

HSRC RESEARCH OUTPUTS

5803

---

ASOCIO-ECONOMIC IMPACT STUDY OF THE  
ELECTRIFICATION PROCESS

DEPARTMENT OF MINERALS AND ENERGY

**Fieldplan and Sampling Report**

**Mncwango M.B., Struwig J, Mohfakoana N., & Kivilu J.M.**

**20 September 2008**

Prepared by Centre for Socio Economic Surveys: Knowledge Systems, Human Sciences Research  
Council

# 1. OVERALL INTRODUCTION

This report encompasses two sections: progress report 1 and 2 as presented to DME on 11 and 25 August 2008. The two progress reports specifically refer to the project plan, sampling, recruitment of fieldworkers, and to some parts of the fieldwork logistics that are currently being organized.

---

## PROGRESS REPORT 1

---

11 August 2008

# 1.0. INTRODUCTION

The proposal by the Human Sciences Research Council (HSRC) to conduct a socio-economic survey of the electrification process on behalf of DME states that the organisation employs a very inclusive, collaborative and ethical approach in carrying out research projects. Consequently, in order to achieve maximum collaboration with clients, a partnership approach is advocated.

The submitted project proposal includes seven phases each with specific deliverables. These phases include the initialisation phase, sampling, recruitment of fieldworkers, training, data collection, data cleaning, analysis and report writing. This progress report mainly deals with the initialisation phase as well as the sampling phase.

## 1.1. INITIALISATION PHASE

### ***1.1.1. Contractual issues***

After the project was awarded, the contract between the HSRC and DME was signed on the 18<sup>th</sup> July 2008 which marked the official start of the project.

### ***1.1.2 Initialization meeting***

An inception meeting was held on the 22<sup>nd</sup> July at DME offices to discuss the project. The main aim of the meeting was to clarify issues relating to the terms of reference including sampling, project deliverables, communication channels, progress reports and other logistical issues.

### **1.1.3. Project Steering Committee**

From the HSRC's side, the project under Dr. Joseph Kivilu who provide a general oversight. Mrs. Jarè Struwig was identified as project leader. The deputy to the project is Ms Bongiwe Mncwango. From the DME's side, Ms Machwene Molomo is the project leader while all supply chain issues would be directed to Ms Daisy Maraba.

### **1.1.4. Agreement on critical success factors for this project;**

The issue is to be discussed in the second project pogress meeting.

### **1.1.5. Finalise detailed work plans, project guidelines, fieldwork and meeting schedules**

A detailed work plan in the form of a Gantt chart was submitted to the DME.

Meeting schedules for the duration of the project should be finalised.

### **1.1.6. Determine best way of communicating with DME**

During the inception meeting it was determined that all project related issues will be directed to Ms Machwene Molomo while all supply chain issues would be directed to Ms Daisy Maraba. The contact person for PDA technical related issues is Mr Werner Heyn. From the HSRC's side all contractual issues would be handled by Dr. Kivilu but all logistics regarding the project will be handled by Mrs. Jare Struwig deputised by Mrs. Bongiwe Mncwango. Further, bi-monthly meetings will be held to report on progress. A schedule for the follow up meetings will be drawn up on 11 August.

### 1.1.7. Project team members and roles/ responsibilities

<b>Task/Activity</b>	<b>Description</b>	<b>Persons</b>
<b>FIELDWORK PREPARATION</b>		
<b>INITIALISATION MEETING</b>	Implementation plan steering committee	
		Jare,
		Kivilu
		Bongiwe
		Nthabiseng
		Diko
		Dave
		Ben
<b>RECRUITMENT</b>		
Recruitment of Fieldworkers	Interview and recruit fieldworkers & Supervisors	
		Jare,
		Kivilu
		Bongiwe
		Nthabiseng
<b>SAMPLING and MAPS</b>		
Development of Sampling frame		
		Stoker
		Struwig
		Kivilu
		Diko
Development of GIS maps	Two GIS specialists to develop and print 360 EA maps	Fenske
<b>RECRUITMENT</b>		
Recruitment of Fieldworkers	Interview and recruit fieldworkers, supervisors	
		Jare,
		Kivilu
		Bongiwe
<b>SAMPLING and MAPS</b>		
Development of Sampling frame		
		Stoker
		Struwig
		Kivilu
		Diko
Development of GIS maps	Two GIS specialists to develop and print 360 EA maps	Fenske
<b>TRAINING</b>		
HSRC field training	HSRC to attend and assist with training	
		Jare,
		Kivilu
		Bongiwe
		Nthabiseng
		Diko
		Dave
		Derek
		Susan
		Shume
		Ronnie
<b>FIELDWORK</b>		
<b>HSRC Fieldwork Management &amp; Coordination</b>		
		Jare,
		Kivilu
		Bongiwe
		Nthabiseng
		Diko

		Ben
		Derek
<b>DATA QUALITY CHECKS/CLEANING</b>		
Data weighting		Stoker
Data checking and verification		Anneke
		Kivilu
		Lolita
<b>ANALYSIS AND REPORT WRITING</b>		
Progress reports	Four reports	
		Jare,
		Kivilu
		Bongiwe
		Nthabiseng
		Diko
<b>Data Analysis</b>		Jare,
		Kivilu
		Bongiwe
		Nthabiseng
		Diko
		Ben
		Lolita
		S'bo
<b>Report writing- 1st draft and final</b>		
		Kivilu
		Bongiwe
		Nthabiseng
		Ben
		Derek
		Susan
		Ronnie
		Sehume
		Jonathan
		Dave
		s'bo
<b>Presentation of results</b>		Jare,
		Kivilu
		Bongiwe
		Nthabiseng
<b>Report Writing- 1st draft and final</b>		
		Kivilu
		Bongiwe
		Nthabiseng
		Ben
		Derek
		Susan
		Ronnie
		Sehume
		Jonathan
		Dave
		s'bo
<b>Presentation of results</b>		Jare,
		Kivilu
		Bongiwe
		Nthabiseng

### 1.1.8. Payment schedules

During the inception meeting, the HSRC was tasked to complete a payment schedule for the duration of the project. After some deliberations, the HSRC submitted following payments schedule:

PAYMENT SCHEDULES	
Frequency of invoices	Per phase
Anticipated invoicing phases	
1. Project implementation plan 2. Sample of households 3. Recruitment of fieldworkers	25/08/2008
1. Fieldwork logistics completed 2. Data collection 3. Data cleaning	15/10/2008
1. Data analysis 2. Report submitted 3. Workshop presentation	15/12/2008

The following project plan that highlights the main milestones with dates for the deliverables was developed.





### 3 SAMPLING

On the 29<sup>th</sup> July 2008 the HSRC had a meeting with Prof. Stoker to discuss the appropriate sampling strategy for the project. At this meeting, the following sampling strategy was discussed and accepted by all:

- Since all the data sources that the HSRC and STATS SA have are outdated (i.e. the 1996 census, the 2001 LSM estimates), the recent STATS SA community survey data (2007) will be used as the basis for the sample.
- This dataset together with the electrification/non electrification information from the DME lists will give us an estimate of the less affluent municipalities.
- Once we have selected these municipalities we will sample the EAs within the municipalities. This we will do by over sampling the informal and tribal areas in order to bias the sample towards less affluent EAs.
- Others EAs, like the formal urban areas will however not be excluded. Once we have the list of EAs (and there will be 50 EAs selected per province) we will visit 8 households in each EA. In order to get to the specific households, we will over sample households (25 per EA) and using a screening questionnaire we will screen household income. If a household meets the criteria we will select the 8 per EA.
- This will give us a total of 400 households per province. This sampling approach will also enable us to generalize as per the TOR that is, in terms of all population groups, language groups and area type per province. This sampling method is the suggested method but we will discuss with DME in order to get final approval.

This sampling approach was discussed with the DME on the 31<sup>st</sup> of July. The DME officials then alerted the HSRC that they were not entirely satisfied with the sampling approach since it allowed for very affluent areas to be included in the sample. This was not aligned with the DME's request to concentrate on poor communities. Subsequently, a meeting with the Prof Stoker and DME was held on 4th August to explore further options in terms of sampling. After the meeting, the sampling procedure was changed to the following:

- The EA sampling frame consists of 80787 EA's. The following EA types will be deleted: 6 (recreational areas), 7 (industrial areas), 8 (special institutions) and 9 (hostels). The EA types to be included in the sampling frame are: 1 (tribal), 2 (farms), 3 (small holdings), 4 (formal urban settlements) and 5 (informal urban settlements).
- All EA's with an LSM value equal to 4 and higher will be deleted. These deleted EA's will contain a relatively small proportion of HH's with an income less than R1600.
- Province will be used as explicit stratification variable with a sample size of 400, viz. 50 EA's and 8 HH's per EA. Each province will be further stratified, giving more weight to informal urban and tribal areas (if any) and less weight to formal urban areas. Note that considering only LSM 1 to 3 will ensure that the Waterkloof, Sandton type of areas cannot be selected. An appropriate type of pps (probability proportional to size) systematic sampling of the EA's will be used with measure of size (MOS) equal to a function of the estimated number of HH's in the EA.
- Within each selected EA a representative systematic sample of 25 HHs will be drawn and a short screening questionnaire applied. This screening questionnaire will determine whether or not a HH qualify for inclusion in the sample (i.e. income level below R1600). It will also be established that if income level is below R1600 whether or not the HH has electricity. From all the qualifying HHs a second systematic sample of 8 HHs will be drawn to be interviewed in depth as described below. The size of the screening sample can be adjusted depending on the two qualifiers electricity and income. Only HHs with an income level of less than R1600 qualifies for inclusion. The income qualifying HHs will be grouped into two groups, those with electricity and those without electricity. The aim will be to draw 4 HHs with electricity and 4 HHs without electricity. Each of these groups will be drawn independently from the corresponding group of HHs found in the screened sample of 25, again using systematic sampling. Regular feedback about the situation in the field should be given to the fieldwork organiser/ supervisor with the view to adjust the procedure if the difference between the electricity group and the without electricity group becomes too large.

- The fieldwork supervisor will count the number of HHs (structures, stands, homesteads, etc.) in the EA and will give feedback about (i) the number of HHs in the EA, (ii) the size of the screening sample used, (iii) the number of qualifying HHs (income less than R1600) found in the screening sample, subdivided in those with and those without electricity and (iv) the number of HHs drawn of each type.

The following national sample was produced:

### 3.1. Western Cape

EA number	Prov	geotype	pop	LSM	EA GEOGRAPHIC TYPE	EA DESC	Dist	EA type	Imp	Total pop
11800121	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Thembalethu	139
17101845	1	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Crossroads	182
17102490	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	249
17102271	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	291
17102559	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	191
17102475	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	334
17102318	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	1285
17102329	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	143
17102759	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	167
17102619	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	294
17102740	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	505
17102784	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	506
17102827	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Khayelitsha	466
17101520	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Mitchell's Plain	392
17101786	1	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Mitchell's Plain	346
10100002	1	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Doringbaai	133
10500116	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Riebeeck-Kasteel	189
10700135	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Paarl	175
11700054	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Mossel Bay	174
11800157	1	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	WC	4	George	188
11900086	1	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Oudtshoorn	345
17103097	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Blue Downs	183
17104121	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Brackenfell	168
17101898	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Cape Town	235
17101739	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Cape Town	230
17100697	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Cape Town	175
17102718	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Eisiesrivier	170
17103512	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Kuilsriver	200
17100515	1	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Mitchell's Plain	172
17100872	1	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Cape Town	179
10700033	1	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	WC	4	Paarl	256
10800155	1	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Groendal	420
12000032	1	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	New Horizons	292
17102671	1	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Cape Town	408
17101958	1	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Guguletu	252
17102607	1	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Khayelitsha	191
17102555	1	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Khayelitsha	210
17102531	1	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Khayelitsha	314
17102260	1	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Khayelitsha	206
17101446	1	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Mitchell's Plain	275
17101245	1	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Mitchell's Plain	193
17101126	1	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Mitchell's Plain	584
17100229	1	2	2	3	URBAN INFORMAL	INFORMAL SETTLEMENT	WC	5	Cape Town	53

EA number	Prov	geotype	pop	USM	EA GEOGRAPHIC TYPE	DES	WC	Area	Total
17103213	1	2	2	3	URBAN INFORMAL SETTLEMENT		WC	5 Somerset West	201
10100018	1	4	2	3	RURAL FORMAL FARM		WC	2 Matzikama	116
10200026	1	4	2	3	RURAL FORMAL FARM		WC	2 Cederberg	656
10300074	1	4	2	3	RURAL FORMAL FARM		WC	2 Bergrivier	131
10900136	1	4	2	2	RURAL FORMAL FARM		WC	2 Breede Valley	216
12100079	1	4	2	3	RURAL FORMAL FARM		WC	2 Knysna	167
12000022	1	4	4	2	RURAL FORMAL FARM		WC	2 Plettenberg Bay	311

### 3.2. Eastern Cape

EA number	Prov	geoty	pop	ESM	EA GEOGRAPHY TYPE	Set Desc	TO	type	name	Total HH
21400218	2	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Dlmbaza	322
21400738	2	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Mdantsane	144
22100235	2	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Mlungisi	247
23600888	2	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Umtata	726
27501192	2	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Ibhayi	216
27501456	2	1	1	1	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Motherwell	348
21401092	2	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	EC	4	East London	321
27500312	2	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Bethelsdorp	174
27500334	2	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Uitenhage	174
20500062	2	1	4	1	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Port Alfred	91
27500528	2	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Despatch	304
27500804	2	1	4	1	URBAN FORMAL	URBAN SETTLEMENT	EC	4	Port Elizabeth	332
21401077	2	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	EC	5	East London	275
21401246	2	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	EC	5	Pefferville	206
27500463	2	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	EC	5	Bethelsdorp	417
27501414	2	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	EC	5	Motherwell	293
22300277	2	3	1	2	TRIBAL AREA	VACANT	EC	0	Macubeni	40
23801370	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Mzongwana	47
23800730	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Makaula	108
23800923	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Hlubi	114
23700570	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Mvolozu	121
23600278	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Sithebe	112
23600609	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Mpeko	139
23600318	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Baziya	117
23500604	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Ebotwa	140
23400751	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Ntamatye	92
23400548	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Mhlanga	54
23400538	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Amasane	133
23300263	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Bomvini	82
23200667	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Qaukeni	108
23200389	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Bala	150
23100294	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Amanci	206
23000139	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Ntlenzi	49
23000117	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Amangutyana	112
22700171	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Basoto	204
22600585	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Bakoena	142
22400279	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Luhewini	109
22300007	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Nonesi	142
22200049	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Ndungwana	132
22200300	2	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Amahlubi	122
21800074	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Gaga	119
21500253	2	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Imiqayl	85
21400481	2	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Khambashe	148
21300246	2	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Peelton	152
21100892	2	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Ngusi	152
21100228	2	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1	Amazizi	75

EA number	Prov	pop	pop	LSM	EA GEOGRAPHY	DESC	E type	EA name	Total
21001013	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1 Ngubezulu	67
21000044	2	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	EC	1 Emvelini	112
20400079	2	4	1	1	RURAL FORMAL	FARM	EC	2 Makana	480
20900044	2	4	2	1	RURAL FORMAL	FARM	EC	2 Kou-Kamma	317



