

ANNEXES

ANNEX 1: LIST OF CONSULTED PERSONS

	Name	Position & Organization	Tel. No.	Date
1	Mr Abinet Ahmed	AA Power System Master Plan Project Manager	0910075517	20/04/18
2	Ms Selam Tarekegn	Director, Environmental & Social Management Office, EEP	0913640468	19/03/18
3	Mr Tolossa Yadessa	Acting Director, ESIA Directorate, MoEFCC	0913754227	27/03/18
4	Mrs Muluberhan Tariku	Director, Env. Pollution, Monitoring & Control Directorate, MoEFCC		18/06/18
5	Mr Meseret Abdissa	Senior Air Pollution Monitoring & Control Expert, MoEFCC	0917840225	18/06/18
6	Lemessa Gudeta	Env. Law Enforcement Monitoring & Control, Team Leader, AAEP	0911095772	18/06/18
7	Mrs Belaynesh Birru	Director, Environment & Climate Change Directorate, MoWIE	0912159392	08/06/18
8	Mr Mengistu Teso	Head, Kaliti-1 Substation		03/04/18
9	Mr Asmare Beyene	Technician, Kaliti-1 Substation		03/04/18
10	Mr Melese Yifru	Technician, Kaliti-1 Substation		03/04/18
11	Mr Dereje Bedelu	Head, Chief Executive Office, Akaki Kaliti Sub-city	0911886952	04/04/18
12	Mr Abraham Hailu	Head, Chief Executive Office, NSL SC	0911109152	04/04/18
13	Mr Minwuyelet Chekol	Chief Executive, Woreda 11, NSL SC	0913642748	11/04/18
14	Mr Goytom Tikul	Deputy Executive, Woreda 11, NSL SC	0912222461	11/04/18
15	Mr Shimelis Zewdie	Chief Executive, Woreda 12, NSL SC	0913270683	11/04/18
16	Mr Neway Hordofa	Head, EPO, Nifas Silk Lafto SC	0912335802	04/07/18
17	Mr Tesfaye Ahebir	Technician, Weregenu Substation	0936038481	23/04/18
18	Mr Tadesse Ertro	Head, Customer Service, Debrezeyt District, EEU Southern AA Region	0911374563	01/05/18
19	Mrs Almaz Mekonnen	Manager, AAC Beautification, Parks & Cemetery Devt & Adm. Agency	0118723670	05/06/18
20	Mr Tewolde Tsehaye	Chief Executive, Kirkos SC	0911445917	
21	Mr Jiregna Hirpa	Deputy G. Manger, AA Road Traffic Management Agency	0924321640	26/06/18
22	Mr Ashu Sintayehu	Director, Operation Directorate, AA Road Traffic Management Agency	0935337587	26/06/18
23	Mr Yitbarek Andualem	Director, Traffic Control Directorate, AA Road Traffic Management Agency	0911390537	26/06/18
24	Mr Getnet Ejigu	Water Supply Lines Installation and Distribution Core process Owner, AAWSSA	0911757632	27/06/18
25	Mr Semu Melesse	Water Supply Engineer, AAWSSA	0911407845	27/06/18

26	Mr Zelalem Ketema	Sewerage Lines Installation and GIS Expert, AAWSSA	0911819743	27/06/18
27	Mrs Nebyat Getahun	Water Customers Service Process Owner, AAWSSA Mekanisa Branch Of.	0912049676	04/07/18
28	Mr Asmelash	Technician, Water Customers Service Team, AAWSSA Mekanisa Branch Of.	0911913432	04/07/18
29	Mr Solomon Abebe	Medium Sewer Line Installation & Maintenance Case Team Process Owner, AAWSSA Mekanisa Branch Of.		04/07/18
30	Mr Kerim Hassen	Engineer-II, Medium Sewer Line Installation & Maintenance Case Team, AAWSSA Mekanisa Branch Office	0910152258	04/07/18
31	Mr Misgana Abiche	Officer, Kirkos SC Beautification, Parks & Cemetery Devt & Adm. Office	0912109604	04/07/18
32	Mr Bibrom Tesfaye	Head, Chief Executive Office, Bole SC	09113569707	09/07/18
33	Mrs Shemsiya Negash	Head, Bole SC Beautification, Parks & Cemetery Devt & Adm. Office		10/07/18
34	Mr Gu-ush G/Eyesus	Head, Bole SC Beautification, Parks & Cemetery Cord Process Owner	09110106431	10/07/18
35	Mr Mulatu Adugna	Residential Houses Water Supply Distribution Process Owner, AAWSSA Gurad Shola Branch Office	0940296768	12/07/18
36	Mr Daniel Debebe	Engineer, Kirkos SC Community Participation Office	0913052183	04/07/18
37	Mr Mitiku Beyene	Head, NSL SC Land Devt & Urban Renewal Office	0911061762	10/07/18
38	Mr Degamlak Bereda	D/Head, Dukem District, EEU Southern AA Region	0911942035	21/07/18
39	Mr Debela Fekadu	Zonal T. Leader, Addis Alem District, EEU Western AA Region	0966992267	23/07/18
40	Mr Tesfaye Yohannes	A/Director (Gender Expert), Women & Youth Affairs Directorate, EEP		24/07/18
41	Mr Tekola Teshome	Gender Expert, Women & Youth Affairs Directorate, EEP		24/07/18

