ITEM]?</b>  Yes.....1 No.....2		<b>23. How much did your household pay in total for [ITEM]?</b>  <b>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY.]</b>
<b>a. Non-Food Item</b>	<b>b. Code</b>	
1. Body Soap		
2. Clothes Soap		
3. Toothpaste		
4. Toilet paper		
5. Shampoo		
6. Household cleaning products (dish soap etc.)		
7. Petrol		
8. Diesel		
9. Charcoal		
10. Kerosene		
11. Fire wood		
12. Public Transportation (bus fare, etc.)		

<b>24. In the past 12 months, have you or anyone in your household purchased. [ITEM]?</b>  Yes.....1 No.....2		<b>25. How much did your household pay in total for [ITEM]?</b>  <b>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY.]</b>
<b>a. Non-Food Item</b>	<b>b. Code</b>	
1 Clothing		
2. Shoes		
3. School Fees		
4. Health Care Services		
5. Housing Maintenance (repairs and improvements)		
6. Housing Rent		

**VI. HOUSEHOLD WEALTH ASSESEMENT**

[Please say: *“Now I would like to ask you about some of the goods in your household.”*]

<b>26. Does any member of your household own a [ITEM]?</b> Yes.....1 No.....2		<b>27. How many [ITEM] does your household own?</b>  [Enter Number]
<b>a. Item</b>	<b>b. Code</b>	
1. Television		
2. Radio		
3. Mobile Phone		
4. Computer		
5. Refrigerator		
6. Satellite Dish		
7. Fan		
8. Air Conditioner		
9. Tractor		
10. Power Generator		
11. Kerosene or Paraffin Stove		
12. Kerosene or Paraffin Lantern		
13. Bicycle		

**VII. VEHICLE ASSESSMENT OWNERSHIP ASSESMENT**

[Please say: “Now I would like to ask you about any vehicles your household owns.”]

28. Are there any members of your household who own or lease motorized vehicles?

Yes.....1

No.....2 [Skip to → 38]

**ENTER CODE**

<p><b>29.</b> Please list all the motorized vehicles, members of your household own or lease (up to 5). <b>[Read List]</b></p> <p>Bus.....1                  Minibus.....2                  Car.....3                  Jeep.....4                  Van.....5                  Pick-Up Truck.....6                  Motorcycle.....7</p>	<p><b>30.</b> Is this [VEHICLE] owned or leased?</p> <p>Owened....1                  Leased....2</p> <p><b>[Enter Code]</b></p>	<p><b>31.</b> Who in the household owns this [VEHICLE]?</p> <p><b>[Enter Name and Personal ID Code]</b></p>	<p><b>32.</b> In a typical <b>dry season</b> month, how much is spent on repairs and maintenance for this [VEHICLE]?</p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify.]</b></p>	<p><b>33.</b> In a typical <b>rainy season</b> month, how much is spent on repairs and maintenance for this [VEHICLE]?</p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify.]</b></p>	<p><b>34.</b> In <b>December of 2007</b>, how much was spent on fuel for this [VEHICLE]?</p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify.]</b></p>	<p><b>35.</b> In <b>August of 2007</b>, how much is spent on fuel for this [VEHICLE]?</p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify.]</b></p>	<p><b>36.</b> Is this [VEHICLE] insured?</p> <p>Yes.....1                  No.....2</p> <p><b>[Skip to →38]</b></p>	<p><b>37.</b> How much is spent on insurance per month for this [VEHICLE]?</p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify.]</b></p>
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2 Axle Truck.....8 3 Axle Truck .....9 Tractor Trailer.....10 Other (Specify.....)....11 Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer.....-999 <b>[Do Not Read]</b>				Don't	Don't				
				Know.....-777	Know.....-777	Don't	Don't		Don't
				Not	Not	Know.....-777	Know.....-777		Know.-777
				Applicable.-888	Applicable.-888	Not	Not		Refuse to
				Refuse to	Refuse to	Applicable.-888	Applicable.-888	Don't	Answer.-999
				Answer.....-999	Answer.....-999	Refuse to	Refuse to	Know...-777	
						Answer.....-999	Answer.....-999	Refuse to	
								Answer.-999	
		<b>a. Name</b>	<b>b. ID</b>						
			<b>Code</b>						
1.									
2.									
3.									
4.									
5.									

**VIII. SECTION A: HOUSEHOLD ACTIVITIES AND LIVELIHOOD**

[Please Say: *Now I would like to ask you about the activities and sources of livelihood.*]

<b>PERSONAL ID NUMBER</b>	<p><b>38.</b> Please list the primary work or school activities of all of the household members over 10 years-old during the last 12 months. <b>[DO NOT READ LIST. Give short description to the left, and insert code at right.]</b></p> <p>Own Farm/Animal husbandry.....1</p> <p>Fishing Activities.....2</p> <p>Casual Labor (Farm and Non-farm).....3</p> <p>Long-Term Agricultural Employee .....4</p> <p>Private Wage Employment .....5</p> <p>Government Wage Employment.....6</p> <p>Small Business Owner.....7</p> <p>Large Business Owner.....8</p> <p>Skilled Trade (Electrician, Plumber, etc.).....9</p> <p>Armed Forces.....10</p> <p>Charity/Alms .....11</p> <p>Unemployed .....12</p> <p>Pupil/Student.....13</p> <p>Homemaker/Child Care.....14 <b>(STOP)</b></p> <p>Retired/Too Old .....15 <b>(STOP)</b></p>	<p><b>39.</b> Please list all of the months during the last 12 months that. [Name] performed this activity.</p> <p>Don't Know.....-777</p> <p><b>[Do Not Read]</b></p> <p>Refuse to answer.....-999</p> <p><b>[Do Not Read]</b></p> <p><b>[Please check off all months that this activity was performed]</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr><td>a. January 2008</td></tr> <tr><td>b. February 2008</td></tr> <tr><td>c. March 2008</td></tr> <tr><td>d. April 2007</td></tr> <tr><td>e. May 2007</td></tr> <tr><td>f. June 2007</td></tr> <tr><td>g. July 2007</td></tr> <tr><td>h. August 2007</td></tr> <tr><td>i. September 2007 2007</td></tr> <tr><td>j. October 2007</td></tr> <tr><td>l. November 2007</td></tr> <tr><td>m. December 2007</td></tr> </table>	a. January 2008	b. February 2008	c. March 2008	d. April 2007	e. May 2007	f. June 2007	g. July 2007	h. August 2007	i. September 2007 2007	j. October 2007	l. November 2007	m. December 2007	<p><b>40.</b> How many hours per day did [NAME] typically perform this activity?</p> <p><b>[Enter hours per day]</b></p> <p>Don't Know.....-777</p> <p><b>[Do Not Read]</b></p> <p>Refuse to answer.....-999</p> <p><b>[Do Not Read]</b></p>	<p><b>41.</b> Was the activity performed by [NAME] considered:</p> <p>Casual and Salaried</p> <p>Labor.....1</p> <p><b>[GO TO SECTION B, Page 13, Q. 42]</b></p> <p>Own Business/ Own Non-Agricultural Production.....2</p> <p><b>[GO TO SECTION C, Page 14, Q. 48]</b></p> <p>Own Agricultural Production.....3</p> <p><b>(STOP)</b></p> <p>Unemployment.....4</p>
	a. January 2008															
b. February 2008																
c. March 2008																
d. April 2007																
e. May 2007																
f. June 2007																
g. July 2007																
h. August 2007																
i. September 2007 2007																
j. October 2007																
l. November 2007																
m. December 2007																



**SECTION B: CASUAL AND SALARIED LABOR**

<p><b>Please recopy the list of household members who participate in CASUAL OR SALARIED LABOR from Q. 41 above.</b></p>	<p><b>42. Was [NAME] paid a wage for this activity?</b></p> <p>Yes.....1 No.....2 Don't Know.....-777 <b>[Do Not Read]</b></p>	<p><b>43. How much was [NAME] paid for this activity?</b></p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY. ]</b></p>	<p><b>44. Was [NAME] paid in-kind for this activity?</b></p> <p>Yes.....1 No.....2 <b>(STOP)</b> Don't Know.....-777</p>	<p><b>45. What item did [NAME] usually receive in-kind? [READ LIST]</b></p> <p>Livestock.....1 Fish.....2 Dairy Products.....3 Grains/Cereals.....4 Cassava.....5 Yams.....6</p>	<p><b>46. How often did [NAME] usually receive payment in-kind?</b></p> <p>Per day.....1 Per week.....2 Per month.....3 Other</p>	<p><b>47. How much did [NAME] receive in-kind?</b></p> <p><b>[Enter quantity and unit. Please Look at separate Unit Code]</b></p>
---	--	---	--	--	---	---

		Refuse to Answer.....-999 <b>[Do Not Read]</b>				<b>[Do Not Read]</b> Refuse to Answer.-999 <b>[Do Not Read]</b>	Nuts/Seeds.....7 Honey.....8 Eggs.....9 Sugar.....10 Shelter.....11 Clothing.....12 Prepared Meals...13 Other (Specify____).....14  Don't Know.....-777 Refuse to Answer.....-999 <b>[Do Not Read]</b>	(Specify____).....4  Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer.-999 <b>[Do Not Read]</b>		
			a. Per Day	b. Per Week	c. Per Month				a. Quantity	b. Unit Code (Page 9)
01										
02										
03										
04										
05										
06										
07										

08										
09										
10										

[END OF SECTION B]

**SECTION C: OWN BUSINESS/TRADE/PRODUCTION**

	<p><b>Please recopy the list of household members who have their OWN BUSINESS, TRADE, PRODUCTION from Q. 41 above.</b></p>	<p><b>48. Please tell me the primary good or service that [NAME] sells or performs. [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give short product description to the left.]</b></p> <p>Packaged Foods.....1 Diesel.....16          Prepared Meals/Restaurant.....2 Petroleum.....17          Bottled/Packaged Drinks.....3 Appliances.....18          Prepared Drinks.....4 Electronics.....19          Tobacco/Cigarettes.....5 Furniture.....20          Personal Cleaning Products Personal Services          (soap, shampoo, toothpaste).6 (haircut, cell phone charge)...21          Household Cleaning Products...7 Repair Services.....22          Medicines/Pharmaceuticals.....8 Other (Specify.....).....23          Magazines/Books/ Don't Know.....-777          Newspapers.....9 <b>[Do Not Read] [Stop]</b>          Batteries.....10 Refuse to Answer.....-999          Clothes/Shoes/Fabric.....11 <b>[Do Not Read] [Stop]</b>          Jewelry.....12          Arts/Crafts.....13          Charcoal.....14</p>	<p><b>49. In what year was this enterprise founded?</b></p> <p><b>[Enter Year]</b></p>	<p><b>50. Do any non-household members work at this enterprise?</b></p> <p>Yes.....1          No.....2  <b>[Skip to→52]</b></p> <p>Don't Know.....-777  <b>[Do Not Read]</b></p> <p>Refuse to Answer.-999  <b>[Do Not Read]</b></p>	<p><b>51. How many non-household members work at this enterprise?</b></p> <p><b>[Enter Number]</b></p>	<p><b>52. In a typical month, how much does [NAME] earn in total from this enterprise?</b></p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY]</b></p>
--	--	---	--	---	--	--

		Kerosene.....15					
		<b>a. Description</b>	<b>b. Code</b>				
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							

[END OF SECTION C]

**IX. NON-AGRICULTURAL HOUSEHOLD TRANSPORTATION**

**ASK THESE QUESTIONS FOR MEMBERS OF THE HOUSEHOLD WHO HAVE CASUAL, SALARIED AND OWN BUSINESS EMPLOYMENT OR ARE UNEMPLOYED OR STUDENTS.**

**[Please say: “Now I would like to ask you about the work- and school-related transportation needs.”]**

<b>PERSONAL ID NUMBER</b>	<b>Please recopy the list of household members from Q. 41 above who participated in:</b>	<b>53. How did [NAME] typically travel to his/her place of work/school? (Or to look for work if unemployed?)</b> <b>[READ LIST]</b>	<b>54. What type of vehicle did [NAME] take to his/her place of work/school? (or to look for work, if unemployed)</b> <b>[READ LIST]</b>	<b>55. Who drove the vehicle that [NAME] rode in to travel to and from his/her place of work/school? (Or to look for work if unemployed?)</b> <b>[Read List]</b>	<b>56. Did [NAME] typically pay for fuel for the vehicle to travel to and from his/her place of work/school? (Or to look for work if unemployed?)</b>	<b>57. In a typical week, how much did [NAME] pay for fuel for this vehicle to travel to and from his/her place of work/school? (Or to look for work if unemployed?)</b> <b>[When answering this question, please disregard the months of January 2008 and February 3008 when the violence in Kenya drove up fuel prices.]</b>	<b>58. Did [NAME] pay for fare?</b>
	❖ <b>Casual and Salaried Labor</b>		Bus.....1 Minibus.....2 Car.....3	Drove self.....1 Family Member.....2 Friend.....3	Yes.....1 No.....2		Yes.....1 No.....2
	❖ <b>Own Business/ Non-Agricultural Production</b>	Motorized vehicle....1 Bicycle.....2	Jeep.....4 Van.....5 Pick-Up Truck.....6 Motorcycle.....7	Hired Driver (ie. Taxi, bus driver).....4	Don't Know.....-777		Don't Know.....-777
	❖ <b>Student</b>	<b>[Skip to→60]</b>	2 Axle Truck.....8 3 Axle Truck .....9 Tractor Trailer.....10 Other (Specify.....)....11	Driver provided by Employer.....5 Other (Specify.....)....6	<b>[Do Not Read]</b> <b>[Skip to→58]</b>	<b>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify ]</b>	<b>[Do Not Read]</b> <b>[Skip to→60]</b>
	❖ <b>Unemployed</b>	Walk.....3 <b>[Skip to→60]</b>	Don't Know.....-777 <b>[Do Not Read]</b>	Don't Know.....-777 <b>[Do Not Read]</b>	Refuse		Refuse to Answer..... -999 <b>[Do Not Read]</b>

			Refuse to Answer.....-999 <b>[Do Not Read]</b>	Refuse to Answer.....-999 <b>[Do Not Read]</b>	to Answer... -999 <b>[Do Not Read]</b> <b>[Skip to→58]</b>		<b>[Skip to→60]</b>
01							
02							
03							
04							
05							
06							
07							
08							

09							
10							

[NON-AGRICULTURAL HOUSEHOLD TRANSPORTATION ROSTER CONTINUED ON NEXT PAGE]

PERSONAL ID NUMBER	59. In a typical week, how much did [NAME] pay in fare for this vehicle to travel to and from his/her place of work/school? (Or to look for work if unemployed?) [When answering this question, please disregard the months of January 2008 and February 3008 when the violence in Kenya drove up fuel prices.]  [Enter in Sudanese Pounds or Ugandan Shillings. Please Specify ]	60. Did [NAME] typically use the <b>Juba-Nimule Road</b> to travel to his/her place of work/school? (or to look for work if unemployed?)  Yes.....1  No.....2  Don't Know.....777  [Do Not Read]  Refuse to Answer....999  [Do Not Read]	61. How far did [NAME] travel from this dwelling to his/her place of work/school? (or to look for work if unemployed?)  [Enter in Meters or KMs]		62. How much time did it take for [NAME] to travel from this dwelling to his/her place of work/school? (or to look for work if unemployed?)  [Enter in Hours and Minutes]		63. How much time did it take for [NAME] to travel from his/her place of work/school to this dwelling?  [Enter in Hours and Minutes]	
			a. Distance	b. Meters or Kilometers	a. Hours	b. Minutes	a. Hours	b. Minutes
01								
02								

03								
04								
05								
06								
07								
08								
09								
10								

**[END OF NON-AGRICULTURAL HOUSEHOLD TRANSPORTATION ROSTER]**

**X. REMITTENCES AND TRANSFERS**

**[Please say: “Now I would like to ask you about other sources of livelihood.”]**

64. During the past 12 months, has your household sometimes received money from friends or family living outside your household?

Yes.....1

No.....2 [Skip to→66]

**ENTER CODE**

65. How much in total did your household receive during the last 12 months?

**ENTER IN POUNDS OR  
SHILLINGS**

66. During the past 12 months, has your household sometimes sent money to friends or family living outside your household?

Yes.....1

No.....2 [Go to→ PAGE 18 if this household HAS

**Agricultural Production.**

**Skip to →PAGE 23 if this**

**household DOES NOT HAVE Agricultural  
Production. ]**

**ENTER CODE**

67. How much in total did your household send during the last 12 months?

**ENTER IN POUNDS**

**XI. OWN AGRICULTURAL/ANIMAL HUSBANDRY PRODUCTION AND TRANSPORT**

**ONLY ASK THESE QUESTIONS IN THIS SECTION IF THE HOUSEHOLD PRODUCES ITS OWN AGRICULTURAL PRODUCTS (REFER TO Q 41). IF THIS HOUSEHOLD DOES NOT PRODUCE AGRICULTURAL PRODUCTS, PLEASE SKIP TO→PAGE 23, QUESTION 93].**

[Please say: “*Now I would like to ask you about your household’s own agricultural production and how your household transports its goods to the markets.*”]

	ENTER TOTAL NUMBER OF HECTARES
68a. How many total hectares of land does your household use for  Cultivation/animal husbandry?	
68b. Of the total, how many hectares of land does your household own?	
68c. Of the total, how many hectares of land does your household rent?	
68d. Of the total, how many hectares of land does your household inter-crop (share-crop)?	
68e. Of the total, how many hectares of land does your household use for free?	

69. Is any of the land that your household uses for cultivation/animal husbandry irrigated?

Yes.....1

No.....2 [Skip to→71]

ENTER CODE

70. How many hectares of land are irrigated?

<input type="text"/>	<b>ENTER NUMBER OF HECTARES</b>
----------------------	-------------------------------------

71. During the last 12 months, has your household cultivated any agricultural crops?

Yes.....1

ENTER CODE

No.....2 [Skip to→87]

<p><b>72. Please tell me the primary agricultural crops your household cultivated during the last 12 months in order of importance (up to 5). [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give short crop description to the left.]</b></p> <p>Sorghum.....1</p> <p>Maize.....2</p> <p>Millet.....3</p> <p>Other Grains.....4</p> <p>Cassava.....5</p> <p>Sweet Potatoes.....6</p> <p>Beans.....7</p> <p>Vegetables.....8</p> <p>Fruit.....9</p> <p>Nuts/Seeds.....10</p> <p>Honey.....11</p> <p>Eggs.....12</p>	<p><b>73. How much of this [CROP] did your household cultivate during the last 12 months?</b></p> <p>[Enter Quantity and Units. Use separate Unit Code List]</p>	<p><b>74. Did your household sell this [CROP] during the last 12 months?</b></p> <p>Yes.....1</p> <p>No.....2</p> <p>[Skip to→87]</p> <p>Don't Know.....-777</p> <p>[Do Not Read]</p> <p>[Skip to→87]</p> <p>Refuse to</p>	<p><b>75. How much of this [CROP] did your household sell during the last 12 months?</b></p> <p>[Enter Quantity and Units. Use separate Unit Code List]</p>	<p><b>76. What was the total value of [CROP] sales during the last 12 months?</b></p> <p>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify]</p>	<p><b>77. How did your household typically transport [CROP] to the location in which it was sold? [READ LIST]</b></p> <p>Motorized vehicle....1</p> <p>Bicycle.....2</p> <p>[Skip to→84]</p> <p>Walk.....3</p> <p>[Skip to→84]</p> <p>Walk with cart</p> <p>[Skip to→84]</p> <p>Animal pulled</p> <p>[Skip to→84]</p>
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Sugar.....13				Answer... -999					
Other (Specify _____).....14				<b>[Do Not Read]</b>				Don't Know.....-777	
Don't Know.....-777				<b>[Skip to→87]</b>				<b>[Do Not Read]</b>	
Refuse to Answer.....-999								<b>[Skip to→87]</b>	
<b>[Do Not Read] [Stop section]</b>								Refuse to Answer....-999	
								<b>[Do Not Read]</b>	
								<b>[Skip to→87]</b>	
a. Description of Crop	b. Code	a. Quantity	b. Unit Code		a. Quantity	b. Unit code			
1.									
2.									
3.									
4.									
5.									

[AGRICULTURAL PRODUCTION ROSTER CONTINUES ON NEXT PAGE]

<p><b>Please recopy the list of crops and descriptions from Q.72 above.</b></p>	<p><b>78.</b> What type of vehicle did your household use to transport [CROP]?</p> <p><b>[Read List]</b></p> <p>Bus.....1</p> <p>Minibus.....2</p> <p>Car.....3</p> <p>Jeep.....4</p> <p>Van.....5</p> <p>Pick-Up Truck.....6</p> <p>Motorcycle.....7</p>	<p><b>79.</b> Who drove the vehicle to transport [CROP]?</p> <p><b>[Read List]</b></p> <p>Household member.....1</p> <p>Family Member outside of household.....2</p> <p>Friend.....3</p> <p>Hired Driver.....4</p> <p>Driver provided by Employer.....5</p>	<p><b>80.</b> Did your household typically pay for <b>fuel</b> to transport [CROP]?</p> <p>Yes.....1</p> <p>No.....2</p> <p><b>[Skip to→83]</b></p> <p>Don't Know...-777</p> <p><b>[Do Not Read]</b></p>	<p><b>81.</b> For a typical trip, how much did your household pay for <b>fuel</b> to transport this [CROP]? <b>[When answering this question, please disregard the months of January 2008 and February 2008 when the violence in Kenya drove up fuel prices.]</b></p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify]</b></p> <p><b>[ALSO SPECIFY IF THIS IS THE PRICE ONE-WAY or ROUND TRIP]</b></p>
---	---	---	--	---

		2 Axle Truck.....8 3 Axle Truck .....9 Tractor Trailer.....10 Other (Specify.....)11 Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer.....-999 <b>[Do Not Read]</b>	Other (Specify.....).....6 Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer...-999 <b>[Do Not Read]</b>	<b>[Skip to→83]</b>  Refuse to Answer. -999 <b>[Do Not Read]</b> <b>[Skip to→83]</b>	<b>a. One-Way</b>	<b>b. Round Trip</b>
<b>a. Description of Crop</b>	<b>b. Code</b>					
1.						
2.						
3.						
4.						
5.						

[AGRICULTURAL PRODUCTION ROSTER CONTINUES ON NEXT PAGE]

<p><b>Please recopy the list of crops and descriptions from Q.72 above.</b></p>	<p><b>82.</b> Did your household pay <b>shipping costs</b> to transport [CROP]?</p> <p>Yes.....1  No.....2  [Skip to→84]</p> <p>Don't  Know.....-777  [Do Not Read]  [Skip to→84]</p> <p>Refuse  to Answer... -999</p>	<p><b>83.</b> For a typical trip, how much did your household pay for in <b>shipping costs</b> to transport this [CROP]? <b>[When answering this question, please disregard the months of January 2008 and February 3008 when the violence in Kenya drove up fuel prices.]</b></p> <p>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify]</p> <p>[ALSO SPECIFY IF THIS IS THE PRICE ONE-WAY or ROUND TRIP]</p>	<p><b>84.</b> Did your household typically use the <b>Juba-Nimule Road</b> to transport [CROP]?</p> <p>Yes.....1  No.....2  Don't  Know.....-777  [Do Not Read]  Refuse  to Answer....-999  [Do Not Read]</p>	<p><b>85.</b> For a typical trip, <b>how far</b> did your household transport [CROP] from this dwelling to the market?</p> <p>[Enter in Meters or KMs]</p>	<p><b>86.</b> For a typical trip, <b>How much time</b> did it take for you to transport [CROP] to the market? <b>(ONE-WAY)</b></p> <p>[Enter in Days, Hours and Minutes]</p>
---	--	--	---	--	--

a. Description of Crop	b. Code	[Do Not Read] [Skip to→84]	a. One-Way	b. Round Trip		a. distance	b. Meters or KM	a. Day	b. Hours	c. Minutes
1.										
2.										
3.										
4.										
5.										

[END OF AGRICULTURAL PRODUCTION ROSTER]

87. During the last 12 months, did your household keep any animals?

Yes.....1

No.....2 **[Skip to→93]**

**ENTER CODE**

<p><b>88. Please tell me the primary animals that your household kept during the last 12 months (up to five). [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give short animal description on the left.]</b></p> <p>Cow.....1</p> <p>Buffalo.....2</p> <p>Goat.....3</p> <p>Sheep.....4</p> <p>Horse.....5</p> <p>Donkey.....6</p> <p>Mule.....7</p> <p>Chicken.....8</p> <p>Other (Specify.....).....9</p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p> <p><b>[Do Not Read] [Stop section]</b></p>	<p><b>89. How many [ANIMALS] your households keep during the last 12 months?</b></p> <p><b>[ENTER NUMBER OF ANIMALS]</b></p>	<p><b>90. Did your household sell any [ANIMAL] during the last 12 months?</b></p> <p>Yes.....1</p> <p>No.....2</p> <p><b>[Skip to→93]</b></p> <p>Don't Know.....-777</p> <p><b>[Do Not Read]</b></p> <p><b>[Skip to→93]</b></p> <p>Refuse to Answer..... -999</p>	<p><b>91. How many [ANIMAL] did your household sell during the last 12 months?</b></p> <p><b>[ENTER NUMBER OF ANIMALS]</b></p>	<p><b>92. What was the total value of all [ANIMAL] sales during the last 12 months?</b></p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify]</b></p>
--	--	---	--	---

			[Do Not Read] [Skip to→93]		
<b>a. Description of Animals</b>	<b>b. Code</b>				
1.					
2.					
3.					
4.					
5.					

[END OF LIVESTOCK ROSTER]

**XII. HOUSEHOLD TRANSPORTATION FOR HEALTH CARE**

**[Please say: “Last, I would like to ask you some questions related to health care and transportation”]**

**93.** In the past 12 months, have any members your household had an illness, injury or condition that required medical attention?