### 3.3. Northern Cape

FA number	Prov	Pop	Pop	LSM	GEOGRAPHY TYPE	RES DESC	OV	VR	Settlement	Total HH
32200040	3	1	1	3	URBAN FORMAL	VACANT	NC	0	Barkly West	710
31600025	3	1	1	2	URBAN FORMAL	SMALL HOLDING	NC	3	Cillie	135
31300020	3	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	E'Thembeni	196
31600069	3	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Louisvale	706
32000020	3	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Tlhakatlou	243
32100051	3	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Galeshewe	685
32100176	3	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Galeshewe	241
32200045	3	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Barkly West	57
32200035	3	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Mataleng	81
32200015	3	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Tidimalo	75
32400009	3	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Dibeng	621
38700010	3	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Jan Kempdorp	1198
30400043	3	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Brandvlei	178
30400005	3	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Nieuwoudtville	116
30700029	3	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Richmond	343
30900037	3	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Barcelona	133
31000006	3	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Carnarvon	105
31200020	3	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Hopetown	121
31300028	3	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Prieska	306
31400011	3	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Griekwastad	105
31600023	3	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Cillie	232
31700003	3	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Klippunt	188
31700025	3	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Upington	467
31800014	3	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Stutterheim	106
32000013	3	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Danielskuil	251
32100002	3	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Ritche	499
38700045	3	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Hartswater	135
38100031	3	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Kuruman	159
32100158	3	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Kimberley	155
31700082	3	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	NC	4	Upington	326
30100011	3	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NC	5	Port Nolloth	108
31700042	3	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NC	5	Paballelo	54
31700039	3	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NC	5	Paballelo	1031
31200019	3	2	2	3	URBAN INFORMAL	INFORMAL SETTLEMENT	NC	5	Hopetown	170
32200052	3	2	2	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NC	5	Holpan	196
38100030	3	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	NC	1	Ga Mohana	225
38100034	3	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NC	1	Ga Mohana	140
38100029	3	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	NC	1	Ga Mohana	603
32100322	3	4	1	2	RURAL FORMAL	FARM	NC	2	Sol Plaatje	101
32200053	3	4	1	2	RURAL FORMAL	FARM	NC	2	Dikgatlong	166
38700056	3	4	1	2	RURAL FORMAL	FARM	NC	2	Phokwane	460
38700038	3	4	1	2	RURAL FORMAL	FARM	NC	2	Phokwane	283
38700018	3	4	1	2	RURAL FORMAL	FARM	NC	2	Phokwane	421
30700033	3	4	2	2	RURAL FORMAL	FARM	NC	2	Ubuntu	104
31000002	3	4	2	2	RURAL FORMAL	FARM	NC	2	Kareeberg	48
31400049	3	4	2	2	RURAL FORMAL	FARM	NC	2	Siyancuma	112

EA number	Prov	geot typ	pop	LSM	EA GEOGRAPHIC TYPE	EA DESC	COV	Typ bld	EA name	Total HH
31600064	3	4	2	2	RURAL FORMAL	FARM	NC	2	Kai !Garib	160
31800006	3	4	2	2	RURAL FORMAL	FARM	NC	2	!Khais	406
39300021	3	4	2	2	RURAL FORMAL	FARM	NC	2	Benede Oranje	124
32000012	3	4	4	3	RURAL FORMAL	FARM	NC	2	Kgatelopele	163

### 3.4. Free State

EA number	Prov	Dep	pop	LSM	EA GEOGRAPHY TYPE	DESC	DV	mp	Total HH	
4200012	4	1	1	2	URBAN FORMAL	VACANT	FS	0	Mafahlaneng	208
40500642	4	1	1	3	URBAN FORMAL	SMALL HOLDING	FS	3	Bloemfontein	128
40600023	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Tweespruit	70
41000499	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Kutlwanong	175
41000661	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Phomolong	438
41000236	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Thabong	328
41000214	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Virginia	266
41000098	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Welkom	250
41100017	4	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Monyakeng	101
41200157	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Ficksburg	283
41200119	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Ficksburg	204
41200210	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Senekal	126
41400096	4	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Patsana	100
41500384	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Phuthaditjhaba	529
41500662	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Tlholong	608
41800120	4	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Tumahole	232
41900010	4	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Zamdela	223
40100061	4	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Jacobsdal	306
40500514	4	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Bloemfontein	191
41000267	4	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Thabong	204
41800126	4	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Parys	247
41700139	4	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Kroonstad	272
41000025	4	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Welkom	226
41000038	4	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Welkom	254
40500244	4	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Bloemfontein	210
40500100	4	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Bloemfontein	219
40500569	4	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	FS	4	Bloemfontein	409
40500496	4	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	FS	5	Mangaung	320
41000433	4	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	FS	5	Thabong	1047
41500510	4	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	FS	1	Mabolela	277
41500098	4	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	FS	1	Monontsha	278
41500418	4	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	FS	1	Namahadi	258
40300021	4	4	1	2	RURAL FORMAL	FARM	FS	2	Mohokare	152
40600102	4	4	1	2	RURAL FORMAL	FARM	FS	2	Mantsopa	194
40700063	4	4	1	2	RURAL FORMAL	FARM	FS	2	Masilonyana	132
40900082	4	4	1	2	RURAL FORMAL	FARM	FS	2	Tswelopele	242
41000697	4	4	1	2	RURAL FORMAL	FARM	FS	2	Matjhabeng	80
41100068	4	4	1	2	RURAL FORMAL	FARM	FS	2	Nala	90
41200071	4	4	1	2	RURAL FORMAL	FARM	FS	2	Setsoto	122
41200131	4	4	1	2	RURAL FORMAL	FARM	FS	2	Setsoto	110
41300059	4	4	1	2	RURAL FORMAL	FARM	FS	2	Dihlabang	176
41400048	4	4	1	2	RURAL FORMAL	FARM	FS	2	Nketoana	68
41600002	4	4	1	2	RURAL FORMAL	FARM	FS	2	Phumelela	78
41700175	4	4	1	2	RURAL FORMAL	FARM	FS	2	Moqhaka	136
41700187	4	4	1	2	RURAL FORMAL	FARM	FS	2	Moqhaka	125
41800010	4	4	1	2	RURAL FORMAL	FARM	FS	2	Ngwathe	125
40100056	4	4	1	2	RURAL FORMAL	SMALL HOLDING	FS	3	Letsemeng	136
40100002	4	4	2	2	RURAL FORMAL	FARM	FS	2	Letsemeng	179

EA number	Pro	pop	pop	LSM	EA GEOGRAPHY	EA DESC	Q	AVG	EA NAME	Total H
40100058	4	4	2	2	RURAL FORMAL	FARM	FS	2	Letsemeng	289
40200018	4	4	2	2	RURAL FORMAL	FARM	FS	2	Kopanong	100

### 3.5. KwaZulu-Natal

EA number	Prov	Type	pop	LSM	EA GEOGRAPHY TYPE	EA DESC	EA No	mp	Total HH
51100200	5	1	1	1	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Edendale	1862
51400196	5	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Ezakheni	654
52400297	5	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Osizweni	629
54900015	5	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Matatiela	602
57201694	5	1	1	1	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Durban	469
57200931	5	1	1	1	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Umlazi	4384
57201167	5	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Durban	378
57201551	5	1	2	1	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Durban	330
57202261	5	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Pinetown	220
57204020	5	1	3	3	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Verulam	385
57203321	5	1	3	3	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Phoenix	339
57204215	5	1	3	3	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 La Mercy	340
57203168	5	1	3	1	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Durban	482
57201048	5	1	3	2	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Chatsworth	904
52400023	5	1	3	1	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Newcastle	357
51100517	5	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Pietermaritzburg	131
57201447	5	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Durban	135
57202342	5	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	KZN	4 Pinetown	311
51100271	5	2	1	1	URBAN INFORMAL	INFORMAL SETTLEMENT	KZN	5 Edendale	848
54400060	5	2	1	1	URBAN INFORMAL	INFORMAL SETTLEMENT	KZN	5 Stanger	922
57202225	5	2	1	1	URBAN INFORMAL	INFORMAL SETTLEMENT	KZN	5 Dassenhoek	706
57203817	5	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	KZN	5 Inanda	261
57200213	5	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	KZN	5 KwaMakhutha	458
57203903	5	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	KZN	5 Mawothi	231
57204222	5	2	3	3	URBAN INFORMAL	INFORMAL SETTLEMENT	KZN	5 Tongaat	1060
57200126	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Sobonakhona	381
55100068	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Ikhwezi/Lokusa	165
54600091	5	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Mkhonto	229
54300089	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Macambini	316
54000089	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Shange	330
53900105	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Mambuka	153
53500167	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Mpukunyoni	82
53300140	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Nyawo	376
53100019	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Nobamba	224
53000100	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Mandlakazi	288
52700073	5	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Dlamini	231
52200114	5	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Qamu	155
52000192	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Molefe	202
51800022	5	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Amangwe	471
51400093	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Abantungwa/Kholwa	515
51100105	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Inadi	168
50600192	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Mavundla	461
50400121	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Dlamini	157
50200073	5	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	KZN	1 Ezembeni	261
50900032	5	4	1	2	RURAL FORMAL	FARM	KZN	2 Mooli Mpofana	258

EA number	Prov	geo type	pop	LSM	EA GEOGRAPHY TYPE	DESC	PA	emp	Total HH
52300065	5	4	1	3	RURAL FORMAL	FARM	KZN	2 Umvoti	275
52900131	5	4	1	2	RURAL FORMAL	FARM	KZN	2 Abaqulusi	268
54700191	5	4	1	3	RURAL FORMAL	FARM	KZN	2 Ingwe	682
51600057	5	4	1	1	RURAL FORMAL	SMALL HOLDING	KZN	3 Umtshezi	256
57203965	5	4	3	3	RURAL FORMAL	SMALL HOLDING	KZN	3 Ethekwini	389

### 3.6. North West

EA number	Prov	type	pop	ESM	EA GEOGRAPHY TYPE	EA DESC	EA	Comp	Total
68800046	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Kokosl	464
67600460	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Temba	195
67600059	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Ga-Rankuwa	525
62000014	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Lebaleng	314
61900460	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Khuma	998
61900147	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Jouberton	308
61800010	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Ikageng	261
60900130	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Bolkhutso	194
60300113	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Tlhabane	561
60300625	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Monakato	26
60300323	6	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Boitekong	1318
61800074	6	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Promosa	502
68800104	6	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Fochville	273
60300139	6	1	3	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Rustenburg	310
62000055	6	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Wolmaransstad	227
61900322	6	1	4	1	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Klerksdorp	347
60300154	6	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	NW	4 Waterval	123
67600352	6	2	1	3	URBAN INFORMAL	TRIBAL SETTLEMENT	NW	1 Tirisano	307
67600385	6	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NW	5 Temba	601
67600247	6	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	NW	5 Mabopane	163
67600207	6	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NW	5 Mabopane	471
67600253	6	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NW	5 Mabopane	173
67600083	6	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NW	5 Mabopane	671
61800093	6	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NW	5 Promosa	190
61400312	6	3	1	2	TRIBAL AREA	VACANT	NW	0 Bathaping Ba Ga Phudukutswana	71
67600362	6	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Tirisano	164
67600502	6	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Amandebele A Lebelo	338
62100207	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Kudumane	118
61400279	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bathaping Ba Ga Phudukutswana	67
61400379	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bathaping Ba Ga Maldi	86
61000191	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bahurutshe Ba Ga Moilwa	214
60800023	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Kopano	113
60800247	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Barolong Boo Ratshidi	325
60700109	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Kopano	52
60600072	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Barolong Boo Ratlou Ba Ga Phoi	203
60500283	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bathako Boo Mututu Ba Ga Mabe	203
60500338	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bakabung Ba Ratheo	216
60500487	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bakgalla Ba Ga Kgafela	162
60300289	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bafokeng	742

EA number	Prov	Type	Pop	LSM	EA GEOGRAPHY	EA DESC	EA	Sample	Total HI
60300445	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bafokeng	332
60200123	6	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Sechaba-Sa-Ba-Taung	242
60200266	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bakwena Boo Modimosana Ba Ga Makau	161
60200045	6	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bakgatla Ba Mmakau	348
60100073	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Kopanong	188
60100091	6	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NW	1 Bakgatla Ba Ga Mosetlha	139
60200509	6	4	1	2	RURAL FORMAL	FARM	NW	2 Madibeng	217
60700097	6	4	1	2	RURAL FORMAL	FARM	NW	2 Tswaing	210
61400187	6	4	1	2	RURAL FORMAL	FARM	NW	2 Greater Taung	170
62000077	6	4	1	2	RURAL FORMAL	FARM	NW	2 Maquassi Hills	670
61800168	6	4	4	2	RURAL FORMAL	SMALL HOLDING	NW	3 Potchetstroom	315



### 3.7. Gauteng

EA number	Prov	type	pop	ESM	EA GEOGRAPHY TYPE	EA TYPE	DESC	City	Comp name	Total HH
77402064	7	1	1	2	URBAN FORMAL	SMALL HOLDING	GT	3	Johannesburg	380
70401163	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Evaton	656
77302918	7	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Daveyton	553
77300624	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Katlehong	673
77302326	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	KwaThema	495
77303498	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Tembisa	751
77300262	7	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Thokoza	333
77403771	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Alexandra	297
77401721	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Diepkloof	540
77404070	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Diepsloot	512
77404260	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Ivory Park	609
77402801	7	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Johannesburg	983
77402715	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Johannesburg	443
77401671	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Meadowlands	179
77404208	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Midrand	3104
77401553	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Soweto	617
77400835	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Soweto	371
77401889	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Soweto	643
77601424	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Atteridgeville	284
77600942	7	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Mamelodi	250
77601906	7	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Soshanguve	931
77301161	7	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Reiger Park	322
77400355	7	1	2	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Johannesburg	435
70100052	7	1	3	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Krugersdorp	468
77400530	7	1	3	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Johannesburg	721
77400596	7	1	3	2	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Johannesburg	161
77400552	7	1	3	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Johannesburg	335
77403210	7	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Johannesburg	353
77402498	7	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Johannesburg	244
77403471	7	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Sandton	170
77403812	7	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Sandton	397
77600811	7	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	GT	4	Pretoria	201
70100141	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Munsieville	134
70300146	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Bekkersdal	250
77301191	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Boksburg	215
77302034	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Dukathole	561
77302150	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Germiston	561
77300242	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Katlehong	68
77302075	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Reiger Park	252
77303895	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Tembisa	249
77303874	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Tembisa	137
77302677	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Wattville	328
77404062	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5	Diepsloot	658
77403166	7	2	1	3	URBAN INFORMAL	INFORMAL	GT	5	Zandspruit	748

EA number	Prov	geot type	pop	ISM	EA GEOGRAPHY TYPE	DESC	EA	amp	Total H
						SETTLEMENT			
77601150	7	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5 Mamelodi	230
77601377	7	2	3	3	URBAN INFORMAL	INFORMAL SETTLEMENT	GT	5 Centurion	165
70600094	7	4	1	3	RURAL FORMAL	FARM	GT	2 Lesedi Local Municipality	83
77602093	7	4	1	3	RURAL FORMAL	FARM	GT	2 City of Tshwane Metro	1027
70500085	7	4	1	3	RURAL FORMAL	SMALL HOLDING	GT	3 Midvaal	277
77602097	7	4	4	2	RURAL FORMAL	SMALL HOLDING	GT	3 City of Tshwane Metro	271

### 3.8. Mpumalanga

EA number	Prov.	geot type	pop.	LSM	EA GEOGRAPHY TYPE	DESC	V.	type	mp name	Total HH
80200132	8	1	1	1	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Kwachibikhulu	232
80400152	8	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	eSizameleni	283
80600065	8	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Nthwane	288
80700066	8	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Embalenhle	485
80800092	8	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Botleng	119
80900296	8	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Hlalanikahle	369
80900249	8	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Witbank	103
81000036	8	1	1	1	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Mhluzi	265
81200527	8	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Tweefontein North	87
81200462	8	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Tweefontein South	60
81300442	8	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Siyabuswa	206
81500234	8	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	KaBokweni	222
81500733	8	1	1	1	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Matsulu	135
88200009	8	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Elangala	203
81500120	8	1	2	2	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Witrivier	164
80100027	8	1	3	1	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Carolina	133
80700231	8	1	4	3	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Secunda	216
81000140	8	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Middelburg	141
81500032	8	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	MP	4	Nelspruit	216
80100135	8	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	MP	5	Mpuluzi	330
80400132	8	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	MP	5	Daggakraal	67
80400091	8	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	MP	5	Daggakraal	118
80700047	8	2	1	1	URBAN INFORMAL	INFORMAL SETTLEMENT	MP	5	Embalenhle	185
81000133	8	2	1	1	URBAN INFORMAL	INFORMAL SETTLEMENT	MP	5	Middelburg	1007
88400036	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1	Moutse 3	286
88400177	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1	Mathula	2029
88300055	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1	Moutse 1	108
81700224	8	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1	Siboshwa	211
81700483	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1	Mawewe	120
81700392	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1	Matsamo	93
81500630	8	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1	Nkambeni	347
81500469	8	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1	Mpakeni	184
81500273	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1	Gutshwa	88
81300104	8	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1	Moretele	119