ANNEX 2: LIST OF FLORA IDENTIFIED FROM THE CORRIDOR OF THE OVERHEAD AND UNDERGROUND TRANSMISSION LINES

	Family Name	Scientific Name	Local Name		Habit	IUCN Status ¹	Notes
			Amharic	Oromiffa			
1	Acanthaceae	<i>Justicia schimperiana</i>	Sensel	Tumuga	Shrub	NA	Shrub, usually planted as live fence
2	Agavaceae	<i>Agave sisalana</i>	Kacha	Kacha	Succulent	NA	Succulent plant
3	Anacardiaceae	<i>Rhus sp.</i>	Embush	Tatesa			Shrub
4	Amaranthaceae	<i>Acranthus aspera</i>	Telej		Herb	NA	Indigenous
5	Amaranthaceae	<i>Amaranthus caudatus</i>			Herb	NA	Indigenous
6	Amaranthaceae	<i>Beta vulgaris</i>	Key Sir		Herb	NA	Introduced; Edible vegetable
7	Amaranthaceae	<i>Spinacia oleracea</i>	Kosta		Herb	NA	Introduced; Edible vegetable
8	Anacardiaceae	<i>Schinus molle</i>	Qundo Berbere		Tree	NA	Introduced; Ornamental tree
9	Apocynaceae	<i>Nerium oleander</i>	Oleander (Eng.)		Shrub	LC	Introduced; Ornamental shrub
10	Araucariaceae	<i>Araucaria heterophylla</i>	Norfolk Island pine (Eng.)		Tree	Vu	Introduced; Planted as ornamental tree
11	Arecaceae (Palmae)	<i>Phoenix canariensis</i>	Canary Island Date Palm		Tree	LC	Introduced; Ornamental tree
12	Asteraceae	<i>Bidens pilosa</i>	Ye-setan Merfe		Herb	NA	Indigenous
13	Asteraceae	<i>Carduus ellenbeckii</i>	Yeahiya Eshoh		Herb	NA	Indigenous
14	Asteraceae	<i>Echinops pappii</i>			Herb	NA	Indigenous
15	Asteraceae	<i>Parthenium hysterophorus</i>			Herb	NA	Introduced; Invasive species
16	Asteraceae	<i>Tagetes minuta</i>			Herb	NA	Introduced
17	Asteraceae	<i>Xanthium spinosum</i>	Ye-set Milas		Shrub	NA	Indigenous
18	Boraginaceae	<i>Cordia africana</i>	Wanza	Wodesa	Tree	NA	Indigenous
19	Boraginaceae	<i>Ehretia cymosa</i>	Game	Ulaga	Tree	NA	Indigenous
20	Bignoniaceae	<i>Jacaranda mimosifolia</i>	Jacaranda	Jacarana	Tree	Vu	Introduced; Ornamental tree
21	Brassicaceae	<i>Brassica carinata</i>	Abesha Gomen	Rafuu	Herb	NA	Indigenous; Edible vegetable
22	Casuarinaceae	<i>Casuarina cunninghamiana</i>	Shewshewe		Tree	NA	Introduced
23	Convolvulaceae	<i>Ipomoea indica</i>			Herb	NA	Introduced

¹The IUCN Red List of Threatened Species. Version 2018-1. <www.iucnredlist.org>. Downloaded on 14 & 28 August 2018.

24	Convolvulaceae	<i>Ipomoea tenuirostris</i>			Herb	NA	Indigenous
25	Cyperaceae	<i>Cyperus sp.</i>	Engcha	Engcha	Herb	NA	Sedge
26	Cyperaceae	<i>Cyperus rotundus</i>	Engcha		Herb	NA	Sedge
27	Euphorbiaceae	<i>Croton macrostachyus</i>	Bisana	Makanisa	Tree	NA	
28	Euphorbiaceae	<i>Ricinus communis</i>	Gulo	Koboo	Shrub	NA	Indigenous
29	Fabaceae	<i>Acacia abyssinica</i>	Girar	Lafto	Tree	NA	Indigenous
30	Fabaceae	<i>Acacia decurrens</i>	Akacha		Tree	NA	Introduced
31	Fabaceae	<i>Acacia mearnsii</i>			Tree	NA	Introduced
32	Fabaceae	<i>Acacia saligna</i>	Saligna	Saligna	Tree	NA	Introduced
33	Fabaceae	<i>Acacia sieberiana</i>		Lafto- Adi	Tree	NA	Indigenous
34	Fabaceae	<i>Albizia schimperiana</i>	Sassa	Ambab essa	Tree	NA	Indigenous
35	Fabaceae	<i>Leucaena leucocephala</i>	Lukina	Lukina		NA	Small tree; Planted as ornamental tree
36	Fabaceae	<i>Pterolobium stellatum</i>	Kontir	Kajima		NA	Shrub
37	Fabaceae	<i>Sesbania sesban</i>	Sesbania	Sesbania	Shrub	NA	Indigenous; fodder plant
38	Flacourtiaceae	<i>Dovyalis abyssinica</i>	Koshim		Shrub	NA	Indigenous; commonly used as live fence
39	Loganiaceae	<i>Buddleja polytschaya</i>	Anfar		Tree	NA	Indigenous
40	Malvaceae	<i>Sida schimperiana</i>	Chifrig		Shrub	NA	Indigenous
41	Meliaceae	<i>Melia azedarach</i>	Nim	Nim	Tree	NA	Introduced; Ornamental tree
42	Moraceae	<i>Ficus sur</i>	Sholla	Harbu	Tree	NA	Indigenous
43	Moraceae	<i>Ficus sycomorus</i>	Sholla	Oda	Tree	NA	Indigenous
44	Myrtaceae	<i>Eucalyptus camaldulensis</i>	Key Barzaf	Barzafi- dima	Tree	NA	Introduced tree
45	Myrtaceae	<i>Callistemon sp.</i>	Bottle-brush (Eng.)		Shrub		Introduced; ornamental
46	Oleaceae	<i>Olea europaea subsp. cuspidata</i>	Weyra		Tree	NA	Indigenous
47	Papaveraceae	<i>Argemone mexicana</i>			Herb	NA	Introduced; weed plant
48	Papilionaceae	<i>Calpurna aurea</i>	Digita	Cheka	Shrub	NA	Indigenous
49	Papilionaceae	<i>Millettia ferruginea</i>	Birbira	Sotellu	Tree	NA	Indigenous
50	Plantaginaceae	<i>Plantago lanceolata</i>			Herb	NA	Indigenous
51	Poaceae	<i>Arundo donax</i>	Shembeko	Shembeko	Herb	LC	Indigenous; Giant Reed
52	Poaceae	<i>Cynodon dactylon</i>	Serdo	Chekorsa	Herb	NA	Indig.; Common grass
53	Poaceae	<i>Digitaria abyssinica</i>		Ura		NA	Indigenous; Grass
54	Poaceae	<i>Eleusine floccifolia</i>	Akrima	Dagoo		LC	Indigenous; Grass
55	Poaceae	<i>Eragrostis papposa</i>				NA	Indigenous; Grass

