

This survey is part of the RAP socio-economic assessment for the BOSA Transmission Project, which is being undertaken by the Southern African Power Pool (SAPP) and DBSA. The SAPP in collaboration with DBSA (project funder) has identified Botswana-South Africa (BOSA) Transmission Interconnection project as one of the energy pool initiative. SAPP proposes to construct two 400kV transmission power line approximately 210 km and 60m apart, connecting the existing Isang 400kV substation in Botswana to the Watershed B area near Mahikeng. The SAPP is commissioning the BOSA Transmission Interconnection Project on behalf of the Botswana and South Africa's electricity suppliers, namely Botswana Power Corporation (BPC) and Eskom respectively as they will be responsible for the operation of this transmission line after construction. The aim of the project is to alleviate the current electricity supply constraints and contribute towards energy security of supply in the long run.

The enumerator visiting you will ask you a number of questions about your household and the economic activities you engage in from time to time. We ask your participation in this survey and respectfully request that you answer **ALL** the questions to the best of your knowledge and ability.

All information will be treated as **confidential**. Please note that the surveys do **NOT** mean that you are affected by the project.

## SECTION 1: HOUSEHOLD IDENTIFICATION

Questionnaire no: \_\_\_\_\_

1.1	Community/ Village:				1.2	Chief:				Photo nr:			
1.3	Head of household FULL Name				1.4	Head of household contact number				Male	Female		
1.5	Is this a child headed household		Yes	No	1.6	Are there any disabled adults or children		Adults	Yes	No	Children	Yes	No
1.7	Name of respondent				1.8	Respondent ID number				1.9	Relationship to head of household		
1.10	Nr of household members:		1.11	How long have you lived in this area:				1.12	How do you characterize your homestead		Permanent	Temporary	
1.13	Give reasons why you moved into this area			Native to area		Farming		Business opportunity		Other (Specify)			
1.14	Where did you live before you moved here (Answer if applicable)												

Enumerator	Community Representative	Checked by	Captured
Name:	Name:	Name:	Name:
Date:	Date:	Date:	Date:

## SECTION 2: DEMOGRAPHIC INFORMATION

Please complete the following table for all household members, including persons temporarily absent, using the coding systems below where indicated.

		Person 1		Person 2		Person 3	
		Photo number		Photo number		Photo number	
2.1	First name						
2.2	Surname / Last name						
2.3	ID number						
2.4	Gender (M / F)	M	F	M	F	M	F
2.5	Year of birth						
2.6	Relationship to Household Head (see coding below)						
2.7	Highest education completed (see coding below)						
2.8	Resident status (see coding below)						
2.9	Employment status (see coding below)						

Relationship to Household Head	Education Level	Resident Status	Employment Status
1 = Household Head (HH) 2 = Spouse of HH 3 = Son/Daughter of HH 4 = Son / Daughter in law of HH 5 = Grandchild of HH 6 = Parent of HH 7 = Parent in law of HH 8 = Brother / Sister of HH 9 = Brother / Sister in Law of HH 10 = Cousin of HH 11 = Grandparent of HH 12 = Adopted / step-child of HH 13 = Other relative 14 = Not related but dependent	1 = None 2 = Some primary 3 = Completed primary 4 = Some secondary 5 = Completed secondary 6 = Further education	1 = Living in homestead 2 = Weekly commuter 3 = Migrant worker, in Botswana 4 = Migrant worker, other country (specify) 5 = Student, elsewhere in Botswana 6 = Student, other country (specify)  NOTE: if person is staying at least 4 nights per week in homestead, he is deemed residing in homestead	1 = Pre-school child 2 = Student 3 = Self employed 4 = Employed (formal wage employment) 5 = Informal employment (casual / short term) 6 = Unemployed (actively seeking employment over last 3 months) 7 = Home / not seeking work / pension (look after homestead / children) 8 = Disabled and not employed 9 = Disabled and employed