EA number	Prov	geot type	pop	LSM	EA GEOGRAPHY TYPE	ESC	EA	mp name	Total HH
81300193	8	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 Moretele	194
81300260	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 Moretele	96
81300455	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 Mdutjana	71
81300365	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 Mdutjana	120
81200627	8	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 Mkobola	128
81200124	8	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 Mkobola	89
81200298	8	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 KwaMhlanga	154
81200220	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 KwaMhlanga	112
81200406	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 KwaMhlanga	114
80100222	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 Mpsikazi	129
80100063	8	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	MP	1 Eerstehoek	122
80200096	8	4	1	2	RURAL FORMAL	FARM	MP	2 Msukaligwa	134
80400166	8	4	1	3	RURAL FORMAL	FARM	MP	2 Seme	80
80800111	8	4	1	3	RURAL FORMAL	FARM	MP	2 Delmas	142
81400006	8	4	1	2	RURAL FORMAL	FARM	MP	2 Thaba Chweu	142
81700614	8	4	1	2	RURAL FORMAL	FARM	MP	2 Nkomazi	129

### 3.9. Northern Province

EA numb code	Prov	geot type	(pop)	LSM	EA GEOGRAPHY TYPE	DESC	EA	amp	Total HT
98400004	9	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Motetema	328
91900454	9	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Mahwelereng	486
91900355	9	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Lekalakala	436
91500131	9	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NP	4 St Catherina	158
91300238	9	1	1	1	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Lebowakgomo	358
91200270	9	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Seshego	132
91200210	9	1	1	2	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Pietersburg	446
90700347	9	1	1	3	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Thohoyandou	150
90100266	9	1	1	1	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Giyani	441
91900457	9	1	3	3	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Potgietersrus	339
91600027	9	1	4	1	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Naboomspruit	98
91200325	9	1	4	2	URBAN FORMAL	URBAN SETTLEMENT	NP	4 Pietersburg	709
90700241	9	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NP	5 Thohoyandou	629
91400032	9	2	1	3	URBAN INFORMAL	INFORMAL SETTLEMENT	NP	5 Smersha Block	1379
91400044	9	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NP	5 Smersha Block	1606
91700053	9	2	1	2	URBAN INFORMAL	INFORMAL SETTLEMENT	NP	5 Phagameng	1161
98600389	9	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Moreipuso	98
98600010	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Mathibela	276
98600174	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Hoxane	649
98600918	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Amashangana	422
98500203	9	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 SD	296
92200111	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Mametja	268
92000426	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 SMN	311
92000313	9	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Masemola	202
91900076	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Bakenberg	150
91300090	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Zebediela	331
91300366	9	3	1	1	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Bakgaga Ba Mphahlele	125
91200335	9	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Moletji	77
91200814	9	3	1	3	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Mankoenng	212
91100129	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Sekgosese	116
91000303	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Moletji	88
90900192	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Manthata	150
90800118	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Sinthumule	357
90800640	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Mulambilu	243

EA number	Pro	geot type	pop	ESM	EA GEOGRAPHY TYPE	DESC	ES	Imp	Total H
90800038	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Kutama	72
90800773	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Dzanani	92
90700107	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Tshivhase	311
90700047	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Tshivhase	123
90700942	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Mtititi	338
90701088	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Mhinga	603
90600034	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Rambada	309
90300556	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Nwa' Mitwa	168
90300413	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Bankuna	187
90200291	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Vuyani	994
90200303	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Modjadji	96
90100011	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Ndengeza	102
90100333	9	3	1	2	TRIBAL AREA	TRIBAL SETTLEMENT	NP	1 Giyani	40
90400021	9	4	1	3	RURAL FORMAL	FARM	NP	2 Ba-Phalaborwa	553
91400004	9	4	1	3	RURAL FORMAL	FARM	NP	2 Thabazimbi	208
91800006	9	4	1	1	RURAL FORMAL	FARM	NP	2 Bela-Bela	224

## 4. HSRC QUESTIONNAIRE & PDA TRAINING

In order to introduce the PDAs and questionnaire to the HSRC researchers, a two day training sessions was scheduled by the DME. The training was held on 31 July- 1 August.

### 4.1. Some general remarks

- We will have to supply fieldworkers with an interview schedule in order to track completed interviews and to make sure that completed forms are not overwritten by using the same household number twice.
- A definition sheet with clarification of some specific concepts (for use by interviewers), i.e. grid and non-grid electricity will have to be developed.
- Interpretation will be a problem. Different fieldworkers will have different ways of translating the same thing. A translated template of the questionnaire will therefore be developed for six languages: isiXhosa, isiZulu, Setswana, Tsonga, Venda and Afrikaans.
- The questions where calculations in terms of the costs for distance and energy sources are required it should be explained in detail as well as procedures to do calculations on the PDAs.
- Every household will have different GPS co-ordinates, what happens when a signal cannot be reached and the fieldworker submits when GPS available; does this mean that all those questionnaires submitted will have the same co-ordinates? If so; what are the implications of this?
- A training manual, with visual material needs to be developed. This training manual should also have trouble shooting hints in the text. Initially the HSRC will start designing this manual with inputs from the DME at a later stage.
- Movement between screens take long
- Can the little box that activates the keyboard be shifted to the bottom right-hand corner since it often overlays the text?
- How are start and end times recorded?
- Think about programmatically inserting an EA number.

- Left handed persons could have a problem as the hand will be over the screen to navigate scroll and select buttons on right hand side of the screen
- If you do not give the system enough time to process a question it freezes on the next question and you need to restart the system.



## 4.2. Some specific suggestions

### Identification page

- We will have to make sure each fieldworker has a unique identifier apart from the PDA's unique number. Since we will only have the names of the fieldworkers towards the end of the August it is suggested that each PDA gets a number (001-120) as part of the login code. Each fieldworker will then be assigned a number and in this way we can control for the PDA ownership as well as data control.
- We have noticed that there is no filter from district name to municipality name. In other words you can select a certain district and then select a wrong municipality name. Is it possible to filter only those municipalities that belong to that specific district? This could eliminate some errors.
- Questionnaire Uniqueness is a major concern. The process of uniqueness is highly prone to human error. Duplication by the fieldworker would mean losing questionnaire information because duplicates are not allowed on the server and hence that questionnaire will be over written if it already exists on the server. A suggestion is that they programmatically set a counter; where the program will insert the next household number on the start of a new interview.
- When testing our PDAs at home it was noted in one instance that each time you switch on the PDA you need to activate the 3G.
- Despite being in the open, we had varied results in terms of the time that it took to pick up the satellite. Sometimes only seconds yet the next day at the same spot it took 10 minutes.
- My PDA froze 3 times during the training session on Friday. If this happens to the fieldworker they should choose the option not to send error message. Choosing to send takes very long because the message is sent to Microsoft website and only returns once a connection to the site is made. When the messages "A windows application has an error .... Send or Do not send" appear, fieldworkers should not press the send button since this creates enormous time delays.
- We found situations where the PDA just hung –not responding.

- Generally Questions 12, 32 and 33 are very tedious and confusing on the PDA. When you have entered data on question 32 it is not possible to go back and correct for mistakes. If you do try and go back to previous energy sources it also deletes previous data that you have already saved. This problem needs urgent attention.
- Question 33 is a difficult question and our experience is that once people are asked to do calculations data generally does not add up. This will have to be dealt with in the training and also perhaps we need to see if we cant somewhere record a total and
- We also got the message "Connection Failed "Service currently not available" – even when the 3G was active.

#### **4.3. General comments in terms of the questionnaire**

##### **Question 7**

*How many people in this household are in full time or part time employment?*

This question allows you to leave it blank. We need be ensure consistency in terms of capturing i.e. blank value = 0 part time employment.

##### **Question 16**

*For how long has your community been electrified?*

No option for don't know

##### **Question 17.**

*Is your household electrified?*

The manual states that this question pertains to houses that have a formal electricity connection. However, how does one record a situation where the house does not have a formal connection but gets electricity from the neighbour via an extension cord or cable or in the case of an illegal connection?

In the case where a household gets electricity from a neighbour, this household will be treated as if it does not have any electricity (therefore code "no").

If a household is illegally connected then this household will be treated as if they do have electricity (thus "yes" to Question 17). However, in the comment lines at the end of the questionnaire the fieldworker will note that this was an illegal connection.

#### **Question 19**

*What type of electricity connection do you have? Grid vs. Non-Grid.*

The different types of electricity connections will have to be clarified clearly with examples together with question 21.

Grid electric is any electricity that is received via cables and from a power station i.e. ESKOM, EFKOM. An example of non-grid electricity is solar panels.

#### **Question 20**

*Indicate type of supply*

Fieldworkers will have to get guidelines on when to code what type of Amps. This does not always appear on the meter boxes and they need to make correct and consistent judgment calls.

#### **Question 21**

*What type of metering system do you use?*

Should be clarified in the training manual. A prepaid metering system refers to a system where you use pre-paid cards and buy electricity. However it also includes people who have solar electricity and made a one-off payment. They thereafter only pay for maintenance.

The conventional metering system is chosen if you have a monthly payment.

#### **Question 28**

*What were the reasons for power failure?*

Load shedding should be noted under other.

#### **Question 34**

*Do you collect firewood?*

Should read: Do you (or any other person in the household) collect firewood?

**Question 35:**

*Who in the household is responsible for collecting firewood, how far and how often?*

Mother should become female (any female 16+)

Father should become male (any male 16+)

Girl child (15 years and younger)

Boy child (15 years and younger)

**Question 37**

*How much do you think the household should pay?*

Add a category "none".

**Question 39**

*Did you receive any training in safety measures when using electricity?*

Does this question just relate to the electrification programme or does it also apply to getting some info at school or elsewhere

**Fieldworker's comments**

If the connection is illegal fieldworker should note it here.

## **5. TRAINING OF FIELDWORKERS**

The training will take place 1-5 September at the HRSC. The tentative guideline agenda is as follows.

Monday:	Training the questionnaire
Tuesday:	PDA training
Wednesday:	Field trip exercise
Thursday:	Discussing findings and problems from the field exercise
Friday:	Further discussion on the field exercise and general fieldwork guidelines i.e ethical issues, consent forms, dealing with problems in the field etc.

## **6. CRITICAL TASKS FOR NEXT PERIOD (11-25/08)**

### **6.1. Recruit fieldworkers**

- Provincial sub-supervisors have been contacted and they will identify local fieldworkers.
- Once they have identified suitable fieldworkers HSRC officials will verify the suitability of the fieldworkers. As stipulated in the TOR these fieldworkers will be from the local areas and will be unemployed at the time of the survey. At this stage a minimum requirement of a Grade 12 qualification is envisaged. Fieldworkers listed on the DME database that participated in last year's pilot study will also be contacted and considered for the study.
- The recruitment of fieldworkers will be completed by the 18<sup>th</sup> of August and these names will be put on the HSRC database to register them as fieldworkers.

### **6.2. Organising the training**

- All venues have been secured and the catering has been finalised.
- As soon as the names of the fieldworkers are available travel and accommodation will be sorted.

- Contracts will also be drawn up for all the fieldworkers. All logistics associated with the fieldwork i.e. car rentals, provisions will be organised in the next two weeks.

### **6.3. Material**

- The HSRC will start to prepare the additional material for the training manual - i.e. further clarification of questions and prepare translation sheets.
- Introductory letters, letters to the police and traditional authorities will also be prepared and translated. Further permission will be sought from AgriSA to enter the farms.
- A very practical training manual –aimed at the PDA and specifically trouble shooting will also be developed by the HSRC in the next weeks.
- Certificates will be prepared for all the training participants.
- Name-tags for fieldworkers will also be prepared.
- Screening sheets needs to be prepared

### **6.4. Fieldwork**

- Fieldwork plans for each province and team to be developed

## **7. NEEDED FROM DME**

DME to send us:

- Agenda for the training
- Get electronic copy of training manual
- 

Issues to be flagged during the meeting:

- Discuss the meeting schedule
- Discuss the PDA training manual

---

## PROGRESS REPORT 2

---

25 August 2008

## 2.1. INTRODUCTION

The second progress report to the DME mainly deals with fieldworker logistics in preparation of the fieldwork. Fieldwork will officially start on the 8<sup>th</sup> of September until the end of September. After the finalization of the sample, a fieldwork distribution list was systematically drawn based on the selected number of Enumerator Areas (EAs) in the different provinces (see section 4) to ensure that local fieldworkers are selected.

## 2.2 SAMPLING (CONT.)

In the previous progress report the HSRC presented a sample that was to be used for this study. Subsequently however, it was found that the sample drawn used the 2001 provincial boundaries. When perusing the sample, we noted that provincial boundary changes had an effect on 17 enumerator areas. Keeping this sample would have implied that 17 enumerator areas would have been displaced from their current provinces.

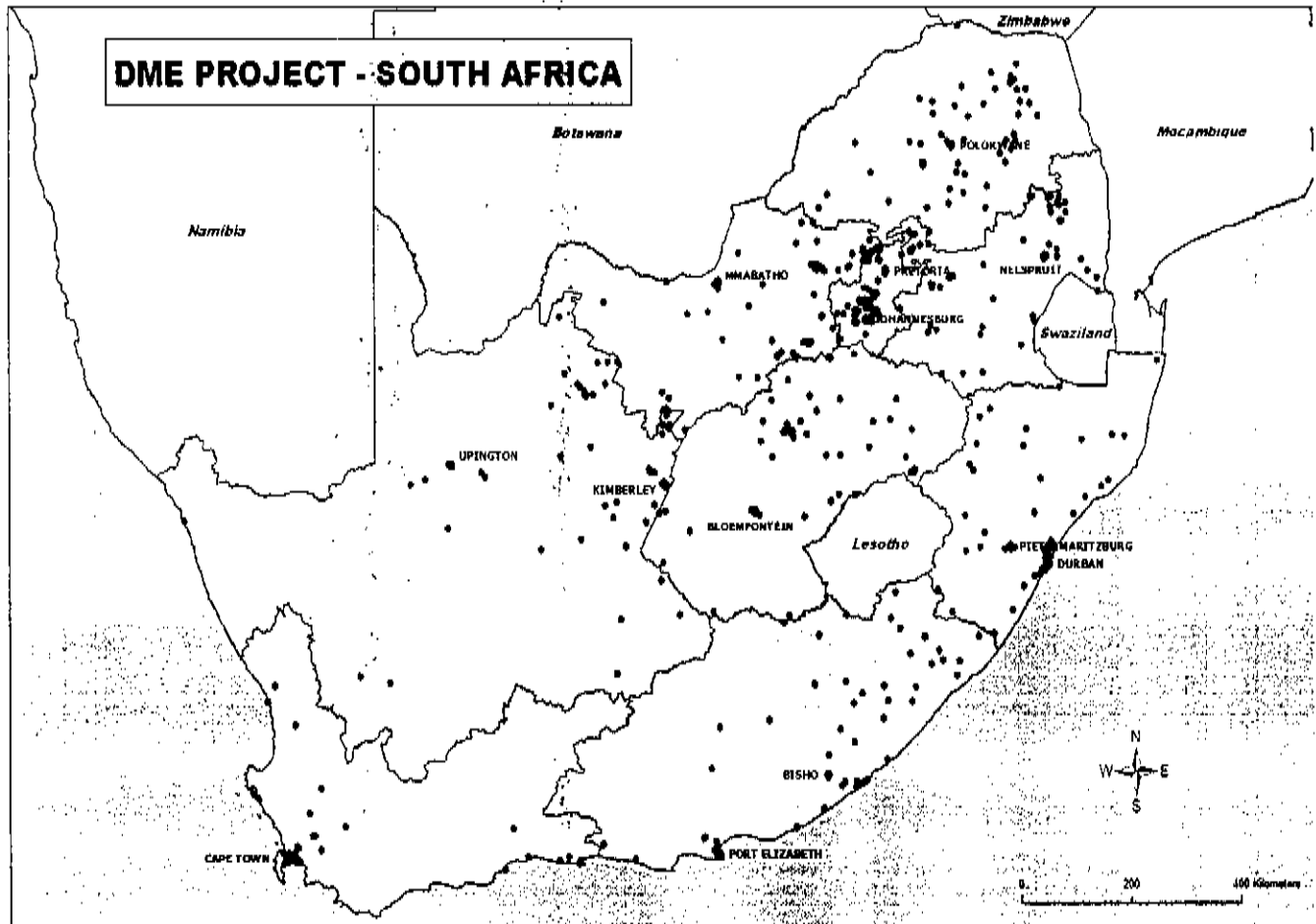
**Table 1. Enumerator areas affected by provincial boundary changes.**

EA number	2001 Provincial boundary	Main Place Name	Sub Place Name	2006 Provincial boundary
23700570	Eastern Cape	Mvolozi	Krom Hoek	Kwa-Zulu Natal
54900015	Kwa-Zulu Natal	Matatiële	NONE	Eastern Cape
67600460	North West	Temba	NONE	Gauteng
67600059	North West	Ga-Rankuwa	Ga-Rankuwa Zone 7	Gauteng
67600352	North West	Tirisano	Stinkwater	Gauteng
67600385	North West	Temba	Sekampaneng	Gauteng
67600247	North West	Mabopane	Winterveldt Ward 8	Gauteng
67600207	North West	Mabopane	Winterveldt Ward 5	Gauteng
67600253	North West	Mabopane	Winterveldt Ward 3	Gauteng
67600083	North West	Mabopane	Ramaphosa	Gauteng
67600362	North West	Tirisano	Stinkwater	Gauteng
67600502	North West	Amandebele A Lebelo	Ramotse	Gauteng
62100207	North West	Kudumane	Bothithong	Northern Cape
88200009	Mpumalanga	Ekgangala	Ekgangala D	Gauteng
88400036	Mpumalanga	Moutse 3	Ramaphosa	Limpopo
88400177	Mpumalanga	Mathula	Sehlakwane	Limpopo
88300055	Mpumalanga	Moutse 1	Matlala Ramosheba	Limpopo



A decision was then taken to redraw the sample to reflect the 2006 provincial boundaries. Since it was not possible to only redraw certain provinces, the full national sample had to be redrawn. Below is the graphical representation of the final sampled areas, followed by the list of all sampled areas.