56	Poaceae	<i>Pennisetum clandestinum</i>			Herb	NA	Indigenous; Grass sp.
57	Poaceae	<i>Cenchrus purpureus</i>	Yezihon Sar		Herb	LC	Introduced; <i>Elephant Grass</i> , Napier Grass
58	Poaceae	<i>Pennisetum sphacelatum</i>	Sendedo, Sebez	Migra	Herb	LC	Indigenous; Grass sp.
59	Poaceae	<i>Pennisetum thunbergii</i>	Guba	Migra Sare	Herb	NA	Indigenous; Grass sp.
60	Polygonaceae	<i>Persicaria microcephala</i>			Herb	NA	Weed
61	Polygonaceae	<i>Polygonum senegalensis</i>			Herb	NA	Indigenous
62	Proteaceae	<i>Grevillea robusta</i>			Tree	NA	Introduced
63	Rhamnaceae	<i>Rhamnus prinoides</i>	Gesho	Gashoo	Shrub	NA	Indig.; used for making local beer (<i>Tela</i>)
64	Rosaceae	<i>Rosa abyssinica</i>			Shrub	NA	Indig. Ornamental plant
65	Solanaceae	<i>Datura stramonium</i>			Herb	NA	Indigenous
66	Solanaceae	<i>Solanum incum</i>	Hidi	Hidi	Shrub	NA	Shrub
67	Solanaceae	<i>Solanum nigrum</i>		Hidi	Shrub	NA	Shrub
68	Urticaceae	<i>Urtica simensis</i>	Sama		Herb	NA	Indigenous

Key to IUCN Status:

Vu = Vulnerable

LC = Least Concern

NA = The species has not yet been assessed for the IUCN Red List

ANNEX 3: WATER SUPPLY AND SEWER LINES IN PROJECT IMPACT ZONE

Annex 3-1: Water Supply Pipelines along/crossed by the Proposed Underground Transmission Routes

AAWSSA Code ²	Size of PL (Diameter, mm)	LHS/RHS	Description of Location	Coordinates of UG TL & Pipeline Intersection	Notes
I. BLL-NADC-Gofa					
110_HDPE_16	110	Intersect	Runs from Mexico square to Diafricque Hotel on RHS of main road	471947 E, 996140 N	May be affected during construction
300_DCI_14	300	Intersect	Runs E-W at northern edge of Mexico square	471939 E, 996053 N	As above
300_DCI_14	300	Intersect	Crosses Mexico sq. at southern part	471938 E, 995974 N	As above
700_DCI_14	700	Intersect	Crosses Mexico sq. at southern part	471937 E, 995962 N	As above
300_DCI_75	300	RHS, Intersect	Running N-S from edge of Mexico sq. to AU gate under RHS carriageway/ on RHS of the proposed UG TL & crosses the TL at in front of EU gate	472042 E, 994857 N	As above
100_JISPVC_75	100	Middle of road, RHS, Intersect	Start at AU gate & runs south at the middle of road, then on RHS. Crossed by the TL at three locations – at 160m & 360m from AU gate and on the road to Bulgaria.	472057 E, 994698 N, 472065 E, 994497 N & 472030 E, 994385 N	As above
110_.....	110	Intersect	Runs on RHS of AU-Bulgara road on RHS edge of pedestrian walkway and crossed by the UG TL at start of the cobblestone road	472110 E, 994302 N	Likely to be affected
110_ISOPVC_75	110	Intersect	Crosses access road before the Oromia Regional Offices	471812 E, 993909 N	As above

²Designates the size (diameter), material type & year of installation of the line
NEWJEC Inc. & ESSD Consultancy

AAWSSA Code ²	Size of PL (Diameter, mm)	LHS/RHS	Description of Location	Coordinates of UG TL & Pipeline Intersection	Notes
63_ISOPE_08	63	Intersect	As above	471767 E, 993878 N	As above
75_ISOPVC_89	75	Intersect	Crosses the Sarbet-Kera road	471980 E, 993505 N	As above
75_GS_75	75	Intersect	Crossed by the TL at the intersection of internal road/ cobble stone road at between existing Towers No. 13 & 14	472130 E, 993049 N	As above
75_ISOPE_16	75	Intersect	As above	472131 E, 993035 N	As above
100_JISPVC_75	100	Intersect	Crossed by the TL at nearby Tower No. 15	472142 E, 992630 N	As above
75_ISOPE_09	75	Intersect	Crossed by the TL at main road from Gofa Gebreal to Germany Square	472156 E, 992263 N	As above
75_ISOPE_09	75	Intersect	As above	472157 E, 992236 N	As above
II. Weregana-Connection Point-3					
150_DCI_98	150	Intersect	Intersects the TLs at the junction of Gerji road	479853E, 995293 N	May be affected during construction
150_DCI	150	Intersect	Crosses the road/proposed UG TL at in front of Anbesa Hotel	480218 E, 995754 N	As above
110_ISOPVC_98	110	Intersect	Crosses the road/proposed UG TL at south of Meta Beer Distribution Centre	480277 E, 995906 N	As above
150_DCI_98	150	Intersect	Crosses the road/proposed UG TL at south of Meta Beer Distribution Centre	480571 E, 996478 N	As above
250_ISOPVC_11	250	Intersect	Crosses the proposed UG route at the main gate to Sahelete Mihret Church	481187 E, 997157 N	As above

Source: Data extracted from AAWSSA Water Supply Network that was verified through site visit

Annex 3-2: Existing Sewer Lines along/crossed by the Proposed Underground Transmission Lines