Has any person in the household ever worked? And has any person acquired skills in the following areas?		Ever worked		Formal Training	
2.10	Driving	Yes	No	Yes	No
2.11	Operation of heavy equipment	Yes	No	Yes	No
2.12	Mechanical	Yes	No	Yes	No
2.13	Electrical	Yes	No	Yes	No
2.14	Electronic (IT)	Yes	No	Yes	No
2.15	Plumbing	Yes	No	Yes	No
2.16	Brick-laying / Masonry	Yes	No	Yes	No
2.17	Carpentry	Yes	No	Yes	No
2.18	Warehousing / store keeping	Yes	No	Yes	No
2.19	Administrative / clerical	Yes	No	Yes	No
2.20	Security	Yes	No	Yes	No
2.21	Sewing	Yes	No	Yes	No
2.22	Catering	Yes	No	Yes	No
2.23	Other (specify)				

## SECTION 3: STRUCTURES

Questionnaire no: \_\_\_\_\_ Household Head: \_\_\_\_\_

What is the main purpose of each structure in the homestead?	3.1	Structure 1	3.2	Structure 2	3.3	Structure 3	3.4	Structure 4	3.5	Structure 5	3.6	Structure 6
Multifunctional residential		1		1		1		1		1		1
Sleeping only		2		2		2		2		2		2
Kitchen only		3		3		3		3		3		3
Toilet, Shower		4		4		4		4		4		4
Combined residential, business		5		5		5		5		5		5
Business only		6		6		6		6		6		6
Other (specify)	7		7		7		7		7		7	
Photo Number												
GPS Number												
How many rooms?												
In which year was the structure built?												

What is the main construction material of the walls?	3.1	3.2	3.3	3.4	3.5	3.6
Mud / Pole / Reed structures	1	1	1	1	1	1
Mud or clay blocks	2	2	2	2	2	2
Burnt clay bricks	3	3	3	3	3	3
Cement / Concrete blocks	4	4	4	4	4	4
Commercial brick	5	5	5	5	5	5
Corrugated iron / Tin	6	6	6	6	6	6
Plastic / Cardboard	7	7	7	7	7	7
Timber planks	8	8	8	8	8	8
Other (specify)	9	9	9	9	9	9

What is the <u>main construction material</u> of the roof?		3.1	3.2	3.3	3.4	3.5	3.6
No roof		1	1	1	1	1	1
Leaves / Thatch		2	2	2	2	2	2
Corrugated iron / Tin		3	3	3	3	3	3
Commercial roof tiles		4	4	4	4	4	4
Timber planks		5	5	5	5	5	5
Plastic		6	6	6	6	6	6
Other (specify)		7	7	7	7	7	7

  

Do you own any of the following additional structures? (If None, Skip to Section 4)				What is the main construction material?					Photo No.	GPS Number
	YES	NO		Reed / Pole / Sticks	Wire / Mesh	Timber	Block / Mud brick	Other		
3.7	Livestock shelters	1	2	1	2	3	4			
3.8	Chicken coup	1	2	1	2	3	4			
3.10	Grain storage	1	2	1	2	3	4			
3.11	Other (specify)	1	2	1	2	3	4			

## SECTION 4: LAND & AGRICULTURE

4.1	Does your household currently have access to arable land that you use, or have used, for cultivation? <i>If the answer is NO or DON'T KNOW, proceed to Question 4.14</i>	Yes													
		No													
		Don't Know													
4.2	How many fields does your household have access to?														
Please provide the following information on each of your fields															
		Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7							
4.3	Fenced	4.3.1		4.3.2		4.3.3		4.3.4		4.3.5		4.3.6		4.3.7	
		Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
4.4	Material used	4.4.1		4.4.2		4.4.3		4.4.4		4.4.5		4.4.6		4.4.7	