**Figure 1: A Graphical representation of selected Enumeration Areas**



**Table 2. Final sample list**

**2.2.1. Western Cape**

EA number	Geotype	Race	LSM	EAtype	Main place name	Sub place name	DM name
17104230	1	1	3	4	Brackenfell	Wallacedene	City of Cape Town
17102401	1	1	3	4	Khayelitsha	Griffiths Mthenge	City of Cape Town
17102173	1	1	3	4	Khayelitsha	Harare	City of Cape Town
17102295	1	1	3	4	Khayelitsha	Khayelitsha Site C	City of Cape Town
17102548	1	1	3	4	Khayelitsha	Khayelitsha T1-V3	City of Cape Town
17102211	1	1	3	4	Khayelitsha	Khayelitsha T1-V4	City of Cape Town
17102318	1	1	3	4	Khayelitsha	Khayelitsha T1-V4	City of Cape Town
17102347	1	1	3	4	Khayelitsha	Khayelitsha T1-V4	City of Cape Town
17102683	1	1	3	4	Khayelitsha	Khayelitsha T3-V3	City of Cape Town
17102673	1	1	3	4	Khayelitsha	Khayelitsha T3-V5	City of Cape Town
17102772	1	1	3	4	Khayelitsha	Khayelitsha T3-V5	City of Cape Town
17102827	1	1	3	4	Khayelitsha	Khayelitsha T3-V5	City of Cape Town
17101019	1	1	3	4	Mitchell's Plain	Philippi	City of Cape Town
17101786	1	1	3	4	Mitchell's Plain	Philippi	City of Cape Town
17103097	1	2	3	4	Blue Downs	Hillcrest Heights	City of Cape Town
17104121	1	2	3	4	Brackenfell	Northpine	City of Cape Town
17101898	1	2	3	4	Cape Town	Heideveld	City of Cape Town
17101739	1	2	3	4	Cape Town	Maitland Garden Village	City of Cape Town
17100697	1	2	3	4	Cape Town	Ottery	City of Cape Town
17102718	1	2	3	4	Elsiesrivier	Eureka	City of Cape Town
17103512	1	2	3	4	Kullsvier	Sarepta	City of Cape Town
17100515	1	2	3	4	Mitchell's Plain	Strandfontein	City of Cape Town
17104225	1	4	3	4	Kraaifontein	Bonnie Brook	City of Cape Town
17102671	2	1	2	5	Cape Town	Airport Informal	City of Cape Town
17101958	2	1	3	5	Guguletu	Guguletu	City of Cape Town
17102607	2	1	3	5	Khayelitsha	Khayelitsha	City of Cape Town
17102555	2	1	3	5	Khayelitsha	Khayelitsha	City of Cape Town
17102531	2	1	3	5	Khayelitsha	Khayelitsha	City of Cape Town
17102260	2	1	3	5	Khayelitsha	Khayelitsha T1-V4	City of Cape Town
17101446	2	1	3	5	Mitchell's Plain	Philippi	City of Cape Town
17101245	2	1	3	5	Mitchell's Plain	Philippi	City of Cape Town
17101126	2	1	3	5	Mitchell's Plain	Philippi	City of Cape Town
17100229	2	2	3	5	Cape Town	Mulzenberg	City of Cape Town
17103213	2	2	3	5	Somerset West	Macassar	City of Cape Town
10100002	1	2	2	4	Doringbaai	NONE	West Coast
10100018	4	2	3	2	Matzikama	Vredendal NU	West Coast
10200026	4	2	3	2	Cederberg	Clanwilliam NU	West Coast
10300074	4	2	3	2	Bergrivier	Piketberg NU	West Coast
10500116	1	2	3	4	Riebeeck-Kasteel	NONE	West Coast
10700135	1	2	3	4	Paarl	Groenheuwel	Cape Winelands
10700068	1	4	2	4	Paarl	Northern Paarl	Cape Winelands
10800155	2	1	3	5	Groendal	Groendal	Cape Winelands
10900136	4	2	2	2	Breede Valley	Worcester NU	Cape Winelands
11700054	1	2	3	4	Mossel Bay	Mossel Bay Ext 26	Eden
11800157	1	2	2	4	George	Parkdene	Eden
11900086	1	2	2	4	Oudtshoorn	Toekomsrus	Eden
12000032	2	1	3	5	New Horizons	Bossies Gif	Eden
12000022	4	4	2	2	Plettenberg Bay	Plettenberg Bay NU	Eden
12100019	1	4	2	4	Knysna	Belvidere	Eden
12100079	4	2	3	2	Knysna	Knysna NU	Eden

## 2.2.2. Eastern Cape

EA number	Geotype	Race	LSM	EAtype	Main place name	Subplace name	DM name
23800520	1	1	1	4	Mount Frère	NONE	Alfred Nzo
23800809	3	1	1	1	Mosesh	Queen's Mercy	Alfred Nzo
23800540	3	1	2	1	Makaula	Lubacwéni	Alfred Nzo
20200014	4	1	2	2	Blue Crane Route	Somerset East NU	Cacadu
20500101	1	4	2	4	Port Alfred	NONE	Cacadu
20900014	1	2	2	4	Krakeel Rivier	NONE	Cacadu
20900044	4	2	1	2	Kou-Kamma	Humansdorp NU	Cacadu
21000192	3	1	2	1	Idutywa	Colosa	Amatole
21100716	3	1	3	1	Imidushane	Dakeni	Amatole
21100015	3	1	1	1	Amabhele	eVotini	Amatole
21300313	1	1	2	4	Stutterheim	NONE	Amatole
21300425	3	1	1	1	Amazizi	Sibongiseni	Amatole
21400668	1	1	3	4	Mdantsane	Mdantsane S17	Amatole
21401520	1	4	2	4	Sunrise-On-Sea	NONE	Amatole
21401172	2	1	3	5	Duncan Village	Ford and Msimango	Amatole
21401482	2	1	3	5	Mzamonhle	Mzamonhle	Amatole
21400576	3	1	2	1	Khambashe	KwaMhlabubonvu	Amatole
21401383	4	1	1	2	Buffalo City	East London NU	Amatole
21500178	3	1	2	1	Mareledwana	Wesley	Amatole
21800062	1	1	1	4	Lingelihle	NONE	Chris Hani
21900048	3	1	2	1	Amaqwati	Tentergate	Chris Hani
22200666	3	1	1	1	Jumba	KuNgqwaru	Chris Hani
22300272	3	1	2	1	Macubeni	KuDyobhudaka	Chris Hani
22400128	3	1	2	1	Luhewini	Miyeni	Chris Hani
22500065	2	1	3	5	Cala	Phakamisa	Chris Hani
22600451	3	1	2	0	Batlorkoa	NONE	Ukhahlamba
22600406	3	1	1	1	Batlorkoa	eMbopisiweni	Ukhahlamba
22700355	3	1	2	1	Hlubi	Mbango	Ukhahlamba
22700010	4	1	1	2	Senqu	Lady Grey NU	Ukhahlamba
22800052	1	1	2	4	Dukathole	NONE	Ukhahlamba
23000283	3	1	1	1	Imizizi	Kayamnandi	O.R. Tambo
23100090	3	1	1	1	Amacwera	eMampondweni	O.R. Tambo
23200637	3	1	3	1	Qaukeni	Qankeni	O.R. Tambo
23200470	3	1	2	1	Amantlane	Sikhulu	O.R. Tambo
23300377	3	1	1	1	Gunyeni	Melaba	O.R. Tambo
23400297	3	1	2	1	Ngqubusini	Sundwane	O.R. Tambo
23400651	3	1	1	1	Mbalisweni	Zixhotyeni	O.R. Tambo
23500480	3	1	2	1	Culunca	Mbentsa	O.R. Tambo
23600483	3	1	2	1	Xesibe	eMazizini	O.R. Tambo
23600044	3	1	2	1	Mqokezweni	Mplkwane	O.R. Tambo
23600302	3	1	1	1	Baziya	Twane	O.R. Tambo
27500882	1	1	1	4	Ibhayi	Zwide 3	Nelson Mandela Bay
27501326	1	1	2	4	Motherwell	Motherwell 7	Nelson Mandela Bay
27500545	1	2	3	4	Bethelsdorp	NONE	Nelson Mandela Bay
27500537	1	2	2	4	Kwa Langa	Tambo	Nelson Mandela Bay
27500335	1	2	2	4	Uitenhage	Thomas Gamble	Nelson Mandela Bay
27501265	1	4	1	4	Port Elizabeth	Humewood	Nelson Mandela Bay
27501217	1	4	1	4	Port Elizabeth	South End	Nelson Mandela Bay
27500742	2	1	3	5	Gqebera	Walmer Location	Nelson Mandela Bay
27501414	2	1	2	5	Motherwell	Tjoksville	Nelson Mandela Bay

### 2.2.3. Northern Cape

EA number	Geotype	Race	LSM	EAtype	Main place	Sub place name	DM name
61100017	3	1	2	0	Batharo Ba Lotlware	NONE	Bophirima
38100040	1	2	3	4	Kuruman	Wrenchville	Kgalagadi
38100031	1	4	3	4	Kuruman	NONE	Kgalagadi
68100074	3	1	2	1	Kudumane	Harvard	Kgalagadi
68100007	3	1	2	1	Batharo Ba Ga Motlware	Seoding	Kgalagadi
68100046	3	1	2	1	Batharo Ba Ga Motlware	Batharos	Kgalagadi
68100095	3	1	2	1	Batharo Ba Ga Motlware	Batharos	Kgalagadi
32400009	1	1	3	4	Dibeng	NONE	Kgalagadi
39200013	4	2	2	2	Bo Karoo	Hopetown NU	Kgalagadi
39400001	4	2	2	2	Diamondfields	Herbert NU	Kgalagadi
62100124	3	1	2	1	Kudumane	Ga-Mokagaal	Kgalagadi
62100263	3	1	2	1	Kudumane	Cassel	Kgalagadi
62100219	3	1	2	1	Batharo Ba Ga Phadima	Ditshipeng	Kgalagadi
62100006	3	1	2	1	Batharo Ba Ga Motlware	Maipeng	Kgalagadi
62100148	3	1	2	1	Batharo Ba Ga Motlware	Bendel	Kgalagadi
30100011	2	1	2	5	Port Nolloth	Sizamile	Namakwa
30400010	1	2	3	4	Calvinia	Newtown	Namakwa
30400037	4	2	2	2	Hantam	Calvinia NU	Namakwa
30700029	1	2	3	4	Richmond	NONE	Pixley ka Seme
30800033	4	2	2	2	Umsombomvu	Colesberg NU	Pixley ka Seme
30900047	1	2	3	4	Barcelona	Sunrise	Pixley ka Seme
31100020	4	2	2	2	Renosterberg	Phillipstown NU	Pixley ka Seme
31200020	1	2	3	4	Hopetown	Steynville	Pixley ka Seme
31200019	2	2	3	5	Hopetown	Steynville	Pixley ka Seme
31300014	1	1	3	4	E'Thembeni	NONE	Pixley ka Seme
31400032	1	2	3	4	Breipaal	NONE	Pixley ka Seme
31400053	4	2	2	2	Siyancuma	Herbert NU	Pixley ka Seme
31400036	4	2	2	2	Siyancuma	Herbert NU	Pixley ka Seme
31600023	1	2	2	4	Cillie	NONE	Siyanda
31600043	4	1	3	2	Kai !Garib	Kenhardt NU	Siyanda
31600034	4	2	2	2	Kai !Garib	Gordonia NU	Siyanda
31700063	1	2	2	4	Upington	Louisvale	Siyanda
31700075	1	4	2	4	Upington	Oosterville	Siyanda
31700039	2	1	2	5	Paballelo	Paballelo	Siyanda
31800020	1	2	3	4	Grootdrink	NONE	Siyanda
31800017	4	2	2	2	IKheis	Gordonia NU	Siyanda
31900013	1	1	3	4	Boitshoko	NONE	Siyanda
32000012	4	4	3	2	Kgatelopele	Postmasburg NU	Siyanda
38700010	1	1	3	4	Jan Kempdorp	Valspan	Frances Baard
38700055	4	1	2	2	Phokwane	Hartswater NU	Frances Baard
38700043	4	1	2	2	Phokwane	Hartswater NU	Frances Baard
38700034	4	1	2	2	Phokwane	Hartswater NU	Frances Baard
38700003	4	1	3	2	Phokwane	Hartswater NU	Frances Baard
32100051	1	1	2	4	Galeshewe	Phutanang	Frances Baard
32100009	1	1	3	4	Motswedimosa	NONE	Frances Baard
32100238	1	2	2	4	Kimberley	Homevale	Frances Baard
32200040	1	1	3	0	Barkly West	NONE	Frances Baard
32200034	1	1	2	4	Mataleng	NONE	Frances Baard
32200047	4	1	2	2	Dikgatlong	Barkly West NU	Frances Baard
32300032	4	1	2	2	Magareng	Warrenton NU	Frances Baard