AAWSSA Code	Size (Diameter, mm)	LHS/RHS	Coordinates of UG TL & Pipeline Intersection	Description of Location	Notes
I. BLL-NADC UG TL					
ISOP-pipes-fi 300mm	300	Intersect	471945 E, 996142 N	Runs along the Mexico square-Diafriqye road and crosses the UG TL at nearby the BBL substation & at north of Mexico square; Manhole at nearby both crossing points.	May be affected as crossed by the TL
ISOP-pipes-fi 150mm - 800m	200	LHS	From 471947 E, 995967 N to 472088 E, 994513 N	Runs from nearby Mexico square to nearby NADC substation & runs west direction at just above the NADC. The TL crosses the sewer line just before the substation. There is manhole at 18m east of the crossing point	As above
ISOP-pipes-fi 200mm	200	Intersect	472069 E, 994514 N	Runs E-W direction at just above the NADC substation and crossed by the UG TL; Manhole at 16m east of the crossing point.	As above
II. NADC – Gofa UG TL					
ISOP-pipes-fi 250mm	250	Intersect	472113 E, 994319 N	Crosses the road to Bulgaria & joins the below sewer line; it is crossed by the UG TL just before about 8m before a manhole where it ends.	May be affected as crossed by the TL
ISOP-pipes-fi 400mm	400	Intersect	471992 E, 994136 N	It starts at just below the AU-Bulgaria road & goes on RHS edge of a coble stone road followed by the UG TL for 210m and turns left and runs on left bank of a stream. It is crossed by the UG TL at 210m below the Bulgaria road.	As above
ASB-pipes-fi 600mm	600	Intersect	472113 E, 993385 N	Crosses the Sarbet-Kera asphalt road and goes on RHS of coble stone road. The TL crosses the sewer line at the main road and runs on LHS of the SL.	As above
ASB-pipes-fi 600mm	600	Intersect	472220 E, 990347 N	Runs along existing access road located on left bank of Akaki river and crossed by the Gofa – Kaliti-1 overhead TL between TRs 23 & 24.	As above

Source: Data extracted from AAWSSA Sewer Line Network and verified through site visit

	Impact Characterization															Impact Evaluation														
	Type	Effect		Duration			Change		Periodicity			Areal extent			Sensitivity			Magnitude			Significance without mitigation/enhancement measures				Significance after mitigation/enhancement measures					
Potential Impacts	Beneficial Impact	Adverse Impact	Direct	Indirect	Short term	Medium term	Long term	Reversible	Irreversible	Continuous	Periodic	Irregular	Localized	Widespread	Extensive	Low	Moderate	High	Low	Moderate	High	Minor	Low	Moderate	Major	Minor	Low	Moderate	Major	
Construction Phase																														
Accidents and health risks to workers from traffic accidents, construction works, etc.		X	X		X			X		X			X					X	X						X		X			
Accidents and health risks to residents from traffic accidents, construction works, etc		X	X		X			X		X			X					X	X						X		X			
Impacts on road traffic and safety		X	X	X				X		X			X					X		X					X					
Cumulative impacts		X	X		X			X		X	X		X				X	X		X	X				X	X		X		
Operation Phase																														
Contribution to reliable energy supply	X		X			X	X			X			X				X				X				X					X
Impact on landscape from demolition of existing towers & overhead TL and and replacement with UG cables	X		X			X	X			X			X				X		X					X				X		
Impacts on socio-economic development	X		X	X		X		X	X						X			X			X				X					X
Impact on investment activities	X		X			X		X	X				X					X			X				X					X
Impacts on women through creation of employment opportunities	X		X	X		X		X	X				X				X			X					X					X
Cumulative impacts - energy supply with other systems	X		X	X		X	X			X			X					X			X				X					X
Impacts on flora - clearance of trees & other vegetation under overhead TL & distribution lines		X	X			X		X	X			X				X			X					X		X				

ANNEX 5: MONITORING FORMS

I. Preconstruction Phase

1. Monitoring on ARAP and land acquisition to be monitored by EEP

Activities	Expected Date Completion	Responsible Organization
Approval of ARAP	30 September 2018	MOWIE
Processing Compensation Fund	Upon approval of project implementation	EEP & Sub-cities

2. Progress of Compensation Payment

Components	Planned Total	Unit	Monthly Progress			Progress (%)		Expected Date of Completion	Responsible Organization
			M-1	M-2	M-3	Till the last month	Up to the month		
Compensation Payment									
01		No. of PAPs							EEP
02		No. of PAPs							EEP
03		No. of PAPs							EEP

3. Record of grievance management

Monitoring Item	Monitoring Results during Report Period
Number and contents of grievance	Number: Contents: Actions to be taken:

II. Construction Phase

Proposed monitoring forms for Construction Phase of the Biophysical/Natural and Social Environments are shown below.

Note: Information on location of monitoring sites, methods of monitoring etc. should be referred in Table 9-3 of section 9.3.

1. Response /Action to Comments and Guidance from Government Authorities and Public

Monitoring Item	Monitoring Results during Report Period
(Number and contents of formal comments made by the public)	
(Number and contents of response from Government agencies)	

2. Biophysical/Natural Environment (Air, noise & wastes pollution, soils, protected areas, flora)

2.1 Air quality

Monitoring Item	Site observation, interviews of local residents , recording of complaints and photographic recording	Measures to be taken	Frequency
Dust emissions level	(Details of survey results including location, causes, distance form sensitive receptors, etc.)		<ul style="list-style-type: none"> • Daily (Construction site, access roads) • Once/week nearest residence/community)

2.2 Noise

Item	Unit	Measured Value (Mean)	Measured Value (Max.)	Country's Standards (*1)	Referred International Standards (*2)	Measurement Point	Frequency
Noise Level Leq	dB(A)			55	55		Daily (Construction implementati on area), Once/week (nearest residence/ community)

(*1) Guideline ambient environment standards for Ethiopia (EPA, August 2003)

(*2) IFC EHS Guidelines, General EHS Guidelines Table 1.7.1 Daytime (07:00-22:00)

2.3 Wastes

Item	Unit	Steel	Plastic	Scrap	Waste oil	Wood	Measurement Point	Frequency
Type of the generated waste	kg/ m ³							Once/2 week or Once/ month as depending on waste amount

2.4 Soil

Monitoring Item	Site observation and photographic recording	Measures to be taken	Frequency
Soil erosion, soil compaction & soil contamination level	(Details of survey results such as location, causes, magnitude, impacted receptor, etc. of soil erosion/compaction/ contamination levels)		Once/month

2.5 Protected Areas and Flora

Monitoring Item	Area of PA affected (m ²)	No. of trees affected	List of tree species affected	Mitigation measures to be taken	Frequency
Protected area/ Green area; Indigenous/ exotic trees					Daily where the issues are relevant