Yes.....1

No.....2 **[Skip to→ END SURVEY]**

**ENTER CODE**

<b>ID Code</b>	<b>94.</b> Please list all the members of your household who had an illness, injury or condition that required medical attention.	<b>95.</b> What was the illness, injury or condition that [Name] sought medical care for? <b>[Do not read. Let respondent tell you and then code the problem. If the respondent gives more than one medical problem, ask him or her to tell you about the most serious problem]</b>	<b>96.</b> What actions did [NAME] take to find relief? <b>[Read List]</b>
		Fever, Malaria.....1    Eye Problem.....13    AIDS/HIV.....24	No Action.....1
		Diarrhea.....2    Ear problem.....14    Other Sexually	Used Medicine.....2
		Cholera .....3    Backache.....15    Transmitted Disease...25	Went to Public Hospital.....3 <b>[Skip to 98]</b>
		Parasites.....4    Heart Problem.....16    Cancer.....26	Went to Private Hospital.....4 <b>[Skip to 98]</b>
		Cough.....5    Urinary/Kidney	Went to Public Clinic.....5 <b>[Skip to 98]</b>
		Stomach Ache.....6    Problem.....17    Fracture.....28	Went to Private Clinic.....6 <b>[Skip to 98]</b>
		Vomiting .....7    Influenza.....18    Wound.....29	Went to Traditional Healer.....7 <b>[Skip to 98]</b>
		Sore Throat.....8    Asthma.....19    Poisoning.....30	Went to Midwife.....8 <b>[Skip to 98]</b>
		Headache.....9    Blood Pressure.....20    Pregnancy .....31	Church/Mosque Facility.....9 <b>[Skip to 98]</b>
		Fainting.....10    Diabetes.....21    Other illness	Foreign Aid Clinic.....10 <b>[Skip to 98]</b>
		Skin Problem.....11    Mental Illness.....22    (Specify.....).....32	Other (Specify.....).....11
		Dental Problem .....12    Tuberculosis.....23    Other injury	Don't Know.....-777

		(Specify_____).....33 Other condition Don't Know.....-777      Refuse to answer..-999      Specify_____).....34	<b>[Do Not Read] [Skip to→ END SURVEY]</b> Refuse to Answer.....-999 <b>[Do Not Read] [Skip to→ END SURVEY]</b>
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			

**[HEALTH AND TRANSPORT ROSTER CONTINUED ON NEXT PAGE]**

<b>ID Code</b>	<b>97. What is the primary reason that [NAME] chose not seek treatment at a health care facility or a health care provider? [Read List]</b>	<b>98. What is the primary reason that [NAME] sought treatment at this facility/provider? [Read List]</b>	<b>99. How did [NAME] travel to the facility/health care provider? [Read List]</b>	<b>100. Did [NAME] drive him/herself or was he/she a passenger in the vehicle?</b>
	Not Serious.....1 Did not want to go.....2 Treatment too expensive.....3 Facility/provider too far.....4 Travel to facility/provider too expensive.....5 Other (Specify____).....6 Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer.....-999 <b>[Do Not Read]</b>	Closest to dwelling.....1 Best treatment.....2 Most affordable treatment.....3 Most affordable to travel to.....4 Most trusted.....5 Other (Specify____).....6 Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer.....-999 <b>[Do Not Read]</b>	Walk.....1 <b>[Skip to →107]</b> Bicycle.....2 <b>[Skip to →107]</b> Drive/ride as a passenger in a vehicle.....3 Other (Specify____).....4 Don't Know.....-777 <b>[Do Not Read]</b> <b>[Skip to→107]</b> Refuse to Answer.....-999 <b>[Do Not Read]</b> <b>[Skip to→107]</b>	Drive self.....1 Passenger.....2 Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer....-999 <b>[Do Not Read]</b>
	<b>[ENTER CODE]</b>	<b>[ENTER CODE]</b>	<b>[ENTER CODE]</b>	
	<b>[ Do not continue with questions in this section for any member of the household who did not seek treatment</b>			

	at an outside facility]			
01				
02				
03				
04				
05				
06				
07				
08				

09				
10				

[HEALTH AND TRANSPORTATION ROSTER CONTINUED ON NEXT PAGE]

<b>ID Code</b>	<b>101.</b> In which type of vehicle did [NAME] drive/ride to the health facility ? <b>[Read List]</b>	<b>102.</b> Did [Name] have to pay any <b>fuel costs</b> for this vehicle?	<b>103.</b> How much did [NAME] pay for <b>fuel</b> for this vehicle?	<b>104.</b> Did [NAME] pay for <b>fare</b> to travel in this vehicle?	<b>105.</b> How much did [NAME] pay for <b>fuel</b> for this vehicle?
Bus.....1					
Minibus.....2					
Car.....3					
Jeep.....4		Yes.....1	<b>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify ]</b>	Yes.....1	<b>[Enter in Sudanese Pounds or Ugandan Shillings. Please Specify ]</b>
Van.....5		No.....2		No.....2	
Pick-Up Truck.....6		<b>[Skip to →104]</b>	<b>[ALSO SPECIFY IF THIS IS THE PRICE ONE-WAY or ROUND TRIP]</b>	<b>[Skip to→106]</b>	
Motorcycle.....7		Don't		Don't	
2 Axle Truck.....8		Know.....-777		Know...-777	
3 Axle Truck .....9		<b>[Do Not Read]</b>		<b>[Do Not Read]</b>	
Tractor Trailer.....10					

	Other (Specify _____).....11 Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer.....-999 <b>[Do Not Read]</b>	<b>[Skip to →104]</b> Refuse to Answer.....-999 <b>[Do Not Read]</b> <b>[Skip to →104]</b>	<b>a. One-Way</b>	<b>b. Round Trip</b>	<b>[Skip to→106]</b> Refuse to Answer. -999 <b>[Do Not Read]</b> <b>[Skip to→106]</b>	<b>a. One Way</b>	<b>b. Round Trip</b>
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							

[HOUSEHOLD HEALTH AND TRANSPORTATION ROSTER CONTINUED ON NEXT PAGE]

ID Code	106. Did [NAME] typically use the <b>Juba-Nimule Road</b> to travel to the facility?  Yes.....1 No.....2 Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer...-999 <b>[Do Not Read]</b>	107. How far did [NAME] travel from this dwelling to the facility?  <b>[Enter in Meters or KMs]</b>		108. How much time did it take for [NAME] to travel from this dwelling to the health facility?  <b>[Enter in Hours and Minutes]</b>			109. How much time did it take for [NAME] to travel from the health facility to the dwelling?  <b>[Enter in Hours and Minutes]</b>		
		a. Distance	b. Meters or KMs	a. Days	b. Hours	c. Minutes	a. Days	b. Hours	c. Minutes
01									
02									
03									
04									
05									
06									
07									
08									
09									
10									

[END OF HOUSEHOLD HEALTH AND TRANSPORTATION ROSTER]

## SISP Juba-Nimule Road Baseline Survey: Small Business Module

A.1	Village/ City Identification			
A.2	Payam Identification			
A.3	Block Identification (If in Juba/Nimule)			
A.4	Section Identification (If in Juba/Nimule)			
A.5	KM Along the Road			
A.6	Survey Number			



**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

<b>D. INTERVIEW REPLACEMENT</b>	
	Code

<b>D1</b>	This is a replacement business?	Yes.....1	
		No.....2	

[At this point, please begin the interview by saying: *“Good Afternoon, my name is\_\_\_\_\_ . I am from the company that is constructing the Juba-Nimule Road, which is funded by The United States Agency for International Development in cooperation with the GOSS Ministry of Roads and Transport. As part of this project, we are conducting a survey, with the permission of your Payam leaders about how the road affects businesses like yours. Therefore, I would like to speak to the owner of this business or the person that usually runs this business. (IF NEITHER OF THESE PEOPLE IS AVAILABLE, PLEASE INTERVIEW THE SHOP CLERK WHO IS THERE.)*

[DETERMINE RESPONDENT]

*The purpose of this survey is to collect information about how transport time and transport costs affect your business. The results will be used to better understand how improved transportation infrastructure impacts businesses like yours.*

*Please be aware that this survey is not connected to the South Sudan Census. Participation in this survey is completely voluntary and all business information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you or this business. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey?* [If asked, the survey will take approximately 30 minutes.]

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>E. RESPONDENT IDENTIFICATION</b>
<b>E1. Respondent Name</b>
<b>E3. Location [Describe location in relation to section area]:</b>
<b>E4. Language of Interview</b>

**II. BUSINESS CHARACTERISTICS**

[Please say: *Now I would like to ask you some basic questions about this business.*]

1. What is your relationship to the owner of this business? **[Read List]**

- Owner.....1
- Manager.....2
- Employee.....3
- Friend.....4
- Family Member of Owner:
  - Spouse.....5
  - Son.....6
  - Daughter.....7
  - Other Family (Specify\_\_\_\_\_)......8
- Other (Specify\_\_\_\_\_)......9
- Don't Know.....-777 **[Do Not Read]**
- Refuse to Answer.....-999 **[Do Not Read]**

**ENTER CODE**

2. What is the primary sector in which your business operates? **[READ LIST]**

- Retail/Trade.....1
- Service.....2
- Small Scale-Industry.....3
- Other (Specify\_\_\_\_\_)......4

Don't Know.....-777 **[Do Not Read]**

Refuse to Answer.....-999 **[Do Not Read]**

**ENTER CODE**

3. In what year was this business founded?

**ENTER YEAR**

4. As of today, how many total employees does this business have (excluding family members of the owner)? **[If all employees are family members of the owner, enter -555 in the box below].**

**NUMBER OF EMPLOYEES**

<p><b>5. Please list the top goods or services this business sells in order of importance (up to five). [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give short product description to the left.]</b></p> <p>Agricultural/Ranch Products.....1  Livestock.....2  Packaged Foods.....3  Prepared Meals/Restaurant.....4  Bottled/Packaged Drinks.....5  Prepared Drinks.....6  Tobacco/Cigarettes.....7  Personal Cleaning Products  (soap, shampoo, toothpaste).....8  Household Cleaning Products.....9  Medicines/Pharmaceuticals.....10  Magazines/Books/  Newspapers.....11  Batteries.....12  Clothes/Shoes/Fabric.....13  Jewelry.....14  Arts/Crafts.....15  Charcoal.....16  Kerosene.....17  Diesel.....18  Petroleum.....19  Appliances.....20  Electronics.....21  Furniture.....22  Personal Services  (haircut, cell phone charge).....23  Repair Services.....24  Don't Know.....-777  <b>[Do Not Read] [Skip to→9]</b>  Refuse to Answer.....-999  <b>[Do Not Read] [Skip to→9]</b></p>		<p><b>6. In what quantity do you typically sell [Item]?</b></p> <p><b>[Enter quantity and units. Please look at Separate Unit chart.]</b></p>		<p><b>7. What is the price per this quantity?</b></p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY]</b></p>		<p><b>8. Is this good or service made, produced or provided for in South Sudan?</b></p> <p>Yes.....1  No.....2  Don't Know.....-777  Refuse to Answer.....-888</p>	
<p><b>a. Description of Good/Service</b></p>		<p><b>b. Code</b></p>		<p><b>a. Quantity</b></p>		<p><b>b. Unit Code</b></p>	
1.							
2.							
3.							
4.							
5.							

[AT THIS POINT PLEASE SAY: “When considering the following questions, please disregard the months of January 2008 and February 2008, when the violence in Kenya disrupted shipments.”]

<p>9. For a typical month in the <b>dry season</b>, what is the total money earned for this business?</p> <p>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY]</p> <p>Don't Know.....-777 Refuse to Answer....-888 [Do Not Read]</p>	<p>10. For a typical month in the <b>dry season</b>, what are the total expenses for this business?</p> <p>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY]</p> <p>Don't Know.....-777 Refuse to Answer....-888 [Do Not Read]</p>	<p>11. Of those expenses for a typical month in the <b>dry season</b>, how much is spent on shipping costs for the business?</p> <p>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY]</p> <p>Don't Know.....-777 Refuse to Answer....-888 [Do Not Read]</p>	<p>12. For a typical month in the <b>rainy season</b>, what is total money earned for this business?</p> <p>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY]</p> <p>Don't Know.....-777 Refuse to Answer....-888 [Do Not Read]</p>	<p>13. For a typical month in the <b>rainy season</b>, what are the total expenses for this business?</p> <p>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY]</p> <p>Don't Know.....-777 Refuse to Answer....-888 [Do Not Read]</p>	<p>14. Of those expenses for a typical month in the <b>rainy season</b>, how much is spent on shipping costs for the business?</p> <p>[Enter in Sudanese Pounds or Ugandan Shillings. PLEASE SPECIFY]</p> <p>Don't Know.....-777 Refuse to Answer....-888 [Do Not Read]</p>

**III. BUSINESS TRANSPORT**

[Please Say: “Now I would like to ask you some questions about how goods reach your business. As with the last section, when considering the following questions, please disregard the months of January 2008 and February 2008, when the violence in Kenya disrupted shipments.”]

<p><b>15a.</b> Is any merchandise, equipment and/or supplies for this business delivered by way of the Juba-Nimule Road?</p> <p>Yes.....1  <b>[Skip to→16]</b>          No.....2  <b>[GO TO→ 15B]</b></p>	<p><b>15b.</b> If the Juba-Nimule road was paved and all the bridges along the road were repaired (not including the Juba Bridge), would your business receive shipments by way of the Juba-Nimule Road?</p> <p>Yes.....1  <b>[Skip to→ 24]</b>          No.....2  <b>[GO TO→ 15c]</b></p>	<p><b>15c.</b> Why not? <b>[READ LIST]</b></p> <p>My merchandise, equipment and/or supplies do not come to and from points          South.....1          Route does not lie along desired destination points.....2          Route takes too much time.....3          Road is too dangerous (LRA, Bandits).....4          Juba Bridge is too narrow to cross.....5          Other (Specify.....).....6          Don't Know.....777  <b>[Do Not Read][Skip to→24]</b>          Refuse to Answer.....999  <b>[Do Not Read][Skip to→24]</b></p> <p><b>[AFTER ENTERING CODE, SKIP TO→24]</b></p>
<p><b>Enter Code:</b></p>	<p><b>Enter Code:</b></p>	<p><b>Enter Code:</b></p>

**16.** In a typical **dry season** month, approximately how much of the merchandise, equipment or supplies for this business are delivered by way of the Juba-Nimule Road? **[Read List]**

- All.....1
- More than Half.....2
- Half.....3
- Less than Half.....4

Almost None.....5

Don't Know.....777 **[Do Not Read]**

Refuse to Answer.....999 **[Do Not Read]**

**ENTER CODE**

17. In a typical **dry season** month, how many deliveries does this business receive by way of the Juba-Nimule Road? [If “Not Applicable” because they were not at this location at the time enter -888.]

NUMBER OF SHIPMENTS

18. During the **dry season**, are deliveries ever delayed?

Yes.....1

No.....2 [Skip to→20]

Don't Know.....-777 [Skip to→20]

ENTER CODE

19. Please list the number of delivery delays this business experienced during the following **dry** season months. [Please read the months. If “Don't Know” enter -777. If “Not Applicable” because they were not at this location at the time enter -888. If “Refuse to Answer” enter -999.]

	Month	Number of Delays
a	October 2007	

b	November 2007	
c	December 2007	

20. In a typical **rainy season month**, approximately how much of the merchandise, equipment or Supplies for this business are delivered by way of the Juba-Nimule Road? **[Read List]**

- All.....1
- More than Half.....2
- Half.....3
- Less than Half.....4
- Almost None.....5
- Don't Know.....-777 **[Do Not Read]**
- Refuse to Answer.....-999 **[Do Not Read]**

**ENTER CODE**

21. In a typical **rainy season month**, how many deliveries does this business receive by way of the Juba-Nimule Road? **[If “Not Applicable” because they were not at this location at the time enter -888]**

**NUMBER OF SHIPMENTS**

22. During the typical **rainy season**, are deliveries ever delayed?

Yes.....1

No.....2 **[Skip to→24]**

Don't Know.....-777 **[Skip to→24]**

**ENTER**

**CODE**

23. Please list the number of shipment delays this business experienced during the following **rainy** season months. **[Please read the months. If “Don't Know” enter -777. If “Not Applicable”**

**because they were not at this location at the time enter -888. If “Refuse to Answer” enter -999.]**

	<b>Month</b>	<b>Number of Delays</b>
a	June 2007	
b	July 2007	
c	August 2007	

24. In which type of vehicle are the majority of your shipments transported along the Juba-Nimule Road?

- Container Truck/Semi.....1
- Large Transport Truck.....2
- Pick-up Truck.....3
- Car.....4
- Motorcycle.....5
- Cart/Wheelbarrow/Wagon.....6
- On foot.....7
- Other (Specify \_\_\_\_\_).....8
- Don't Know.....-777 **[Do Not Read]**
- Refuse to Answer.....-999 **[Do Not Read]**

**ENTER CODE**

25. Please list up to three other transport routes this business uses to receive deliveries (in order of importance). **[If "Not Applicable" enter -888 in the first line.]**

a.
b.
c.

**[This concludes the survey. Thank you for your participation.]**

# SISP Juba-Nimule Road Baseline Survey: Observational Market Overview Module

A.1	Village/ City Identification			
A.2	Payam Identification			
A.3	Block Identification  (If in Juba/Nimule}			
A.4	Section Identification  (If In Juba/Nimule)			
A.5	KM Along the Road			
A.6	Survey Number			

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

## I. OBSERVATIONAL MARKET OVERVIEW

This module of the baseline is completely observational. Please observe and record the information asked below.

<b>Product Category</b>	<b>1. Please mark the primary product that this business sells. [USE TALLY MARKS]</b>
a. Agricultural/Ranch Products	
b. Livestock	
c. Packaged Foods	
d. Prepared Meals/Restaurant	
e. Bottled/Packaged Drinks	
f. Prepared Drinks	
g. Tobacco/Cigarettes	
h. Personal Cleaning Products (soap, shampoo, toothpaste)	
i. Household Cleaning Products	
j. Medicines/Pharmaceuticals	
k. Magazines/Books/Newspapers	
l. Batteries	
m. Clothes/Shoes/Fabric	
n. Jewelry	
o. Arts/Crafts	
p. Charcoal	
q. Kerosene	
r. Diesel	
s. Petroleum	
t. Appliances	
u. electronics	
v. Furniture	
w. Personal Services (haircut, cell phone charge)	
x. Repair Services	

2. How many stalls are in this market area/village?

**ENTER NUMBER OF  
STALLS**

3. Other comments about this market area/village:

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## SISP Juba-Nimule Road Baseline Survey: Paid Passenger Module

A.1	Village/ City Identification			
A.2	Payam Identification			
A.3	Block Identification (If in Juba/Nimule)			
A.4	Section Identification (If In Juba/Nimule)			
A.5	KM Along the Road			
A.6	Survey Number			

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				

<b>B3</b>	Data Entry				
-----------	------------	--	--	--	--

<b>C. INTERVIEW TIME</b>			
	<b>a. Date (M/D/Y)</b>	<b>b. Time START</b>	<b>c. Time END</b>
<b>C1</b>			

[At this point, please begin the survey by saying: *“Good Afternoon, my name is \_\_\_\_\_. I am from the company that is constructing the Juba-Nimule Road, which is funded by the United States Agency for International Development with cooperation from the GOSS Ministry of Roads and Transport. As part of this project, we are conducting this survey, with the permission of the Payam leaders about how the current condition of the road affects citizens like you.*

*The purpose of this survey is to collect information about how transport time and transport costs affect citizens like you. ARE YOU A PAYING PASSENGER IN THIS VEHICLE?*

Yes.....1

No..... 2 [End Interview, But fill out PART E]

ENTER CODE

*Please be aware that this survey is not collected as part of the South Sudan Census. Participation in this survey is completely voluntary and all information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you directly. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don't want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey? [If asked, please say that the survey will take 5 minutes.]*

*May I begin now?*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview, But fill out PART E]

ENTER CODE

<b>D. RESPONDENT IDENTIFICATION</b>	
<b>D1. Respondent Name</b>	
<b>D2. Respondent Village/City/Town</b>	<b>D3. Respondent Payam</b>
	<b>D4. Language of Interview</b>

<b>E. NON RESPONSIVE IDENTIFICATION (Skip if the Respondent agrees to interview)</b>	
<p><b>E1. Gender</b></p> <p style="text-align: center;">[Enter Gender. Do Not Ask]</p> <p>Male .....1</p> <p>Female.....2</p>	<p><b>E2. Vehicle</b></p> <p style="text-align: center;">[Enter Vehicle. Do Not Ask]</p> <p>Bus.....1</p> <p>Minibus.....2</p> <p>Car.....3</p> <p>Jeep.....4</p> <p>Pick-Up Truck.....5</p> <p>Motorcycle.....6</p> <p>2 Axle Truck.....7</p> <p>3 Axle Truck .....8</p> <p>Tractor Trailer.....9</p> <p>Other (Specify _____)....10</p>
<b>ENTER CODE:</b>	<b>ENTER CODE:</b>

**I. BASIC RESPONDENT INFORMATION**

[Please say: “*First, I would like to ask some basic information about you.*”]

1. What is your occupation? [Do Not Read List. Enter code to the right and a short description to the left.]	2. Gender	3. How old are you?	4. What is your level of education? [Read List]	5. Which type of vehicle are you riding in today? [Only read list if not obvious]
Farmer/Pastoralist.....1	<p style="text-align: center;"><b>[Enter Gender. Do Not Ask]</b></p> <p>Male .....1</p> <p>Female.....2</p>	<p style="text-align: center;"><b>[Enter Age in Years]</b></p>	Illiterate.....1	Bus.....1
Fisherman.....2			Literate, without	Minibus.....2
Casual Laborer (Farm and Non-farm).....3			formal school.....2	Car.....3
Long-Term Agricultural Employee .....4			Some Primary .....3	Jeep.....4
Private Wage Employee....5			Primary Graduate.....4	Pick-Up Truck.....5
Government Wage Employee.....6			Some Secondary.....5	Motorcycle.....6
Small Business Owner.....7			High School Graduate....6	2 Axle Truck.....7
Large Business Owner.....8			Diploma.....7	3 Axle Truck .....8
Skilled Trade (Electrician, Plumber, etc.).....9			Some University.....8	Tractor Trailer.....9
Armed Services.....10			University Grad.....9	Other (Specify.....).....10
Unemployed .....11			Some Post-Grad.....10	Refuse to
Student.....12				

Homemaker/Child Care.....13				MA/MS/ Law.....11	Answer.....-999
Retired/Too Old .....14				Medical Doctor.....12	<b>[Do Not Read]</b>
Disabled/Handicapped .....15				PhD.....13	
Other (Specify.....).....16				Other (Specify.....).....14	
Refuse to Answer.....-999				Refuse to	
<b>[Do Not Read]</b>				Answer.....-999	
				<b>[Do Not Read]</b>	
<b>a. Description of Activities</b>	<b>b. Code</b>				
		<b>Enter Code:</b>		<b>Enter Code:</b>	<b>Enter Code:</b>

**II. TRAVEL DESTINATION TODAY**

[Please say: “Now, I am going to ask you a few questions about your travel destination today.”]

<p><b>6. In which city did your travel originate? [Read List]</b></p> <p>Juba.....1                  Lolubo.....2                  Aru.....3                  Kit One.....4                  Moli .....5                  Kerepi.....6                  Pageri.....7                  Loa.....8                  Nimule.....9                  Opari .....10                  Kampala.....11                  Nairobi.....12                  Other South Sudan                  (Specify.....).....13                  Other Uganda                  (Specify.....).....14                  Other Kenya                  (Specify.....).....15                  Other (Specify.....)                  Refuse to Answer.....-999  <b>[Do Not Read]</b></p>	<p><b>7. Which is your destination city? [Read List]</b></p> <p>Juba.....1                  Lolubo.....2                  Aru.....3                  Kit One.....4                  Moli .....5                  Kerepi.....6                  Pageri.....7                  Loa.....8                  Nimule.....9                  Opari .....10                  Kampala.....11                  Nairobi.....12                  Other South Sudan                  (Specify.....).....13                  Other Uganda                  (Specify.....).....14                  Other Kenya                  (Specify.....).....15                  Other (Specify.....)                  Refuse to Answer.....-999  <b>[Do Not Read]</b></p>	<p><b>8. What is the purpose of your travel today? [Read List]</b></p> <p>Daily Work.....1                  Business trip.....2                  School.....3                  Shopping.....4                  Doctor’s Visit.....5                  Family visit.....6                  Other (Specify.....).....7                  Refuse to Answer.....-999  <b>[Do Not Read]</b></p>	<p><b>9. How much time does it take for you to go from your city of origin to your destination city?(One-Way)</b></p> <p><b>[Enter Days, Hours and Minutes]</b></p>			<p><b>10. Did you purchase your far one-way round trip? One Way... Round Trip... Refuse to Answer... 999 [Do Not Read]</b></p>
<p><b>Enter Code:</b></p>	<p><b>Enter Code:</b></p>	<p><b>Enter Code:</b></p>	<p><b>a. Days</b></p>	<p><b>b. Hours</b></p>	<p><b>c. Minutes</b></p>	<p><b>Enter Code:</b></p>

**SISP Juba-Nimule Road Baseline Survey: Vehicle Operator Module**

<p><b>A.1</b></p>	<p><b>Village/ City Identification</b></p>	
<p><b>A.2</b></p>	<p><b>Payam Identification</b></p>	

<b>A.3</b>	<b>KM Along the Road</b>			
<b>A.4</b>	<b>Survey Number</b>			

<b>B. FIELD TEAM</b>					
		<b>Name</b>	<b>Signature</b>	<b>Date (M/D/Y)</b>	<b>ID Code</b>
<b>B.1</b>	Enumerator				
<b>B.2</b>	Survey Manager				
<b>B.3</b>	Data Entry				

<b>C. INTERVIEW TIME</b>			
	<b>a. Date (M/D/Y)</b>	<b>b. Time START</b>	<b>c. Time END</b>
<b>C1</b>			

At this point, please begin the survey by saying: *“Good Afternoon, my name is \_\_\_\_\_. I am from the company that is constructing the Juba-Nimule Road, which is funded by the United States Agency for International Development in cooperation with the GOSS Ministry of Roads and Transport. As part of this project, we are conducting this survey, with the permission of the Payam leaders that asks important questions about how the current condition of the road affects citizens like you. The purpose of this survey is to collect information about how transport time and transport costs affect drivers like you.*

*Please be aware that this survey is not connected to the South Sudan Census. Participation in this survey is completely voluntary and all information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you directly. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey?* [If asked, this survey will take approximately 10 minutes.]

*May I begin now?*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview, But fill out PART E]

ENTER CODE

**D. RESPONDENT IDENTIFICATION**

<b>D1. Respondent Name</b>		
<b>D2. Respondent Village/City/Town</b>	<b>D3. Respondent Payam</b>	
	<b>D4. Language of Interview</b>	

<b>E. NON RESPONSIVE IDENTIFICATION (Skip if the Respondent agrees to interview)</b>	
<b>E1. Gender</b>          <p style="text-align: center;"><b>[Enter Gender. Do Not Ask]</b></p> Male .....1 Female.....2	<b>E2. Vehicle</b>          <p style="text-align: center;"><b>[Enter Vehicle. Do Not Ask]</b></p> Bus.....1 Minibus.....2 Car.....3 Jeep.....4 Pick-Up Truck.....5

	Motorcycle.....6 2 Axle Truck.....7 3 Axle Truck .....8 Tractor Trailer.....9 Other (Specify_____)...10
<b>ENTER CODE:</b>	<b>ENTER CODE:</b>

**I. TYPE OF VEHICLE OPERATOR**

[Please say: “*First, I would like to ask you about the purpose of your travel today. This will help me determine the appropriate questions to ask.*”]

1. What is the overall purpose of your transport today? [Note: Any drivers who are transporting goods for their own consumption or transporting passengers free of charge should be considered in the “personal/business travelers.”]