## 2.2. 4. Free State

EA number	Geotype	Race	LSM	EAtype	Main place name	Sub place name	QManam
40100061	1	2	2	4	Jacobsdal	Saundershoogte	Xhariep
40100056	4	1	2	3	Letsemeng	Riet Rivier AH	Xhariep
40100002	4	2	2	2	Letsemeng	Fauresmith NU	Xhariep
40100058	4	2	2	2	Letsemeng	Koffiefontein NU	Xhariep
40200018	4	2	2	2	Kopanong	Phillipolis NU	Xhariep
40300021	4	1	2	2	Mohokare	Rouxville NU	Xhariep
40500642	1	1	3	3	Bloemfontein	Grasslands SH	Motheo
40500514	1	2	2	4	Bloemfontein	Heidedal	Motheo
40500244	1	4	2	4	Bloemfontein	Universitas	Motheo
40500100	1	4	2	4	Bloemfontein	Langenhovenpark	Motheo
40500569	1	4	3	4	Bloemfontein	Dan Pienaar	Motheo
40500496	2	1	2	5	Mangaung	Batho	Motheo
40600023	1	1	3	4	Tweespruit	NONE	Motheo
40600102	4	1	2	2	Mantsopa	Clocolan NU	Motheo
40700063	4	1	2	2	Masilonyana	Theunissen NU	Lejweleputswa
40900082	4	1	2	2	Tswelopele	Bultfontein NU	Lejweleputswa
41000499	1	1	3	4	Kutlweng	NONE	Lejweleputswa
41000661	1	1	3	4	Phomolong	NONE	Lejweleputswa
41000236	1	1	3	4	Thabong	NONE	Lejweleputswa
41000214	1	1	3	4	Virginia	Saapiaas	Lejweleputswa
41000098	1	1	3	4	Welkom	Rheeder Park	Lejweleputswa
41000267	1	2	3	4	Thabong	Bronville	Lejweleputswa
41000025	1	4	3	4	Welkom	Lakeview	Lejweleputswa
41000038	1	4	2	4	Welkom	Bedelia	Lejweleputswa
41000433	2	1	2	5	Thabong	Thabong	Lejweleputswa
41000697	4	1	2	2	Matjhabeng	Hennenman NU	Lejweleputswa
41100017	1	1	2	4	Monyakeng	NONE	Lejweleputswa
41100068	4	1	2	2	Nala	Bothaville NU	Lejweleputswa
41200157	1	1	3	4	Ficksburg	NONE	Thabo Mofutsanyane
41200119	1	1	3	4	Ficksburg	NONE	Thabo Mofutsanyane
41200210	1	1	3	4	Senekal	NONE	Thabo Mofutsanyane
41200071	4	1	2	2	Setsoe	Clocolan NU	Thabo Mofutsanyane
41200131	4	1	2	2	Setsoe	Senekal NU	Thabo Mofutsanyane
41300059	4	1	2	2	Dihlabeng	Bethlehem NU	Thabo Mofutsanyane
41400096	1	1	2	4	Petsana	Itshokolele	Thabo Mofutsanyane
41400048	4	1	2	2	Nketoana	Lindley NU	Thabo Mofutsanyane
41500384	1	1	3	4	Phuthaditjhaba	Mandela Park	Thabo Mofutsanyane
41500662	1	1	3	4	Tiholong	NONE	Thabo Mofutsanyane
41500510	3	1	3	1	Mabolole	Mphatlalatsane	Thabo Mofutsanyane
41500098	3	1	3	1	Monontsha	Pabalong	Thabo Mofutsanyane
41500418	3	1	3	1	Namahadi	Ha-Rankopane	Thabo Mofutsanyane
41600002	4	1	2	2	Phumelela	Harrismith NU	Thabo Mofutsanyane
41700139	1	4	2	4	Kroonstad	Wilgenhof	Fezile Dabi
41700175	4	1	2	2	Moghaka	Kroonstad NU	Fezile Dabi
41700187	4	1	2	2	Moghaka	Viljoenskroon NU	Fezile Dabi
41800120	1	1	3	4	Tumahole	Ou Lokasie	Fezile Dabi
41800126	1	4	2	4	Parys	West End	Fezile Dabi
41800010	4	1	2	2	Ngwathe	Kroonstad NU	Fezile Dabi
41900010	1	1	2	4	Zamdela	Zamdela Ext 6	Fezile Dabi
42000012	1	1	2	0	Mafahlaneng	NONE	Fezile Dabi

## 2.2.5.Kwa-Zulu Natal

EA number	Geotype	Race	LSM	EAtype	Main place name	Sub place name	OM name
57201626	1	1	1	4	Durban	Durban CBD	Ethekwini
57200931	1	1	1	4	Umlazi	Umlazi V	Ethekwini
57201201	1	2	3	4	Durban	Austerville	Ethekwini
57202883	1	2	1	4	Newlands East	New Dawn Park	Ethekwini
57204020	1	3	3	4	Verulam	Trenance Park	Ethekwini
57203321	1	3	3	4	Phoenix	Rydalvane	Ethekwini
57204215	1	3	3	4	La Mercy	La Mercy	Ethekwini
57203168	1	3	1	4	Durban	Avoca	Ethekwini
57201048	1	3	2	4	Chatsworth	Havenside	Ethekwini
57202790	1	4	1	4	Durban	Essenwood	Ethekwini
57201492	1	4	3	4	Durban	Westridge	Ethekwini
57204083	1	4	1	4	Umhlanga	La Lucia	Ethekwini
57203759	2	1	3	5	Inanda	Bhambayi	Ethekwini
57200274	2	1	2	5	KwaMakhutha	Eziko	Ethekwini
57203870	2	1	3	5	Mawothi	Lower Angola	Ethekwini
57204222	2	3	3	5	Tongaat	Belvedere	Ethekwini
57200096	3	1	2	1	Sobonakhona	Adams Rural	Ethekwini
57203965	4	3	3	3	Ethekwini	Buffelsdraai AH	Ethekwini
50100087	3	1	2	1	Ezembeni	eMjunundwini	Ugu
50300220	3	1	2	1	Qwabe P	Dibi	Ugu
50500029	3	1	2	1	Vuxuzithathe	Ngcawusheni	Ugu
50800007	4	1	2	2	uMngeni	Lions River NU	Umgungundlovu
61000050	3	1	2	1	Nxamalala	Gomane	Umgungundlovu
51100200	1	1	1	4	Edendale	Caluza	Umgungundlovu
51100567	1	4	3	4	Pietermaritzburg	Bellevue	Umgungundlovu
51100271	2	1	1	5	Edendale	Diaba	Umgungundlovu
51100702	4	1	2	3	Msunduzi	Ashburton Training Centre	Umgungundlovu
51400076	1	1	3	4	Ladysmith	Model Kloof	Uthukela
51400077	3	1	2	1	Abantungwa/Kholwa	PeaceTown	Uthukela
51400246	4	1	2	2	Emnambithi/Ladysmith	Danhauser NU	Uthukela
51800021	3	1	2	1	Abambo	Emhlabathini	Uthukela
52000141	3	1	2	1	Molefe	Mkhonjane	Umzimyathi
52300062	3	1	1	1	Somvu	KwaZiba	Umzimyathi
52400023	1	3	1	4	Newcastle	Suryaville	Amajuba
52500001	4	1	2	2	Utrecht	Utrecht NU	Amajuba
52800023	3	1	2	1	Msibi	Oranjedal	Zululand
52900073	4	1	2	2	Abaqulusi	Nqutu NU	Zululand
53000004	3	1	1	1	Mathezi	KwaNkulu	Zululand
53200251	3	1	3	1	Tembe	KwaMazambane	Umkhanyakude
53400003	1	1	2	4	Hluhluwe Township	Bartown	Umkhanyakude
53500135	3	1	2	1	Mdletshe	Mansiya	Umkhanyakude
53800278	1	4	3	4	Empangeni	Panorama	Uthungulu
53800390	3	1	1	1	Khoza	Ezikheleni	Uthungulu
54000187	3	1	2	1	Mzimela	Nozandla	Uthungulu
54200039	3	1	2	1	Nkandla	Spinnes	Uthungulu
54300056	4	1	2	2	eNdoni/akusuka	Lower Tugela NU	iLembe
54500093	3	1	2	1	Qwabe N	Ngedleni	iLembe
54800038	3	1	2	1	Isiminja	The Ridge	Sisonke
55000048	2	1	2	5	Bhongweni	Horseshoe	Sisonke
55000058	4	1	2	2	Greater Kokstad	Mount Currie NU	Sisonke

## 2.2.6. North West

EA number	Geotype	Race	LSM	EAtype	Main place name	Sub place name	DM name
60100321	2	1	3	5	Temba	Carousel View	Bojanala
60100021	3	1	3	1	Kopanong	Mmakaunyana	Bojanala
60100151	3	1	2	1	Bakgatla Ba Ga Mosetha	Makapanstad	Bojanala
60200446	2	1	2	5	Oukasië	Rufus	Bojanala
60200349	3	1	2	1	Bapo Ba Ga Mogale	Segwaelane	Bojanala
60200169	3	1	2	1	Bakwena Ba Magopa	Hebron	Bojanala
60200066	3	1	3	1	Bafokeng	Maboloka	Bojanala
60200412	4	1	2	2	Madibeng	Brits NU	Bojanala
60300120	1	1	3	4	Rustenburg	Rustenburg North	Bojanala
60300316	1	1	2	4	Meriting	NONE	Bojanala
60300326	1	1	2	4	Boitekong	NONE	Bojanala
60300139	1	3	2	4	Rustenburg	Zinniaville	Bojanala
60300149	1	4	3	4	Rustenburg	Rustenburg East	Bojanala
60300289	3	1	2	1	Bafokeng	Photshaneng	Bojanala
60300176	3	1	2	1	Bafokeng	Lefaragatla	Bojanala
60300183	3	1	2	1	Bafokeng	Dithabane	Bojanala
60300004	4	1	2	2	Rustenburg	Rustenburg NU	Bojanala
60500502	1	1	2	4	Mogwase	Mogwase Unit 5	Bojanala
60500246	3	1	2	1	Baphalane	Witrاندjie	Bojanala
60500579	3	1	2	1	Bakgatla Ba Ga Kgafela	Sefkile	Bojanala
60500395	3	1	2	1	Bakgatla Ba Ga Kgafela	Magong	Bojanala
60600047	3	1	2	1	Barolong Boo Ratlou Ba Ga Phoi	Setlagole	Central
60600089	3	1	2	1	Barolong Ba Ga Makgobi	Makgori	Central
60700097	4	1	2	2	Tswaing	Delareyville NU	Central
60800002	3	1	2	1	Kopano	Siberia	Central
60800130	3	1	2	1	Barolong Boo Ratshidi	Motsoseng	Central
60800096	3	1	2	1	Barolong Boo Ratshidi	Koikoi	Central
60900135	1	1	2	4	Boikhutso	NONE	Central
60900214	4	1	3	2	Ditsobotla	Madikwe NU	Central
61000084	3	1	2	1	Bahurutse Ba Ga Moilwa	Ntsweletsoku	Central
61100132	3	1	2	1	Morokweng	Morokweng	Bophirima
61400291	1	1	2	4	Pudmoë	NONE	Bophirima
61400336	3	1	2	0	Bathlaping Ba Ga Phuduhutswana	NONE	Bophirima
61400179	3	1	2	1	Bathlaping Ba Ga Phuduhutswana	Magogong	Bophirima
61600002	4	1	2	2	Lekwa-Teemane	Christiana NU	Bophirima
78800130	1	1	2	4	Khutsong	NONE	Southern
68800104	1	2	3	4	Fochville	Green Park	Southern
78800187	2	1	3	5	Khutsong	Mandela	Southern
61800074	1	2	2	4	Promosa	NONE	Southern
61800145	1	4	3	4	Potchefstroom	Grimbeek Park	Southern
61800093	2	1	2	5	Promosa	Promosa	Southern
61800175	4	1	2	3	Potchefstroom	Vryhoek SH	Southern
61800168	4	4	2	3	Potchefstroom	Moolvallei SH	Southern
61900469	1	1	2	4	Khuma	NONE	Southern
61900217	1	1	2	4	Jouberton	NONE	Southern
61900106	1	1	2	4	Jouberton	NONE	Southern
61900340	1	4	3	4	Klerksdorp	Wilkoppies	Southern
61900316	4	1	2	2	City Council of Klerksdorp	Klerksdorp NU	Southern
62000089	1	1	2	4	Kgakala	NONE	Southern
62000055	1	4	3	4	Wolmaransstad	NONE	Southern

## 2.2.7. Gauteng

EA number	GeoType	Race	LSM	EA type	Main place name	Sub place name	City name
77300009	1	1	2	4	Katlehong	Greenfield	Ekurhuleni Metro
77300659	1	1	3	4	Katlehong	Tsongweni	Ekurhuleni Metro
77303473	1	1	3	4	Tembisa	Phomolong	Ekurhuleni Metro
77300473	1	1	3	4	Thokoza	Phenduka	Ekurhuleni Metro
77301181	1	2	2	4	Reiger Park	Reigerpark	Ekurhuleni Metro
77303978	2	1	3	5	Tembisa	Winnie Mandela Ext 5	Ekurhuleni Metro
77303855	2	1	3	5	Tembisa	Winnie Mandela	Ekurhuleni Metro
77300073	2	1	2	5	Katlehong	Tsietzi Phase 5	Ekurhuleni Metro
77302054	2	1	3	5	Germiston	Marathon	Ekurhuleni Metro
77301109	2	1	3	5	Boksburg	Windmill Park Ext 8	Ekurhuleni Metro
70100052	1	3	3	4	Krugersdorp	Azaadville	West Rand
70300141	2	1	3	5	Bekkersdal	Tambo Section	West Rand
70300109	4	1	2	3	Westonaria	Dennydale SH	West Rand
70400007	4	1	3	2	Emfuleni	Vanderbijlpark NU	Sedibeng
70500039	1	1	2	4	Meyerton	Randvaal	Sedibeng
77404157	1	1	3	3	Midrand	Blue Hills AH	City of Johannesburg Metro
77403766	1	1	3	4	Alexandra	NONE	City of Johannesburg Metro
77404121	1	1	3	4	Diepsloot	NONE	City of Johannesburg Metro
77404143	1	1	2	4	Ivory Park	NONE	City of Johannesburg Metro
77403101	1	1	2	4	Johannesburg	Denver	City of Johannesburg Metro
77402751	1	1	2	4	Johannesburg	Joubert Park	City of Johannesburg Metro
77401618	1	1	3	4	Meadowlands	Meadowlands Zone 10	City of Johannesburg Metro
77404208	1	1	3	4	Midrand	NONE	City of Johannesburg Metro
77401339	1	1	3	4	Soweto	Jabavu	City of Johannesburg Metro
77401678	1	1	2	4	Soweto	Orlando East	City of Johannesburg Metro
77401320	1	1	3	4	Soweto	Pimville Zone 6	City of Johannesburg Metro
77400355	1	2	3	4	Johannesburg	Ennerdale Ext 1	City of Johannesburg Metro
77400593	1	3	3	4	Johannesburg	Lenasia Ext 13	City of Johannesburg Metro
77402670	1	4	3	4	Johannesburg	Fairland	City of Johannesburg Metro
77403158	1	4	3	4	Randburg	Boskruin Ext	City of Johannesburg Metro
77403421	1	4	2	4	Sandton	Parkmore	City of Johannesburg Metro
77400479	2	1	3	5	Wheeler's Farm	Wheeler's Farm	City of Johannesburg Metro
77403860	2	1	3	5	Alexandra	Alexandra	City of Johannesburg Metro
77400405	4	1	3	2	Johannesburg Metro	Vereeniging NU	City of Johannesburg Metro
67600171	1	1	2	4	Mabopane	Belrut	City of Tshwane Metro
67600410	1	1	3	4	Temba	NONE	City of Tshwane Metro
77601024	1	1	3	4	Mamelodi	Mamelodi West	City of Tshwane Metro
77601793	1	1	3	4	Soshanguve	Soshanguve L	City of Tshwane Metro
77600378	1	4	3	4	Pretoria	Waterkloof Ridge	City of Tshwane Metro
77601999	2	1	3	5	Soshanguve	Soshanguve RR	City of Tshwane Metro
67600413	2	1	3	5	Temba	Temba	City of Tshwane Metro
67600268	2	1	3	5	Mabopane	Winterveldt Ward 7	City of Tshwane Metro
67600201	2	1	3	5	Mabopane	Winterveldt Ward 2	City of Tshwane Metro
67600453	3	1	3	1	Amandebele Lebelo A	Majaneng	City of Tshwane Metro
67600493	3	1	2	1	Amandebele Lebelo	Ramotse	City of Tshwane Metro
67600089	3	1	3	1	Ga-Rankuwa	Tsebe	City of Tshwane Metro
67600317	3	1	3	1	Tirisano	Eersterus	City of Tshwane Metro
67600353	3	1	3	1	Tirisano	Stinkwater	City of Tshwane Metro