3. Social Environment

3.1 Land use & livelihoods

Monitoring Item	Area of farmland/ grassland affected (m ²)	Types of crops affected	Amount of compensation paid (Birr)	Other measures to be taken	Frequency
Land use					Once/2 months

3.2 Petty businesses

Monitoring Item	Type of petty business affected	No. of people losing petty trade activities	Measures taken to mitigate the impact	Frequency
Petty businesses				Once/3 months

3.3 Road infrastructure

Monitoring Item	Location, type, length of roads affected			Roads restored upon completion of construction works			Frequency
	Type	Location	Length	Type	Location	Length	
Road infrastructure							Once/month

3.4 Public utilities

Monitoring Item	Type, location, length of public utilities affected			Type, location, length of public utilities restored			Frequency
	Type	Location	Length	Type	Location	Length	
Public utilities							Once/month

3.5 Project workers health and safety

Monitoring Item	No. of workers provided with training & awareness education	No. of workers provided with protective clothing & equipment	No. of project sites secured safe & provided with safety facilities/ materials	Traffic management situation on site	Frequency
Workers health and safety					Daily during active construction period

3.6 Community health and safety

Monitoring Item	No. of risky construction sites prevented by fencing or blocking access	No. of project workers esp. equipment operators & drivers provided training in safety	No. of awareness training provided for local communities	Other measures taken to ensure safety of local communities	Frequency
Community health and safety					Once/week

3.7 Road traffic and safety

Monitoring Item	No. of work zone secured safe through fencing, posting signs, barricades, reflectors etc.	Traffic management situation around construction sites - speed limits, provision of alternative routes to divert traffic from construction sites	No. of traffic accidents occurred, and causes and	Measures taken to prevent accidents	Frequency
Road traffic and safety					Once/week

3.8 Gender issues

Monitoring Item	Employment condition of women that is if women have been given equal employment opportunities	No. of project sites provide with separate toilets for women workers at project sites	Other measures taken to address gender issues	Frequency
Gender issues				Quarterly

3.9 Record of grievance management

Monitoring Item	Monitoring Results during Report Period
Number and contents of grievance	Number: Contents: Actions to be taken:

III. Operation Phase

Proposed monitoring forms for Operation Phase of Biophysical/Natural and Social Environments are presented below.

Note: Information on location of monitoring sites, methods of monitoring etc. should be referred in Table 9-3 of section 9.3.

1. Response /Action to Comments and Guidance from Government Authorities and Public

Monitoring Item	Monitoring Results during Report Period
Number and contents of formal comments made by the public	
Number and contents of response from Government agencies	

2. Soil erosion

Monitoring Item	Site observation and photographic recording	Measures to be taken	Frequency
Soil erosion	Details of soil erosion situation around tower base and along underground transmission lines.		Once/month during wet seasons

3. Green areas and ornamental vegetation

Monitoring Item	Restoration of trees and greenery area at the road median along BLL – NADC UG TL affected during construction works	Restoration of trees at the road median along Weregenu – Conn. Point-3 UG TL	Frequency
Green areas & ornamental trees & other vegetation			Twice/year

4. Community health and safety

Monitoring Item	Performance of transmission system automatic break in case of electrical line breaking	Minimum vertical distance of electrical lines from buildings and structures (8m for OH TL & 4.6m for distribution line)	Frequency
Community health and safety - performance of safety measures at substations, overhead & underground electric lines			Quarterly

5. Safety of electric lines

Monitoring Item	Safety of towers – protection of tower base from erosion, cultivation, growing of trees or crops etc.	Safety of electric lines – avoidance of growing trees under electric lines (min. 13m for OH TL & 2.5m for DLs in all directions)	Safety of UG cables – avoidance of any structures and growing trees above cables.	Frequency
Safety of electric lines				Quarterly (Once/3 months)

6. Record of grievance management

Monitoring Item	Monitoring Results during Report Period
Number and contents of grievance	Number: Contents: Actions to be taken:

ANNEX 6: MINUTES OF STAKEHOLDER CONSULTATION MEETINGS

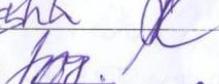
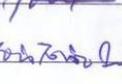
Annex 6-1: Minutes of Consultation Meeting held with Officials of Nifas Silk Lafto SC on April 10, 2018

የአዲስ አበባ የኤልክትሪክ ሃይል ማስተላለፊያ ጣቢያዎች የማስተላለፊያና ማሰራጨጫ ሙስመሮች ማሻሻያና ማስፋፊያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

ከክፍለ-ከተማ አስተዳደርና ሴክተር ሙ/ቤት ተወካዮች ጋር የተደረገ ምክክር

ክፍለ ከተማ ንፋስ አለታ ጎብ
ቀን ሚያዝያ 02/2018 የሰብሰባ ቦታ የባለሀብት ሪፖርት ስራ ሪፖርት

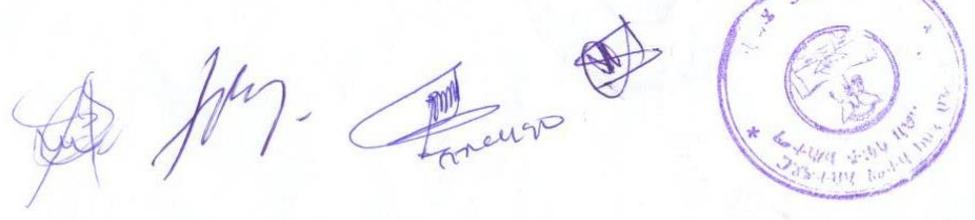
1. የተሳታፊዎች ዝርዝር

ተ.ቁ	የተሳታፊ ሙሉ ስም	የሥራ ኃላፊነት	ፊርማ
1	አብይ ገብረ	የድ.ሠ.ሪ. አስተዳዳሪ	
2	አብይ ገብረ	ድ.ሠ.ሪ. አስተዳዳሪ	
3	አብይ ገብረ	የሥራ ኃላፊ	
4	አብይ ገብረ	የሥራ ኃላፊ	
5	አብይ ገብረ	የሥራ ኃላፊ	
6	አብይ ገብረ	የሥራ ኃላፊ	
7	አብይ ገብረ	የሥራ ኃላፊ	