Personal/business travel

(business, work, family visit, appointment).....1 [GO TO→ PERSONAL

TRAVEL SECTION, PAGE 5]

Commercial transport

(goods, supplies and/or equipment).....2 [GO TO→COMMERCIAL

TRAVEL SECTION, PAGE 10]

Paid Passenger Transport

(bus transport, taxis, company cars/trucks).....3 [GO TO→ PAID PASSENGER

[TRAVEL SECTION, PAGE 15]

ENTER CODE



**SECTION 1: PERSONAL TRAVEL**

**I. BASIC PERSONAL INFORMATION**

[Please say: “*Now I would like to ask some basic questions about you.*”]

2. What is your occupation? <b>[Do Not Read List. Enter code to the right and a short description to the left.]</b>	3. Gender	4. How old are you?	5. What is your level of education? <b>[Read List]</b>	6. Which type of vehicle are you driving today? <b>[Only read list if not obvious]</b>
	<b>[Enter Gender. Do Not Ask]</b>	<b>[Enter Age in Years]</b>		
Farmer/ Pastoralist.....1			Illiterate.....1	Bus.....1
Fisherman.....2			Literate, without formal school.....2	Minibus.....2
Casual Laborer (Farm and Non-farm).....3	Male .....1		Some Primary .....3	Car.....3
Long-Term Agricultural Employee .....4	Female.....2		Primary Graduate.....4	Jeep.....4
Private Wage Employee.....5			Some Secondary.....5	Pick-Up Truck.....5
Government Wage Employee.....6			High School Graduate.....6	Motorcycle.....6
Small Business Owner.....7			Diploma.....7	2 Axle Truck.....7
Large Business Owner.....8			Some University.....8	3 Axle Truck .....8
Skilled Trade (Electrician, Plumber, etc.).....9			University Grad.....9	Tractor Trailer.....9
Armed Services.....10			Some Post-Grad.....10	Other (Specify.....).....10
Unemployed .....11			MA/MS/ Law.....11	Don't Know.....-777
Student.....12			Medical Doctor.....12	<b>[Do Not Read]</b>
Homemaker/Child Care.....13			PhD.....13	Refuse to Answer.....-999
Retired/Too Old .....14		26	Other (Specify.....).....14	<b>[Do Not Read]</b>
Disabled/Handicapped .....15				
Other (Specify.....).....16				

<b>Description of Occupation</b>	<b>Code</b>				
		<b>ENTER CODE</b>		<b>ENTER CODE</b>	<b>ENTER CODE</b>

**II. PERSONAL/BUSINESS TRAVEL TODAY**

[Please say: “Now, I am going to ask you a few questions about your travel today.”]

<p><b>7. In which city did your travel originate? [Read List]</b></p> <p>Juba.....1</p> <p>Lolubo.....2</p> <p>Aru.....3</p> <p>Kit One.....4</p> <p>Moli .....5</p> <p>Kerepi.....6</p> <p>Pageri.....7</p> <p>Loa.....8</p> <p>Nimule.....9</p> <p>Opari .....10</p>	<p><b>8. What is your destination city? [Read List]</b></p> <p>Juba.....1</p> <p>Lolubo.....2</p> <p>Aru.....3</p> <p>Kit One.....4</p> <p>Moli .....5</p> <p>Kerepi.....6</p> <p>Pageri.....7</p> <p>Loa.....8</p> <p>Nimule.....9</p> <p>Opari .....10</p>	<p><b>9. What is the purpose of your travel today? [Read List]</b></p> <p>Daily Work.....1</p> <p>Business trip.....2</p> <p>To find</p> <p>    Employment.....3</p> <p>School.....4</p> <p>Shopping.....5</p> <p>Doctor’s Visit.....6</p> <p>Family visit.....7</p>	<p><b>10. Are you going one way or round trip today?</b></p> <p>One</p> <p>    Way.....1</p> <p>Round</p> <p>    Trip.....2</p> <p>Refuse to</p> <p>    Answer.....-</p> <p>    999</p> <p><b>[Do Not</b></p>	<p><b>11. How much time does it take for you to go from your city of origin to your destination city?</b></p> <p><b>[Enter Days, Hours and Minutes]</b></p>	<p><b>12. How much time does it take for you to go you’re your destination city back to your city of origin?</b></p> <p><b>[Skip this question if the trip is ONE-WAY]</b></p> <p><b>[Enter Days, Hours and Minutes]</b></p>
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Kampala.....11 Nairobi.....12 Other South Sudan (Specify.....).....13 Other Uganda (Specify.....).....14 Other Kenya (Specify.....).....15 Other (Specify.....) Refuse to Answer.....-999 <b>[Do Not Read]</b>	Kampala.....11 Nairobi.....12 Other South Sudan (Specify.....).....13 Other Uganda (Specify.....).....14 Other Kenya (Specify.....).....15 Other (Specify.....) Refuse to Answer.....-999 <b>[Do Not Read]</b>	Driving Someone...8 Other (Specify).....9 Refuse to Answer.....-999 <b>[Do Not Read]</b>	<b>Read]</b>							
				<b>a. Days</b>	<b>b. Hours</b>	<b>c. Minutes</b>	<b>a. Days</b>	<b>b. Hours</b>	<b>c. Minutes</b>	
<b>Enter Code:</b>	<b>Enter Code:</b>	<b>Enter Code:</b>	<b>Enter Code:</b>							





**III. VEHICLE MAINTENANCE**

[Please say: *“Now I would like to ask you some questions about the cost of maintaining your vehicle.”*]

<p><b>16.</b> Do you own this vehicle?</p> <p>Yes.....1 [Skip to→19] No.....2</p> <p>Don't Know.-777</p> <p>Refuse to</p>	<p><b>17.</b> Do you lease the vehicle?</p> <p>Yes.....1 [Skip to→19] No.....2</p> <p>Don't Know.-777</p> <p>Refuse to Answer.-999</p>	<p><b>18.</b> Who owns this vehicle? [Read List]</p> <p>Family member.....1 Friend.....2 Employer (including Government)....3 Other (Specify_)...4 Refuse</p>	<p><b>19.</b> Please tell me how much you spent on repairs and maintenance for this vehicle in the following <b>dry season months.</b></p> <p>[Read Months. Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't Know.....-777 Not Applicable....-888 Refuse to Answer.....-999</p>	<p><b>20.</b> Please tell me how much you spent on repairs and maintenance for this vehicle in the following <b>rainy season months.</b></p> <p>[Read Months. Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't Know.....-777 Not Applicable....-888 Refuse to Answer.....-999</p>	<p><b>21.</b> Please tell me how much you spent on fuel for this vehicle in the following <b>dry season months.</b></p> <p>[Read Months. Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't Know...-777 Not Applicable-888 Refuse to Answer-999</p>	<p><b>22.</b> Please tell me how much you spent on fuel for this vehicle in the following <b>rainy season months.</b></p> <p>[Read Months. Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't Know...-777 Not Applicable-888 Refuse to Answer-999</p>	<p><b>23.</b> Is this vehicle insured?</p> <p>Yes.....1 No.....2 [Skip to → 25]</p> <p>Don't Know...-777 Refuse to Answer.-999</p>	<p><b>24.</b> How much is spent on insurance per 6 months for this vehicle?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't Know.-777 Refuse to Answer.-999</p>
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Answer.-999		to answer-999 [Do Not Read]	a. December 2007	b. November 2007	a. July 2007	b. August 2007	a. December 2007	b. November 2007	a. July 2007	b. August 2007		
<b>ENTER CODE</b>	<b>ENTER CODE</b>	<b>ENTER CODE</b>									<b>ENTER CODE</b>	

**IV. SAFETY QUESTIONS**

[Please say: “*Last, I would to ask you some questions about safety and security along the road.*”]

<p><b>25.</b> Do you ever drive this road at night?</p> <p>Yes.....1</p> <p><b>[Skip to→27]</b></p> <p>No.....2</p> <p>Don't</p>	<p><b>26.</b> What is the primary reason you do not drive at night?</p> <p><b>[Read List]</b></p> <p>Cannot see at night.....1</p> <p>Security (LRA ect.).....2</p> <p>Condition of Road.....3</p> <p>Government Restrictions.....4</p>	<p><b>27.</b> I have heard that vehicles like yours are sometimes stopped on the road to pay charges. Is this true?</p> <p>Yes.....1</p> <p>No.....2</p> <p><b>[Skip to→ END SURVEY]</b></p> <p>Don't</p>	<p><b>28.</b> Are such charges typically official or unofficial?</p> <p>Official.....1</p> <p>Unofficial.....2</p> <p>Both Official and Unofficial.....3</p>	<p><b>29.</b> When vehicles like yours are stopped along the road, how much do they typically pay in fees?</p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings—PLEASE SPECIFY]</b></p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>
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Know.....-777 <b>[Skip to→27]</b>  Refuse to Answer.....-999 <b>[Skip to→27]</b>	Other (Specify_____).....5  Don't Know.....-777  Refuse to Answer.....-999	Know.....-777 <b>[Skip to→ END SURVEY]</b>  Refuse to Answer.....-999 <b>[Skip to→ END SURVEY]</b>	Other (specify_____).....4  Don't Know.....-777 <b>[Skip to→ END SURVEY]</b>  Refuse to Answer.....-999 <b>[Skip to→ END SURVEY]</b>	<b>a. Official Charges</b>	<b>b. Unofficial Charges</b>
<b>ENTER CODE</b>	<b>ENTER CODE</b>	<b>ENTER CODE</b>			

**[This concludes the survey. Thank you for your participation!]**



## SECTION 2: COMMERCIAL TRAVEL

### I. TYPE OF VEHICLE AND FRIEGHT

[Please say: *“First, I would like to ask you a few questions about the type of vehicle you drive and the freight you are carrying”*]

<p><b>2. Which type of vehicle are you driving today?</b> [Only read list if not obvious]</p> <p>Bus.....1 Minibus.....2 Car.....3 Jeep.....4 Pick-Up Truck.....5 Motorcycle.....6 2 Axle Truck.....7 3 Axle Truck .....8 Tractor Trailer.....9 Other (Specify.....).....10 Don't Know,.....-777 Refuse to Answer.....-999</p>	<p><b>3. Please list the primary good you are shipping today. [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give short product description to the left.]</b></p> <p>Agricultural/Ranch Products.....1 Livestock.....2 Packaged Foods.....3 Bottled/Packaged Drinks.....4 Tobacco/Cigarettes.....5 Personal Cleaning Products (soap, shampoo, toothpaste).....6 Household Cleaning Products.....7 Medicines/Pharmaceuticals.....8 Magazines/Books/Newspapers.....9 Batteries.....10 Clothes/Shoes.....11 Charcoal.....12 Kerosene.....13 Diesel.....14 Petroleum.....15 Appliances.....16 Electronics.....17 Furniture.....18</p>	<p><b>4. What is the approximate weight of the goods you are shipping today?</b></p> <p><b>[Enter in Metric Tonnes or KGs]</b></p>	<p><b>5. To the best of your knowledge, what is the approximate value of the goods you are carrying today?</b></p> <p><b>[Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p>
<p>38</p>			

	<b>a. Good</b>	<b>b. Code</b>	<b>a. Weight</b>	<b>b. Tonne or KG</b>	
<b>Enter Code:</b>					

## II. FREIGHT TRAVEL TODAY

[Please say: “Now, I am going to ask you a few questions about your travel today.”]

<p><b>6. In which city did your travel originate? [Read List]</b></p> <p>Juba.....1          Lolubo.....2          Aru.....3          Kit One.....4          Moli .....5          Kerepi.....6          Pageri.....7          Loa.....8          Nimule.....9          Opari .....10</p>	<p><b>7. Which is your destination city? [Read List]</b></p> <p>Juba.....1          Lolubo.....2          Aru.....3          Kit One.....4          Moli .....5          Kerepi.....6          Pageri.....7          Loa.....8          Nimule.....9          Opari .....10</p>	<p><b>8. Are you going one way or round trip?</b></p> <p>One          Way.....1          Round          Trip.....2          Refuse to          Answer.....-999  <b>[Do Not Read]</b></p>	<p><b>9. How much time does it take for you to go from your city of origin to your destination city?</b></p> <p><b>[Enter Days, Hours and Minutes]</b></p>	<p><b>10. How much time does it take you to go from your destination city back to your origin city?</b></p> <p><b>[Skip this question if the trip is ONE-WAY].</b></p> <p><b>[Enter Days, Hours and Minutes]</b></p>
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Kampala.....11	Kampala.....11							
Nairobi.....12	Nairobi.....12							
Other South Sudan (Specify.....).....13	Other South Sudan (Specify.....).....13							
Other Uganda (Specify.....).....14	Other Uganda (Specify.....).....14							
Other Kenya (Specify.....).....15	Other Kenya (Specify.....).....15							
Other (Specify.....)....16	Other (Specify.....)....16							
Refuse to Answer.....-999	Refuse to Answer.....-999							
<b>[Do Not Read]</b>	<b>[Do Not Read]</b>		<b>a. Days</b>	<b>b. Hours</b>	<b>c. Minutes</b>	<b>a. Days</b>	<b>b. Hours</b>	<b>c. Minutes</b>
<b>Enter Code:</b>	<b>Enter Code:</b>	<b>Enter Code:</b>						

<p><b>11.</b> How much will you spend on <b>fuel</b> from your <b>origin city to your destination city?</b></p> <p><b>[Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>	<p><b>12.</b> How much will you spend on <b>fuel</b> from <b>your destination city back to your origin city?</b> <b>[Skip this question if the trip is ONE-WAY]</b></p> <p><b>[Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>	<p><b>13.</b> What is approximate price of fuel per liter you will pay?</p> <p><b>[Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>



### III. FREIGHT VEHICLE MAINTENANCE

[Please say: “Now I would like to ask you some questions about the cost of maintaining your vehicle.”]

<p><b>14. Do you own this vehicle?</b></p> <p>Yes.....1  <b>[Skip to→17]</b>          No.....2</p>	<p><b>15. Do you lease the vehicle?</b></p> <p>Yes.....1  <b>[Skip to→17]</b>          No.....2</p>	<p><b>16. Who owns this vehicle? [Read List]</b></p> <p>Family member.....1          Friend.....2          Employer (including Government)...3          Other (Specify_)...4          Refuse to answer-999</p>	<p><b>17. Please tell me how much you spent on repairs and maintenance for this vehicle in the following dry season months.</b></p> <p><b>[Read Months. Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don’t Know.....-777          Not Applicable...-888          Refuse to Answer.....-999</p>	<p><b>18. Please tell me how much you spent on repairs and maintenance for this vehicle in the following rainy season months.</b></p> <p><b>[Read Months. Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don’t Know.....-777          Not Applicable...-888          Refuse to Answer.....-999</p>	<p><b>19. Please tell me how much you spent on fuel for this vehicle in the following dry season months.</b></p> <p><b>[Read Months. Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don’t Know...-777          Not Applicable-888          Refuse to Answer-999</p>	<p><b>20. Please tell me how much you spent on fuel for this vehicle in the following rainy season months.</b></p> <p><b>[Read Months. Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don’t Know...-777          Not Applicable-888          Refuse to Answer-999</p>	<p><b>21. Is this vehicle insured?</b></p> <p>Yes.....1          No.....2  <b>[Skip to →23]]</b>          Don’t Know...-777          Refuse to Answer.-999</p>	<p><b>22. How much is spent on insurance per 6 months for this vehicle?</b></p> <p><b>[Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don’t Know.-777          Refuse to</p>
--	---	--	---	---	--	--	--	---

		[Do Not Read]	a. December 2007	b. November 2007	a. July 2007	b. August 2007	a. December 2007	b. November 2007	a. July 2007	b. August 2007		Answer.-999
Enter Code:	Enter Code:	Enter Code:									Enter Code:	

**IV. SAFETY QUESTIONS**

[Please say: “*Last, I would to ask you some questions about safety and security along the road.*”]

<p><b>23.</b> Do you ever drive this road at night?</p> <p>Yes.....1</p> <p><b>[Skip to→25]</b></p> <p>No.....2</p> <p>Don't</p>	<p><b>24.</b> What is the primary reason you do not drive at night?</p> <p><b>[Read List]</b></p> <p>Cannot see at night.....1</p> <p>Security (LRA ect.).....2</p> <p>Condition of Road.....3</p> <p>Government Restrictions.....4</p>	<p><b>25.</b> I have heard that vehicles like yours are sometimes stopped on the road to pay charges. Is this true?</p> <p>Yes.....1</p> <p>No.....2</p> <p><b>[Skip to→ END SURVEY]</b></p> <p>Don't</p>	<p><b>26.</b> Are such charges typically official or unofficial?</p> <p>Official.....1</p> <p>Unofficial.....2</p> <p>Both Official and Unofficial.....3</p>	<p><b>27.</b> When vehicles like yours are stopped along the road, how much do they typically pay in fees?</p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings—PLEASE SPECIFY]</b></p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>
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Know.....-777 <b>[Skip to→25]</b>  Refuse to Answer.....-999 <b>[Skip to→25]</b>	Other (Specify_____).....5  Don't Know.....-777  Refuse to Answer.....-999	Know.....-777 <b>[Skip to→ END SURVEY]</b>  Refuse to Answer.....-999 <b>[Skip to→ END SURVEY]</b>	Other (specify_____).....4  Don't Know.....-777 <b>[Skip to→ END SURVEY]</b>  Refuse to Answer.....-999 <b>[Skip to→ END SURVEY]</b>	<b>a. Official Charges</b>	<b>b. Unofficial Charges</b>
<b>ENTER CODE</b>	<b>ENTER CODE</b>	<b>ENTER CODE</b>			

**[This concludes the survey. Thank you for your participation!]**



**SECTION 3: PAID PASSENGER TRAVEL**

**I. PAID PASSENGER TRAVEL TODAY**

[Please say: “Now, I am going to ask you a few questions about your vehicle and passengers.”]

<p><b>2. Which type of vehicle are you driving today?</b>  <b>[Only read list if not obvious]</b></p> <p>Bus.....1          Minibus.....2          Car.....3          Jeep.....4          Pick-Up Truck.....5          Motorcycle.....6          2 Axle Truck.....7          3 Axle Truck .....8          Tractor Trailer.....9          Other (Specify.....).....10</p>	<p><b>3. What is the maximum number of passengers your vehicle seats?</b></p> <p align="center"><b>[Enter Number of Passengers]</b></p>	<p><b>4. On this trip, do you think you will have the maximum number of passengers?</b></p> <p>Yes.....1  <b>[Skip to→6]</b>          No.....2          Don't          Know.....-777  <b>[Skip to→6]</b>          Refuse to          Answer.....-999</p>	<p><b>5. How many do you think will be on this trip when the vehicle is at its fullest?</b></p> <p align="center"><b>[Enter Number of Passengers]</b></p>
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Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer.....-999 <b>[Do Not Read]</b>		<b>[Skip to→6]</b>	
<b>ENTER CODE</b>		<b>ENTER CODE</b>	

**II. PAID PASSERNGER TRAVEL TODAY**

[Please say: “Now, I am going to ask you a few questions about your travel today.”]

<p><b>6. In which city did your travel originate? [Read List]</b></p> <p>Juba.....1</p> <p>Lolubo.....2</p> <p>Aru.....3</p> <p>Kit One.....4</p> <p>Moli .....5</p> <p>Kerepi.....6</p> <p>Pageri.....7</p> <p>Loa.....8</p> <p>Nimule.....9</p> <p>Opari .....10</p>	<p><b>7. Which is your destination city? [Read List]</b></p> <p>Juba.....1</p> <p>Lolubo.....2</p> <p>Aru.....3</p> <p>Kit One.....4</p> <p>Moli .....5</p> <p>Kerepi.....6</p> <p>Pageri.....7</p> <p>Loa.....8</p> <p>Nimule.....9</p> <p>Opari .....10</p>	<p><b>8. Are you going one way or round trip?</b></p> <p>One</p> <p>Way.....1</p> <p>Round</p> <p>Trip.....2</p> <p>Refuse to</p> <p>Answer.....-999</p> <p><b>[Do Not Read]</b></p>	<p><b>9. How much time does it take for you to go from your city of origin to your destination city?</b></p> <p><b>[Enter Days, Hours and Minutes]</b></p>	<p><b>10. How much time does it take you to go from your destination city back to your origin city?</b></p> <p><b>[Skip this question if the trip is ONE-WAY].</b></p> <p><b>[Enter Days, Hours and Minutes]</b></p>
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Kampala.....11	Kampala.....11							
Nairobi.....12	Nairobi.....12							
Other South Sudan (Specify.....).....13	Other South Sudan (Specify.....).....13							
Other Uganda (Specify.....).....14	Other Uganda (Specify.....).....14							
Other Kenya (Specify.....).....15	Other Kenya (Specify.....).....15							
Other (Specify.....)....16	Other (Specify.....)....16							
Refuse to Answer.....-999	Refuse to Answer.....-999							
<b>[Do Not Read]</b>	<b>[Do Not Read]</b>		<b>a. Days</b>	<b>b. Hours</b>	<b>c. Minutes</b>	<b>a. Days</b>	<b>b. Hours</b>	<b>c. Minutes</b>
<b>Enter Code:</b>	<b>Enter Code:</b>	<b>Enter Code:</b>						

<p><b>11. How much is the total fare from the origin city to the final destination city?</b></p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>	<p><b>12. How much is the round-trip fare? [Skip this question if the trip is ONE-WAY]</b></p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>	<p><b>13. How much will you spend on fuel from your origin city to your destination city?</b></p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>	<p><b>14. How much will you spend on fuel from your destination city back to your origin city? [Skip this question if the trip is ONE-WAY]</b></p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>	<p><b>15. What is approximate price of fuel per liter you will pay?</b></p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>
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### III. VEHICLE MAINTENANCE COSTS

[Please say: *“Now I would like to ask you some questions about the cost of maintaining your vehicle.”*]

<p><b>16.</b> Do you own this vehicle?</p> <p>Yes.....1  <b>[Skip to→19]</b>          No.....2</p>	<p><b>17.</b> Do you lease the vehicle?</p> <p>Yes.....1  <b>[Skip to→19]</b>          No.....2</p>	<p><b>18.</b> Who owns this vehicle?  <b>[Read List]</b></p> <p>Family member.....1          Friend.....2          Employer (including Government)...3          Other (Specify_)...4          Refuse to answer-999</p>	<p><b>19.</b> Please tell me how much you spent on repairs and maintenance for this vehicle in the following <b>dry season months.</b></p> <p><b>[Read Months. Enter in Pounds]</b></p> <p>Don't Know.....-777          Not Applicable....-888          Refuse to Answer.....-999</p>	<p><b>20.</b> Please tell me how much you spent on repairs and maintenance for this vehicle in the following <b>rainy season months.</b></p> <p><b>[Read Months. Enter in Pounds]</b></p> <p>Don't Know.....-777          Not Applicable....-888          Refuse to Answer.....-999</p>	<p><b>21.</b> Please tell me how much you spent on fuel for this vehicle in the following <b>dry season months.</b></p> <p><b>[Read Months. Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don't Know...-777          Not Applicable-888          Refuse to Answer-999</p>	<p><b>22.</b> Please tell me how much you spent on fuel for this vehicle in the following <b>rainy season months.</b></p> <p><b>[Read Months. Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don't Know...-777          Not Applicable-888          Refuse to Answer-999</p>	<p><b>23.</b> Is this vehicle insured?</p> <p>Yes.....1          No.....2  <b>[Skip to → END SURVEY]</b></p>	<p><b>24.</b> How much is spent on insurance per month for this vehicle?</p> <p><b>[Enter in Pounds or Shillings – PLEASE SPECIFY]</b></p> <p>Don't Know.-777          Refuse to Answer.-999</p>
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		[Do Not Read]	a. December 2007	b. November 2007	a. July 2007	b. August 2007	a. December 2007	b. November 2007	a. July 2007	b. August 2007		
Enter Code:	Enter Code:	Enter Code:									Enter Code:	

**IV. SAFETY QUESTIONS**

[Please say: *“Last, I would to ask you some questions about safety and security along the road.”*]

<p><b>25. Do you ever drive this road at night?</b></p> <p>Yes.....1</p> <p><b>[Skip to→27]</b></p> <p>No.....2</p> <p>Don't</p>	<p><b>26. What is the primary reason you do not drive at night?</b></p> <p><b>[Read List]</b></p> <p>Cannot see at night.....1</p> <p>Security (LRA ect.).....2</p> <p>Condition of Road.....3</p> <p>Government Restrictions.....4</p>	<p><b>27. I have heard that vehicles like yours are sometimes stopped on the road to pay charges. Is this true?</b></p> <p>Yes.....1</p> <p>No.....2</p> <p><b>[Skip to→ END SURVEY]</b></p> <p>Don't</p>	<p><b>28. Are such charges typically official or unofficial?</b></p> <p>Official.....1</p> <p>Unofficial.....2</p> <p>Both Official and Unofficial.....3</p>	<p><b>29. When vehicles like yours are stopped along the road, how much do they typically pay in fees?</b></p> <p><b>[Enter in Sudanese Pounds or Ugandan Shillings—PLEASE SPECIFY]</b></p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>
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<p>Know.....-777</p> <p><b>[Skip to→27]</b></p> <p>Refuse to</p> <p>Answer.....-999</p> <p><b>[Skip to→27]</b></p>	<p>Other (Specify.....).....5</p> <p>Don't</p> <p>Know.....-777</p> <p>Refuse to</p> <p>Answer.....-999</p>	<p>Know.....-777</p> <p><b>[Skip to→ END SURVEY]</b></p> <p>Refuse to</p> <p>Answer.....-999</p> <p><b>[Skip to→ END SURVEY]</b></p>	<p>Other</p> <p>(specify.....).....4</p> <p>Don't Know.....-777</p> <p><b>[Skip to→ END SURVEY]</b></p> <p>Refuse to Answer.....-999</p> <p><b>[Skip to→ END SURVEY]</b></p>	<p><b>a. Official Charges</b></p>	<p><b>b. Unofficial Charges</b></p>
<p><b>ENTER CODE</b></p>	<p><b>ENTER CODE</b></p>	<p><b>ENTER CODE</b></p>			

# SISP Juba-Nimule Road Baseline Survey: Juba-Based Freight Company Interview Protocol

A.1	Freight Company			
A.2	Payam in Juba			
A.3	Survey Number			

**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

<b>D. INTERVIEW REPLACEMENT</b>

			Code
<b>D1</b>	This is a replacement business?	Yes.....1	
		No.....2	

[At this point, please begin the interview by saying: *“Good Afternoon, my name is \_\_\_\_\_. I am from the company that is constructing the Juba-Nimule Road, which is funded by the United States Agency for International Development in conjunction with the GOSS Ministry of Transport. We are conducting an interview about how the road affects businesses like yours. Therefore, I would like to speak to the owner of this business or the person that usually runs this business.*

[DETERMINE RESPONDENT]

*The purpose of this interview is to collect information about how transport time and transport costs affect your business as well as the price of goods. The results will be used to better understand how improved transportation infrastructure can improve businesses like yours.*

*Please be aware that this interview is not connected to the South Sudan Census. Participation in this interview is completely voluntary and all business information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you or your business. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don't want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey?* [If asked, the survey will take about 30 minutes.]