77602093	4	1	3	2	City of Tshwane Metro	Wonderboom NU	City of Tshwane Metro
77602097	4	4	2	3	City of Tshwane Metro	Grootvlei AH	City of Tshwane Metro

## 2.2.8. Mpumlanga

EA number	Geotype	Race	LSM	EAType	Main place name	Subplace	DM name
80100027	1	3	1	4	Carolina	Caropark	Gert Sibande
80100135	2	1	3	5	Mpuluzi	Goba Unit E	Gert Sibande
80100136	3	1	3	1	Eerstehoek	Fernie 1	Gert Sibande
80200064	1	1	3	4	Phumula	NONE	Gert Sibande
80200016	4	1	2	2	Msukaligwa	Ermelo NU	Gert Sibande
80300123	4	1	3	2	Mkhondo	Piet Retief NU	Gert Sibande
80400017	1	1	3	4	Siyazenzela	NONE	Gert Sibande
80400096	2	1	3	5	Daggakraal	Daggakraal	Gert Sibande
80500035	4	1	2	2	Lekwa	Standerton NU	Gert Sibande
80700036	1	1	3	4	Embalenhle	Embalenhle Ext 13	Gert Sibande
80700206	1	1	3	4	Evander	NONE	Gert Sibande
80700255	1	4	2	4	Secunda	NONE	Gert Sibande
80800004	4	1	2	2	Delmas	Delmas NU	Nkangala
80900142	1	1	1	4	Clawer	NONE	Nkangala
80900162	1	1	3	4	KwaGuga	KwaGuga Ext 7	Nkangala
80900398	1	4	1	4	Witbank	Reyno Ridge	Nkangala
80900217	2	1	3	5	Vosman	Vosman Ext 17	Nkangala
81000031	1	1	1	4	Mhluzi	Thembisa	Nkangala
81000160	1	4	2	4	Middelburg	Kanonkop	Nkangala
81100025	4	1	3	2	Highlands	Belfast NU	Nkangala
81200526	1	1	3	4	Tweefontein North	Phumula	Nkangala
81200473	1	1	2	4	Vezubuhle	NONE	Nkangala
81200199	3	1	2	1	Moutse 3	Goederede N	Nkangala
81200091	3	1	3	1	Mkobola	Kwaggafontein	Nkangala
81200240	3	1	2	1	KwaMhlanga	Moloto 1	Nkangala
81200384	3	1	2	1	KwaMhlanga	Enkeldoormoog B	Nkangala
81300144	1	1	3	4	Vaalbank	NONE	Nkangala
81300101	3	1	3	1	Moretele	Loding	Nkangala
81300505	3	1	3	1	Mdutjana	Valsfontein	Nkangala
98600102	3	1	2	1	Thabakgolo	Marijane A	Ehlanzeni
98600533	3	1	3	1	Setlhare	Arthur's Seat	Ehlanzeni
98600670	3	1	2	1	Moletele	Arconhoek	Ehlanzeni
98600924	3	1	2	1	Mnisi	Burlington	Ehlanzeni
98600445	3	1	2	1	Mathibela	Oakley A	Ehlanzeni
98600246	3	1	2	1	Malele	Dwarsloop C	Ehlanzeni
98600874	3	1	2	1	Jongilanga	Ireagh	Ehlanzeni
98600589	3	1	2	1	Hoxane	Calcutta C	Ehlanzeni
98600650	3	1	1	1	Amashangana	Thulamahaxi	Ehlanzeni
98600694	3	1	2	1	Amashangana	Merry Pebble Stream	Ehlanzeni
98600978	3	1	2	1	Amashangana	Allandale	Ehlanzeni
81400150	3	1	3	1	Pilgrim's Rest	Matibidi	Ehlanzeni
81400061	4	1	2	2	Thaba Chweu	Pilgrims Rest NU	Ehlanzeni
81500214	1	1	3	4	Kenyamazane	NONE	Ehlanzeni
81500120	1	2	2	4	Witrivier	Waterval	Ehlanzeni
81500032	1	4	2	4	Nelspruit	West Acres	Ehlanzeni
81500469	3	1	2	1	Mpakeni	Zwelisha	Ehlanzeni
81700519	1	1	1	4	Kamhushwa	NONE	Ehlanzeni
81700018	3	1	1	1	Mlambo	Mananga	Ehlanzeni
81700074	3	1	3	1	Lugedlane	eMangweni	Ehlanzeni
81700589	4	1	2	2	Nkomazi	Barberton NU	Ehlanzeni

## 2.2.9. Limpopo

EA number	Geotype	Race	SM	EA type	Main place name	Sub place name	M/nama
92200127	3	1	2	1	Letaba	Calais	Mopani
90100266	1	1	1	4	Giyani	Giyani E	Mopani
90100304	3	1	3	1	Nxomo	Xawela	Mopani
90100162	3	1	2	1	Giyani	Ka-Mapuva	Mopani
90200411	3	1	3	1	Modjadji	Ga-Ramodumo	Mopani
90300656	3	1	2	1	Nwa' Mitwa	Nkambako	Mopani
90300520	3	1	2	1	Bankuna	Ramotshidi	Mopani
90300062	3	1	2	1	Bakgaga	Serare	Mopani
90300515	4	1	3	2	Greater Tzaneen	Letaba NU	Mopani
90300638	4	1	2	3	Greater Tzaneen	Letaba AH	Mopani
90500007	4	1	2	2	Musina	Messina NU	Vhembe
90600056	3	1	2	1	Thengwe	Thengwe	Vhembe
90700300	1	1	2	4	Thohoyandou	NONE	Vhembe
90700133	3	1	2	1	Tshivhase	Shayandima	Vhembe
90700286	3	1	2	1	Tshivhase	Gondeni	Vhembe
90700287	3	1	2	1	Mudabula	Machele	Vhembe
90700572	3	1	2	1	Mphambo	Ka-Mphambo	Vhembe
90800448	3	1	2	1	Soutpansberg	Valdezia	Vhembe
90800167	3	1	2	1	Mulima	Mamphagi	Vhembe
90800018	3	1	2	1	Kutama	Tshikwarani B	Vhembe
90800571	3	1	2	1	Dzanani	Ha-Mamuhoyi	Vhembe
90900195	2	1	3	5	Bochum	Shushumela	Capricorn
90900064	3	1	2	1	Manthata	Bodi	Capricorn
91000304	3	1	1	1	Moletji	Kanana	Capricorn
91100150	3	1	2	1	Sekgosese	Mmatseke	Capricorn
91100094	4	1	2	2	Molemole	Pietersburg NU	Capricorn
91200188	1	1	2	4	Seshego	Seshego C	Capricorn
91200086	1	1	2	4	Pietersburg	Superbia	Capricorn
91200232	1	4	3	4	Pietersburg	Annadale	Capricorn
91200664	3	1	2	0	Bjatladibja Dikolobe	NONE	Capricorn
91200377	3	1	2	1	Moletji	Mabokelele	Capricorn
91200050	3	1	1	1	Maja	Ga-Maja	Capricorn
91300294	1	1	2	4	Lebowakgomo	Lebowakgomo Unit A	Capricorn
91300098	3	1	2	1	Zebediela	Molapo	Capricorn
91300381	3	1	1	1	Bakgaga Ba Mphahlele	Mphahlele 3	Capricorn
91400085	1	4	1	4	Thabazimbi	NONE	Waterberg
91400041	2	1	2	5	Smersha Block	Smersha Block	Waterberg
91500058	4	1	1	2	Lephalale	Ellisras NU	Waterberg
91600036	4	1	2	2	Mookgopong	Potgietersrus NU	Waterberg
91700048	2	1	2	5	Phagameng	Phomolong	Waterberg
91700012	2	1	2	5	Vaalwater	Vaalwater	Waterberg
91900511	1	1	3	4	Mahwelereng	Mahwelereng C	Waterberg
91900380	1	1	2	4	Lekalakala	NONE	Waterberg
91900431	1	4	2	4	Potgietersrus	Impala Park	Waterberg
91900089	3	1	2	1	Bakenberg	Mokerong	Waterberg
91900600	4	1	2	2	Mogalakwena	Potgietersrus NU	Waterberg
98300043	1	1	3	4	Elandskraal	NONE	Greater Sekhukhune
98500181	3	1	1	1	SD	Djale	Greater Sekhukhune
92000377	3	1	3	1	SMN	Ga-Mogashoa	Greater Sekhukhune
92000247	3	1	3	1	Masemola	Ga-Masemola	Greater Sekhukhune

## 2.3. HOUSEHOLD SELECTION PROCEDURE

Fieldworkers will be issued with maps of areas they will be visiting. Once they enter an EA, supervisors will have to drive around the EA in order to count the houses and then do a random selection of 25 houses using the serpentine route. The following questionnaire will then be completed with the selected 25 households to determine whether they are legible for selection. The screening questionnaire will determine if

- a total household income is below R16 000 per month and
- if the household has electricity or not.

### Screening questionnaire

#### 2.3.1. Screening questionnaire

EA number \_\_\_\_\_

Total number of households (structures, stands, homesteads) in the EA \_\_\_\_\_

From the selected 25 households

Household number	Electricity (Yes/No)	Household income below R1200 (Yes/ no)	Household drawn (Yes/no)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

## 2. 4. FIELDWORKER DISTRIBUTION

The terms of reference of the project states that the execution of work will include engaging local fieldworkers in order to provide job opportunities to the local unemployed and also to provide training opportunities to improve their chances of employability in the future. Since only eight fieldworkers were selected per province, it was impractical to include people from all selected areas. Therefore, in order to get a representative group of fieldworkers, provinces were demarcated into the various district municipalities. The number of enumerator areas selected per district municipality was counted in order to get proportional representation. The total number of fieldworkers needed (proportionally) per district municipality was then calculated. Provincial supervisors were then requested to use these totals per district municipalities as a guide when recruiting fieldworkers. Next are the graphic presentations and fieldworker distribution tables of all nine provinces.

### 2.4.1. WESTERN CAPE DISTRICTS



CPT locator.svg



DC1 locator.svg



DC2 locator.svg



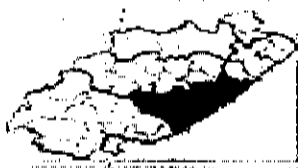
DC4 locator.svg

CPT	City of Cape Town	34	5	5
DC1	West Coast	5	1	1
DC2	Cape Winelands	4	1	1
DC4	Eden	7	1	1

## 2.4.2. EASTERN CAPE DISTRICTS



DC10 locator.svg



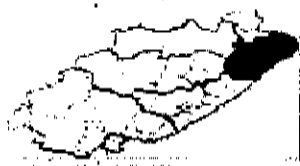
DC12 locator.svg



DC13 locator.svg



DC14 locator.svg



DC15 locator.svg



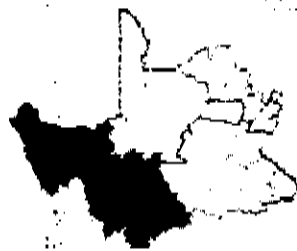
DC44 locator.svg

DC44	Alfred Nzo	3	0	0
DC10	Cacadu	4	1	1
DC12	Amatole	12	2	2
DC13	Chris Hani	6	1	1
DC14	Ukhahlamba	5	1	1
DC15	O.R. Tambo	11	2	2
NMA	Nelson Mandela Bay	9	1	1

### 2.4.3. NORTHERN CAPE DISTRICTS



DC45 locator.svg



DC6 locator.svg



DC7 locator.svg



DC8 locator.svg



DC9 locator.svg

DC45	Kgalagadi	14	2	1
DC6	Namakwa	3	0	1
DC7	Pixley ka Seme	10	2	1
DC8	Siyanda	10	2	1
DC9	Frances Baard	12	2	5

## 2.4.4. FREE STATE DISTRICTS



DC16 locator.svg



DC17 locator.svg



DC18 locator.svg



DC19 locator.svg



DC20 locator.svg

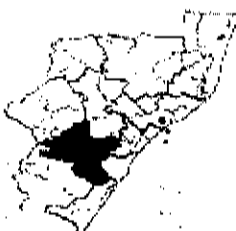
DC16	Xhariep	6	1	0
DC17	Motheo	8	1	4
DC18	Lejweleputswa	14	2	2
DC19	Thabo Mofutsanyane	14	2	0
DC20	Fezile Dabi	8	1	2



## 2.4.5. KWAZULU- NATAL DISTRICTS



DC21 locator.svg  
524,298 bytes



DC22 locator.svg  
524,298 bytes



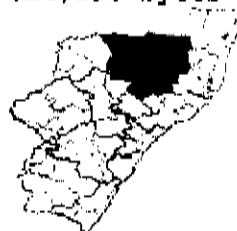
DC23 locator.svg  
524,298 bytes



DC24 locator.svg  
524,298 bytes



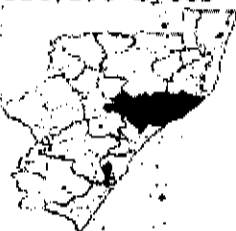
DC25 locator.svg  
524,298 bytes



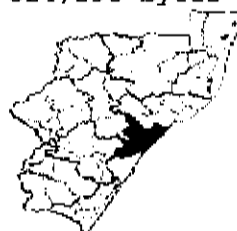
DC26 locator.svg  
524,298 bytes



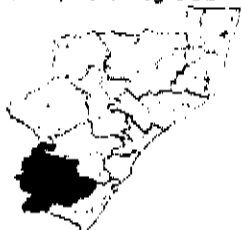
DC27 locator.svg  
524,298 bytes



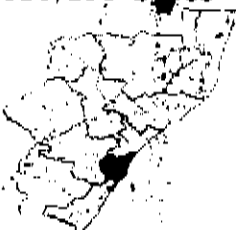
DC28 locator.svg  
524,298 bytes



DC29 locator.svg  
524,298 bytes



DC43 locator.svg  
524,298 bytes



ETH locator.svg  
524,298 bytes

ETH	Ethekwini	18	3	6
DC21	Ugu	3	0	1
DC22	Umgungundlovu	6	1	2
DC23	Uthukela	4	1	1
DC24	Umzimyathi	2	0	1
DC25	Amajuba	2	0	0
DC26	Zululand	3	0	1
DC27	Umkhanyakude	3	0	1
DC28	Uthungulu	4	1	1
DC29	iLembe	2	0	1
DC43	Sisonke	3	0	1

## 2.4.6. NORTH WEST DISTRICTS



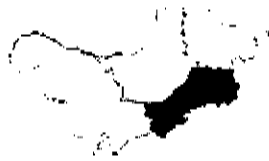
DC37 locator.svg



DC38 locator.svg



DC39 locator.svg



DC40 locator.svg

DC37	Bojanala	31	3	4
DC38	Central	9	1	1
DC39	Bophirima	5	1	1
DC40	Southern	15	2	1

## 2.4.7. GAUTENG DISTRICTS



DC42 locator.svg



DC48 locator.svg



EKU locator.svg



JHB locator.svg



TSH locator.svg

EKU	Ekurhuleni Metro	10	2	1
DC48	West Rand	3	0	0
DC42	Sedibeng	2	0	0
JHB	City of Johannesburg Metro	19	3	3
TSH	City of Tshwane Metro	16	3	4

## 2.4.8. MPUMALANGA DISTRICTS



DC30 locator.svg



DC31 locator.svg



DC32 locator.svg

DC30	Gert Sibande	12	2	2
DC31	Nkangala	17	3	4
DC32	Ehlanzeni	21	3	2

## 2.4.9. LIMPOPO DISTRICTS



DC33 locator.svg



DC34 locator.svg



DC35 locator.svg



DC36 locator.svg



DC47 locator.svg

DC33	Mopani	10	2	1
DC34	Vhembe	11	2	1
DC35	Capricorn	14	2	3
DC36	Waterberg	11	2	1
DC47	Greater Sekhukhune	4	1	2

## 2.5. LIST OF FIELDWORKERS

As part of the deliverables, the HSRC had to compile a list of fieldworkers that will participate in the study. The list of fieldworkers is divided according to different provinces in the following table.