		Reed / Pole / Sticks		Reed / Pole / Sticks		Reed / Pole / Sticks		Reed / Pole / Sticks		Reed / Pole / Sticks		Reed / Pole / Sticks		Reed / Pole / Sticks	
		Wire / Mesh		Wire / Mesh		Wire / Mesh		Wire / Mesh		Wire / Mesh		Wire / Mesh		Wire / Mesh	
		Timber		Timber		Timber		Timber		Timber		Timber		Timber	
		Block / Mud brick		Block / Mud brick		Block / Mud brick		Block / Mud brick		Block / Mud brick		Block / Mud brick		Block / Mud brick	
		Other (specify)		Other (specify)		Other (specify)		Other (specify)		Other (specify)		Other (specify)		Other (specify)	
4.5	Which field (s) has been lying fallow in the last year?	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N

4.6	Photo Number	4.6.1	4.6.2	4.6.3	4.6.4	4.6.5	4.6.6	4.6.7
	GPS Number							

4.7	What crops do you grow in each field?	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7		
		4.7.1	4.7.2	4.7.3	4.7.4	4.7.5	4.7.6	4.7.7		
	Beans	1	1	1	1	1	1	1		
	Groundnuts	3	3	3	3	3	3	3		
	Potatoes	4	4	4	4	4	4	4		
	Maize	5	5	5	5	5	5	5		
	Pumpkin	6	6	6	6	6	6	6		
	Sweet Potatoes	7	7	7	7	7	7	7		
	Sugar Cane	8	8	8	8	8	8	8		
	Other (specify)	9	9	9	9	9	9	9		
	Other (specify)	10	10	10	10	10	10	10		
4.8	What method of ploughing did you use this last season? (choose <u>single</u> answer)	Draught animals					1			
		Hand hoe					2			
		Mechanised methods (e.g. tractor)					3			
4.9	If fields were not cultivated this season, why not? (choose <u>single</u> answer)	Fields have been lying fallow					1			
		Fear drought					2			
		Late rain – too late to prepare					3			
		No seed / insufficient seed					4			
		No labour					5			
		No implements					6			
		Flooding / waterlogged fields					7			
		Other (specify)					8			
4.10	Which crops have you grown in your fields this season to sell for cash?									
4.11	Where did you sell the majority of your crops?		4.12					What is the principal mode of transportation used to take your crops to where they are sold? (Only <u>one</u> option permitted)		
	Market at the village where you live	1						On foot carrying / hand-pushed cart		1
	In the nearest town	2						Bicycle / Motorcycle		2
	In a major town a distance away	3						Vehicle / Truck / Tractor		3
	Co-op	4						Public transport		4
Other (Specify)	5	Other (Specify)		5						

4.13	Do you have any fruit trees at home or in fields? (If NO, proceed to Q 417)	Yes	No	Photo No	GPS No	Photo No	GPS No	Photo No	GPS No	Photo No	GPS No
		Number of trees									
How many trees do you have of the following varieties?		Around homestead	In field								
	Peach										
	Litchi										
	Guava										
	Lemon/Lime										
	Mango										
	Orange										
	Papaya/pawpaw										
	Banana										
	Avocado										
	Apple										
	Other (specify)										
	Other (specify)										

4.14	Do you have a small vegetable garden / food plot in your homestead or elsewhere but, excluding in your fields mentioned in Q 4.1?								Yes	No			
4.15	Photo No	1.	2.	3.	4.	GPS No	1.	2.	3.	4.			
	Size (use block paper)	1.	2.	3.	4.								
4.16	Fenced					4.16.1		4.16.2		4.16.3		4.16.4	
						Y	N	Y	N	Y	N	Y	N
4.17	Material used					4.17.1		4.17.2		4.17.3		4.17.4	
						Reed / Pole / Sticks		Reed / Pole / Sticks		Reed / Pole / Sticks		Reed / Pole / Sticks	