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>E. RESPONDENT IDENTIFICATION</b>	
<b>E1. Respondent Name:</b>	<b>E2. Title:</b>
<b>E3. Job Description</b>	
<b>E4. Language of Survey</b>	

## I. YOUR BUSINESS

[Please say: *“First, I will ask you some basic information about what your business”*]

1. First, please tell me about how your business operates.

2. Where is your business headquartered?

3. How long has your business been shipping to Juba?

4a. How many vehicles are in your fleet in total?

4b. How many ship to South Sudan?

5a. How many drivers do you employ in total?

5b. How many do you employ in South Sudan?

6a. Do any of your drivers own their own trucks (outside of your fleet)? **[If NO, Skip To→7a]**

6b. How many?

7a. Can you please tell a little bit about the cargo that you typically ship?

7b. What kind of food and agricultural products to you typically ship? [**Code -888 if Not Applicable**]

7c. What kinds of dry goods do you typically ship? [**Code -888 if Not Applicable**]

7d. What other kinds of goods that you typically ship?

8a. Typically, in which countries do your ground shipments originate?

8b. Which cities within \_\_\_\_\_?

9a. Which roads do you use most frequently use for shipping goods?

9b. Out of these, which road do you consider the most important?

10a. Do you ever use the Juba-Nimule Road? **[IF he/she already mentioned this road above, just put “YES” here and GO TO→10b. If the answer is “NO”, GO TO→11a]**

10b. How often?

10c. If the road were improved (for example, the bridges were repaired and the road were paved) would you use the Juba-Nimule Road more?

11a. Why don't you use the Juba-Nimule Road? **[DO NOT ASK THIS QUESTION IF THE RESPONDENT ANSWERED THE ONE ABOVE]**

11b. If the road were improved (for example, the bridges were repaired and the road were paved) would you use the Juba-Nimule Road?

## II. ROAD TRAVEL

PLEASE ASK THESE QUESTIONS ABOUT BOTH THE MOST IMPORTANT ROAD TRAVELED AND THE JUBA-NIMULE ROAD. IF THE RESPONDENT MENTIONED THAT THE JUBA NIMULE ROAD WAS THE MOST IMPORTANT ROAD TRAVELED, PLEASE ASK ABOUT THE SECOND MOST IMPORTANT ROAD. IF THE RESPONDENT DOES NOT TRAVEL THE JUBA-NIMULE ROAD, JUST ASK ABOUT THE MOST IMPORTANT ROAD. Please say: *“Now I would like to ask you specific questions about the roads you travel.”* ]

12a. In a typical dry season month, how many of your vehicles travel the down the Juba-Nimule road?

12b. The most important road\_\_\_\_\_?

13a. What type of vehicle do you use for shipping your goods down the Juba- Nimule road during the dry season? **[Read List]**

- 1) Car or jeep
- 2) Bus
- 3) Minibus
- 4) Truck (2axle)
- 5) Truck (3 axle)
- 6) Tractor Trailer
- 7) Other (Specify\_\_\_\_\_)

13b. The most important road? **[Re-Read List]**

14a. How many tons of freight do you send on a typical trip down the Juba-Nimule road during the dry season?

14b. The most important road?

15a. Do road conditions affect the fees you pay/charge during the dry season?

15b. The most important road?

16a. When you price a shipment during the dry season, what are the major elements of the price?

16b. The most important road?

17a. Can you please elaborate more about the cost structure during the dry season for

various kinds of vehicles and containers on the Juba-Nimule Road?

17b. The most important road?

18a. In a typical rainy season month, how many of your vehicles travel the down the Juba-Nimule road?

18b. The most important road?

19a. What type of vehicle do you typically use for shipping your goods down the Juba-Nimule road during the rainy season? **[REAS LIST]**

- 1) Car or jeep
- 2) Bus
- 3) Minibus
- 4) Truck (2axle)
- 5) Truck (3 axle)
- 6) Tractor Trailer
- 7) Other (Specify\_\_\_\_\_)

19b. The most important road? **[RE-READ LIST]**

20a. How many tons of freight do you send on a typical trip down the Juba-Nimule road during the rainy season?

20b. The most important road?

21a. Do road conditions affect the fees you pay/charge during the rainy season? How?

21b. The most important road?

22a. When you price a shipment during the rainy season, what are the major elements of the price for the Juba-Nimule Road?

22b. The most important road?

23a. Can you please elaborate more about the cost structure during the rainy season for various kinds of vehicles and containers on the Juba-Nimule Road?

23b. The most important road?

### III. FREIGHT MARKET OVERVIEW

[Please say: *“Now I am going to ask you a little about the overall freight market in South Sudan.”*]

24a. Are there any (non-market) controls on freight rates in South Sudan? [If “No”, Go To → 25A]

24b. Specifically, are they controlled:

1. By few freight companies or truck owners?
2. By shippers associations?
3. By the government?

24c. Can you elaborate on these controls?

25a. To the best of your knowledge, how many freight companies like yours operate in South Sudan?

25b. Which firms do you consider are your major competitors?

26a. In your opinion, how would an improved Juba-Nimule road affect the freight industry in South Sudan?

26b. In your opinion, how would an improved Juba-Nimule road affect the economy of South Sudan?

27. Is there anything else you would like to share with me or ask me?

**[This concludes our interview. Thank you for participation!]**

**PROMPTS FOR INTERVIEWERS**

While some questions on this interview protocol are meant to elicit specific information (i.e. any questions that ask for quantities or numbers), semi-structured interviews are meant to be much more of an open-ended conversation with respondents than quantitative surveys. The idea behind this is that we would like to get a more nuanced, detailed picture of some of the major companies that use the road. Thus, interviewers are encouraged to ask follow-on questions to elicit more information from community leaders. Below are some potential prompts to help you explore open-ended questions further.

### Clarifying Prompts

- Can you clarify that for me? I do not quite understand.
- So, let me repeat that back to you:\_\_\_\_\_. Do I have that right?

### Elaboration Prompts

- Can you please explain that in more detail?
- That is very interesting, can you elaborate on that?
- Can you please give me a bit more background information on that?

### “Reigning-In” Prompts

- That’s an interesting point, but I would like to get back to\_\_\_\_\_.
- Can we return to back to your earlier point about\_\_\_\_\_?

### Standard Follow-On Prompts

- Who?
- What?
- Where?
- Why?
- How?

This list is by no means exhaustive. So please do not be afraid to probe further and ask interesting questions follow-ups based on what the interviewer tells you.

## **SISP Juba-Nimule Road Baseline Survey: Demographic Settlement Module**

<b>A.1</b>	<b>Village/ City Identification</b>			
<b>A.2</b>	<b>Payam Identification</b>			
<b>A.3</b>	<b>KM Along the Road</b>			
<b>A.4</b>	<b>Survey Number</b>			

**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

[At this point, please begin the interview by saying: *“Good Afternoon, my name is\_\_\_\_\_ . I am from the company that is constructing the Juba Nimule Road, which is funded by the United States Agency for International Development in cooperation with the GOSS Ministry of Transport. I am conducting this survey to learn about how the road affects your community with the permission of the Payam Leaders in this area. Therefore, I would like to speak to the chief of this Village/Payam [IN JUBA ASK FOR THE PAYAM DIRECTOR, ON THE ROAD ASK FOR THE VILLAGE CHIEF] or the person who usually runs things when he/she is away.*

[DETERMINE RESPONDENT]

*The purpose of this interview is to collect information about 1) the demographic picture of your community; 2) the resources in your community; and 3) access to transportation in your community. The results will be used to better understand how improved transportation infrastructure impacts communities like yours.*

*Please be aware that this survey is not connected to the South Sudan Census. Participation in this survey is completely voluntary and all community information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you or your community. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don't want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.*

*At this time, do you want to ask me anything about the survey? [If asked, this survey will take approximately 30 minutes.]*

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>D. RESPONDENT IDENTIFICATION</b>	
<b>D1. Respondent Name</b>	<b>D2. Title:</b>
<b>D3. Location [Describe location in relation to section area]:</b>	
<b>D4. Language of Interview</b>	

**II. BASIC COMMUNITY INFORMATION**

[Please say: *“First, I would like to ask you some basic questions about your community.”*]

1. What do you consider the boundaries of this Village/Payam? **[PLEASE ASK FOR PAYAM IN JUBA AND NIMULE. Please write a brief description below.]**

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2. To the best of your knowledge, what is the population of this Village/Payam?

**ENTER POPULATION**

3. In the past 6 months, have any returnees settled in your Village/Payam?

Yes.....1

No..... 2 **[Skip to→5]**

**ENTER CODE**

4. In a typical month, how many returnees settle in your Village/Payam?

**ENTER NUMBER OF  
RETURNEES**

**III. COMMUNITY INSTITUTIONS AND RESOURCES**

[Please say: *“Now I am going to ask you some questions about the institutions and resources in your community.”*]

5. Are there any postal offices in your Village/Payam?

Yes.....1

No..... 2 [Skip to→7]

**ENTER CODE**

6. How many postal offices are in your Village/Payam?

**ENTER NUMBER**

7. Are there any petrol and/or diesel pumps in your Village/Payam?

Yes.....1

No..... 2 [Skip to→9]

**ENTER CODE**

8. How many petrol and/or diesel stations are in your Village/Payam?

**ENTER NUMBER**

**IV. COMMUNITY WATER RESOURCES**

**[Please say: “Now I would like to ask you some questions about the water resources in this community.”]**

<p><b>9.</b> Please list the primary sources of water for your village/payam in order of importance (up to five). <b>[DO NOT READ LIST. Let respondent give description. Enter category code to the right and give a short description to the left.]</b></p> <p>Household Tap.....1                  Public Tap.....2                  Borehole.....3                  Well.....4                  Tubewell/Handpump .....5                  Still Open Water (Lake, Pond, Reservoir) .....6                  Open Running Water (River, Canal).....7                  Water Truck.....8                  Water Tank .....9                  Other (Specify_____)......10                  Don't Know.....-777  <b>[Do Not Read] [Skip to→15]</b>                  Refuse to Answer.....-999  <b>[Do Not Read] [Skip to→15]</b></p>		<p><b>10.</b> To the best of your knowledge, how many people in your village/payam use [SOURCE]?</p> <p><b>[Enter Number of People]</b></p>		<p><b>11.</b> How does a typical person in your village/payam get to [SOURCE]? <b>[READ LIST]</b></p> <p>On Foot.....1                  Bicycle.....2                  Own Car.....3                  Borrowed Car.....4                  Flagged Down Car.....5                  Hired Car.....6                  Own Motorcycle.....7                  Borrowed Motorcycle.....8                  Flagged Down Moto.....9                  Hired Motorcycle.....10                  Public Bus.....11                  Private Bus.....12                  It is delivered.....13                  Other (Specify_____)......14                  Don't Know.....-777  <b>[Do Not Read]</b>                  Refuse to Answer.....-999  <b>[Do Not Read]</b></p>		<p><b>12.</b> How far must the typical person in your village/payam travel to get to [SOURCE]?</p> <p><b>[Enter in Meters or Kilometers. PLEASE SPECIFY.]</b></p> <p>Don't Know.....-777                  Not Applicable.....-888                  Refuse to Answer.....-999</p>		<p><b>13.</b> Do people pay for water from [SOURCE]?</p> <p>Yes.....1                  No.....2  <b>[Skip to→15]</b>                  Don't Know.....-777  <b>[Skip to→15]</b>                  Refuse to Answer...-999  <b>[Skip to→15]</b></p>		<p><b>14.</b> How much do people typically pay for water from [SOURCE]?</p> <p><b>[Enter in Pounds or Shillings. Please Specify]</b></p> <p><b>[UNIT CODE FOR WATER PAYMENT BELOW]</b></p>	
<b>a. Source</b>	<b>b. Code</b>			<b>a. Distance</b>	<b>b. Meters or KM</b>			<b>a. SP or US</b>	<b>b. Code (Below)</b>		
1.											
2.											
3.											
4.											
5.											

<b>UNIT CODE FOR WATER (Question 14)</b>	
Jerry Can.....1	Weekly.....4
Drum.....2	Daily.....5
Monthly.....3	

**V. COMMUNITY HEALTH FACILITIES**

**[Please say: “Next, I am going to ask you about health facilities available to your community.”]**

<p><b>17.</b> Please list the primary health care facilities and/or sources for health treatment for people in your community (up to five). <b>[DO NOT READ LIST. Let respondent give description. Enter category code to the right and give a short description to the left.]</b></p> <p>Public Hospital.....1          Private Hospital.....2          Public Clinic.....3          Private Clinic.....4          Traditional Healer.....5          Church/Mosque Facility.....6          Foreign Aid Clinic.....7          Other (Specify.....).....8          Don't Know.....-777  <b>[Do Not Read] [Skip to→ 22]</b>          Refuse to Answer.....-999  <b>[Do Not Read] [Skip to→ 22]</b></p>		<p><b>18.</b> To the best of your knowledge, how many people in your Village/Payam use [FACILITY]?          [FACILITY]?</p> <p><b>[Enter Number of People]</b></p>	<p><b>19.</b> How does a typical person in your Village/Payam get to [FACILITY]? <b>[READ LIST]</b></p> <p>On Foot.....1          Bicycle.....2          Own Car.....3          Borrowed Car.....4          Flagged Down Car.....5          Hired Car.....6          Own Motorcycle.....7          Borrowed Motorcycle.....8          Flagged Down Moto.....9          Hired Motorcycle.....10          Public Bus.....11          Private Bus.....12          Other (Specify.....).....13          Don't Know.....-777  <b>[Do Not Read]</b>          Refuse to Answer.....-999  <b>[Do Not Read]</b></p>	<p><b>20.</b> How far must the typical person in your Village/Payam travel to get to [FACILITY]?</p> <p><b>[Enter in Meters or Kilometers. PLEASE SPECIFY.]</b></p>	
<p><b>a. Source</b></p>	<p><b>b. Code</b></p>		<p><b>a. Distance</b></p>	<p><b>b. Meters or KM</b></p>	
1.					
2.					
3.					
4.					
5.					

**VI. SCHOOLS**

[Please say: “Next, I am going to ask you about schools in your village/payam.”]

<p><b>21. Please list all of the primary schools that serve your village/payam even if they are not located directly in the village/payam (up to five). [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give a short description to the left.]</b></p> <p>Co-Educational Public School.....1                  Co-Educational Private School.....2                  All Girls Public school.....3                  All Girls Private School.....4                  All Boys Public School.....5                  All Boys Private School.....6                  Informal Home School.....7                  Informal Village School.....8                  Other (Specify.....).....9                  Don't Know.....-777  <b>[Do Not Read] [Skip to→26 ]</b>                  Refuse to Answer.....-999  <b>[Do not Read] [Skip to→ 26]</b></p>		<p><b>22. To the best of your knowledge, how many male students attend [SCHOOL]?</b></p> <p>[Enter Number of People]</p>	<p><b>23. To the best of your knowledge how many female students attend [SCHOOL]?</b></p> <p>[Enter Number of People]</p>	<p><b>24. How does a typical student in your village/payam get to [SCHOOL]?</b>  <b>[READ LIST]</b></p> <p>On Foot.....1                  Bicycle.....2                  Own Car.....3                  Borrowed Car.....4                  Flagged Down Car.....5                  Hired Car.....6                  Own Motorcycle.....7                  Borrowed Motorcycle.....8                  Flagged Down Moto.....9                  Hired Motorcycle.....10                  School Bus.....11                  Public Bus.....12                  Private Bus.....13                  It is delivered.....14                  Other (Specify.....).....15                  Don't Know.....-777  <b>[Do Not Read]</b>                  Refuse to Answer.....-999  <b>[Do Not Read]</b></p>	<p><b>25. How far must the typical student in your village/payam travel to get to [SCHOOL]?</b></p> <p>[Enter in Meters or Kilometers. PLEASE SPECIFY.]</p>	
<p><b>a. School</b></p>	<p><b>b. Code</b></p>				<p><b>a. Distance</b></p>	<p><b>b. Meters or KM</b></p>
1.						
2.						
3.						
4.						
5.						

<p><b>26. Please list all of the secondary schools that serve your village/payam even if they are not located directly in the village/payam (up to five). [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give a short description to the left.]</b></p> <p>Co-Educational Public School.....1  Co-Educational Private School.....2  All Girls Public school.....3  All Girls Private School.....4  All Boys Public School.....5  All Boys Private School.....6  Informal Home School.....7  Informal Village School.....8  Other (Specify.....).....9  Don't Know.....-777  <b>[Do Not Read] [Skip to→ 31]</b>  Refuse to Answer.....-999  <b>[Do Not Read] [Skip to→31]</b></p>		<p><b>27. To the best of your knowledge, how many male students attend [SCHOOL]?</b></p> <p><b>[Enter Number of People]</b></p>	<p><b>28. To the best of your knowledge how many female students attend [SCHOOL]?</b></p> <p><b>[Enter Number of People]</b></p>	<p><b>29. How does a typical student in your village/payam get to [SCHOOL]?</b>  <b>[READ LIST]</b></p> <p>On Foot.....1  Bicycle.....2  Own Car.....3  Borrowed Car.....4  Flagged Down Car.....5  Hired Car.....6  Own Motorcycle.....7  Borrowed Motorcycle.....8  Flagged Down Moto.....9  Hired Motorcycle.....10  School Bus.....11  Public Bus.....12  Private Bus.....13  It is delivered.....14  Other (Specify.....).....15  Don't Know.....-777  <b>[Do Not Read]</b>  Refuse to Answer.....-999  <b>[Do Not Read]</b></p>	<p><b>30. How far must the typical student in your village/payam travel to get to [SCHOOL]?</b></p> <p><b>[Enter in Meters or Kilometers. PLEASE SPECIFY.]</b></p>	
<p><b>a. School</b></p>	<p><b>b. Code</b></p>				<p><b>a. Distance</b></p>	<p><b>b. Meters or KM</b></p>
1.						
2.						
3.						
4.						
5.						

**VII. TRANSPORTATION RESOURCES AND COSTS**

[Please say: *“Last, I would like to ask you some questions about transportation resources and costs.”*]

31. Do buses ever stop in your Village? **[DO NOT ASK THIS QUESTION IN JUBA AND NIMULE. Skip to→34a]**

Yes.....1

No..... 2 **[Skip to→35a]**

**ENTER CODE**

32. In a typical week during the dry season, how many times do busses stop in your Village?

**ENTER NUMBER**

33. In a typical week during the rainy season, how many times do busses stop in your Village?

**ENTER NUMBER**

	<p><b>34a.</b> During the dry season, how much does it cost to travel from here to [CITY] by <b>bus</b> (inclusive of all costs)?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't know.....-777</p> <p>Not Applicable...-888</p>	<p><b>34b.</b> During the rainy, how much does it cost to travel from here to [CITY] by <b>bus</b> (inclusive of all costs)?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't know.....-777</p> <p>Not Applicable...-888</p>
<b>Juba</b>		
<b>Nimule</b>		
<b>Pageri</b>		

	<p><b>35a.</b> During the dry season, how much does it cost to travel from here to [CITY] by <b>one's own small car</b> (inclusive of all costs)?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't know.....-777</p> <p>Not Applicable...-888</p>	<p><b>35b.</b> During the rainy season, how much does it cost to travel from here to [CITY] by <b>one's own small car</b> (inclusive of all costs)?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't know.....-777</p> <p>Not Applicable...-888</p>
<b>Juba</b>		
<b>Nimule</b>		
<b>Pageri</b>		

	<p><b>36a.</b> During the dry season, how much does it cost to travel from here to [CITY] by <b>hired small car</b> (inclusive of all costs)?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't know.....-777</p> <p>Not Applicable...-888</p>	<p><b>36b.</b> During the rainy season, how much does it cost to travel from here to [CITY] by <b>hired small car</b> (inclusive of all costs)?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't know.....-777</p> <p>Not Applicable...-888</p>
<b>Juba</b>		

<b>Nimule</b>		
<b>Pageri</b>		

	<p><b>37a.</b> During the dry season, how much does it cost to travel from here to [CITY] by <b>one's own motorcycle</b> (inclusive of all costs)?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't know.....-777</p> <p>Not Applicable...-888</p>	<p><b>37b.</b> During the rainy season, how much does it cost to travel from here to [CITY] by <b>one's own motorcycle</b> (inclusive of all costs)?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't know.....-777</p> <p>Not Applicable...-888</p>
<b>Juba</b>		
<b>Nimule</b>		
<b>Pageri</b>		

	<p><b>38a.</b> During the dry season, how much does it cost to travel from here to [CITY] by <b>hired motorcycle</b> (inclusive of all costs)?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't know.....-777</p> <p>Not Applicable...-888</p>	<p><b>38b.</b> During the rainy season, how much does it cost to travel from here to [CITY] by <b>hired motorcycle</b> (inclusive of all costs)?</p> <p>[Enter in Pounds or Shillings – PLEASE SPECIFY]</p> <p>Don't know.....-777</p> <p>Not Applicable...-888</p>
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<b>Juba</b>		
<b>Nimule</b>		
<b>Pageri</b>		

**[This concludes our interview. Thank you for your participation!]**

# SISP Water and Sanitation Projects Baseline Survey: Household Module

<b>A.1</b>	<b>City Identification</b>			
<b>A.2</b>	<b>Payam Identification</b>			
<b>A.3</b>	<b>Block Identification</b>			
<b>A.4</b>	<b>Section Identification</b>			
<b>A5</b>	<b>Survey Number</b>			

**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

<b>D. INTERVIEW REPLACEMENT</b>		
		Code
<b>D1</b>	This is a	Yes.....1

	replacement household?	No.....2	
--	------------------------	----------	--

[At this point, please begin the interview by saying: *“Good Afternoon, my name is \_\_\_\_\_. I am from the company that is going to provide an emergency supply of clean water and sanitation services to this area. The project is funded by the United States Agency for International Development in conjunction with the Government of Southern Sudan. As part of this project, we are conducting a survey, with the permission of your Payam leaders as well as the Central Equatoria Ministry of Public Health that asks important questions about the health, water and sanitation in your household. Therefore, I would like to speak to the Head of the Household [the person in the household who is the primary breadwinner and makes most of the financial decisions] or a spouse of the Head of the Household.*

[DETERMINE THE RESPONDENT]

*The purpose of this survey is to collect information in the following areas: 1) household livelihood; 2) household health, water and sanitation issues; and 3) household ability to pay for improved water and sanitation services. The results will be used to better understand how improved water and sanitation services impact a community like yours.*

*This survey is not connected to the South Sudan Census. Participation in this survey is completely voluntary and all household information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you or your household. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don't want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey?* [If asked, the survey will take about 1 hour]

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ER CODE

<b>E. RESPONDENT IDENTIFICATION</b>
<b>E1. Respondent Name</b>
<b>E2. Location [Describe location in relation to section area]:</b>
<b>E3. Language of Survey</b>

## II. THE HOUSEHOLD ROSTER<sup>3</sup>

[Please say: “Now I will ask you some basic information about the members of your household”.]

PERSONAL ID NUMBER	1 .Please list all of the people in your household beginning with the head of the household.  <i>[A household is defined as a group of people who eat together and have been living together for at least 6 of the past 12 months.]</i>	2. Relationship to the head of the household.  Head of Household.....1  Spouse of Head of Household..... 2  Son/Daughter.....3  Spouse of Son/Daughter..... 4  Grandchild.....5  Brother/Sister..... 6  Father/Mother..... 7  Father/Mother-in-Law...8  Brother/Sister-in-Law....9  Uncle/Aunt.....10  Cousin..... 11  Friend..... 12  Servant..... 13	3. Sex  M....1  F.....2	4. Age  <b>[If less than one year write 0]</b>	5. Educational Attainment  Not yet in school.....1  Illiterate.....2  Literate, without formal school.....3  Preschool/Kindergarten.....4  Some Primary .....5  Primary Grad..... 6  Some Middle.....7  Middle Grad.....8  Some High School.....9  High School Grad.....10  Some University.....11  University Grad.....12  Some Post-Grad.....13	6. Marital Status  Married.....1  Never  Married.....2  Living Together.....3  Separated.....4  Divorced.....5  Widowed..... 6

<sup>3</sup> Adapted from “Survey of Living Conditions: Uttar Pradesh and Bihar, India”. The World Bank. <http://www.worldbank.org/LSMS/country/india/slc-hh97.pdf>. (1997-1998).

		Laborer.....14  Other: (Specify.....).... 15			MA/MS.....14  PhD.....15  Professional Degree.....16	
01						
02						
03						
04						
05						
06						
07						
08						

09						
10						

**[END HOUSEHOLD ROSTER]**

## **DEFINITIONS FOR ENUMERATORS**

### **Household Roster**

The interviewer must fill out the household roster immediately after he/she identifies the respondent and before any other questions on the survey are asked. Before beginning the household roster, please read the following definition of a household to the respondent: ***“I would now like you to list all the people in your household and their relationship to you. A household is defined as a group of people who eat together and have been living together for at least 6 of the past 12 months. A person who has lived away from the household for more than 6 months is not considered part of the household even if others in the household consider that person a part of the household. People who live together in the same dwelling but do not eat together are not considered members of the same household. Two exceptions to this rule apply:***

- 1. Persons who are away from the household for more than six months, but are considered the main provider for the household can be counted as part of the household.***
- 2. Servants, lodgers, farm-workers and laborers who live and take meals with the household can be counted as part of the household.”***

It is very important that the interviewer define the household according to these criteria, even though it may not conform to the respondents’ definition of the household.

### **Personal ID Number**

The first column of the roster is labeled “Personal ID Number”. Each line in the grid is assigned a number from 1-10. The “Personal ID Number” is extremely important, as it allows the information gathered in various sections of the questionnaire to be matched together. For example, if a person is assigned the “ID Code” 05 in the roster, then all other sections of the questionnaire where information is collected for individual household members should be entered as “ID Code” 05.