- ተገልጾ የሚሆኑት አካባቢ ርዳታ ገለጻ ያለውን ማህበራዊ ጉዳዮች ላይ ተፅዕኖ ሊሰጥ ይችላል።
- ስለ ሚዛኑን ተፅዕኖ ዝርዝር ጥያቄ ተሟላ የተፅዕኖ ሪፖርት ማድረግ አለብን።
- የአዲስ አበባ አስተዳደር አገልግሎት ማሻሻያ ማድረግ ማለት ማለት ማህበራዊ ጉዳዮች ላይ ተፅዕኖ ሊሰጥ ይችላል።
- ሌሎች የሚገኙ ጥያቄዎች ለአዲስ አበባ ግንባታ ማሻሻያ ማድረግ ማለት ማለት ማህበራዊ ጉዳዮች ላይ ተፅዕኖ ሊሰጥ ይችላል።
- ተጨማሪ የአገልግሎት ማሻሻያ ማድረግ ማለት ማለት ማህበራዊ ጉዳዮች ላይ ተፅዕኖ ሊሰጥ ይችላል።
- ሀገራዊ የሥራ ማሻሻያ ማድረግ ማለት ማለት ማህበራዊ ጉዳዮች ላይ ተፅዕኖ ሊሰጥ ይችላል።

ለ-11-10 8:30 ተጀምሮ 10.20 ተጠናቋል።

The block contains several handwritten signatures in blue ink. To the right, there is a circular purple stamp with Amharic text and a central emblem. A small square stamp is also visible above the circular one.

Annex 6-2: Minutes of Consultation Meeting Carried out with Officials of Kirkos Sub-city and Affected Woredas on July 5, 2018

በአዲስ አበባ ከተማ አስተዳደር
የቂርቆስ ክ/ከተማ አስተዳደር
ጽ/ቤት



City Government of Addis Ababa
Kirkos Sub- City Administration
Office chife Executive Office

ቁጥር ቂ/ክ/ከ/ዋስ-1/2489/2010

ቀን 29/10/2010

ለኢትዮጵያ ኤሌክትሪክ ኃይል

አዲስ አበባ ፣

ጉዳዩ:- ቃለ ጉባኤ ስለመላክ ፣

በርእሱ እንደተጠቀሰው የኤሌክትሪክ ኃይል ማከፋፈያ ጣቢያዎች የማስተላለፊያና ማሰራጫ መስመሮች ጥናት በተመለከተ በ28/10/2010 ዓ/ም የተደረገውን ቃለ ጉባኤ 4 ገጽ አያይዘን የላክን መሆናችንን እንገልጻለን።

ከሰላምታ ጋር

ጀማል ሣላህ መሀመድ
ዋና ሥራ አስፈጻሚ ጽ/ቤት ኃላፊ



የአዲስ አበባ የኤሌክትሪክ ሃይል መከፋፈያ ጣቢያዎች የማስተላለፍና ማሰራጨ
መስመሮች ማሻሻያና ማስፋፈያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

ከክፍለ-ከተማ አስተዳደርና ሴክተር መ/ቤት ተወካዮች ጋር የተደረገ ምክክር

ከክፍለ ከተማ ቂርቆስ ክ/ከተማ

ቀን ሐረ 28/2010 የስብሰባ ቦታ ፓላስ ህገፃ ገንባታ ጸሐፊ
ባያቶ - 9:00

1. የተሳታፊዎች ዝርዝር

ተ.ቁ	የተሳታፊ ሙሉ ስም	የሥራ ኃላፊነት	ፊርማ
1	ገላው ሠላሠ	የዋና ሥራ አስፈጻሚ	
2	ሀይለማርያም ገብረ	የፋይናንስ/መ/ወ/ኃ/ግ/ገ/ገ	 0911550213
3	ዳንኤል ገብረ	የህዝብ ጠያቂ	 0913052183
4	ገብረ ገብረ	አካባቢ ጽ/ቤት	 0941288628
5	አበበ ገብረ	አካባቢ ጽ/ቤት	
6	አበበ ገብረ	አካባቢ ጽ/ቤት	 0912180526
7	ሀይለማርያም ገብረ	የሥራ ጽ/ቤት	 0913179761
8	ዳንኤል ገብረ	የሥራ ጽ/ቤት	 0912108604
9	ተመሳሳይ ገብረ	የአካባቢ ጽ/ቤት	
10	አበበ ገብረ	"	
11	አበበ ገብረ	የአካባቢ ጽ/ቤት	



የአዲስ አበባ የኤሌክትሪክ ሃይል ማስተላለፊያ ጣቢያዎች የማስተላለፊያና ማሰራጨጫ መስመሮች ማሻሻያና ማስፋፊያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

ከክፍለ-ከተማና ወረዳ አስተዳደር እና ሴክተር መ/ቤት ተወካዮች ጋር የተደረገ ምክክር የኤሌክትሪክ ሃይል ማስተላለፊያ ጣቢያዎች ማሻሻያና ማስፋፊያ ፕሮጀክት ላይ የሚገኙትን ጥቅም እና ጉዳት ለማሰባሰብና ለመፍታት የሚያስፈልጉትን ጥረት ማድረግ ይገባል።

የሀገርን የኤሌክትሪክ ሃይል ማስተላለፊያ ጣቢያዎች ማሻሻያና ማስፋፊያ ፕሮጀክት ላይ የሚገኙትን ጥቅም እና ጉዳት ለማሰባሰብና ለመፍታት የሚያስፈልጉትን ጥረት ማድረግ ይገባል።



የሀገርን የኤሌክትሪክ ሃይል ማስተላለፊያ ጣቢያዎች ማሻሻያና ማስፋፊያ ፕሮጀክት ላይ የሚገኙትን ጥቅም እና ጉዳት ለማሰባሰብና ለመፍታት የሚያስፈልጉትን ጥረት ማድረግ ይገባል።

**Annex 6-5: Minutes of the Meeting undertaken with Officials of Woreda 06 of Nifas Silk
Lafto Sub-city on April 12, 2018**

የአዲስ አበባ የኤልክትሪክ ሃይል ማስተላለፊያ ጣቢያዎች የማስተላለፊያና ማሰራጨጫ መስመሮች ማሻሻያና ማስፋፊያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