		Wire / Mesh	Wire / Mesh	Wire / Mesh	Wire / Mesh				
		Timber	Timber	Timber	Timber				
		Block / Mud brick	Block / Mud brick	Block / Mud brick	Block / Mud brick				
		Other (specify)	Other (specify)	Other (specify)	Other (specify)				
4.18	Vegetables planted								
4.19	Do you have any livestock on the farm? (If No – proceed to Section 5)			Yes	No				
4.20	If YES, do you keep livestock for commercial or for domestic use only?			Commercial Use	Domestic Use				
4.21	If YES, how many ± of the following livestock does the homestead have?	Number	Photo No (Optional)	4.22	Please choose option, where they mostly graze.				
					Around homestead	In fields	Designated grazing area	No strict grazing regime	Other
4.21.1	Cattle			4.22.1					
4.21.2	Donkey			4.22.2					
4.21.3	Goats			4.22.3					
4.21.4	Pigs			4.22.4					
4.21.5	Sheep			4.22.5					
4.21.6	Chickens			4.22.6					
4.21.7	Ducks/Geese			4.22.7					
4.21.8	Other (specify):			4.22.8					
4.21.9	Other (specify):			4.22.9					
4.21.10	Other (specify):			4.22.10					

## SECTION 5: BUSINESS ENTERPRISES

5.1	Does anyone in your homestead run a small business?	Yes	No	5.2	Please indicate the main business activities			
5.3	If yes, where do they run this business from?			From home		Local business premises		Business premises in a nearby town or village
5.4	How frequently do they operate this business?			Every day		Only some days in the week		Less than 2 days a week
5.5	If you sell a product please indicate where you get your raw materials or products from							

## SECTION 6: WATER AND ENERGY

6.1	What is the <u>primary source</u> of drinking water? (select only one)	River	Unprotected spring	Communal Pump / Well / Protected Spring Borehole	Private water source in homestead / yard	Rain water tank	Buy water privately from vendor	Within 100m of Homestead Photo no      GPS number		
6.2	Apart from the above-mentioned source, what <u>other sources</u> do you use? (select only one)	River	Unprotected spring	Communal Pump / Well / Protected Spring / Borehole	Private water source in homestead / yard	Rain water tank	Buy water privately from vendor	Photo no      GPS number		
6.3	What energy source is used for lighting?	Electricity		Gas	Solar	Paraffin	Wood	Charcoal	Candles	Other
6.4	What energy source is used for cooking?	Electricity		Gas	Solar	Paraffin	Wood	Charcoal	Candles	Other
6.5	What energy source is used for heating?	Electricity		Gas	Solar	Paraffin	Wood	Charcoal	Candles	Other

## SECTION 7: HEALTH AND NUTRITION

7.1	Did you or any member of your household suffer from any of the following diseases in the past 12 months?	Bilharzia		Cancer	Cholera	Diarrhoea	Malaria	Respiratory illness	TB	Typhoid	Other		
7.2	Has any member of this household been hospitalised (stayed overnight for at least one night) during the past 12 months?				Yes		No		Don't know				
7.3	Did any <u>adult</u> member of this household pass away during the past 12 months?				Yes		No		Don't know				
7.4	Did any <u>child</u> member of this household pass away during the past 12 months?				Yes		No		Don't know				
7.5	If Yes, was the child member that passed away 5 years or younger?				Yes		No		Don't know				
7.6	Did any member of your household go to bed without a meal last night?				Yes	No	7.7	Has this household experienced any shortage of basic food in the last 12 months?				Yes	No
7.8	In which months were the food shortages experienced the most?	January	February	March	April	May	June	July	August	September	October	November	December

## SECTION 8: INCOME AND EXPENDITURE

### 8.1 Main *INCOME* source (All household members combined - in the past month/)

	<b>Wages and salaries from formal employment?</b>		<b>Casual employment (piece jobs)</b>
	<b>Artisanal training</b>		<b>Home enterprises and small businesses</b>
	<b>Crop and livestock production</b>		<b>Private pension</b>
	<b>Old age pension, social grants? (state provided)</b>		<b>Renting out; fields, equipment, animals, machinery, property</b>
	<b>Remittance</b>		<b>Other? Specify</b>