### III. DWELLING CHARACTERISTICS AND RESIDENTIAL STATUS

[Please say: *Now I would like to ask you about your dwelling and your residential status.*]

[Before beginning this section, please read the following definition of dwelling to the respondent: *“A dwelling is a space or a collection of spaces in which your household resides. If you reside in a space with another household (for example, if another family lives in the same house, but does not eat meals with you or share food expenses), please only refer to your household’s specific space when answering the following questions.”*]

<p>7. In which type of dwelling does your household reside? <sup>4</sup> [READ LIST]</p> <p>House made of mud.....1 House made of concrete..... 2 House made of wood.....3 House made of corrugated metal.....4 Apartment.....5 Stick Tukul.....6 Mud Brick Tukul.....7 Tent.....8 Other (Specify.....).....9</p>	<p>8. How many rooms does your dwelling have?</p> <p>[ENTER NUMBER OF ROOMS]</p>	<p>9. How long has your household resided in this dwelling?</p> <p>[ENTER NUMBER OF WEEKS, MONTHS AND/OR YEARS]</p>			<p>10. What type of tenure does your household have in the dwelling? [Please Say: <i>“The term ‘tenure’ refers to the legal relationship between your household and your dwelling.”</i>] [Read List]</p> <p>Owned.....1 Rented.....2 Built by household, but no deed or title.....3 Donated.....4 Other (Specify.....).....5 Don't Know..... -777 [Do Not Read] Refuse to Answer.....- 999 [Do Not Read]</p>	<p>11. What is your household’s residential status? [Read List]</p> <p>Continuous resident of Juba for 2 years or more.....1 Returned to Juba between 1-2 years ago.....2 Returned to Juba 1 year ago or less.....3 Internally displaced.....4 Nomad.....5 Other (Specify.....).....6 Don't Know.....-777 [Do Not Read] Refuse to Answer.....- 999 [Do Not Read]</p>
<p>ENTER CODE:</p>		<p>a. Years</p>	<p>b. Months</p>	<p>c. Weeks</p>	<p>ENTER CODE:</p>	<p>ENTER CODE:</p>

<sup>4</sup> Housing typologies adapted from 2008 Sudan Census Long Form Questionnaire.

**IV. HOUSEHOLD CHARACTERISTICS**

[Please say: “Now I would like to ask you some questions about the characteristics of your household.”]

<p><b>12.</b> What is the primary language spoken in your household? [Please say: “<i>The term ‘primary language’ means the language that is spoken most of the time by members of the household within the household.</i>”]</p> <p>Arabic.....1          Acholi.....2          Bari.....3          Dinka.....4          Lolubo.....5          Madi.....6          Mundari.....7          Muru.....8          Latuko.....9          Pojulu.....10          English.....11          Other (Specify.....).....12</p>	<p><b>13.</b> Is there a secondary language spoken by your household? [Please say: <i>The term ‘secondary language’ means a language that is spoken occasionally within the household and/or outside of the household to interact with outsiders.</i>]</p> <p>Yes.....1          No..... 2  <b>[Skip to→15]</b></p>	<p><b>14.</b> What is the secondary language in your household? [Read List]</p> <p>Arabic.....1          Acholi.....2          Bari.....3          Dinka.....4          Lolubo.....5          Madi.....6          Mundari.....7          Muru.....8          Latuko.....9          Pojulu.....10          English.....11          Other (Specify.....).....12</p>	<p><b>15.</b> Which tribe do most of the members of your household belong to? [Read List]</p> <p>Acholi.....1          Bari.....2          Dinka.....3          Dinka Bor.....4          Kuku.....5          Kakwa.....6          Pojulu.....7          Lolubo.....8          Madi.....9          Mundari.....10          Nuer.....11          Shilluk.....12          Other (Specify.....).....13          Refuse to Answer.....- 999  <b>[Do Not Read]</b></p>
<p><b>ENTER CODE:</b></p>	<p><b>ENTER CODE:</b></p>	<p><b>ENTER CODE:</b></p>	<p><b>ENTER CODE:</b></p>

**V. CONSUMPTION AND EXPENDITURES**

**[Please Say: *Now I would like to ask you about the consumption and expenditures for your household.*]**

<b>16.</b> Over the past one week (7 days), did you or others in your household <b>consume</b> any [FOOD ITEM]?  Yes.....1 No.....2		<b>17.</b> How much [FOOD ITEM] in total did your household <b>consume</b> in the past one week? <b>[Please look at separate Unit Code list ]</b>		<b>18.</b> How much [FOOD ITEM] did your household <b>purchase</b> in the past one week?  <b>[Please look at separate Unit Code list]</b>		<b>19.</b> How much did your household spend on [ITEM]?  <b>[Enter Pounds]</b>	<b>20.</b> How much [FOOD ITEM] did your household receive in-kind in the past one week? <b>[Please look at separate Unit Code list]</b>		<b>21.</b> How much [FOOD ITEM] did your household produce on its own for consumption in the past one week?  <b>[Please look at separate Unit Code List]</b>	
a. Food Item	b. Code	a. Quantity	b. Unit Code	a. Quantity	b. Unit Code		a. Quantity	b. Unit Code	a. Quantity	b. Unit Code
1. Sorghum										
2. Maize										
3. Millet										
4. Cassava										
5. Rice										
6. Sweet Potato										
7. Bread										
8. Beans										
9 Tomatoes										
10. Okra										
11. Onions										

12. Banana										
13. Pineapple										
14. Groundnuts										
15. Milk										
16. Chicken										
17. Beef										
18. Goat										
19. Mutton/Sheep										
20 Fish										
21 Eggs										
22. Sugar										
23.Honey										
24.Oil/Ghee										

<b>22.</b> In the past month (30 days) have you or anyone in your household purchased [ITEM]?  Yes.....1 No.....2		<b>23.</b> How much did your household pay in total for [ITEM]?  <b>[Enter in Sudanese Pounds]</b>
<b>a. Non-Food Item</b>	<b>b. Code</b>	
1. Body Soap		
2. Clothes Soap		
3. Toothpaste		
4. Toilet paper		
5. Shampoo		
6. Household cleaning products (dish soap etc.)		
7. Petrol		
8. Diesel		
9. Charcoal		
10. Kerosene		
11. Fire wood		
12. Public Transportation (bus fare, etc.)		

<b>24.</b> In the past 12 months, have you or anyone in your household purchased. [ITEM]?  Yes.....1 No.....2		<b>25.</b> How much did your household pay in total for [ITEM]?  <b>[Enter in Sudanese Pounds]</b>
<b>a. Non-Food Item</b>	<b>b. Code</b>	
1 Clothing		
2. Shoes		
3. School Fees		
4. Health Care Services		
5. Housing Maintenance (repairs and improvements)		
6. Housing Rent		

**VI. HOUSEHOLD WEALTH ASSESEMENT**

[Please say: *“Now I would like to ask you about some of the goods in your household.”*]

<b>26. Does any member of your household own a [ITEM]?</b>  Yes.....1 No.....2		<b>27. How many [ITEM] does your household own?</b>  [Enter Number]
<b>a. Item</b>	<b>b. Code</b>	
1. Television		
2. Radio		
3. Mobile Phone		
4. Computer		
5. Refrigerator		
6. Satellite Dish		
7. Fan		
8. Air Conditioner		
9. Tractor		
10. Power Generator		
11. Kerosene or Paraffin Stove		
12. Kerosene or Paraffin Lantern		
13. Motorized Vehicle		
14. Bicycle		

**VII. SECTION A: HOUSEHOLD ACTIVITIES AND LIVELIHOOD**

[Please Say: *Now I would like to ask you about the activities and sources of livelihood.*]

PERSONAL ID NUMBER	<p><b>28.</b> Please list the primary work or school activities of all of the household members over 10 years-old during the last 12 months. <b>[DO NOT READ LIST. Give short description to the left, and insert code at right.]</b></p> <p>Own Farm/Animal husbandry.....1</p> <p>Fishing Activities.....2</p> <p>Casual Labor (Farm and Non-farm).....3</p> <p>Long-Term Agricultural Employee .....4</p> <p>Private Wage Employment .....5</p> <p>Government Wage Employment.....6</p> <p>Small Business Owner.....7</p> <p>Large Business Owner.....8</p> <p>Skilled Trade (Electrician, Plumber, etc.).....9</p> <p>Armed Forces.....10</p> <p>Charity/Alms .....11</p> <p>Unemployed .....12</p> <p>Pupil/Student.....13</p> <p>Homemaker/Child Care.....14 (STOP)</p> <p>Retired/Too Old .....15 (STOP)</p>	<p><b>29.</b> Please list all of the months during the last 12 months that. [Name] performed this activity.</p> <p>Don't Know.....-777</p> <p><b>[Do Not Read]</b></p> <p>Refuse to answer.....-999</p> <p><b>[Do Not Read]</b></p> <p><b>[Please check off all months that this activity was performed. PLEASE LOOK BACKWARD 12 MONTHS]</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr><td>a. January 2008</td></tr> <tr><td>b. February 2008</td></tr> <tr><td>c. March 2008</td></tr> <tr><td>d. April 2007</td></tr> <tr><td>e. May 2007</td></tr> <tr><td>f. June 2007</td></tr> <tr><td>g. July 2007</td></tr> <tr><td>h. August 2007</td></tr> <tr><td>i. September 2007 20076</td></tr> <tr><td>j. October 2007</td></tr> <tr><td>l. November 2007</td></tr> <tr><td>m. December 2007 2007</td></tr> </table>	a. January 2008	b. February 2008	c. March 2008	d. April 2007	e. May 2007	f. June 2007	g. July 2007	h. August 2007	i. September 2007 20076	j. October 2007	l. November 2007	m. December 2007 2007	<p><b>30.</b> How many hours per day did [NAME] typically perform this activity?</p> <p><b>[Enter hours per day]</b></p> <p>Don't Know.....-777</p> <p><b>[Do Not Read]</b></p> <p>Refuse to answer.....-999</p> <p><b>[Do Not Read]</b></p>	<p><b>31.</b> Was the activity performed by [NAME] considered:</p> <p>Casual and Salaried</p> <p>Labor.....1</p> <p><b>[GO TO SECTION B, PAGE 12, Q. 32]</b></p> <p>Own Business/ Own Non-Agricultural Production.....2</p> <p><b>[GO TO SECTION C, Page 13, Q. 38]</b></p> <p>Own Agricultural Production.....3</p> <p><b>(STOP)</b></p> <p>Unemployment.....4</p>
	a. January 2008															
b. February 2008																
c. March 2008																
d. April 2007																
e. May 2007																
f. June 2007																
g. July 2007																
h. August 2007																
i. September 2007 20076																
j. October 2007																
l. November 2007																
m. December 2007 2007																



**SECTION B: CASUAL AND SALARIED LABOR**

<p><b>Please recopy the list of household members who participate in CASUAL OR SALARIED LABOR from Q. 31 above.</b></p>	<p><b>32. Was [NAME] paid a wage for this activity?</b></p> <p>Yes.....1 No.....2 Don't Know.....-777 <b>[Do Not Read]</b></p>	<p><b>33. How much was [NAME] paid for this activity?</b></p> <p><b>[Enter in Sudanese Pounds ]</b></p>	<p><b>34. Was [NAME] paid in-kind for this activity?</b></p> <p>Yes.....1 No.....2 <b>(STOP)</b> Don't</p>	<p><b>35. What item did [NAME] usually receive in-kind? [READ LIST]</b></p> <p>Livestock.....1 Fish.....2 Dairy Products.....3 Grains/Cereals.....4 Cassava.....5</p>	<p><b>36. How often did [NAME] usually receive payment in-kind?</b></p> <p>Per day.....1 Per week.....2 Per month.....3</p>	<p><b>37. How much did [Name] receive in- kind?</b></p> <p><b>[Enter quantity and unit. Refer to Please look at separate Unit Chart ]</b></p>
---	--	---	--	---	---	---

		Refuse to Answer.....-999 <b>[Do Not Read]</b>				Know.....-777 <b>[Do Not Read]</b> Refuse to Answer.-999 <b>[Do Not Read]</b>	Yams.....6 Nuts/Seeds.....7 Honey.....8 Eggs.....9 Sugar.....10 Shelter.....11 Clothing.....12 Prepared Meals...13 Other (Specify____).....14  Don't Know.....-777 Refuse to Answer.....-999 <b>[Do Not Read]</b>	Other (Specify____)...4  Don't Know.....-777 <b>[Do Not Read]</b> Refuse to Answer.-999 <b>[Do Not Read]</b>		
			a. Per Day	b. Per Week	c. Per Month				a. Quantity	b. Unit Code
01										
02										
03										
04										
05										
06										

07										
08										
09										
10										

[END OF SECTION B]

**SECTION C: OWN BUSINESS/TRADE/PRODUCTION**

	<p><b>Please recopy the list of household members who have their OWN BUSINESS, TRADE, PRODUCTION from Q. 31 above.</b></p>	<p><b>38. Please tell me the primary good or service that [NAME] sells/performs. [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give short product description to the left.]</b></p> <p>Packaged Foods.....1 Charcoal.....14          Prepared Meals/Restaurant.....2 Kerosene.....15          Bottled/Packaged Drinks.....3 Diesel.....16          Prepared Drinks.....4 Petroleum.....17          Tobacco/Cigarettes.....5 Appliances.....18          Personal Cleaning Products Electronics.....19          (soap, shampoo, toothpaste).6 Furniture.....20          Household Cleaning Products...7 Personal Services          Medicines/Pharmaceuticals.....8 (haircut, cell phone charge)....21          Magazines/Books/ Repair Services.....22          Newspapers.....9 Other (Specify.....).....23          Batteries.....10 Don't Know.....-777          Clothes/Shoes/Fabric.....11 <b>[Do Not Read] [Stop]</b>          Jewelry.....12 Refuse to Answer.....-999          Arts/Crafts.....13 <b>[Do Not Read] [Stop]</b></p>	<p><b>39. In what year was this enterprise founded?</b></p> <p><b>[Enter Year]</b></p>	<p><b>40. Do any non-household members work at this enterprise?</b></p> <p>Yes.....1          No.....2  <b>[Skip to→42]</b></p> <p>Don't Know.....-777  <b>[Do Not Read]</b>  <b>[Skip to→42]</b></p> <p>Refuse to Answer.....-999  <b>[Do Not Read]</b></p>	<p><b>41. How many non-household members work at this enterprise?</b></p> <p><b>[Enter Number]</b></p>	<p><b>42. In a typical month, how much does [NAME] earn in total from this enterprise?</b></p> <p><b>[Enter in Sudanese Pounds]</b></p>
--	--	--	--	--	--	---

		a. Description	b. Code		[Skip to →42]		
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							

[END OF SECTION C]

**XIII. OWN AGRICULTURAL/ANIMAL HUSBANDRY PRODUCTION**

**ONLY ASK THESE QUESTIONS IN THIS SECTION IF THE HOUSEHOLD PRODUCES ITS OWN AGRICULTURAL PRODUCTS (REFER TO Q. 31). IF THE HOUSEHOLD DOES NOT PRODUCE ITS OWN AGRICULTURAL PRODUCTS, PLEASE SKIP TO → PAGE 17, QUESTION 58]**

[Please say: “*Now I would like to ask you about your household’s own agricultural production.*”]

	<b>ENTER TOTAL NUMBER OF HECTARES</b>
<b>43a.</b> How many total hectares of land does your household use for cultivation/animal husbandry?	
<b>43b.</b> Of the total, how many hectares of land does your household own?	
<b>43c.</b> Of the total, how many hectares of land does your household rent?	
<b>43d.</b> Of the total, how many hectares of land does your household inter-crop (sharecrop)?	
<b>43e.</b> Of the total, how many hectares of land does your household use for free?	

**44.** Is any of the land that your household uses for cultivation/animal husbandry irrigated?

Yes.....1

No.....2 [Skip to→46]

**ENTER CODE**

45. How many hectares of land are irrigated?

	<b>ENTER NUMBER OF HECTARES</b>
--	-------------------------------------

46. During the last 12 months, has your household cultivated any agricultural crops?

Yes.....1

ENTER CODE

No.....2 [Skip to→52]

<p>47. Please tell me the primary agricultural crops your household cultivated during the last 12 months in order of importance (up to 5). <b>[DO NOT READ LIST. Let respondent give description. Enter category code to the right and give short crop description to the left.]</b></p> <p>Sorghum.....1</p> <p>Maize.....2</p> <p>Millet.....3</p> <p>Other Grains.....4</p> <p>Cassava.....5</p> <p>Sweet Potatoes.....6</p> <p>Beans.....7</p> <p>Vegetables.....8</p> <p>Fruit.....9</p> <p>Nuts/Seeds.....10</p> <p>Honey.....11</p> <p>Eggs.....12</p>	<p>48. How much of this [CROP] did your household cultivate during the last 12 months?</p> <p>[Enter Quantity and Units. Please look at separate Unit Code list]</p>	<p>49. Did your household sell this [CROP] during the last 12 months?</p> <p>Yes.....1</p> <p>No.....2</p> <p>[Skip to→52]</p> <p>Don't Know.....-777</p> <p>[Do Not Read]</p> <p>[Skip to→52]</p> <p>Refuse to</p>	<p>50. How much of this [CROP] did your household sell during the last 12 months?</p> <p>[Enter Quantity and Units. Please look at separate Unit Code list]</p>	<p>51. What was the total value of all [CROP] sales during the last 12 months?</p> <p>[Enter in Sudanese Pounds.]</p>
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Sugar.....13				Answer... -999			
Other (Specify _____).....14				<b>[Do Not Read]</b>			
Don't Know.....-777				<b>[Skip to→52]</b>			
Refuse to Answer.....-999							
<b>[Do Not Read] [Stop section]</b>							
a. Description of Crop	b. Code	a. Quantity	b. Unit Code		a. Quantity	b. Unit code	
1.							
2.							
3.							
4.							
5.							

52. During the last 12 months, did your household keep any animals?

Yes.....1

ENTER CODE

No.....2 [Skip to→58]

<p><b>53. Please tell me the primary animals that your household kept during the last 12 months (up to five). [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give short animal description to the left.]</b></p> <p>Cow.....1</p> <p>Buffalo.....2</p> <p>Goat.....3</p> <p>Sheep.....4</p> <p>Horse.....5</p> <p>Donkey.....6</p> <p>Mules.....7</p> <p>Chicken.....8</p> <p>Other (Specify _____).....9</p> <p>Don't Know.....-777</p> <p>Refuse to Answer.....-999</p>	<p><b>54. How many [ANIMALS] did your households keep during the last 12 months?</b></p> <p>[Enter number of animals]</p>	<p><b>55. Did your household sell any [ANIMAL] during the last 12 months?</b></p> <p>Yes.....1</p> <p>No.....2</p> <p>[Skip to→58]</p> <p>Don't Know.....-777</p> <p>[Do Not Read]</p> <p>[Skip to→58]</p> <p>Refuse to</p>	<p><b>56. How many [ANIMAL] did your household sell during the last 12 months?</b></p> <p>[Enter number of animals]</p>	<p><b>57. What was the total value of all [ANIMAL] sales during the last 12 months?</b></p> <p>[Enter in Sudanese Pounds]</p>
---	---	---	---	---

<b>[Do Not Read] [Stop section]</b>			Answer... -999		
			<b>[Do Not Read]</b>		
			<b>[Skip to→58]</b>		
<b>a. Description of Animals</b>	<b>b. Code</b>				
1.					
2.					
3.					
4.					
5.					



**IX. REMITTENCES AND TRANSFERS**

[Please say: *“Now I would like to ask you about other sources of livelihood.”*]

58. During the past 12 months, has your household sometimes received money from friends or family living outside your household?

Yes.....1

No.....2 [Skip to→ 60]

**ENTER CODE**

59. How much in total did your household receive during the last 12 months?

**ENTER IN POUNDS**

60. During the past 12 months, has your household sometimes sent money to friends or family living outside your household?

Yes.....1

No.....2 [Skip to→62]

**ENTER CODE**

61. How much in total did your household send during the last 12 months?

**ENTER IN POUNDS**

**X. HOUSEHOLD WATER USAGE**

[Please say: *“Now I would like to ask you some questions about water usage in your household.”*]

62. On a typical day, how many jerry cans of water does your household use per day for drinking (including what is used for cooking)?

NUMBER OF JERRY CANS

63. Where does the household drinking water usually come from? [Read List]

- Household Tap.....1
- Public Tap.....2
- Borehole.....3
- Well.....4
- Tubewell/Handpump .....5
- Still Open Water (Lake, Pond, Reservoir) .....6
- Open Running Water (River, Canal).....7
- Water Truck.....8
- Water Tank.....9
- Other (Specify\_\_\_\_\_)......10
- Don't Know.....-777 [Do Not Read] [Skip to→88]
- Refuse to Answer.....- 999 [Do Not Read] [Skip to→88]

ENTER CODE

64. Is this water source pre-treated? [Please say: “*Pre-treated*’ means that chemicals are put into before you buy it or obtain it.”]

- Yes.....1
- No.....2
- Sometimes.....3
- Don’t Know.....-777 [Do Not Read]

ENTER CODE

65. Does your household treat the water from this source with chlorine tablets prior to drinking?

- Yes.....1
- No.....2 [Skip to→67]
- Sometimes.....3
- Don’t Know.....-777 [Skip to→67]

ENTER CODE

66. In a typical month, how much does your household spend on chlorine tablets for water from this source?

ENTER IN POUNDS

67. Do you share this water source with other households?

Yes.....1

No.....2 [Skip to→69]

ENTER CODE

68. How many households share this water source? [If “Don’t Know” enter -777. If “Refuse to Answer” enter -999]

NO. OF HOUSEHOLDS

69. How far is this water source from your dwelling? [Read List]

Within Premises.....1

Less than 0.5KM.....2

- 0.5 to 1 KM.....3
- 1 KM or more.....4
- It is delivered by truck.....5
- Don't Know.....-777 [Do Not Read]
- Refuse to Answer.....- 999 [Do Not Read]

**ENTER CODE**

**70. Which members of the household typically collect water from this source? [If water is delivered by truck, who is the person that receives the water from the delivery truck?]**

**[Please enter the names and ID codes of all persons mentioned. If “Don’t Know” enter -777; If “Not Applicable” enter -888; If “Refuse to Answer”, enter -999. ]**

	a. Household member ID Code	b. Name of Household Member
1		
2		
3		

71. How often does your household collect water from this source? [*If water is delivered by truck, how often is it delivered?*] [Read List]

- Three or more times per day.....1
- Twice per day.....2
- Once per day.....3
- 2-3 Times per week.....4
- 4-5 times per week.....5
- Don't Know.....-777 [Do Not Read]
- Not Applicable.....-888 [Do Not Read]
- Refuse to Answer.....- 999 [Do Not Read]

ENTER CODE

72. On a typical day, how much time in total does it take to collect water from this source? [*If water is delivered, how long does delivery take?*] [READ LIST]

- Less than 30 minutes.....1
- Between 30 minutes and 1 hour.....2
- Between 1 hour and 1.5 hours.....3
- Between 1.5 and 2 hours.....4
- 2 hours or more.....5
- Don't Know.....-777 [Do Not Read]
- Not Applicable.....-888 [Do Not Read]
- Refuse to Answer.....- 999 [Do Not Read]

ENTER CODE

73. Does your household currently pay to use this water source?

Yes.....1

No.....2

ENTER CODE

74. Is water from this source ever scarce? [Please say: *“The word ‘scarce’ means that there is not enough water for all of your household needs.”*]

Yes.....1

No.....2 [Skip to→88]

ENTER CODE

75. Which months of the year is this source generally scarce? **[READ LIST. Check all relevant boxes at the left.]**

- January.....1
- February.....2
- March.....3
- April.....4
- May.....5
- June.....6
- July.....7
- August.....8
- September.....9
- October.....10
- November.....11
- December.....12

76. In which month is water most scarce? **[Enter month code from above.]**

**ENTER CODE**

77. During these months, what is the source of water for your household? **[RE-READ LIST]**

Household Tap.....1

Public Tap.....2

Borehole.....3

Well.....4

Tubewell/Handpump .....5

Still Open Water (Lake, Pond, Reservoir) .....6

Opening Running Water (River, Canal).....7

Water Vender (Truck, Tank).....8

Water Tank.....9

Other (Specify\_\_\_\_\_)......10

Don't Know.....-777 **[Do Not Read] [Skip to→88]**

Refuse to Answer.....- 999 **[Do Not Read] [Skip to→88]**

**ENTER CODE**

78. Is this secondary water source pre-treated? [Please say: "pre-treated" means that chemicals are put in it to clean it before you buy it or obtain it.]