ከወረዳ አስተዳደርና ሴክተር መ/ቤት ተወካዮች ጋር የተደረገ ምክክር

ክፍለ ከተማ ንፋስ ስብሰባ ወረዳ ወረዳ 6

ቀን ጁን 04/2010 የስብሰባ ቦታ ወረዳ 6 አስተዳደር ዳ/ቤት

1. የተሳታፊዎች ዝርዝር

ተ.ቁ	የተሳታፊ ሙሉ ስም	የሥራ ኃላፊነት	ፊርማ
1	ፀጋዬ ግሮላዳ	የግዴታ ምክር ቤቅ ሥራ አስፈጻሚ	
2	አብነት ገብረ	የፖሊስ ኃላፊ	
3	ተሰጋግሮ ደብረ	የአገልግሎት ፍርድ ቤት ሥራ አስፈጻሚ	
4	ደግሞ አሰጣጥ	የግብርና ሥራ አስፈጻሚ	
5	ገብረ ገብረ	የግብርና ሥራ አስፈጻሚ	
6	ገብረ ገብረ	የግብርና ሥራ አስፈጻሚ	



የአዲስ አበባ የኤልክትሪክ ሃይል ማከፋፈያ ጣቢያዎች የማስተላለፍና ማሰራጨ መስመሮች ማሻሻያና ማስፋፈያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

ከወረዳ አስተዳደርና ሴክተር መ/ቤት ተወካዮች ጋር የተደረገ ምክክር

2. የመወያየት ጥቦች

1. ስለ ፕሮጀክቱ ያለቸው አጠቃላይ መረጃ
2. ተወሳሪ የፕሮጀክት ልምድ
3. ፕሮጀክቱ የሚያስፈልገው ተፅዕኖ
4. ጠባሪዎች የአካባቢን የሚጠቀሙ ሃሳቦች
5. ሌሎች ጉዳዮች

3. የተሰጡ አስተያየቶች

ከሁሉም አካባቢ ፕሮጀክት ግንባታ ለሁሉም ሰዎች ለሁሉም የተለየ የሥራ አፈጻጸም ማድረግ ይገባል። ለፕሮጀክቱ ለማስፈጸም ለሁሉም ሰዎች ለሁሉም የተለየ የሥራ አፈጻጸም ማድረግ ይገባል።

ግንባታ ማድረግ ለሁሉም ሰዎች ለሁሉም የተለየ የሥራ አፈጻጸም ማድረግ ይገባል። ለፕሮጀክቱ ለማስፈጸም ለሁሉም ሰዎች ለሁሉም የተለየ የሥራ አፈጻጸም ማድረግ ይገባል።

የፕሮጀክቱ ማስፈጸም ለሁሉም ሰዎች ለሁሉም የተለየ የሥራ አፈጻጸም ማድረግ ይገባል። ለፕሮጀክቱ ለማስፈጸም ለሁሉም ሰዎች ለሁሉም የተለየ የሥራ አፈጻጸም ማድረግ ይገባል።

የፕሮጀክቱ ማስፈጸም ለሁሉም ሰዎች ለሁሉም የተለየ የሥራ አፈጻጸም ማድረግ ይገባል። ለፕሮጀክቱ ለማስፈጸም ለሁሉም ሰዎች ለሁሉም የተለየ የሥራ አፈጻጸም ማድረግ ይገባል።



**Annex 6-6: Minutes of the Meeting held with Officials of Woreda 11 of Nifas Silk Lafto SC
on April 12, 2018**

1

የአዲስ አበባ የኤልክትሪክ ሃይል ማከፋፈያ ጣቢያዎች የማስተላለፍና ማሰራጨጫ ስራዎች ማሻሻያና ማስፋፈያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

ከወረዳ አስተዳደርና ሴክተር ሙ/ቤት ተወካዮች ጋር የተደረገ ምክክር

ክፍለ ከተማ 34ላ ስልጣን ገፍቶ ወረዳ ወረዳ 11 አለተደር
ቀን 02/04/2018 ዓ.ም. የስብሰባ ቦታ ወረዳ አለተደር ዳ/ቤት

1. የተሳታፊዎች ዝርዝር

ተ.ቁ	የተሳታፊ ሙሉ ስም	የሥራ ኃላፊነት	ፊርማ
1.	ሞንግሎት - ያገረ	ባለ ስራ ኃላፊ	
2.	ፋጠኔ ተገላጅ	የ/አ/ማ/ገ/ገ/ገ/ገ	
3.	ሚካኤል ገብረ	የ/ገ/ገ/ገ/ገ/ገ/ገ/ገ	
4.	ገብረ ገብረ	የ/ገ/ገ/ገ/ገ/ገ/ገ/ገ	
5.	ገብረ ገብረ	የ/ገ/ገ/ገ/ገ/ገ/ገ/ገ	
6.	ተገላጅ ደራሲ	የ/ገ/ገ/ገ/ገ/ገ/ገ/ገ	

የወረዳ 11 አስተዳደር ጣቢያ
የአዲስ አበባ ከተማ አስተዳደር
Woreda 11 Administration Office
Addis Ababa City

የአዲስ አበባ የኤልክትሪክ ሃይል መከፋፈያ ጣቢያዎች የማስተላለፍና ማሰራጨ መስመሮች ማሻሻያና ማስፋፈያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

ከወረዳ አስተዳደርና ሴክተር መ/ቤት ተወካዮች ጋር የተደረገ ምክክር

- በዝርዝር ተጠያቂ አለፈረው ጠባቂ አካባቢ
- የጠለሎ የሥራ ጊዜ 30 ሰዓት ሆኖ ማስፈጸም
- ጠባቂ ሰዎች ከጊዜ ይቆያሉ። ነገር ግን ህጋዊነት የሌለው ስራ ስለሌለበት መሥሪያ ሠራተኛዎች ማገዝ አይቻልም።
- ለህጋዊ ተጠያቂ የሚለጠው የህዝብ ክፍያ የሚጠፋበትን ንብረት ቢተካ ለሰዎችም ለተግባርም ሳይሆን ገንዘብ ይጠይቃል።