### 8.2 Main *EXPENDITURE* (All household members – in the past month)

	<b>Food &amp; personal items (toiletries, washing powder, etc.)</b>		<b>Transport (bus and taxis fares)</b>
	<b>School fees, uniforms, and books/equipment</b>		<b>Clothes, footwear and clothing accessories</b>
	<b>Household energy (electricity, paraffin, gas, etc.)?</b>		<b>Telephone (cellular, fixed line)</b>
	<b>Water (tariffs, transport or pumping costs)</b>		<b>Medical expenses/traditional healers</b>
	<b>Furniture and appliances</b>		<b>Rent (housing/accommodation)</b>
	<b>New buildings or building improvements</b>		<b>Church</b>
	<b>Agricultural expenses (fertiliser, seed, etc.)</b>		<b>Other (for example burial society)</b>

## SECTION 9: SOCIAL NETWORKS

9.1	Do you participate as a member of the Village Development Committee?	Yes	No	9.2	If yes, what position do you hold?		9.3	How often do you meet?	
9.4	Do you participate as a member of traditional structure?	Yes	No	9.5	If yes, what position do you hold?		9.6	How often do you meet?	
9.7	Do you participate as a member of agricultural group?	Yes	No	9.8	If yes, what position do you hold?		9.9	How often do you meet?	
9.10	Do you participate as a member of cultural group?	Yes	No	9.11	If yes, what position do you hold?		9.12	How often do you meet?	
9.13	Do you participate as a member of sports club?	Yes	No	9.14	If yes, what position do you hold?		9.15	How often do you meet?	
9.16	Do you participate as a member of women's group?	Yes	No	9.17	If yes, what position do you hold?		9.18	How often do you meet?	
9.19	Do you participate as a member of church group?	Yes	No	9.20	If yes, what position do you hold?		9.21	How often do you meet?	
9.22	Do you participate as a member of Motshelo?	Yes	No	9.23	If yes, what position do you hold?		9.24	How often do you meet?	
9.25	Do you participate as a member of any other group? (Specify)	Yes	No	9.26	If yes, what position do you hold?		9.27	How often do you meet?	
9.28									

## SECTION 10: NEEDS ANALYSIS

<p style="text-align: center;"><i>Please rate problems / needs currently experienced in this community</i>  <i>(1 – Not a problem, 2 – A problem, but does not influence quality of life and 3 – A big problem and affects quality of life negatively)</i></p>											
10.1	Employment problems		10.2	Health care facilities		10.3	Education/ schools		10.4	Crime / violence/ vandalism	
10.5	Illegal land uses		10.6	Evictions from land		10.7	Bad roads		10.8	Problems with sewer / drains	
10.9	Water for drinking – availability		10.10	Water for drinking – quality		10.11	Water for irrigation		10.12	Problems with refuse / rubbish removal	
10.13	Electricity		10.14	Housing		10.15	Access to agricultural inputs		10.16	Land for agriculture	
10.17	Recreational facilities		10.18	Access to business centres / shops		10.19	Access to markets for goods		10.20	Hunger / nutrition	
10.21	Transport problems		10.22	Alcohol abuse		10.23	Other (specify)				

## SECTION 11: GRAVES

11.1	Are there any graves located in the homestead / field?								Yes	
									No	
									Don't Know	
11.2	If yes, how many graves are there? Also indicate names and year buried.	11.2.1				11.2.5				
		11.2.2				11.2.6				
		11.2.3				11.2.7				
		11.2.4				11.2.8				
11.3	Photo Number	11.3.1	11.3.2	11.3.3	11.3.4	11.3.5	11.3.6	11.3.7	11.3.8	
	GPS Number	11.3.1	11.3.2	11.3.3	11.3.4	11.3.5	11.3.6	11.3.7	11.3.8	

Respondent		Community Representative		By signing the questionnaire, I confirm that the information provided is true and that all questions have been answered to the best of my knowledge and ability.
Signature:		Signature:		

Notes	