Yes.....1

No.....2

Don't Know.....-777 [Do Not Read]

ENTER CODE

79. Does your household treat the water from this secondary source with chlorine tablets prior to drinking?

Yes.....1

No.....2 [Skip to→81]

Sometimes.....3

Don't Know.....-777 [Skip to→81]

ENTER CODE

80. In a typical month, how much does your household spend on chlorine tablets for this secondary source?

ENTER IN POUNDS

81. Do you share this secondary water source with other households?

Yes.....1

No.....2 [Skip to→83]

**ENTER CODE**

**82. How many households share this secondary water source? [If “Don’t Know” enter -777. If “Refuse to Answer” enter -999]**

**NO. OF HOUSEHOLDS**

83. How far is this secondary water source from your dwelling? **[Read List]**

- Within Premises.....1
- Less than 0.5KM.....2
- 0.5 to1 KM.....3
- 1 KM or more.....4
- It is delivered by truck.....5
- Don't Know.....-777 **[Do Not Read]**
- Refuse to Answer.....- 999 **[Do Not Read]**

**ENTER CODE**

84. Which members of your household typically collect water from this secondary source? **[If water is delivered by truck, who is the person that receives the water from the delivery truck?]**

**[Please enter the names and ID codes of all persons mentioned. If “Don’t Know” enter -777; If “Not Applicable” enter -888; If “Refuse to Answer”, enter -999. ]**

	a. Household member ID Code	b. Name of Household Member
1		
2		
3		

85. How often does your household collect water from this secondary source? [*If water is delivered by truck, how often is it delivered?*] [Read List]

- Three or more times per day.....1
- Twice per day.....2
- Once per day.....3
- 2-3 Times per week.....4
- 4-5 times per week.....5
- Don't Know.....-777 [Do Not Read]
- Not Applicable.....-888 [Do Not Read]
- Refuse to Answer.....- 999 [Do Not Read]

**ENTER CODE**

86. On a typical day, how much time in total does it take to collect water from this source? [*If water is delivered, how long does delivery take?*] [READ LIST]

- Less than 30 minutes.....1
- Between 30 minutes and 1 hour.....2
- Between 1 hour and 1.5 hours.....3
- Between 1.5 and 2 hours.....4
- 2 hours or more.....5
- Don't Know.....-777 [Do Not Read]
- Not Applicable.....-888 [Do Not Read]
- Refuse to Answer.....- 999 [Do Not Read]

ENTER CODE

87. Does your household currently pay to use this secondary water source?

- Yes.....1
- No.....2

ENTER CODE

88. Do the members of your household usually bath in the Nile River?

Yes.....1 **[Skip to→91]**

No.....2

**ENTER CODE**

**89.** Where does your household bathing water usually come from?

Tap.....1

Borehole.....2

Well.....3

Tubewell/Handpump .....4

Still Open Water (Lake, Pond, Reservoir) .....5

Open Running Water (River, Canal).....6

Water Vender (Truck, Tank).....7

Other (Specify \_\_\_\_\_).....8

Don't Know.....-777 **[Do Not Read] [Skip to→91]**

Refuse to Answer.....- 999 **[Do Not Read] [Skip to→91]**

**ENTER CODE**

90. On a typical day, how many jerry cans of water did your family use for bathing?

**JERRY CANS**

91. Do members of your household usually wash clothes in the Nile River?

Yes.....1 **[Skip to→94]**

No.....2

**ENTER CODE**

92. Where does your household washing water usually come from?

Tap.....1

Borehole.....2

Well.....3

Tubewell/Handpump .....4

Still Open Water (Lake, Pond, Reservoir) .....5

Opening Running Water (River, Canal).....6

Water Vender (Truck, Tank).....7

Other (Specify\_\_\_\_\_)......8

Don't Know.....-777 **[Do Not Read] [Skip to→94]**

Refuse to Answer.....- 999 **[Do Not Read] [Skip to→94]**

**ENTER CODE**

**93.** In a typical week, how many jerry cans of water did your household use for washing clothes?

**JERRY CANS**

**94.** Please list how much your household paid in total for water in each of the three following dry-season months:

**[Please read the months. If “Don’t Know” enter -777. If “Not Applicable” because they were not at this location at the time enter -888. If “Refuse to Answer” enter -999. Enter 0 if the household did not pay for water.]**

	<b>Month</b>	<b>Total in Pounds</b>
A	February 2008	_____Pounds
B	January 2008	_____Pounds
C	December 2007	_____Pounds

94. Please also list how much your household paid in total for water in each of the three following rainy-season months:

[Please read the months. If “Don’t Know” enter -777. If “Not Applicable” because they were not at this location at the time enter -888. If “Refuse to Answer” enter -999. Enter 0 if the household did not pay for water.]

	Month	Total in Pounds
A	June 2007	_____Pounds
B	July 2008	_____Pounds
C	August 2008	_____Pounds

**XI. WILLINGNESS-TO-PAY FOR IMPROVED WATER SERVICES**

[Please Say: *I will present you with two scenarios for improved water services in your community and ask you about your household’s ability to pay for such services. Please be aware that this exercise is hypothetical and the services in the scenarios presented here are not guaranteed.*”]

**96. Scenario 1:** Suppose the government and your payam leaders are able to provide your community with clean water from a community tank everyday. Suppose the faucet is not more than **500 meters** from your home. A representative from the payam comes **every morning and every evening for two hours** to open the tank so people can fill up their jerry cans. *How much would your household be willing to pay for 40 liters of water to use this service?*

[START THE BIDS RANDOMLY]

Bids		Check off if Willing to Pay
A.	50 Piestras	
B.	1 Pound	
C.	1.50 Pounds	
D.	2 Pounds	

**97. Scenario 2:** Suppose the government and your payam leaders are able to provide your community with clean water from a community tank everyday. Suppose the tank is not more than **100 meters** from your home. There is a representative from the payam there **everyday for 12 hours** to open the tank so that people can fill up their jerry cans. *How much would your household be willing to pay for 40 liters of water to use this service?*

[START THE BIDS RANDOMLY]

Bids		Check off if Willing to Pay
A.	50 Piestras	
B.	1 Pound	
C.	1.50 Pounds	
D.	2 Pounds	

**XII. LATRINE USAGE**

[Please say: *“Now I will ask you some questions about your household’s use of latrine and sanitation facilities.”*]

98. What type of latrine does your household generally use? **[Read List]**

- Uncovered Pit Latrine.....1
- Covered Pit Latrine .....2
- Flush Toilet .....3
- Bucket Toilet .....4
- Open Area Outside.....5
- Nile River.....6
- Other (Specify \_\_\_\_\_).....7
- Don't Know.....-777 **[Do Not Read] [Skip to→104]**
- Refuse to Answer.....- 999 **[Do Not Read] [Skip to→104]**

**ENTER CODE**

99. Do you share this latrine with other households?

- Yes.....1
- No.....2 **[Skip to→101]**

ENTER CODE

100. How many households share this source? [If “Don’t Know” enter -777. If “Refuse to Answer” enter -999]

NO. OF HOUSEHOLDS

101. How far is this latrine from your dwelling? [Read List]

- Within Premises.....1
- Less than 0.5KM.....2
- 0.5 to1 KM.....3
- 1 KM or more.....4
- Don’t Know.....-777 [Do Not Read]
- Refuse to Answer.....- 999 [Do Not Read]

ENTER CODE

**102.** During the last 12 months, has your household paid any money to maintain this latrine? **[This can be in either individual maintenance costs or household contributions to maintain a shared latrine.]**

Yes.....1

No.....2 **[Skip to→104]**

**ENTER CODE**

**103.** During the last 12 months how much has your household paid in total to maintain this latrine?

**ENTER IN POUNDS**

**XIII. WILLINGNESS-TO-PAY FOR LATRINE SERVICES**

[Please say: *“I will now present to you two scenarios for improved latrine services in your community and ask you about your household’s ability to pay for such services. Please be aware that that this exercise is hypothetical and the services in the scenarios presented here are not guaranteed.”*]

**104. Scenario 1:** Suppose the government and payam leaders are able to provide your community with community latrine facilities not more than **500 meters** from your home. These facilities have latrines, toilets, showers and sinks. A representative from the payam comes **once per week** to clean and maintain the latrine. **How much would your household be willing to pay for daily use of this facility, assuming the government charged per household?**

[START THE BIDS RANDOMLY]

Bids		Check off if Willing to Pay
A.	50 Piestras	
B.	1 Pound	
C.	1.50 Pounds	
D.	2 Pounds	

**105. Scenario 2:** Suppose the government and payam leaders are able to provide your community with community latrine facilities not more than **100 meters** from your home. These facilities have latrines, toilets, showers and sinks. A representative from the payam comes **once per day** to clean and maintain the latrine. **How much would your household be willing to pay for daily use of this facility, assuming the government charged per household?**

[START THE BIDS RANDOMLY]

Bids		Check off if Willing to Pay
A.	50 Piestras	
B.	1 Pound	
C.	1.50 Pounds	
D.	2 Pounds	

**XIII. WATER BORNE DISEASE**

[Please say: *“Now I will ask you some basic information about water borne diseases in your household”*]

106. Did any members of your household suffer from severe diarrhea during the past 12 months?

Yes.....1

No.....2 [Skip to →115]

**ENTER CODE**

<b>PERSONAL ID CODE</b>	<p><b>107.</b> Please list all the members of your household who have suffered from severe diarrhea during the past 12 months.</p>	<p><b>108.</b> For how many weeks did [NAME] have severe diarrhea?</p> <p style="text-align: center;"><b>[Please enter the number of weeks. Please enter “one week” even if it is less than one week.]</b></p>	<p><b>109.</b> Did [NAME] miss his/her normal daily activities due to severe diarrhea?</p> <p>Yes.....1</p> <p>No.....2</p> <p><b>[Skip to→111]</b></p>	<p><b>110.</b> For how many weeks did [NAME] miss his/her normal daily activities due to severe diarrhea?</p> <p style="text-align: center;"><b>[Please enter “one week” even if it is less than one week.]</b></p>	<p><b>111.</b> What action was taken to treat [NAME] for severe diarrhea? <b>[Read List]</b></p> <p>Did nothing, not serious.....1</p> <p>Did nothing, no money.....2</p> <p><b>[Skip to→113]</b></p> <p>Used medicine had in stock .....3</p> <p>Home-made medicine ..... 4</p> <p>Bought medicine at local market.5</p> <p>Public Hospital.....6</p> <p>Private Hospital.....7</p> <p>Public Clinic.....8</p> <p>Private Clinic.....9</p> <p>Traditional Healer.....10</p> <p>Church/Mosque Facility.....11</p> <p>Foreign Aid Clinic.....12</p> <p>Other (Specify _____).....13</p> <p>Don't Know.....-777</p> <p><b>[Do Not Read] [Skip to→113]</b></p> <p>Refuse to Answer.....-999</p> <p><b>[Do Not Read] [Skip to→113]</b></p>	<p><b>112.</b> How much did you spend on treating [NAME] for severe diarrhea during the past 12 months?</p> <p style="text-align: center;"><b>[Please enter amount in pounds]</b></p>

01						
02						
03						
04						
05						
06						
07						
08						
09						
10						

113. During the last 12 months, have there been any deaths in your household due to severe diarrhea?

Yes.....1

No.....2 [Skip to→115]

ENTER CODE

114. Please list the people in your household who have died due to severe diarrhea during the last 12 months.

	a. Household member ID Code	b. Name of Household Member
1		
2		
3		

**XV. SANITATION PRACTICES**

[Please say: “Now I will ask you some basic information about the sanitation practices in your household”.]

115. How often do most members of your household wash their hands before eating a meal? **[Read List]**

- Always.....1
- Sometimes.....2
- Rarely.....3

**ENTER CODE**

116. What do most members of your household use to wash their hands before a meal? **[Read List]**

- Water alone.....1
- Water and Soap.....2
- Ash.....3
- Sand.....4
- Other (Specify\_\_\_\_\_).5
- Don't Know.....-777 **[Do Not Read]**
- Refuse to Answer.....- 999 **[Do Not Read]**

**ENTER CODE**

117. How often do most members of your household wash their hands after defecating? **[Read List]**

- Always.....1
- Sometimes.....2
- Rarely.....3

ENTER CODE

118. What do most members of your household use to wash their hands after defecation? **[Read List.]**

- Water alone.....1
- Water and Soap.....2
- Ash.....3
- Sand.....4
- Other (Specify\_\_\_\_\_ ).....5
- Don't Know.....-777 **[Do Not Read]**
- Refuse to Answer.....- 999 **[Do Not Read]**

ENTER CODE

119. How often do most of the members of your household bathe?

- More than twice per day.....1
- Twice per day.....2
- Once per day.....3
- Three to four times per week.....4
- Two to three times per week.....5
- Once per week.....6
- Once per every two weeks.....7
- Once per month.....8
- Other (Specify\_\_\_\_\_).9
- Don't Know.....-777 **[Do Not Read]**
- Refuse to Answer.....- 999 **[Do Not Read]**

ENTER CODE

*[ This concludes the survey. Thank you for providing us with information about your household.]*

# SISP Water Projects Baseline Survey: Demographic Settlement Module

A.1	City Identification			
A.2	Payam Identification			
A.3	Block Identification			
A.4	Boma Identification			
A5	Survey Number			

**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

[At this point, please begin the interview by saying: *“Good Afternoon, my name is \_\_\_\_\_ . I am from the company that is providing emergency water services to this area, which is funded by the United States Agency for International Development in cooperation with the Central Equatoria Ministry of Public Health. I am conducting this survey, with the permission of your Payam leaders as well as the Central Equatoria Ministry of Public Health about how water and sanitation services affect your community. Therefore, I would like to speak to the Boma Chief, or the person who usually runs things when he is away.*

[DETERMINE RESPONDENT]

*The purpose of this survey is to collect information about 1) the demographic picture of your community; 2) the resources in your community; and 3) access to water and sanitation services in your community. The results will be used to better understand how improved water and sanitation services impact a community like yours.*

*This survey is not connected to the census. Participation in this survey is completely voluntary and all community information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you or your community. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey? [If asked, this survey will take about 20 minutes.]*

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>D. RESPONDENT IDENTIFICATION</b>	
<b>D1. Respondent Name</b>	<b>D2. Title:</b>
<b>D3. Location [Describe location in relation to section area]:</b>	
<b>D4. Language of Survey</b>	

**BASIC COMMUNITY INFORMATION**

[Please say: *“First, I would like to ask you some basic questions about your community.”*]

1. What do you consider the boundaries of this Boma? [Please write a brief description below.]

---

---

---

---

---

2. To the best of your knowledge, what is the population of this Boma?

**ENTER POPULATION**

3. In the past 6 months, have any returnees settled in your community?

Yes.....1

No..... 2 [Skip to→5]

**ENTER CODE**

4. In a typical month, how many returnees settle in your community?

**ENTER NUMBER OF  
RETURNEES**

**COMMUNITY WATER RESOURCES**

[Please say: “Now I would like to ask you some questions about the water resources in this community.”]

5. Please list the primary sources of water for your community in order of importance (up to five). [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give a short description to the left.]		6. To the best of your knowledge, how many people in your community use [SOURCE]?  [Enter Number of People]	7. How far does the typical person in your community walk/drive to obtain water from [SOURCE]?  [Enter in meters or kilometers. PLEASE SPECIFY.]		8. Do people pay for [SOURCE]?  Yes.....1 No.....2 [Skip to→10] Don't Know....-777 [Skip to→10] Refuse to Answer...-999 [Skip to→10]	9. How much do people typically pay for water from [SOURCE]?  [Enter in Pounds per Unit].  [UNIT CODE FOR WATER BELOW]		10. Is [SOURCE] treated before obtaining it?  [“ ‘Treated’ means that it is filtered and/or chemicals are put in it to clean it.”]  Yes.....1 Sometimes....2 No.....3 [Skip to→12] Don't Know....-777 [Skip to→12] Refuse to Answer...-999 [Skip to→12]	11. To the best of your knowledge, how is [SOURCE] treated? [Read List]
a. Source	b. Code		a. Distance	b. Meter or KM		a. SP	B Unit Code (Below)		
Household Tap.....1									
Public Tap.....2									
Borehole.....3									
Well.....4									
Tubewell/ Handpump .....5									
Still Open Water (Lake, Pond, Reservoir) .....6									
Opening Running Water (River, Canal).....7									
Water Truck.....8									
Water Tank .....9									
Other (Specify.....).....10									
Don't Know.....-777									
[Do Not Read] [Skip to→12]									
Refuse to Answer.....-999									
[Do Not Read] [Skip to→12]									
1.									
2.									
3.									
4.									
5.									

UNIT CODE FOR WATER (Question 9)	
Jerry Can.....1	Weekly.....4
Drum.....2	Daily.....5
Monthly.....3	

**COMMUNITY SANITATION RESOURCES**

[Please say: “Now I would like to ask you some questions about the sanitation resources in this community.”]

<p><b>12.</b> Please list the primary latrine source for people in your community in order of importance (up to five). <b>[DO NOT READ LIST. Let respondent give description. Enter category code to the right and give a short description to the left.]</b></p> <p>Shared Pit Latrine.....1          Private Pit Latrine.....2          Shared Flush Toilet .....3          Private Flush Toilet .....4          Bucket Toilet .....5          Open Field Area Outside.....6          Nile River.....7          Other (Specify _____).....8          Don't Know.....-777  <b>[Skip to→18]</b>          Refuse to Answer.....-999  <b>[Skip to→18]</b></p>		<p><b>13.</b> To the best of your knowledge, how many people in your community use [LATRINE]?</p> <p><b>[Enter Number of People]</b></p>	<p><b>14.</b> How far does the typical person in your community walk/drive to this [LATRINE]?</p> <p><b>[Enter in Meters or Kilometers. PLEASE SPECIFY.]</b></p> <p>On Site.....-444          Don't Know.....-777          Refuse to Answer.....-999</p>		<p><b>15.</b> Do people pay to use [LATRINE]?</p> <p>Yes.....1          No.....2  <b>[Skip to→17]</b>          Don't Know.....-777  <b>[Skip to→17]</b>          Refuse to Answer...-999  <b>[Skip to→17]</b></p>	<p><b>16.</b> How much do people typically pay to use the [LATRINE]?</p> <p><b>[Enter in Pounds per Unit. UNIT CODES BELOW].</b></p>	<p><b>17.</b> Is [LATRINE] maintained regularly?</p> <p><b>[Please say: “Maintained” implies that the latrine is in good working order most of the time.”]</b></p> <p>Yes.....1          Sometimes.....2          No.....3          Don't Know.....-777          Refuse to Answer.....-999</p>
<b>a. Source</b>	<b>b. Code</b>	<b>a. Distance</b>	<b>b. Meters or KM</b>		<b>a. SP</b>	<b>b. Unit Code</b>	
1.							
2.							
3.							
4.							
5.							

Unit Codes for Latrines (Question 16)	
For A Single Person	For a Family
Per use.....1	Per use.....6
Per day.....2	Per day.....7
Per week.....3	Per week.....8
Per month.....4	Per month.....9
Other (Specify _____).....5	Other (Specify _____).....10

[Note: The codes for “A Single Person” are in case people are asked to pay per person. The codes for “A Family” are in case people are asked to pay per family. ]

**COMMUNITY HEALTH FACILITIES**

[Please say: *“Last, I am going to ask you about health facilities in your community.”*]

<p><b>18.</b> Please list the primary health care facilities and/or sources for health treatment for people in your community (up to five). <b>[DO NOT READ LIST. Let respondent give description. Enter category code to the right and give a short description to the left.]</b></p> <p>Public Hospital.....1          Private Hospital.....2          Public Clinic.....3          Private Clinic.....4          Traditional Healer.....5          Church/Mosque Facility.....6          Foreign Aid Clinic.....7          Other (Specify _____).....8          Don't Know.....-777  <b>[Skip to→ END SURVEY]</b>          Refuse to Answer.....-999  <b>[Skip to→ END SURVEY]</b></p>		<p><b>19.</b> To the best of your knowledge, how many people in your community use [FACILITY]?</p> <p>[Enter Number of People]</p>		<p><b>20.</b> How far does the typical person in your community walk/drive to this [FACILITY]..?</p> <p>[Enter in Meters or Kilometers. PLEASE SPECIFY.]</p> <p>Don't Know.....-777          Refuse to Answer.....-999</p>		<p><b>21.</b> To the best of your knowledge does [FACILITY] treat severe diarrhea?</p> <p>Yes.....1          No.....2  <b>[End Survey]</b>          Don't Know.....-777  <b>[End Survey]</b>          Refuse to Answer...-999  <b>[End Survey]</b></p>		<p><b>22.</b> To the best of your knowledge, how much does treatment for severe diarrhea typically cost at [FACILITY]?</p> <p>[Enter in Pounds – PLEASE SPECIFY]</p>	
<p><b>a. Source</b></p>		<p><b>b. Code</b></p>		<p><b>a. Distance</b></p>		<p><b>b. Meters or KM</b></p>			
1.									
2.									
3.									
4.									
5.									

[This concludes our interview. Thank you for your participation!]

**SISP Energy Project Interview Protocols**

<b>A.1</b>	<b>Business/Official</b>			
<b>A.2</b>	<b>Payam in Yei</b>			
<b>A.3</b>	<b>Survey Number</b>			



**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

<b>D. INTERVIEW REPLACEMENT</b>

			Code
<b>D1</b>	This is a replacement business/official?	Yes.....1	
		No.....2	

[At this point, please begin the interview by saying: *“Good Afternoon, my name is\_\_\_\_\_. I am from the company that is working on the energy sector capacity building. I am conducting this interview, with the permission of your Payam leaders as well as the GOSS MPHLU about how the training has impacted your work performance.*

[DETERMINE RESPONDENT]

*Participation in this interview is completely voluntary and all business information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey?* [If asked, the survey will take about 20 minutes.]

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>E. RESPONDENT IDENTIFICATION</b>	
<b>E1. Respondent Name:</b>	<b>E2. Title:</b>
<b>E3. Job Description</b>	
<b>E4. Language of Survey</b>	

## **II. STRUCTURED INTERVIEW QUESTIONS FOR TRAINEES:**

**[Please say: “*I would like to ask you about the training you received last year.*”]**

1a. Please briefly describe your job.

1b. Please walk me through a typical day in your job.

2a. Describe the type(s) of training you received during the last year?

2b. How long did you participate in the training?

3. What skills from the training are you using to perform your current job?

4a. Has the training helped you in your job?

4b. How?

5. Are you able to establish energy policies and regulations as a result of this training?

6. Are there any other training topics that you think will help you perform your job better?

7. Do you have any suggestions to improve the current training?

8. Is there anything else you would like to share with me?

# SISP Energy Project Interview Protocols

<b>A.1</b>	<b>Business/Official</b>			
<b>A.2</b>	<b>Payam in Yei</b>			
<b>A.3</b>	<b>Survey Number</b>			

**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

<b>D. INTERVIEW REPLACEMENT</b>

			Code
<b>D1</b>	This is a replacement business/official?	Yes.....1	
		No.....2	

[At this point, please begin the interview by saying: “*Good Afternoon, my name is \_\_\_\_\_ . I am from the company that is working on the energy sector capacity building. I am conducting this interview, with the permission of your Payam leaders as well as the GOSS MPHLU about how the training has impacted your work performance.*”

[DETERMINE RESPONDENT]

*Participation in this interview is completely voluntary and all business information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey?* [If asked, the survey will take about 20 minutes.]

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>E. RESPONDENT IDENTIFICATION</b>	
<b>E1. Respondent Name:</b>	<b>E2. Title:</b>
<b>E3. Job Description</b>	
<b>E4. Language of Survey</b>	

**II. YEI PROJECT STRUCTURED INTERVIEW FOR EMPLOYEES (Accountant, Assistant, Operation and Maintenance Person)**

**[Please say: “First I would like to ask you some questions about your job.]**

1a. Please briefly describe your job.

1b. Please walk me through a typical day in your job.

2a. Describe the type(s) of training you received during the last year?

2b. How long did you participate in the training?

3. What skills from the training are you using to perform your current job?

4a. Has the training helped you in your job?

4b. How?

4. Are you able to establish energy policies and regulations as a result of training?

6. Are there any other training topics that you think will help you perform your job better?

7. Do you have any suggestions to improve the current training?

**[Please say: “Now I would like to ask you some questions about power generation.”] (For the Operation and Maintenance Person/Accountant)**

8. What is the cost of maintaining the generators per kilowatt hour?
9. In a typical month, what is the total cost for maintaining the generators?
10. In a typical day, how many hours are the generators operational?
11. How many hours are the generators turned off for and why?
12. Are you able to maintain the generators properly?
13. How are problems with generation addressed by the board members?

**[Please say: “Now I would like to ask you some questions about power generation.”]**

14. What is the tariff charged per kilowatt hour?
15. What is the total monthly revenue collected from the customers?
16. How many customers are receiving electricity?
17. Are additional customers being added?
18. How many customers are not making regular payments?
19. What are the primary challenges to collecting revenue?
20. How do you think policy could be changed to support self-sustaining power generation?
21. Is there anything else you would like to share with me?



# SISP Energy Project Interview Protocols

<b>A.1</b>	<b>Business/Official</b>			
<b>A.2</b>	<b>Payam in Yei</b>			
<b>A.3</b>	<b>Survey Number</b>			

**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

<b>D. INTERVIEW REPLACEMENT</b>

			Code
<b>D1</b>	This is a replacement business/official?	Yes.....1	
		No.....2	

[At this point, please begin the interview by saying: “*Good Afternoon, my name is \_\_\_\_\_ . I am from the company that is working on the energy sector capacity building. I am conducting this interview, with the permission of your Payam leaders as well as the GOSS MPHLU about how the training has impacted your work performance.*”

[DETERMINE RESPONDENT]

*Participation in this interview is completely voluntary and all business information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey? [If asked, the survey will take about 20 minutes.]*

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>E. RESPONDENT IDENTIFICATION</b>	
<b>E1. Respondent Name:</b>	<b>E2. Title:</b>
<b>E3. Job Description</b>	
<b>E4. Language of Survey</b>	

**II QUESTIONS FOR CUSTOMERS (Cooperative Board Members):**

**[Please say: “Now I would like to ask you some questions about your electricity service.”]**

1. On a typical day how many hours do you have access to electricity?
2. What do you use electricity for (personal use, business, etc.)? If business, “What type of business do you have?”
3. In a typical month, how many times does the power go out unexpectedly?
4. What is your total monthly bill for electricity?
  - 4a. Do you have any problems paying the bills?
    - 4b. Please describe these problems.
5. Has access to electricity improved your monthly revenue? **(Interviewer please only ask these questions to businesses)**
  - 5b. What was your revenue prior to access to electricity?
  - 5c. What is your revenue now?
6. Are you making additional investments as a result of increased access to electricity?

7. Have you received sufficient training for you to adequately perform your duties as a cooperative member?
8. How will the decision making body (the directors) for the cooperative be elected?
9. Will they be elected on a rotating basis every six months, every year?
10. What will be the decision making process in the cooperative?
11. How does the cooperative address or how will it address operation and maintenance issues?
12. How will the cooperative address the monthly payment issue such as customers who may be late with their payment or not pay at all?
13. Does the cooperative have any intention of expanding the access to electricity? If so how many more customers would you plan to add?
14. Is there anything else you would like to share with me?

# SISP Energy Project Interview Protocols

<b>A.1</b>	<b>Business/Official</b>			
<b>A.2</b>	<b>Payam in Yei</b>			
<b>A.3</b>	<b>Survey Number</b>			

**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

<b>D. INTERVIEW REPLACEMENT</b>

			Code
<b>D1</b>	This is a replacement business/official?	Yes.....1	
		No.....2	

[At this point, please begin the interview by saying: “*Good Afternoon, my name is \_\_\_\_\_ . I am from the company that is working on the energy sector capacity building. I am conducting this interview, with the permission of your Payam leaders as well as the GOSS MPHLU about how the training has impacted your work performance.*”

[DETERMINE RESPONDENT]

*Participation in this interview is completely voluntary and all business information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey?* [If asked, the survey will take about 20 minutes.]

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>E. RESPONDENT IDENTIFICATION</b>	
<b>E1. Respondent Name:</b>	<b>E2. Title:</b>
<b>E3. Job Description</b>	
<b>E4. Language of Survey</b>	

## **II HOSPITAL/CLINIC:**

**[Please say: “Now I would like to ask you some questions about your electricity service.”]**

**Interviewer please identify the location as Hospital? Clinic?**

1. On a typical day how many hours do you have access to electricity?
2. In a typical month, how many unexpected outage do you experience?
3. What is your total monthly bill for electricity?
- 4a. Do you have any problems paying the bills?
  - 4b. Please describe these problems and how they are solved
5. What equipment and supplies do you have that requires electricity?
6. Approximately how many patients do you treat on a typical day?
7. How many patients were you treating before you had access to electricity?
8. What has been the largest impact access to electricity has had on your hospital/clinic?
9. Is there anything else you would like to share with me?