Name	Gender	Contact nos	Qualification	Level	Municipality
<b>Western Cape</b>					
Desmond Brain Oliver	Male	0782592728	Grade 12	Sub-supervisor	Kuilsrivier
Juliet Gobeni	Female	0843128523	Comp. diploma & bible diploma & fashion design	Subsupervisor	Mitchells Plain
Malibongwe Gibisela	Male	0715971165	Dipl in theology, dip in HIV/Aids	Fieldworker	Paarl
Lumka Qunta	Female	0737087798	Grade 12	Fieldworker	Khayelitsha
Pamela Doreen Olivier	Female	0731694330	Grade 12	Fieldworker	Kuilsrivier
Sisanda Ndonga	Female	0791327077	Teachers degree	Fieldworker	Velddrif
Lundi Nkukwana	Male	0849391732	Grade 12	Fieldworker	Mitchells Plain
Phumza Ncumisa Mbaleni	Female	0730768578	Matric Fashion Diploma	Fieldworker	George
Babalwa Nonti	Female	0842685011	Grade 12 & hairdressing Dipl.	Fieldworker	Eerste Rivier
Luleka Mnqangeni	Female	0822970307	Grade Teachers' Dipl. & Dipl. In Public Admin	Fieldworker	Mitchells Plain

Eastern Cape					
Valindawo Ngudle	Male	0797432253	Grade 12	Subsupervisor	Mhlonlto
Atalanta Tiba	Female	0789586898	Commercial admin computer	Subsupervisor	Mhlonlto
Sibongile Rataza	Female	0724068151	Grade 12	Fieldworker	Ntabankulu
Nombali Mabaso	Female	0730561790	Law + computer	Fieldworker	OR Tambo
Nomaindia Mpani	Female	0736662069	Dress making	Fieldworker	Nyandeni
Pateka Nkebe	Female	0733876048	Public relations management	Fieldworker	Nelson Mandela Bay
Vuyani Manentsa	Male	0834990120	Law	Fieldworker	OR Tambo
Busisiwe Gwaza	Female	0714771760	Electrical engineering	Fieldworker	Mhlonlto
Batandwa Ncukana	Female	0827402494	Grade 12 and fashion design	Fieldworker	Mbizana
Zolile Maghina	Male	0761573568	Grade 12	Fieldworker	Port St. Johns
Northern Cape					
Sydney Fryer	Male	0833079676	Honours	Subsupervisor	Pretoria
Ezekiel Mkondwane	Male	0734920134	Grade 12	Subsupervisor	Johannesburg
Thembisa Mooi	Female	0761561051	Grade 12	Fieldworker	Upington
Hildegard Basson	Female	0784613401	Grade 12 – diploma in computer sciences	Fieldworker	Riemvasmaak (Kakamas)
Natasha Oranje	Female	0734138274	Diplom in marketing	Fieldworker	Calvinia
Vanessa Mogamisi	Female	0843401960	Grade 12	Fieldworker	Kimberley
Grace Magopa	Female	0783227762	Grade 12	Fieldworker	Kimberley
Dike Nocawe	Female		Marketing Diploma	Fieldworker	Kimberly
Rachel Bosch	Female	0769029714	Grade 12	Fieldworker	Kimberley
Joyce Williams	Female	0538713402	Grade 12	Fieldworker	Kimberley

Free State					
Tsoeu Nkhetse	Male	0715446116	Diploma Marketing	Subsupervisor	Bloemfontein
Eddie Ranko	Male	0726804443	Marketing Research	Subsupervisor	Bloemfontein
Maletsastsi Portia Litabe	Female	0737460182	Grade 12	Fieldworker	Virginia
Mmaleubane Agnes Mmutsi	Female	0731317074	Grade 12	Fieldworker	Virginia
Phouwogae Hevin Diokiane	Male	0794120653	Grade 12	Fieldworker	Motse-Thabong
Moeti Jappie Matatiele	Male	0833521015	Grade 12	Fieldworker	Motse-Thabong
Anna Keleabetswe Machogo	Female	0762805030	Grade 12	Fieldworker	Phase 4 Bloemside
Ruth Mmamaphutseng Machogo	Female	0762805030	Grade 12	Fieldworker	Phase 4 Bloemside
Mpho Letele	Female	0782207444	Grade 12	Fieldworker	Phase 4 Bloemside
Thabang Daniel	Male	0722751896	Grade 12	Fieldworker	Phase 4 Bloemside
Kwa-Zulu Natal					
Sandile Shibe	Male	0839869182	Teaching Diploma	Sub-Supervisor	Ethekwini
Sandile Pepu	Male	0839417304	Electrical Engineering	Sub-Supervisor	Ugu
Thabiso Mbele	Male	0739065318	Grade 12 – Computer training	Fieldworker	Ethekwini
Nkanyezi Mkhize	Male	0721794114	Electrical Engineering	Fieldworker	Ethekwini
Siyanda Mdluli	Male	0739872045	Electrical Engineering	Fieldworker	Ugu
Mthokozisi Cele	Male	0785785752	Matric – First Aid	Fieldworker	Uthungulu
Thabile Mthembu	Female	0733251356	Matric	Fieldworker	Ethekwini
Silindile Mhlalose	Female	0783598273	Grade 12 – Computer training	Fieldworker	Ilembe
Pretty Ntshangase	Female	0799766602	Matric	Fieldworker	Uthungulu
Cebisile Buthelezi	Female	0735029636	Matric	Fieldworker	Zululand
M. R. Singh	Male	0824178115	Grade 12 (ex educator)	Sub Supervisor	
Nomthandaz	Female	0833793385	Grade 12	Sub-Supervisor	



<b>o Mbatha</b>					
Sphelele Cele	Female	0720221455	Grade 12	Fieldworker	
Thembelihle Mnyandu	Female	0715620108	Grade 12	Fieldworker	
Sandi Hlongwa	Female	0734117466	Grade 12	Fieldworker	
Stabile Mzobe	Female	0735842803	Grade 12	Fieldworker	
Nompilo Luhlongwa	Female	0794585991	Grade 12	Fieldworker	
Thembeke Gama	Female	0738088157	Grade 12	Fieldworker	
Nalithadevi Harridave	Female	0837871602	Grade 12	Fieldworker	
Zanela Msomi	Female	0729888301	Grade 12	Fieldworker	
<b>North West</b>					
Hellon Matemane	Female	0845009687	Grade 12	Supervisor	
Yvonne Tlhowe	Female	0720705954	Grade 12	Supervisor	
Sheila Boikanyo	Female	0722179207	Grade 12	Fieldworker	Klerksdorp
Lorraine Nkgwe	Female	0741031307	Dipl. in Travel & Tourism	Fieldworker	Klerksdorp
Kelebogile Masonga	Female	0823928498	Grade 12 & comp. literate certificate	Fieldworker	Mafikeng
Goitsewang Maseng	Female	0731993628	BSc	Fieldworker	Taung
Welheminah Buthelezi	Female	0723948438	Grade 12	Fieldworker	Winterveldt
Lebohang Bohlole	Male	0746977673	Grade 12	Fieldworker	Rustenburg
Sewela Emmah Bohlole	Female	0767480914	Secretarial Dipl	Fieldworker	Rustenburg
Johanna Raphoto	Female	0760764825	Management Assist. certificate	Fieldworker	Rustenburg
<b>Gauteng</b>					
Dan Ramasobana	Male	0834281585		Sub supervisor	
Mlungisi Jale	Male	0738418711		Subsupervisor	Ekhurhuleni
Thapelo Manala	Male			Fieldworker	Tshwane
Tshepo Goba	Male			Fieldworker	
Lerato Molefe	Male	0716349333		Fieldworker	Tshwane
Mlindelwa Mahlangu	Male	0730381273		Fieldworker	City of Johannesburg
Brenda Mawila	Female				
Nkamoheng Phadu	Female	0798797707		Fieldworker	Tshwane
Wendy Mnisi	Female	0826225057		Fieldworker	City of Johannesburg
Bridgette Fetsha	Female			Fieldworker	

Mpumafanga					
Sbusiso Gunene	Male	0827543246	Dipl. Journalism	Supervisor	
Joel Mashala	Male	0767683315	Grade 12 & national cert.	Supervisor	
Abel Marivate	Male		Grade 12	Fieldworker	Ehlanzeni
Selby Nkambule	Male		Grade 12	Fieldworker	Gert Sibanda
Phindile Sithole	Female	0828033349	Grade 12	Fieldworker	Gert Sibanda
Prudence Ndobe	Female		Grade 12	Fieldworker	Ehlanzeni
Bongani Simelane	Male		Grade 12	Fieldworker	Nkangala
Richard Matjeni	Male		Grade 12 and one year doing Human Resources	Fieldworker	Nkangala
Buhle Simelane	Female		Grade 12	Fieldworker	Nkangala
Rebecca Maphanga	Female		Grade 12 and a certificate for Advance in Computer Literacy	Fieldworker	Nkangala
Limpopo					
Vusi Nkosi	Male	0833353675		Subsupervisor	Pretoria
Michael Lekgoathi	Male	0734389358	Matric	Subsupervisor	Polokwane
Thomas Mabunda	Male	0785612806	Hon Dev Studiesa	Fieldworker	Rebone
Mangwakwane Kgatuke	Female	0793549666	BSc Water & Sanitation	Fieldworker	Masemola
Olga Nepshiluvhi	Female	0824846753	BA Admin	Fieldworker	Thoyando
Mbhoni Godfrey Zitha	Male	0739761758	N5 Certificate	Fieldworker	Giyani
Brenda Selala	Female	0835221504	BSc Sanitation	Fieldworker	GaMalla
Maoto Mokibelo	Female	0767816950	BSc Stats & Maths	Fieldworker	Bochum
Lucky Phaladi	Male				
Silas Malakalaka	Male	0761649837	Agriculture & INfo	Fieldworker	Carlsruhe

## 2.6. Provincial supervisors' contact details

Company	Director	Contact details	E-mail	Province
Move-on-up 1175 T/A ACCUDATA	Solly Siema	083 483 5115	<a href="mailto:serumula@tiscali.co.za">serumula@tiscali.co.za</a>	North West
Field Focus Research Company	Enency Mbatha	082 638 5480	<a href="mailto:enencyff@mweb.co.za">enencyff@mweb.co.za</a>	Mpumalanga
Sydney Fryer & Ass.	Sydney Fryer	083 307 9676	<a href="mailto:iohann.fryer@momentum.co.za">iohann.fryer@momentum.co.za</a>	Northern Cape
Barbara Moahloli	Barbara Moahloli	072 458 0258	<a href="mailto:moahloli@webmail.co.za">moahloli@webmail.co.za</a>	Kwa-Zulu Natal
Into Research cc	Joy Conradie	082 921 2391	<a href="mailto:joy@intoresearch.co.za">joy@intoresearch.co.za</a>	Western Cape
MLI T/A Dynamic Research	Peter Jacobusen	083 309 1841	<a href="mailto:peterresight@telkomsa.net">peterresight@telkomsa.net</a>	Free State
Social Data Collectors	Rosina Langa	084 745 5928	<a href="mailto:rosina-langa@ananzi.co.za">rosina-langa@ananzi.co.za</a>	Limpopo
Sarah Singh	Sarah Singh	082 417 8115	<a href="mailto:ssingh@astromail.co.za">ssingh@astromail.co.za</a>	Kwa-Zulu Natal
Linditha ResearchCC	Tenjiwe Ngudle	082 703 3385	<a href="mailto:ngudlet@yahoo.com">ngudlet@yahoo.com</a>	Eastern Cape
B Nakedi Consulting	Badiri Moila	082 257 7494	<a href="mailto:bnakedi@telkomsa.net">bnakedi@telkomsa.net</a>	Gauteng

## 2.7. FIELDWORKER TRAINING

Next is the final agenda for the training to take place on 1-5 September 2008.

### SOCIO-ECONOMIC IMPACT STUDY OF ELECTRIFICATION PROGRAMME ON HOUSEHOLDS- AGENDA FOR TRAINING ON 1 SEPTEMBER- 5 SEPTEMBER 2008

#### Monday: Questionnaire content

08:30-9:30: Welcome and introduction (HSRC)

- General introduction to the study
- Payment structures (HSRC) Contractual Issues (HSRC)

09:30-10:00: Introduction to the questionnaire

10:00-10:20: Tea

10:20-11:30: Questionnaire discussion

11:30-12:30: Lunch

12:30-14:30: Questionnaire discussion

14:30-14:45: Tea

14:45-16:00: Questionnaire discussion

16:00-17:00: Introduction to PDA and hand outs

17:10-18:00: Sub & Supervisors briefing

#### Tuesday: PDA training

08:30-10:00: [Redacted]

10:00-10:20: Tea

10:20-11:30: PDA training

11:30-12:30: Lunch

12:30-14:30: PDA training

14:30-14:45: Tea

14:45-17:00: PDA training

17:10-18:00: Sub & Supervisors briefing

#### Wednesday: Pilot Study

08:30-10:00: Sampling training and logistics

• [Redacted]

10:00-16:30: Practical training session

16:30: Return to HSRC

#### Thursday: Feedback from the pilot

08:30-10:00: Discussing experiences during the pilot

10:00-10:20: Tea

10:20-11:30: Further discussion of problems during the pilot

11:30-12:30: Lunch

12:30-14:30: Further discussion of problems during the pilot

14:30-14:45: Tea

14:45-17:00: Role play-discussing translations

#### Friday: Closing

08:30-10:00: [Redacted]

11:30-12:30: Sampling

12:30: Certificates and all outstanding issues

## 2.8. Critical success factors for the project

Anticipated challenge	Proposed solution
1. Extensive training of fieldworkers on the use of PDAs even though it is noted that they are user-friendly- can be more time consuming if not well trained (technologically inclined)	Training should be very practical and one day of the training should be used to do actual data collection. Feedback the next day will alert to potential problems collectively and can be ironed out prior to field visits.
2. Problems such as corrupt databases, software or hardware problems might be a challenge	Contingency plans should be in place should something like this occur, i.e. backup systems or a technical person to be on standby in case of repairs or replacements.
3. The breakdown of PDAs in the field requiring the device to be returned for fixing (delay fieldwork). Once piloted a suggested way of countering this problem might be to download data on backup PDAs	Field-supervisors will be issued with extra PDAs for emergencies and spare batteries to be issued to all supervisors.
4. Standby time of batteries (whilst busy with interview)	Need to plan for short battery life and need to incorporate this in field planning
5. PDAs might pose a security risk (even though its quite small)	These devices might be interpreted as valuable and might pose a risk to the fieldworkers. Strategies need to be worked out around the security issues. Each supervisor and fieldworker will be provided with the contact numbers of the area managers and of the local police services.
6. It can be a distraction to the interviewees thus interviewing with interview process:	The function of the devices needs to be explained to the respondents
7. Difficult to double check- once off, difficult to verify	Thorough check-backs need to be undertaken as well as team supervision from the onset.
8. Need local people's buy in	Advised field supervisors to consult municipal officials and other local authorities
9. Insurance of PDAs	HSRC will make sure the PDAs are insured

## **2.9. TRANSLATIONS**

Translations of the main questions (except for the response options) are currently in progress. The questionnaire will be translated into six languages: IsiZulu, IsiXhosa, Venda, Tsonga, SeTswana, and Afrikaans. This will be on hard copies and not on PDAs to ensure consistency in interpreting the questions.

## **2.10. CRITICAL TASKS FOR NEXT PERIOD (11-25/8)**

### **1. Field Implementation plan**

- All 10 supervisors to submit the field implementation plan

### **2. Organising the training**

- Currently, contracts of fieldworkers are being drawn as provincial supervisors are sending through their lists. All logistics associated with the fieldwork i.e. car rentals, provisions will be organised in the next two weeks.

### **3. Material**

- Certificates will be prepared for all the training participants.
- Nametags for fieldworkers will also be prepared.
- Screening sheets needs to be prepared

## 2.11. Needed from DME

- Send database to Anneke

**Approval:** Agenda for the training  
List of fieldworkers  
Certificate  
Support letters  
Screening sheet  
Format of the name tags  
Pilot sites: Attridgeville, Winterveld

# APPENDIX: 1

## 1. ETHICS COMMITTEE APPLICATION FORM

### **ETHICS COMMITTEE APPLICATION FORM**

*Human Sciences Research Council (HSRC), South Africa*

### **APPLICATION TO THE HSRC RESEARCH ETHICS COMMITTEE FOR CLEARANCE OF NEW/REVISED RESEARCH PROJECTS**

CLEARANCE NUMBER (for office use only): \_\_\_\_\_

**THIS APPLICATION MUST BE TYPED (IN ARIAL 10) OR HANDWRITTEN IN CAPITALS**

**NAME:** *Bongiwe Mncwango*

**POSITION (IN HSRC)/PROFESSIONAL STATUS:** Senior Researcher

**AFFILIATION: RESEARCH PROGRAMME/INSTITUTION:**

Knowledge Systems : Centre for Socio-Economic Surveys

**TELEPHONE AND EXTENSION NO. Code:** 012

**FAX NO. Code:** 012

**No.** 302 2504

**No.** 302 2525

**E-MAIL ADDRESS:** Bmncwango@hsrc.ac.za

**TITLE OF RESEARCH PROJECT: (Do not use abbreviations)**

Socio-Economic Impact Study of the electrification process in South Africa

**WHERE WILL THE RESEARCH BE CARRIED OUT? (Please furnish name of HSRC research programme or name of institution and particular department/section)**

Knowledge Systems : Centre for Socio-Economic Surveys

**All the following sections must be completed. Please tick all relevant boxes.**

**1. FUNDING OF THE RESEARCH: How will the research be funded?**  
**Contract / grant / self / other (state which)**

**2. PURPOSE OF THE RESEARCH:**

**Degree/diploma (state which)**

**Not for degree purposes**

**Institution:**

**3. AIMS AND OBJECTIVES OF THE RESEARCH (Please list objectives):**

The two main objectives of the study are to:

1. Track the extent to which electrification is improving the socio-economic conditions of the poor households; and
2. Provide opportunities for job creation and skills development to the sampled communities



1. Unless received by the 1<sup>st</sup> of the month, applications will be carried over to the next month for consideration.
2. If not employed by the HSRC, please indicate clearly where correspondence should be sent.
3. This requirement holds even if, to assist the Committee, a proposal detailing the background to the research, the design of the investigation and the methodology, is submitted with the application.

**4. SUMMARY OF THE RESEARCH (give a brief outline of the research plan – in not more than 200 words):**

The Integrated National Electrification Programme receives an annual budget of over R1 billion to electrify households in order to achieve universal access by 2012. It is the Department of Minerals and Energy's (DME) intention to ensure that this budget is not only directed towards Electrification connections, but also Socio-Economic upliftment of all South Africans. The study will enable DME to keep track of the extent to which electricity has contributed to the improvement of the lives of the communities and to further identify opportunities for Small Macro and Medium Enterprises which will create jobs for these communities.

In addition to the above, the HSRC will also be responsible for the following:

- To recruit fieldworkers from local areas;
- To contract and remunerate fieldworkers;
- To secure venues for training and to assist with training fieldworkers;
- To provide travel, subsistence, and accommodation for trainees;
- To organise logistics related to data collection;
- To ensure quality control;
- To clean the dataset;
- To tabulate, analyse and interpret data;
- To provide preliminary reports and a final report.

**5. NATURE AND REQUIREMENTS OF THE RESEARCH**

**5.1 How should the research be characterised? (Please check/tick ALL appropriate boxes.)**

- |   |                                     |
|---|-------------------------------------|
| <b>5.1.1 Personal and social information collected directly from participants/subjects</b>    | <input checked="" type="checkbox"/> |
| <b>5.1.2 Participants/subjects to undergo physical examination</b>                            | <input type="checkbox"/>            |
| <b>5.1.3 Participants/subjects to undergo psychometric testing</b>                            | <input type="checkbox"/>            |
| <b>5.1.4 Identifiable information to be collected about people from available records</b>     | <input type="checkbox"/>            |
| <b>5.1.5 Anonymous information to be collected from available records</b>                     | <input type="checkbox"/>            |
| <b>5.1.6 Literature, documents or archival material to be collected on individuals/groups</b> | <input type="checkbox"/>            |

**5.2 Participant/Subject Information Sheet<sup>5</sup> attached? (For written and verbal consent)**  
 Yes  No

**5.3 Informed Consent Form<sup>5</sup> attached? (For written consent).** Yes  No   
**Consent will be verbal** Yes  No

**Informed consent is not necessary<sup>5</sup>** No  Yes

If no, state why not:

**5.4 If a questionnaire, interview schedule or observation schedule/framework for ethnographic study will be used in the research, it must be attached. Is it attached? (If not, the application cannot be considered.)** Yes  No

**6. PARTICIPANTS/SUBJECTS IN THE STUDY**

**6.1 If humans are being studied, state where they are selected:**

The study will be conducted in all nine provinces with a total representative sample of 3600 Households. 400 households will be systematically selected from each province. It will however focus on poor communities. Respondents will be selected from the sampled Households.

4. Whether written or verbal consent is to be obtained, the HSRC requires a Participant Information Sheet written in language understandable to the participant (or guardian) detailing what the participant will be told. This should include the following: (1) investigator introduction; (2) participation is voluntary, and refusal to participate will involve no penalty or loss of benefits to which the participant is otherwise entitled; (3) the participant may discontinue participation at any time without penalty or loss of benefits; (4) a brief description of the research, its duration, procedures and what the participant may expect and/or be expected to do; (5) any foreseeable risks, discomforts, side-effects or benefits; and (6) disclosure of alternatives available to the participant. If risks are involved: (7) a professional contact and 24-hour telephone number; (8) an explanation whether counselling will be provided in the case of a negative experience developing. This Participant Information Sheet may be incorporated into the consent form, or the consent form may be submitted separately.

5. The Informed Consent Form should include a clear statement that the participant is consenting to involvement in research and not to research/treatment that will necessarily provide personal benefit. Any personal benefit should be mentioned where this is possible. An important piece of information is that the participant is free to withdraw from the research/trial at any time without prejudicing any benefits or treatment that is required for existing or future psychological/medical conditions. If this is not made clear, the researcher risks the accusation that consent was obtained by subtle coercion (that is, the possibility of prejudice against the participant as a current or future beneficiary/patient).

6 NB. If any doubt exists, please contact the Committee Secretary, Ms Jurina Botha, Room 1411, 14<sup>th</sup> Floor, HSRC Building, 134 Pretorius Street, Pretoria, Tel. 012 302-2800 (E-mail: JEBotha@hsrc.ac.za).

**6.2 Participants/subjects will be asked to volunteer**   
**and/or they will be selected**

**State how the participants/subjects will be selected, and/or who will be asked to volunteer:**

Heads of Households would be selected to partake in the study. That's means when getting into a house, the contact person will be asked to tell us who they regard as head of the household. If the head of the household is not available, anyone over the age of 16 who can provide responses to the relevant questions will be interviewed.

**Are the participants/subjects subordinate to the person doing the recruiting?**

Yes  No

**If yes, justify the selection of subordinate subjects:**

**6.4.1.1 Will control participants/subjects/patients be used? Yes  No**

**If yes, explain how they will be selected:**

**6.4 What records, if any, will be used, and how will they be selected?**

NA

**6.5 What is the age range of the participants/subjects in the study? 16 years and**

above

6.5.1 If between 14 and 18 years, (a) assent form for guardian attached? Yes  No

(b) consent form for participant/subject attached?  
Yes   
No

6.5.2 If younger than 14 years, (a) consent form for guardian attached? Yes  No

(b) assent form for participant/subject attached?  
Yes  No

6.6 **Demographic profile of participants/subjects. (Check/tick ALL appropriate boxes.)**

(a) Sex: Male  Female

(b) Population group: African  Coloured/Griqua  Indian/Asian   
White

(c) Language group/s: All language groups

6.7 Number of non-patient participants/subjects: ; patients: ; controls:

6.8 Will the research benefit the participants/subjects in any direct way? Yes  No

If yes, explain in what way:

6.9 Will participation or non-participation disadvantage them in any way? Yes  No

If yes, explain in what way:

## 7. PROCEDURES

7.1 Mark research procedure(s) that will be used:

Reviews:  Literature  Documentary  Personal records

Personal information:  Interviews  Survey  Participant observation

Other (describe):

How will the data be stored? The data will be collected using Personalised Digital Assistants (PDAs) and will be instantaneously sent to the central database.

### Social and related:

Interview form/schedule (must be attached)

X Questionnaire (must be attached)

Observation schedule/framework (must be attached)

### Medical and related:

Examination (state below nature and frequency of examination)

Blood sampling:  venous;  arterial (state below amount to be taken and the frequency of blood sampling), and  safe storage required?

Biopsy/Gene identification – NOT FOR HSRC ETHICS COMMITTEE!

Substance administration (state below name[s] of substance[s] and dose[s] and frequency of administration) – NOT FOR HSRC ETHICS COMMITTEE!

X-rays – NOT FOR HSRC ETHICS COMMITTEE!

*Isotope administration (state below name[s] of isotope[s] and frequency) - NOT FOR HSR0 ETHICS COMMITTEE!*

*Other procedures (provide details, and indicate clearly whether medical-related)*

*Use the space below to elaborate on procedures marked above:*

**[FOR MEDICAL OR RELATED PROCEDURES (OTHER THAN EXAMINATION AND BLOOD SAMPLING) PLEASE SUBMIT APPLICATION TO MRC OR OTHER MEDICAL ETHICS COMMITTEE.]**

**7.3 RISKS OF THE PROCEDURE(S) participants/patients/controls will/may suffer:**

*No risk*       *Discomfort*       *Pain*

*Possible complications*       *Side effects from agents used*

*Persecution*       *Stigmatisation*

*(Negative) labelling*       *Other potential risks*

*If you have checked any of the above, except "No risk", provide details here:*

**8. RESEARCH PERIOD**

(a) *When will the research commence?* August 2008

(b) *Over what approximate time period will the research be conducted?*

*From:* August 2008      *To:* December 2008

**9. GENERAL**

9.1 *Has permission of relevant authority/ies been obtained?* Yes  No X  N/A

*If yes, state name/s of authority/ies:*

9.2 *Confidentiality: How will confidentiality be maintained to ensure that participants/ subjects/patients/ controls are not identifiable to persons not involved in the research?*

All information collected during the interview will be treated as confidential. By this it is meant that no individuals or households will be identified by name or address in any of the reports that will be written in the future.

9.3 *Results: To whom will result be made available, and how will the findings be reported to the research participants?*

Results will only be made available to the client : DME

9.4 *There will be financial costs to:*

<i>Participant/subject/patient</i>	Yes <input type="checkbox"/>	No X <input checked="" type="checkbox"/>
<i>Institution</i>	Yes <input type="checkbox"/>	No X <input checked="" type="checkbox"/>
<i>Other</i>	Yes <input type="checkbox"/>	No X <input checked="" type="checkbox"/>

*Explain any box marked "yes":*

9.5 *Research proposal/protocol attached?* Yes X  No

9.6 *Any other information which may be of value to the Committee should be provided here:*

<b>Date: 05 August 2008</b>		<b>Applicant's Signature:.....</b>	
<b>Who will supervise the project?</b>			
<b>Name: Ms Jare Struwig</b>		<b>Programme/Institution/Department: KS:CSES</b>	
<b>Date: 05 August 2008</b>		<b>Signature:.....</b>	
<b>Director/Head/Research Coordinator of Department/Institute in which study is conducted:</b>			
<b>Name:</b>		<b>Ms Anneke Jordaan</b>	
<b>Date: 05 August 2008</b>		<b>Signature:.....</b>	

# APPENDIX: 2

## Feedback from Ethics committee

**Socio-economic Impact Study of the electrification process in South Africa (REC 4/13/08/08 – submitted by Ms Bongwiwe Mncwango of KS)**

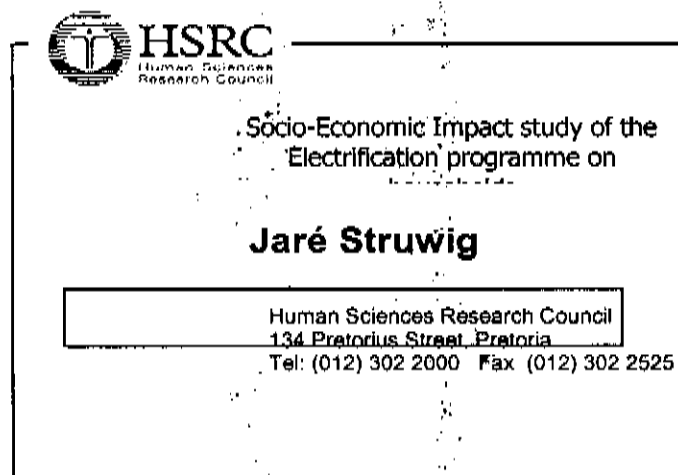
- (a) The Committee considered the application for ethics clearance of the above protocol submitted by Ms. Bongwiwe Mncwango of KS (attached to the agenda as Addendum 5).
- (b) The Committee granted provisional ethical clearance of the study and mandated the Chair to grant final approval once the applicant had responded to the following comments in respect of this application:
  - (i) Application Form
    - Section 3.2, objectives: The statement that this study would "provide opportunities for job creation ..." should be changed to read "...identification of opportunities for job creation".
    - There were some discrepancies between the application form and the research proposal. The proposal motivated for a longitudinal design with the intent to revisit households; however this was not mentioned in the application form or in the consent form where it should be noted.
    - Section 7.1, storage of data: Consideration should be given to the security of the data. Since PDAs will be used to collect the data and the data sent to a central database; how will security and confidentiality be ensured, e.g. is it password protected? See also 9.2 below.
    - Section 9.1: Explain why it is not necessary to obtain permission from the relevant authorities.
    - Section 9.2: In addition to the comments mentioned under 7.1, state how the integrity of data capturing of information received from PDAs will be ensured. No mention is made regarding confidentiality of data storage and the analysis thereof. This must be explained as well as how the identity of participants will be kept confidential during the study.
  - (ii) Informed Consent Form
    - Add the relevant information relating to the HSRC in the introduction.
    - Paragraph 3: Mathematical terms should not be used ( $\geq 16$ ) but should be written out in words. Justification should be given for the inclusion of minors (those under 16) in the study. It would be less complicated to obtain consent if the respondents' age is changed to 18 instead of 16.
    - Add an explanation to participants on how confidentiality will be ensured.
    - The last paragraph relates to the time frame involved in responding to the questions. Change "asking you a few questions..." to "... asking you some questions".
    - The HSRC ethics hotline telephone number should be added to the contact details.
  - (iii) Dr. Kivilu's cover letter
    - The cover letter signed by Dr. Kivilu gives the impression that respondents do not have a choice but must take part in the study. This should be changed as participation is always entirely voluntary.
    - The cover letter states that the interviews normally take just under one hour but the consent form mentions about twenty to thirty questions. There should be correlation between the cover letter and the consent form. The letter should explain that the participant will be asked some questions during the interview.

(iv) Questionnaire

- Page 8, question 43 allows the respondent to jump to question 45 if the response is in the negative. This answer will not provide researchers with relevant information on whether or not there were any of the benefits referred to in question 44. It was suggested that the wording of the question could be changed from "benefited" to "affected" which will assist in identifying any negative or positive impact. Not all consequences of electrification in informal settings are positive.
- It was noted that there were no questions regarding illegal electricity connections which are apparently common in some areas. Explain what will be done if the researchers were to discover illegal electricity connections in households: What is the obligation of researchers in such instances?

## APPENDIX: 3

### Sample of name tag



# APPENDIX: 4

## Support letters to be used in the field

### Introductory letters

As part of the HSRC's ethical conduct, projects are required to submit a letter of introduction to the participants. On this letter a contact number is provided should the respondent have queries or need to validate the fieldworkers. For this particular study, four letters have been developed: *Introduction letter for the Household, municipalities and local leadership, for the South African Police services and for the farms.*

Further the HSRC also requires projects to have *consent forms.*