**[That concludes our interview. Thank you for your participation]**

# SISP Energy Project Interview Protocols

<b>A.1</b>	<b>Business/Official</b>			
<b>A.2</b>	<b>Payam in Yei</b>			
<b>A.3</b>	<b>Survey Number</b>			

**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

<b>D. INTERVIEW REPLACEMENT</b>

			Code
<b>D1</b>	This is a replacement business/official?	Yes.....1	
		No.....2	

[At this point, please begin the interview by saying: “*Good Afternoon, my name is\_\_\_\_\_ . I am from the company that is working on the energy sector capacity building. I am conducting this interview, with the permission of your Payam leaders as well as the GOSS MPHLU about how the training has impacted your work performance.*

[DETERMINE RESPONDENT]

*Participation in this interview is completely voluntary and all business information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey? [If asked, the survey will take about 20 minutes.]*

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>E. RESPONDENT IDENTIFICATION</b>	
<b>E1. Respondent Name:</b>	<b>E2. Title:</b>
<b>E3. Job Description</b>	
<b>E4. Language of Survey</b>	

## **II. SCHOOL**

**[Please say: “Now I would like to ask you some questions about your electricity service.”]**

1. On a typical day how many hours do you have access to electricity?
2. In a typical month, how many unexpected outage do you experience?
3. What is your total monthly bill for electricity?
4. Do you have any problems paying the bills?
  - 4b. Please describe these problems and how they are solved
5. How many students attend the school?
6. How many students attended prior to access to electricity?
7. Do any of the courses require access to electricity?
8. What has been the largest impact access to electricity has had on your school?
9. Is there anything else you would like to share with me?

**[That concludes our interview. Thank you for your participation]**

# SISP Energy Project Interview Protocols

<b>A.1</b>	<b>Business/Official</b>			
<b>A.2</b>	<b>Payam in Yei</b>			
<b>A.3</b>	<b>Survey Number</b>			

**I. SURVEY INFORMATION**

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INTERVIEW ATTEMPT</b>						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
<b>C1</b>	First Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			
<b>C2.</b>	Second Visit		Interview conducted.....1			
			Come-Back.....2			
			Unavailable.....3			
			Refusal.....4			

<b>D. INTERVIEW REPLACEMENT</b>

			Code
<b>D1</b>	This is a replacement business/official?	Yes.....1	
		No.....2	

[At this point, please begin the interview by saying: *“Good Afternoon, my name is\_\_\_\_\_. I am from the company that is working on the energy sector capacity building. I am conducting this interview, with the permission of your Payam leaders as well as the GOSS MPHLU about how the training has impacted your work performance.*

[DETERMINE RESPONDENT]

*Participation in this interview is completely voluntary and all business information will be treated anonymously and be kept in the strictest confidence. No information will be identified with you. In addition, no person now or in the future will be able to trace this information after it is has been provided. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey? [If asked, the survey will take about 20 minutes.]*

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

E. RESPONDENT IDENTIFICATION	
E1. Respondent Name:	E2. Title:
E3. Job Description	
E4. Language of Survey	



## PROMPTS FOR INTERVIEWERS

While some questions on this interview protocol are meant to elicit specific information (i.e. any questions that ask for quantities or numbers), semi-structured interviews are meant to be much more of an open-ended conversation with respondents than quantitative surveys. The idea behind this is that we would like to get a more nuanced, detailed picture of the communities that we are working in. Thus, interviewers are encouraged to ask follow-on questions to elicit more information from community leaders. Below are some potential prompts to help you explore open-ended questions further.

### Clarifying Prompts

- Can you clarify that for me? I do not quite understand.
- So, let me repeat that back to you: \_\_\_\_\_ . Do I have that right?

### Elaboration Prompts

- Can you please explain that in more detail?
- That is very interesting, can you elaborate on that?
- Can you please give me a bit more background information on that?

### “Reigning-In” Prompts

- That’s an interesting point, but I would like to get back to \_\_\_\_\_.
- Can we return to back to your earlier point about \_\_\_\_\_?

### Standard Follow-On Prompts

- Who?
- What?
- Where?
- Why?
- How?

This list is by no means exhaustive. So please do not be afraid to probe further and ask interesting questions follow-ups based on what the interviewer tells you.

## SISP Energy Baseline Survey: Household Module

### Kapoeta

<b>A.1</b>	<b>City Identification</b>	<b>Kapoeta</b>				
<b>A.2</b>	<b>Waypoint Number</b>					
<b>A.3</b>	<b>Survey Number</b>	<b>2009</b>	<b>2</b>			

<b>B. FIELD TEAM</b>					
		<b>Name</b>	<b>Signature</b>	<b>Date (M/D/Y)</b>	<b>ID Code</b>
<b>B1</b>	Enumerator				

<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INITIAL HOUSEHOLD INTERVIEW ATTEMPTS</b>						
		<b>a. Date (M/D/Y)</b>	<b>Result</b>	<b>b. Code</b>	<b>c. Time: START</b>	<b>d. Time: END</b>
<b>C1</b>	First Visit		Fully conducted.....1			
			Partially conducted.....2 <b>[Do Second Attempt → C2]</b>			
			Respondent not present.....3 <b>[Do Second Attempt → C2]</b>			
			Respondent asked to come back....4 <b>[Do Second Attempt → C2]</b>			
			Refusal.....5 <b>[Do Replacement → D1]</b>			
<b>C2</b>	Second Visit		Fully conducted.....1			
			Partially conducted.....2			
			Respondent not present.....3			

			[Do Replacement → D1]		
			Respondent asked to come back.....4		
			[Do Replacement → D1]		
			Refusal.....5		
			[Do Replacement → D1]		

[IF TWO ATTEMPTS ARE UNSUCCESSFUL OR THERE IS A REFUSAL, SELECT A REPLACEMENT HOUSE]

D. REPLACEMENT HOUSEHOLD INTERVIEW ATTEMPTS						
		a. Date (M/D/Y)	Result	b. Code	c. Time: START	d. Time: END
D1	First Visit		Fully conducted.....1			
			Partially conducted.....2			
			[Do Second Attempt → D2]			
			Respondent not present.....3			
			[Do Second Attempt → D2]			
Respondent asked to come back...4						
			[Do Second Attempt → D2]			
			Refusal.....5			
D2	Second Visit		Fully conducted.....1			
			Partially conducted.....2			
			Respondent not present.....3			
			Respondent asked to come back...4			
			Refusal.....5			

[IF YOU ARE UNABLE TO CONDUCT THE INTERVIEW AFTER TWO ATTEMPTS WITH THE INITIAL AND REPLACEMENT HOUSEHOLD, GIVE THIS SURVEY TO YOUR MANAGER AND START OVER WITH A NEW SURVEY]

[At this point, please begin the interview by saying: *“Good Morning/Afternoon, my name is \_\_\_\_\_. I am from a company that is studying energy use in South Sudan. The project is funded by The United States Agency for International Development in cooperation with the Government of South Sudan. As part of this project, we are conducting a survey, with the permission of your Payam leaders as well as the Ministry of Mines and Energy that asks important questions about income level and electricity use in your home. Therefore, I would like to speak to the Head of the Household [the person in the household who is the primary breadwinner and makes most of the financial decisions] or a spouse of the Head of the Household.*

[DETERMINE THE RESPONDENT]

*The purpose of this survey is to collect information about how electricity will affect your household. Please be aware that participation in this survey is completely voluntary. Your responses will be combined with those of other businesses and any personal information will not be used for this study. If we should come to any question you don't want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.” The results will be used to better understand how improved energy services impact communities like yours.*

*At this time, do you want to ask me anything about the survey?* [If asked, the survey will take about 45 min ]

*May I begin now?”*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>E. RESPONDENT IDENTIFICATION</b>
<b>E1. Respondent Name</b>
<b>E2. Location [Describe location in relation to section area]:</b>
<b>E3. Language of Survey</b>

### **DEFINITIONS FOR ENUMERATORS**

#### **Household Roster**

The interviewer must fill out the household roster and yellow name sheet immediately after he/she identifies the respondent and before any other questions on the survey are asked. Before beginning

the household roster, please read the following definition of a household to the respondent: ***“I would now like you to list all the people in your household and their relationship to you. A household is defined as a group of people who eat together and have been living together for at least 6 of the past 12 months. A person who has lived away from the household for more than 6 months is not considered part of the household even if others in the household consider that person a part of the household. People who live together in the same dwelling but do not eat together are not considered members of the same household. Two exceptions to this rule apply:***

- 1. Persons who are away from the household for more than six months, but are considered the main provider for the household can be counted as part of the household.***
- 2. Servants, lodgers, farm-workers and laborers who live and take meals with the household can be counted as part of the household.”***

It is very important that the interviewer define the household according to these criteria, even though it may not conform to the respondents’ definition of the household.

### **Personal ID Number**

The first column of the roster is labeled “Personal ID Number”. Each line in the grid is assigned a number from 1-10. The “Personal ID Number” is extremely important, as it allows the information gathered in various sections of the questionnaire to be matched together. For example, if a person is assigned the “ID Code” 05 in the roster, then all other sections of the questionnaire where information is collected for individual household members should be entered as “ID Code” 05.

Please write the names and Personal ID of each household member on the yellow name sheet. Use this sheet to keep track of the names and Personal ID Number of each household member when you mark any questions that refer to them in the survey.

**II. THE HOUSEHOLD ROSTER<sup>i</sup>**

[Please say: “Now I will ask you some basic information about the members of your household”.]

PERSONAL ID NUMBER	1. Please list all of the people in your household beginning with the head of the household.  <i>[A household is defined as a group of people who eat together and have been living together for at least 6 of the past 12 months.]</i>	2. Relationship to the head of the household.	3. Sex	4. Age  <b>[If less than one year write 0]</b>
		Head of Household.....1	M....1	
		Spouse of Head of Household.....2	F....2	
		Son/Daughter.....3		
		Spouse of Son/Daughter.....4		
		Grandchild.....5		
		Brother/Sister.....6		
		Father/Mother.....7		
		Father/Mother-in-Law...8		
		Brother/Sister-in-Law...9		
		Uncle/Aunt.....10		
		Cousin.....11		
		Friend.....12		
		Servant.....13		
		Laborer.....14		

**[Complete Household Roster Instructions Below]**

		Other: (Specify _____).... 15		
<b>01</b>				
<b>02</b>				
<b>03</b>				
<b>04</b>				
<b>05</b>				
<b>06</b>				
<b>07</b>				
<b>08</b>				

09				
10				

[Do Not Read] [At this time write names and Personal ID on yellow sheet]

[END HOUSEHOLD ROSTER]

**III. DWELLING CHARACTERISTICS AND RESIDENTIAL STATUS**

[Please say: *Now I would like to ask you about your dwelling and your residential status.*]

[Before beginning this section, please read the following definition of dwelling to the respondent: *“A dwelling is a space or a collection of spaces in which your household resides. If you reside in a space with another household (for example, if another family lives in the same house, but does not eat meals with you or share food expenses), please only refer to your household’s specific space when answering the following questions.”*]

<p><b>5. In which type of dwelling does your household reside? <sup>ii</sup></b></p> <p>House made of mud.....1</p> <p>House made of concrete..... 2</p> <p>House made of wood.....3</p> <p>House made of corrugated metal.....4</p> <p>Apartment.....5</p> <p>Stick Tukul.....6</p> <p>Mud Brick Tukul.....7</p> <p>Tent.....8</p> <p>Other (Specify _____).....9</p>	<p><b>6. What type of tenure does your household have in the dwelling? [Please Say: <i>“The term ‘tenure’ refers to the legal relationship between your household and your dwelling.”</i>]</b></p> <p><b>[Read List]</b></p> <p>Owned.....1</p> <p>Rented.....2</p> <p>Built by household, but no deed or title.....3</p> <p>Donated.....4</p> <p>Other (Specify _____).....5</p>	<p><b>7. What is your household’s residential status? [Read List]</b></p> <p>Continuous resident of Kapoeta for 2 years or more.....1</p> <p>Returned to Kapoeta between 1-2 years ago.....2</p> <p>Returned to Kapoeta 1 year ago or less.....3</p> <p>Internally displaced.....4</p> <p>Nomad.....5</p> <p>Other (Specify _____).....6</p> <p>Don’t Know.....-777</p>
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Answer Codes: Don’t Know.....-777 Refuse to Answer....-999

<b>ENTER CODE:</b>	<b>ENTER CODE:</b>	<b>ENTER CODE:</b>
--------------------	--------------------	--------------------

Answer Codes: Don't Know.....-777 Refuse to Answer....-999

**IV. HOUSEHOLD CHARACTERISTICS**

[Please say: “Now I would like to ask you some questions about the characteristics of your household.”]

<p><b>8.</b> What is the primary language spoken in your household? [Please say: “<i>The term ‘primary language’ means the language that is spoken most of the time by members of the household within the household.</i>”]</p> <p>Arabic.....1 Taboza.....2 Boyo.....3 Didinka.....4 Dinka.....5 Fertit.....6 Jurbel.....7 Jursho.....8 Nuer.....9 Shilluk.....10 English.....11 Other (Specify.....).....12</p>	<p><b>9.</b> Is there a secondary language spoken by your household? [Please say: <i>The term ‘secondary language’ means a language that is spoken occasionally within the household and/or outside of the household to interact with outsiders.</i>]</p> <p>Yes.....1 No..... 2 [Skip to→11]</p>	<p><b>10.</b> What is the secondary language in your household? [Read List]</p> <p>Arabic.....1 Taboza.....2 Boyo.....3 Didinka.....4 Dinka.....5 Fertit.....6 Jurbel.....7 Jursho.....8 Nuer.....9 Shilluk.....10</p>	<p><b>11.</b> Which tribe do most of the members of your household belong to? [Read List]</p> <p>Taboza.....1 Didinka.....2 Boyo.....3 Dinka.....4 Fertit.....5 Jurbel.....6 Jursho.....7 Nuer.....8 Shilluk.....9 Other (Specify.....).....10</p>
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Answer Codes: Don’t Know.....-777 Refuse to Answer....-999

		English.....11 Other (Specify.....).....12	
<b>ENTER CODE:</b>	<b>ENTER CODE:</b>	<b>ENTER CODE:</b>	<b>ENTER CODE:</b>

Answer Codes: Don't Know.....-777 Refuse to Answer.....-999

**V. CONSUMPTION AND EXPENDITURES**

[Please Say: *Now I would like to ask you about the consumption and expenditures for your household.*]

12. How much money does your household usually spend on food each day?

Kenyan Shilling

Sudanese Pound

13. Does your household produce some of the food it eats?

Yes.....1

No.....2

**ENTER CODE**

<p><b>14. In the past month (30 days) have you or anyone in your household purchased [ITEM]?</b></p> <p>Yes.....1</p> <p>No.....2</p>		<p><b>15. How much did your household pay in total for [ITEM] over the past month (30 days)?</b></p> <p><b>Enter Amount and Currency</b></p>
<p><b>a. Non-Food Item</b></p> <p>1. Body Soap</p>	<p><b>b. Code</b></p>	
		<p><input type="checkbox"/> Kenyan Shilling</p> <p><input type="checkbox"/> Sudanese Pound</p>

Answer Codes: Don't Know.....-777 Refuse to Answer....-999

3. Toothpaste		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
4. Toilet paper		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
6. Household cleaning products (dish soap, clothes soap etc.)		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
7. Petrol		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
8. Diesel		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
9. Charcoal		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
10. Kerosene		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
11. Fire wood		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
12. Public Transportation (bus fare, etc.)		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
<b>16.</b> In the past 12 months, have you or anyone in your household purchased. [ITEM]?  Yes.....1 No.....2		<b>17.</b> How much did your household pay in total for [ITEM] over the past 12 months?  <b>Enter Amount and Currency</b>
<b>a. Non-Food Item</b>	<b>b. Code</b>	

1. Clothing		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
2. Shoes		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
3. School Fees		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
4. Health Care Services		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
5. Housing Maintenance (repairs and improvements)		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
6. Housing Rent		<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound

## VI. HOUSEHOLD WEALTH ASSESEMENT

[Please say: *“Now I would like to ask you about some of the goods in your household”*]

18. Does your household have a [ITEM]?		19. How many [ITEM] does your household own?  [Enter Number]	20. How many hours per day do you operate [ITEM]?		
Yes.....1 No.....2					
<b>Item</b>	<b>Code</b>				
1. Television					
2. Radio					
3. Mobile Phone				3a. Does your household pay to charge mobile phones? Yes...1 No...2	3b. How much did your household spend in the last 30 days on mobile phone charging?
				<b>Enter Code:</b>	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound

Answer Codes: Don't Know.....-777 Refuse to Answer....-999

4. Computer					
5. Refrigerator					
6. Satellite Dish					
7. Fan					
8. Air Conditioner					
11. Kerosene or Paraffin Stove					
12. Refrigeration					
12. Sewing Machine					
14. Welding Equipment					
15. Power tools					
16. Pump					
17. Electric Iron					
18. Grinding Machine					
18. Blender					

**VII. SECTION A: HOUSEHOLD ACTIVITIES AND LIVELIHOOD**

[Please Say: *Now I would like to ask you about the activities and sources of livelihood.*]

<b>PERSONAL ID NUMBER</b>	<p><b>21. Please list the primary work or school activities of all of the household members over 10 years-old during the last 12 months. [DO NOT READ LIST. Give short description to the left, and insert code at right.]</b></p>		<p><b>22. Was the activity performed by [NAME] considered:</b></p>
	Pupil/Student.....1		Any Paid Labor.....7
	Unemployed .....2		<b>[GO TO SECTION B, PAGE 11, Q. 23]</b>
	Day Labor or Temporary Labor .....3		Own Business/ Own Non-Agricultural Production.....
	Government Wage Employment.....4		<b>[GO TO SECTION C, Page 12, Q. 26]</b>
	Armed Forces.....5		Own Agricultural Production.....
	Salaried Employment .....6		<b>[GO TO SECTION D, Page 13, Q. 34]</b>
	Helps in family business .....7		Unemployment/Doesn't work.....
	Small Business Owner .....8		<b>(STOP)</b>
	Large Business Owner.....9		Student.....
	Skilled Trade (Electrician, Plumber, etc.).....10		<b>(STOP)</b>
	Long-Term Agricultural Employee.....11		
	Charity/Alms .....12		
	Fishing Activities.....13		
	Own Farm/ Animal husbandry.....14		
Homemaker/Child Care .....15 <b>(STOP)</b>			
Retired/Too Old .....16 <b>(STOP)</b>			
Too Young.....17 <b>(STOP)</b>			
Disabled/Handicapped/Sick.....18 <b>(STOP)</b>			
Other (Specify.....).....19			
Don't Know.....-777 <b>(STOP)</b>			
Refuse to Answer.....-999 <b>(STOP)</b>			
<b>a. Description of activity</b>	<b>b. Code</b>		
<b>01</b>			

Answer Codes: Don't Know.....-777 Refuse to Answer....-999

02			
03			
04			
05			
06			
07			
08			
09			
10			

[END OF SECTION A]

**SECTION B: CASUAL AND SALARIED LABOR**

[Complete this section for all household members that perform PAID LABOR of any type]

	Please recopy the list of household members who participate in CASUAL OR SALARIED LABOR from Q. 21 above.	23. Was [NAME] paid a wage for this activity?  Yes.....1  No.....2  [Skip to→25]  Don't Know.....-777 <b>[Do Not Read]</b> <b>[Skip to→25]</b>  Refuse to Answer.....-999 <b>[Do Not Read]</b> <b>[Skip to→25]</b>	24. How much was [NAME] paid for this activity?			24. A Currency  <b>[ENTER CURRENCY CODE]</b>  Kenyan Shilling.....1 Sudanese Pounds.....2	25. Was [NAME] paid in-kind for this activity?  Yes.....1 No.....2
			a. Per Day	b. Per Week	c. Per Month		
01							
02							
03							
04							
05							

Answer Codes: Don't Know.....-777 Refuse to Answer.....-999

06							
07							
08							
09							
10							

[END OF SECTION B]

**SECTION C: OWN BUSINESS/TRADE/PRODUCTION**

Complete this section for all household members who have their **OWN BUSINESS, TRADE, and PRODUCTION**

	<p><b>Please recopy the list of household members who have their OWN BUSINESS, TRADE, PRODUCTION from Q. 21 above.</b></p>	<p><b>26.</b> In what year was this business founded?</p> <p>[Enter Year]</p>	<p><b>27.</b> Do any non-household members work at this business?</p> <p>Yes.....1</p> <p>No.....2</p> <p><b>[Skip to→29]</b></p> <p>Don't Know.....-777</p> <p><b>[Do Not Read]</b></p> <p><b>[Skip to→29]</b></p> <p>Refuse to Answer....-999</p> <p><b>[Do Not Read]</b></p> <p><b>[Skip to→29]</b></p>	<p><b>28.</b> How many non-household members work at this business?</p> <p>[Enter Number]</p>	<p><b>29.</b> In a typical month, how much does [NAME] earn in total from this business?</p> <p>[Enter Amount]</p>	<p><b>30.</b> Kenyan Shilling.....1</p> <p>Sudanese Pounds.....2</p> <p>[Enter Currency]</p>	<p><b>31.</b> Is this business located outside of the household?</p> <p>Yes.....1</p> <p>No.....2</p>	<p><b>32.</b> What kind of business is this?</p> <p>Sale.....1</p> <p>Service...2</p> <p>Small-scale Industry...3</p> <p>Other.....4</p> <p>(_____)</p>	<p><b>33.</b> Does this business depend on electricity (from a generator, batteries or power) to operate?</p> <p>Yes.....1</p> <p>No.....2</p>
--	--	---	--	---	--	--	---	---	--

Answer Codes: Don't Know.....-777 Refuse to Answer....-999

01									
02									
03									
04									
05									
06									
07									

Answer Codes: Don't Know.....-777 Refuse to Answer....-999

**SECTION D: OWN AGRICULTURAL/ANIMAL HUSBANDRY PRODUCTION**

[Please say: “*Now I would like to ask you about your household’s own agricultural production.*”]

34. During the last 12 months, has your household cultivated any agricultural crops?

Yes.....1

No.....2 [Skip to→36]

**ENTER CODE**

35. What was the total value of all crop sales during the last 12 months?

Kenyan Shilling

Sudanese Pound

36. During the last 12 months, has your household sold any animal products (meat, eggs, milk, hides) not including the sale of live animals?

Yes.....1

No.....2 [Skip to→38]

**ENTER CODE**

Answer Codes: Don’t Know.....-777 Refuse to Answer.....-999

37. What was the total value of all animal products (meat, eggs, milk, hides) sold during the last 12 months, not including the sale of live animals?

Kenyan Shilling

Sudanese Pound

[END OF SECTION D]

**VIII: Livestock**

[Please say: *“Now I would like to ask you about other sources of livelihood.”*]

Answer Codes: Don't Know.....-777 Refuse to Answer....-999

38. During the last 12 months has your household kept any live animals?

Yes.....1

No.....2 **[Skip to→47]**

**ENTER CODE**

<p><b>39. Please tell me the primary animals that your household kept during the last 12 months. [DO NOT READ LIST. Let respondent give description. Enter category code to the right and give short animal description to the left.]</b></p> <p>Cow.....1</p> <p>Buffalo.....2</p> <p>Goat.....3</p> <p>Sheep.....4</p> <p>Horse.....5</p> <p>Donkey.....6</p> <p>Mules.....7</p> <p>Chicken.....8</p> <p>Other (Specify.....).....9</p> <p>Don't Know.....-777</p>	<p><b>40. How many [ANIMAL] did your households keep during the last 12 months?</b></p> <p><b>[Enter number of animals]</b></p>	<p><b>41. What was the primary reason for keeping these animals?</b></p> <p>Income.....1</p> <p>Wealth.....2</p> <p>Food.....3</p>	<p><b>42. Did your household sell any [ANIMAL] during the last 12 months?</b></p> <p>Yes.....1</p> <p>No.....2</p> <p><b>[Skip to→47]</b></p> <p>Don't Know.....-777</p> <p>Refuse to</p>	<p><b>43. How many [ANIMAL] did your household sell during the last 12 months?</b></p> <p><b>[Enter number of animals]</b></p>	<p><b>44. What was the total value of all [ANIMAL] sales during the last 12 months?</b></p> <p><b>[Enter Amount]</b></p>	<p><b>45. Currency</b></p> <p>Kenyan Shilling.....1</p> <p>Sudanese Pound....2</p> <p><b>[Enter Currency]</b></p>	<p><b>46. Were these [ANIMAL] sold to pay for an emergency purposes?</b></p> <p>Yes.....1</p> <p>No.....2</p>
--	---	--	---	--	--	---	---

Answer Codes: Don't Know.....-777 Refuse to Answer....-999

Refuse to Answer.....-999 <b>[Do Not Read] [Stop section]</b>				Answer....-999 <b>[Do Not Read]</b> <b>[Skip to→47]</b>				
<b>a. Description of Animals</b>	<b>b. Code</b>							
1.								
2.								
4.								
5.								

**IX. REMITTENCES AND TRANSFERS**

47. During the past 12 months, has your household received money from friends or family living outside your household?

Yes.....1

No.....2 [Skip to→ 49]

**ENTER CODE**

48. How much in total did your household receive during the last 12 months?

Kenyan Shilling

Sudanese Pound

49. During the past 12 months, has your household sent money to friends or family living outside your household?

Yes.....1

No.....2 [Skip to→51]

**ENTER CODE**

50. How much in total did your household send during the last 12 months?

Kenyan Shilling

Sudanese Pound

**X. HOUSEHOLD ELECTRICITY USE**

[Please Say: “Now I would like to ask you some questions about what type of fuels and electricity you use in your household]

<b>51.</b> Does your household use candles for lighting?			
Yes.....1	<b>52.</b> What Size: <b>[READ LIST]</b> Small.....1	<b>53.</b> How many candles were used in the 30 days?	<b>54.</b> How much does your household spend for each candle?
No.....2	Large.....2		
<b>[Skip to→ 55]</b>			
<b>Enter Code:</b>	<b>Enter Code:</b>	<b>Number of Candles:</b>	<input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound

<b>55.</b> Does your household use a lamp for lighting?
---

Yes.....1  No.....2 <b>[Skip to→ 59]</b>	<b>56. What Type:</b>  <b>[READ LIST]</b>  Pressure.....1 Hurricane.....2 Wet Wick.....3 Paraffin.....4 Other(____)5	<b>57. How much Kerosene did you use last month for lighting?</b>	<b>58. What does the household spend per liter of Kerosene?</b>
<b>Enter Code:</b>	<b>Enter Code:</b>	<b>Liters:</b>	<b>Price Per Liter:</b>  <input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound

**59. Does your household purchase electricity from someone else’s generator or car battery?**

Yes.....1 **ENTER CODE**

No.....2 **[SKIP →61]**

**60. How much does your household usually pay in a month for electricity from someone else’s generator or car battery?**

Yes.....1

Kenyan Shilling

No.....2

Sudanese Pound



61. Does your household use batteries to operate a [APPLIANCE]?						
Yes.....1 No.....2		62. How many hours per day do you operate [APPLIANCE]?	63. Battery Type? AAA.....1 AA.....2 D.....1	64. How many batteries does [APPLIANCE] use?	65. How often do the batteries get replaced?	66. How much does the household pay per Battery?
Appliance	Enter Code	Hours	Enter Code	Quantity	Number of Times	Price
Radio					<input type="checkbox"/> per month <input type="checkbox"/> per year	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
Stereo					<input type="checkbox"/> per month <input type="checkbox"/> per year	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
Television					<input type="checkbox"/> per month <input type="checkbox"/> per year	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
Flashlight					<input type="checkbox"/> per month <input type="checkbox"/> per year	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound

Answer Codes: Don't Know.....-777 Refuse to Answer....-999

Other (_____)					<input type="checkbox"/> per month	<input type="checkbox"/> Kenyan Shilling
					<input type="checkbox"/> per year	<input type="checkbox"/> Sudanese Pound

<b>67. Does the household use a car battery?</b>				
Yes.....1 No.....2 [Skip to→ 72]	<b>68. What was the cost to purchase the car battery?</b>	<b>69. How many Amps?</b>	<b>70. How often is the battery usually recharged?</b>	<b>71. What is the cost to recharge the car battery?</b>
<b>Enter Code:</b>	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound	<b>Watts:</b>	<b>Number of Times:</b> <input type="checkbox"/> per month <input type="checkbox"/> per year	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound

<b>72. Does the household own a generator?</b>							
	<b>73. What was the cost to purchase the</b>	<b>74. What is the capacity of</b>	<b>75. How many hours a day is the generator</b>	<b>76. What fuels does the</b>	<b>77. How many Liters of [FUEL]</b>	<b>78. What is the cost per liter of [FUEL]?</b>	<b>79. How much has this household spent during the last three months to</b>

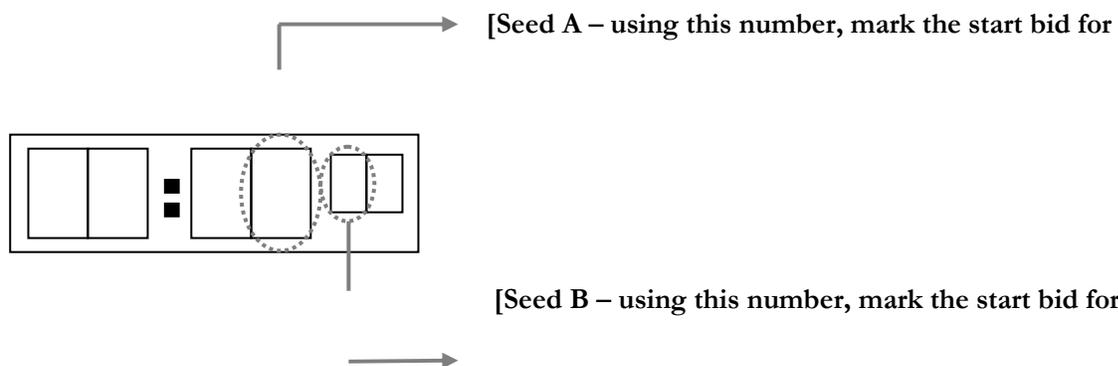
Answer Codes: Don't Know.....-777 Refuse to Answer....-999

Yes.....1  No.....2  <b>[Skip to→ 80]</b>	generator?   <input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound	the generator?	typically used?	generator use?   <input type="checkbox"/> Diesel  <input type="checkbox"/> Gasoline	does the generator use in a month?   <b>Liters</b>	<input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound	maintain and repair the generator?   <input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
<b>Enter Code:</b>		<b>Kilo-watts:</b>	<b>Hours per day:</b>	<input type="checkbox"/> Diesel  <input type="checkbox"/> Gasoline			

**V. WILLINGNESS TO PAY**

Please Say: *“Now I will present you with a situation for improved access to electricity in your community and ask you about your household’s willingness to pay for such services. Please be aware that this exercise is not a real situation and the services described are not guaranteed.”*]

[Before you proceed, look at your watch, record the time, and mark the correct starting bids below]



[Please Say: “Suppose that a power plant is constructed in Kapoeta that will provide access to electricity for 8hrs per day to households that pay for it each month. *How much would your household be willing to pay every month for access to electricity in your home which could be used to power lights, charge mobile phones and operate items such as a radio or fan? Would you be willing to pay [START BID]?*”]

80.START BID	Bids	81. WILLING TO PAY
Start.....1		Yes.....1 [Ask Higher] No.....2 [Ask Lower]  [STOP when both answers have been given]
[Seed A is 0 or 1→]	25 sp	
[Seed A is 2 or 3→]	50 sp	
[Seed A is 4 or 5→]	100 sp	

[Seed A is 6 or 7→]	200 sp	
[Seed A is 8 or 9→]	400 sp	

[[Please Say: “Suppose that a power plant is constructed in Kapoeta and there is a one-time fee to connect the wire to your household so that you can buy power when you want it. *How much would your household be willing to pay to initiate access to electricity? Would you be willing to pay [START BID]? “]*

	82.START BID	Bids	83. WILLING TO PAY  Yes....1 [Ask Higher]  No.....2 [Ask Lower]  [STOP when both answers have been given]
	Start.....1		
[Seed B is 0 or 1→]		25 sp	
[Seed B is 2 or 3→]		50 sp	
[Seed B is 4 or 5→]		100 sp	
[Seed B is 6 or 7→]		200 sp	
[Seed B is 8 or 9→]		400 sp	

**VI. GOVERNEMNT CREDIBILITY**

84. Which institution in Kapoeta do you think is the best equipped to manage a power plant?

[READ LIST]

GOSS.....1

State Government.....2  
Municipal Government.....3  
Group of Community members who also receives electricity.....4  
Private Company.....5 **ENTER CODE**

85. Would community members like you be willing to pay more for electricity if the utility is owned and operated by a local institution in which each individual has a part?

**ENTER CODE**

Yes.....1  
No.....2

**[Please Say: "This concludes the survey. Thank you for providing us with information about your household."]**

## SISP Kapoeta Baseline Survey: Small Business Module

A.1	City Identification	Kapoeta				
A.2	Waypoint Number					
A.3	Survey Number	2009	3			

<b>B. FIELD TEAM</b>					
		Name	Signature	Date (M/D/Y)	ID Code
<b>B1</b>	Enumerator				
<b>B2</b>	Survey Manager				
<b>B3</b>	Data Entry				

<b>C. INITIAL BUSINESS INTERVIEW ATTEMPTS</b>						
		<b>a. Date (M/D/Y)</b>	<b>Result</b>	<b>b. Code</b>	<b>c. Time: START</b>	<b>d. Time: END</b>
<b>C1</b>	First Visit		Fully conducted.....1			
			Partially conducted.....2 [Do Second Attempt → C2]			
			Respondent not present.....3 [Do Second Attempt → C2]			
			Respondent asked to come back.....4 [Do Second Attempt → C2]			
			Refusal.....5 [Do Replacement → D1]			
<b>C2</b>	Second Visit		Fully conducted.....1			
			Partially conducted.....2 [Do Replacement → D1]			
			Respondent not present.....3 [Do Replacement → D1]			
			Respondent asked to come back.....4 [Do Replacement → D1]			
			Refusal.....5 [Do Replacement → D1]			

**[IF TWO ATTEMPTS ARE UNSUCCESSFUL OR THERE IS A REFUSAL, SELECT A REPLACEMENT BUSINESS]**

<b>D. REPLACEMENT BUSINESS INTERVIEW ATTEMPTS</b>						
		<b>a. Date (M/D/Y)</b>	<b>Result</b>	<b>b. Code</b>	<b>c. Time: START</b>	<b>d. Time: END</b>
<b>D 1</b>	First Visit		Fully conducted.....1			
			Partially conducted.....2 [Do Second Attempt → D2]			
			Respondent not present.....3 [Do Second Attempt → D2]			
			Respondent asked to come back.....4 [Do Second Attempt → D2]			
			Refusal.....5			

D 2	Second Visit	Fully conducted.....1			
		Partially conducted.....2			
		Respondent not present.....3			
		Respondent asked to come back.....4			
		Refusal.....5			

**[IF YOU ARE UNABLE TO CONDUCT THE INTERVIEW AFTER TWO ATTEMPTS WITH THE INITIAL AND REPLACEMENT BUSINESS, GIVE THIS SURVEY TO YOUR MANAGER AND START OVER WITH A NEW SURVEY]**

**I. SURVEY INFORMATION**

[At this point, please begin the interview by saying: *“Good Morning/Afternoon, my name is \_\_\_\_\_ . I am from a company that is studying energy infrastructure in South Sudan. The project is funded by The United States Agency for International Development in cooperation with the Ministry of Power and Energy. As part of this project, we are conducting a survey, with the permission of you leaders about how fuel and energy is used in businesses like yours. Therefore, I would like to speak to the owner of this business or the person that usually runs this business. [IF NEITHER OF THESE PEOPLE IS AVAILABLE, PLEASE INTERVIEW THE SHOP CLERK WHO IS THERE.]*

**[DETERMINE RESPONDENT]**

*The purpose of this survey is to collect information about how electricity will affect your business.*

*Please be aware that participation in this survey is completely voluntary. Your responses will be combined with those of other businesses and any personal information will not be used for this study. If we should come to any question you don’t want to answer, please let me know and I will go on to the next question. You can also stop the survey at any time. However, we hope you will participate in the survey since your information is important to us.”*

*At this time, do you want to ask me anything about the survey? [If asked, the survey will take approximately 30 minutes.]*

*May I begin now?"*

[Respondent Agrees to the interview]

Yes.....1

No..... 2 [End Interview]

ENTER CODE

<b>E. RESPONDENT IDENTIFICATION</b>
<b>E1. Respondent Name</b>
<b>E3. Location [Describe location within Kapoeta]:</b>
<b>E4. Language of Interview</b>

**II. BUSINESS CHARACTERISTICS**

[Please say: “Now I would like to ask you some basic questions about this business.”]

1. What is your relationship to the owner of this business?

**[READ LIST]**

- Owner.....1
- Supervisor.....2
- Employee.....3
- Friend.....4
- Family Member of Owner:
  - Spouse.....5
  - Son.....6
  - Daughter.....7
  - Other Family (Specify\_\_\_\_\_ ).....8
  - Other (Specify\_\_\_\_\_ ).....9

**ENTER CODE**

2. Is this business owned by a woman or a man?

- Woman.....1
- Man.....2

**ENTER CODE**

3. What is the primary sector in which your business operates?

**[READ LIST]**

- Sales (clothes, food, furniture, etc.).....1
- Service (restaurants, phone charging, hair cut).....2
- Small Scale-Industry ( car repair, wood carving, maze mill).....3
- Other (Specify\_\_\_\_\_ ).....4

**ENTER CODE**

4. In what year was this business founded?

**ENTER YEAR**

5. How many family members of the owner work in this business? **[If none, enter '0']**

**FAMILY MEMBERS**

6. Do any non-family members work in this business?

Yes.....1

**ENTER CODE**

No.....2 **[SKIP to—8]**

7. How many employees work in this business excluding family members of the owner?

**NUMBER OF EMPLOYEES**

8. At what time does this business usually open on a working day?

**ENTER HOUR**

9. At what time does this business usually close on a working day?

**ENTER HOUR**

10. Does this business ever stay open after sun down?

Yes.....1

**ENTER CODE**

No.....2

11. Are you worried about security when doing business after sun down?

Yes.....1

**ENTER CODE**

No.....2

12. Are there customers around after sun down?

Yes.....1

**ENTER CODE**

No.....2

13. Has this business been robbed in the past 12 months?

Yes.....1

**ENTER CODE**

No.....2

<p><b>14.</b> Please list the top goods or services this business sells in order of importance (up to five). <b>[DO NOT READ LIST - Let respondent give description]</b></p> <p>Prepared Meals/Restaurant.....1</p> <p>Bottled/Packaged Drinks.....2</p> <p>Prepared Drinks.....3</p> <p>Medicines/Pharmaceuticals.....4</p> <p>Battery Sales.....5</p> <p>Battery Charging.....22</p> <p>Charcoal.....6</p> <p>Kerosene.....7</p> <p>Diesel.....8</p> <p>Petroleum.....9</p> <p>Appliances.....10</p> <p>Electronics.....11</p> <p>Hair Cuts.....12</p> <p>Cell phone Charging.....13</p> <p>Cell phone Sales/Repair.....14</p> <p>Welding.....15</p> <p>Printing.....16</p> <p>Computer/Internet.....17</p> <p>Dry-cleaning.....18</p> <p>Grain milling.....19</p> <p>Medical services.....20</p> <p>Repair Services.....21</p> <p>Other.....23</p>		<p><b>15.</b> In what quantity do you typically sell [Item]?</p>		<p><b>16.</b> What is the price per this quantity?</p> <p style="text-align: center;"><b>[Enter in Kenyan Shillings or Sudanese Pounds]</b></p>			
<p><b>a. Description of Good/Service</b></p>		<p><b>b. Code</b></p>		<p><b>a. Quantity</b></p>		<p><b>b. Unit Code</b></p>	

1.				<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
2.				<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
3.				<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
4.				<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
5.				<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound

**[Please say: “Now I would like to ask you about your business income. Expenditures refers to the amount spent every month to operate the business”**

<b>17.</b> For a typical month in the <b>dry season</b> , what is the total money earned for this business?  <input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound	<b>18.</b> For a typical month in the <b>dry season</b> , what are the total expenses for this business?  <input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound	<b>19.</b> For a typical month in the <b>rainy season</b> , what is total money earned for this business?  <input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound	<b>20.</b> For a typical month in the <b>rainy season</b> , what are the total expenses for this business?  <input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound

### **III. BUSINESS ELECTRICITY USE**

**[Please Say: “Now I would like to ask you some questions about what type of fuels and electricity you use to operate your business”**

21. Does this business use candles for lighting?
--

Yes.....1 No.....2 <b>[SKIP to→25]</b>	<b>22. What Size:</b>  <b>[READ LIST]</b>  Small.....1 Large.....2	<b>23. How many candles were used in the last 30 days?</b>	<b>24. How much does the business spend for each candle?</b>
<b>Enter Code:</b>	<b>Enter Code:</b>	<b>Number of Candles:</b>	<input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound

<b>25. Does this business use a lamp for lighting?</b>			
Yes.....1 No.....2 <b>[SKIP to→29]</b>	<b>26. What Type:</b>  <b>[READ LIST]</b>  Pressure.....1 Hurricane.....2 Wet Wick.....3 Paraffin.....4 Other(____)5	<b>27. How much Kerosene or Paraffin did you use last month for lighting?</b>	<b>28. What does the business spend per liter of Kerosene or Paraffin?</b>
<b>Enter Code:</b>	<b>Enter Code:</b>	<b>Liters:</b>	<input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound

29. Does this business purchase electricity from someone else’s generator or car battery?

Yes.....1

**ENTER CODE**

No.....2 **[SKIP to→31]**

Answer Codes: Don’t Know.....-777 Refuse to Answer.....-999

30. How much does the business usually pay a month for electricity from someone else's generator or car battery?

Kenyan Shilling

Sudanese Pound

31. Does the owner charge his cell/family cell phone at the business?

Yes.....1

No.....2

**ENTER CODE**

32. Does this business use batteries to operate a [APPLIANCE]?						
Yes.....1 No.....2		33. How many hours per day do you operate [APPLIANCE]?	34. Battery Type? AAA.....1 AA.....2 D.....3 Other...4	35. How many batteries does [APPLIANCE] use?	36. How often do the batteries get replaced?	37. How much does the business pay per Battery?
Radio					<input type="checkbox"/> per month <input type="checkbox"/> per year	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
Stereo					<input type="checkbox"/> per month <input type="checkbox"/> per year	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
Television					<input type="checkbox"/> per month <input type="checkbox"/> per year	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
Flashlight					<input type="checkbox"/> per month <input type="checkbox"/> per year	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound

Other (_____)					<input type="checkbox"/> per month	<input type="checkbox"/> Kenyan Shilling
					<input type="checkbox"/> per year	<input type="checkbox"/> Sudanese Pound

<b>38. Does the business have solar panels?</b>						
Yes.....1 No.....2 <b>[SKIP→45]</b>	<b>39. What was the cost of the Panels?</b>	<b>40. How many batteries does the solar panel use?</b>	<b>41. What is the voltage of the batteries used?</b>	<b>42. Have the batteries ever been replaced?</b>  Yes.....1 No.....2 <b>[SKIP→45]</b>	<b>43. How many months did the batteries last before they were replaced?</b>	<b>44. What is the cost to replace all the batteries?</b>
<b>Enter Code:</b>	<input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound	<b>Number of Batteries:</b>	<b>Voltage:</b>		<b>Months:</b>	<input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound
<b>45. Does the business use a car battery?</b>						
Yes.....1 No.....2	<b>46. What was the cost to purchase the car battery?</b>	<b>47. How many Amps?</b>	<b>48. How often is the battery usually recharged?</b>	<b>49. What is the cost to recharge the car battery?</b>		

Answer Codes: Don't Know.....-777 Refuse to Answer....-999

[SKIP→50]				
<b>Enter Code:</b>	<input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound	<b>Amps:</b>	<b>Number of Times:</b>  <input type="checkbox"/> per month  <input type="checkbox"/> per year	<input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound

<b>50. Does the business own a generator?</b>							
Yes.....1  No.....2  <b>[SKIP→58]</b>	<b>51. What was the cost to purchase the generator?</b>  <input type="checkbox"/> Kenyan Shilling  <input type="checkbox"/> Sudanese Pound	<b>52. What is the capacity of the generator?</b>	<b>53. How many hours a day is the generator typically used?</b>	<b>54. What fuels does the generator use?</b>	<b>55. How many Liters of [FUEL] does the generator use in a month?</b>  <b>Liters</b>	<b>56. What is the cost per liter of [FUEL]?</b>  <input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound	<b>57. How much has this business spent during the last three months to maintain and repair the generator?</b>  <input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
<b>Enter Code:</b>		<b>Kilo-watts:</b>	<b>Hours per day:</b>	<input type="checkbox"/> Diesel  <input type="checkbox"/> Gasoline			

<b>58.</b> In the 30 days has the business purchased [ITEM] for purposes other than resale?  Yes.....1 No.....2		<b>59.</b> How much did the business spend in total for [ITEM] in the last 30 days?  <b>[Enter in Sudanese Pounds]</b>
<b>a. Non-Food Item</b>	<b>b. Code</b>	
1. Petrol		
2. Diesel		
3. Charcoal		
4. Kerosene		
5. Fire wood		
6. Candles		
7. Paraffin		
8. Batteries		

**IV. BUSINESS WEALTH ASSESSMENT**

*[Please say: "Now I would like to ask you about some of the goods that the business owns"]*

<b>60.</b> Does this business have a [ITEM]?  Yes.....1 No.....2		<b>61.</b> How many [ITEM] does your business own?  <b>[Enter Number]</b>	<b>62.</b> How many hours per day do you operate [ITEM]?
<b>Item</b>	<b>Code</b>		

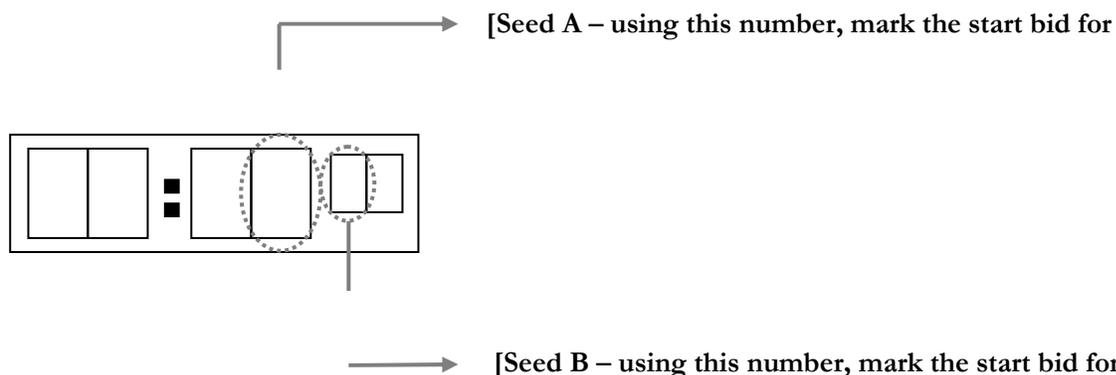
1. Television					
2. Radio					
3. Mobile Phone				3a. Does your business pay to charge mobile phones? Yes...1 No...2	3b. How much did your business spend in the last 30 days on mobile phone charging?
				Enter Code:	<input type="checkbox"/> Kenyan Shilling <input type="checkbox"/> Sudanese Pound
4. Computer					
5. Refrigerator					
6. Satellite Dish					
7. Fan					
8. Air Conditioner					
9. Kerosene or Paraffin Stove					
10. Sewing Machine					
11. Welding Equipment					
12. Power tools					
13. Pump					
14. Electric Iron					
15. Grinding Machine					
16. Blender					

## **V. WILLINGNESS TO PAY**

Please Say: *“Now I will present you with a situation for improved access to electricity in your community and ask you about your household’s willingness to pay for such services. Please be aware*

*that this exercise is not a real situation and the services described are not guaranteed.”]*

[Before you proceed, look at your watch, record the time, and mark the correct starting bids below]



[Please Say: “Suppose that a power plant is constructed in Kapoeta that will provide access to electricity for 8hrs per day to households that pay for it each month. *How much would your business be willing to pay every month for access to electricity which could be used to power lights, charge mobile phones, operate a freezer, and operate items such as a radio or fan? Would you be willing to pay [START BID]? “]*

63. START BID	Bids	64. WILLING TO PAY
Start.....1		Yes.....1 [Ask Higher] No.....2 [Ask Lower]  [STOP when both answers have been given]
[Seed A is 0 or 1→]	25 sp	
[Seed A is 2 or 3→]	50sp	
[Seed A is 4 or 5→]	100sp	

[Seed A is 6 or 7→]	200sp	
[Seed A is 8 or 9→]	400sp	

**[Please Say:** “Suppose that a power plant is constructed in Kapoeta and there is a one-time fee to connect the wire to your business so that you can buy power when you want it. *How much would your business be willing to pay to initiate access to electricity? Would you be willing to pay [START BID]? “]*

	65. START BID	Bids	66. WILLING TO PAY  Yes....1 [Ask Higher]  No.....2 [Ask Lower]  [STOP when both answers have been given]
	Start.....1		
[Seed B is 0 or 1→]		25 sp	
[Seed B is 2 or 3→]		50 sp	
[Seed B is 4 or 5→]		100 sp	
[Seed B is 6 or 7→]		200 sp	
[Seed B is 8 or 9→]		400 sp	

**VI. GOVERNMENT CREDIBILITY**

67. Which institution in Kapoeta do you think is the best equipped to manage a power plant?

**[READ LIST]**

GOSS.....1  
State Government.....2

Municipal Government.....3

Community Group who also receives electricity.....4

Private Company.....5     **ENTER CODE**

68. Would you be willing to pay more for electricity if the utility is owned and operated by a local institution in which each individual has a part?

**ENTER CODE**

Yes.....1

No.....2

[Please Say: “*This concludes the survey. Thank you for providing us with information about your business.*”]

**HOSPITAL/CLINIC:**

[Please say: *“Now I would like to ask you some questions about your electricity service.”*]  
 Interviewer please identify the location.

Hospital

Clinic

4. On a typical day how many hours do you have access to electricity?

**Enter Hours**

5. Do you use a generator for electricity?

Yes.....

No.....

6. What is the capacity of the generator in kilo-watts?

7. How many Hours per day is the generator used?

8. What type of fuels does the generator use?

9. How many Liters of fuel does the generator use in a month?

10. What is the cost per liter of fuel?

11. How much has this business spent during the last three months to maintain and repair the generator?

12. What type of electricity do you use for lighting?

13. How many hours per day do you use this light source?

14. How much do you spend per week on this light source?
15. Does your facility operate after night fall? Please tell me why or why not?
16. Approximately how many patients do you treat on a typical day?
17. How many patients did you treat in the last month?
18. Do you have any medical equipment that requires electricity?
19. Do you have any medicine that requires electricity to be properly maintained?
20. Is there anything else you would like to share with me?
21. How much would your facility be willing to pay each month to have access to electricity 8 hrs /day?
22. How much would the facility be willing to pay each month to have access to electricity 16 hrs/day?

**[That concludes our interview. Thank you for your participation**

**SCHOOL**

**[Please say: “Now I would like to ask you some questions about your electricity service.”]**

1. On a typical day how many hours do you have access to electricity?

**Enter Hours**

2. Do you use a generator for electricity?

Yes.....

No.....

3. What is the capacity of the generator in kilo-watts?

4. How many Hours per day is the generator used?

5. What type of fuels does the generator use?

6. How many Liters of fuel does the generator use in a month?

7. What is the cost per liter of fuel?

8. How much has this business spent during the last three months to maintain and repair the generator?

9. What type of electricity do you use for lighting?

10. How many hours per day do you use this light source?

11. How much do you spend per week on this light source?

12. Does your facility operate after night fall? Please tell me why or why not?

13. Approximately how many students attend the school? How many girls and how many boys?
14. Do you have any equipment that requires electricity?
15. Is there anything else you would like to share with me?
16. How much would your facility be willing to pay each month to have access to electricity 8 hrs /day?
17. How much would the facility be willing to pay each month to have access to electricity 16 hrs/day?

**[That concludes our interview. Thank you for your participation**



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<sup>i</sup> Adapted from “Survey of Living Conditions: Uttar Pradesh and Bihar, India”. The World Bank. <http://www.worldbank.org/LSMS/country/india/slc-hh97.pdf>. (1997-1998).

<sup>ii</sup> Housing typologies adapted from 2008 Sudan Census Long Form Questionnaire.