የተጠቃሚዎች ሃሳብ

- ህጋዊነት የሌለው ተረፍቶቻቸው በመገንጠል ህዝብ ሠራተኛዎች ማገዝ ማለት የሚችል ሲሆን ለህጋዊነት አገልግሎት እንዲሰጡ ተረፍቶቻቸው ማገዝ አይቻልም።
- ለፕሮጀክቱ ግንባታ ሠራተኛዎች የሚያቀረቡት ተገዳሪ ግዴታ ማሟላት ለሰዎችም ለተግባርም ማገዝ አይቻልም።
- ለፕሮጀክቱ ግንባታ ሠራተኛዎች የሚያቀረቡት ተገዳሪ ግዴታ ማሟላት ለሰዎችም ለተግባርም ማገዝ አይቻልም።

የጠቃሚዎች ግንባታ ጊዜ 6:20 ሰዓት ሆኖ

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**Annex 6-7: Minutes of the Meeting conducted with Project Affected Communities at
Ketena 2 of Woreda 11 in Nifas Silk Lafto Sub-city on April 12, 2018**

የአዲስ አበባ የኤልክትሪክ ሃይል ማከፋፈያ ጣቢያዎች የማስተላለፍና ማሰራጨጫ መስመሮች ማሻሻያና ማስፋፈያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

ከአካባቢው ህብረተሰብ ጋር የተደረገ ምክክር

ክፍለ ከተማ 31ኛ 11 ወረዳ 11
ቀበሌ 2 የመንደር ስም ወገን 2
ቀን 04/08/2010 የስብሰባ ቦታ ወገን ወገን

1. የተሳታፊዎች ዝርዝር

ተ.ቁ	የተሳታፊ ሙሉ ስም	የሥራ ኃላፊነት	ምን ያህል ጊዜ እዚህ ሰፈር ኖሩ	ፊርማ
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Annex 6-8: Minutes of the Meeting held with Community Representatives of Woredas 5 & 6 of Kirkos Sub-city on July 10, 2018

የአዲስ አበባ የኤልክትሪክ ሃይል ማከፋፈያ ጣቢያዎች የማስተላለፍና ማሰራጨጫ መስመሮች ማሻሻያና ማከፋፈያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

አካባቢው ህብረተሰብ ጋር የተደረገ ምክክር

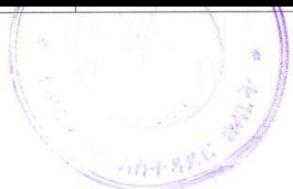
ክፍለ ከተማ ቂርቆስ ወረዳ አምስት ሻዮ ነድስት

ቀጠና _____ የመንደር ስም _____

ቀን ሰኔ 3/2018 የስብሰባ ቦታ በወንጌል ግድግዳ ስብሰባ ስራ ሰዓት: 4:00

1. የተሳታፊዎች ዝርዝር

ተ.ቁ	የተሳታፊ ሙሉ ስም	የሥራ ኃላፊነት	ምን ያህል ጊዜ እዚህ ሰፈር ኖሩ	ፊርማ
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የአዲስ አበባ የኤልክትሪክ ሃይል ማስተላለፊያ ጣቢያዎች የማስተላለፊያና ማሰራጨት መስመሮች ማሻሻያና ማስፋፊያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

አካባቢው ሀብት ጋር የተደረገ ምክክር

ፕሮጀክት ያለውን ጥር እንዲያሰጠው በሰጠው ደንብ መሰረት ማስፈጸሙን የሚጠይቅ ማህበራዊ ጥቅም ላይ የዋለውን ጥቅም ለማሳደግ ጋን ለጋን የአገልግሎት አለፍፍሮን ግንባራ እንዲሁም አለፍፍሮን ተለጽቷል።

ለኤልክትሪክ ሰጠው ጥር ጋን ለጋን ማስፈጸሙን የሚጠይቅ ማህበራዊ ጥቅም ላይ የዋለውን ጥቅም ለማሳደግ ጋን ለጋን የአገልግሎት አለፍፍሮን ግንባራ እንዲሁም አለፍፍሮን ተለጽቷል። ለጋን ለጋን የአገልግሎት አለፍፍሮን ግንባራ እንዲሁም አለፍፍሮን ተለጽቷል።

በተጨማሪም ለጋን ለጋን የአገልግሎት አለፍፍሮን ግንባራ እንዲሁም አለፍፍሮን ተለጽቷል። ለጋን ለጋን የአገልግሎት አለፍፍሮን ግንባራ እንዲሁም አለፍፍሮን ተለጽቷል።

ሌሎች ማህበራዊ ጥቅም ላይ የዋለውን ጥቅም ለማሳደግ ጋን ለጋን የአገልግሎት አለፍፍሮን ግንባራ እንዲሁም አለፍፍሮን ተለጽቷል። ለጋን ለጋን የአገልግሎት አለፍፍሮን ግንባራ እንዲሁም አለፍፍሮን ተለጽቷል።

ለጋን ለጋን የአገልግሎት አለፍፍሮን ግንባራ እንዲሁም አለፍፍሮን ተለጽቷል። ለጋን ለጋን የአገልግሎት አለፍፍሮን ግንባራ እንዲሁም አለፍፍሮን ተለጽቷል።

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31/11/2010

Annex 6-9: Minutes of the Meeting undertaken with Community Representatives of Ketean-06 (Cheri Village) of Woreda 07 of Akaki Kaliti Sub-city on April 11, 2018

የአዲስ አበባ የኤልክትሪክ ሃይል ማስተላለፊያ ጣቢያዎች የማስተላለፊያና ማሰራጨጫ መስመሮች ማሻሻያና ማስፋፊያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

አካባቢው ህብረተሰብ ጋር የተደረገ ምክክር

ክፍለ ከተማ አቀቁ ቃሊት ወረዳ 07
ቀጠና 6 የመንደር ስም ቤጌሮ
ቀን 3-8-2018 የስብሰባ ቦታ አቀቁ ሃይማኖት ማህበረሰብ

1. የተሳታፊዎች ዝርዝር

ተ.ቁ	የተሳታፊ ሙሉ ስም	የሥራ ኃላፊነት	ምን ያህል ጊዜ እዚህ ሰፈር ኖሩ	ፊርማ
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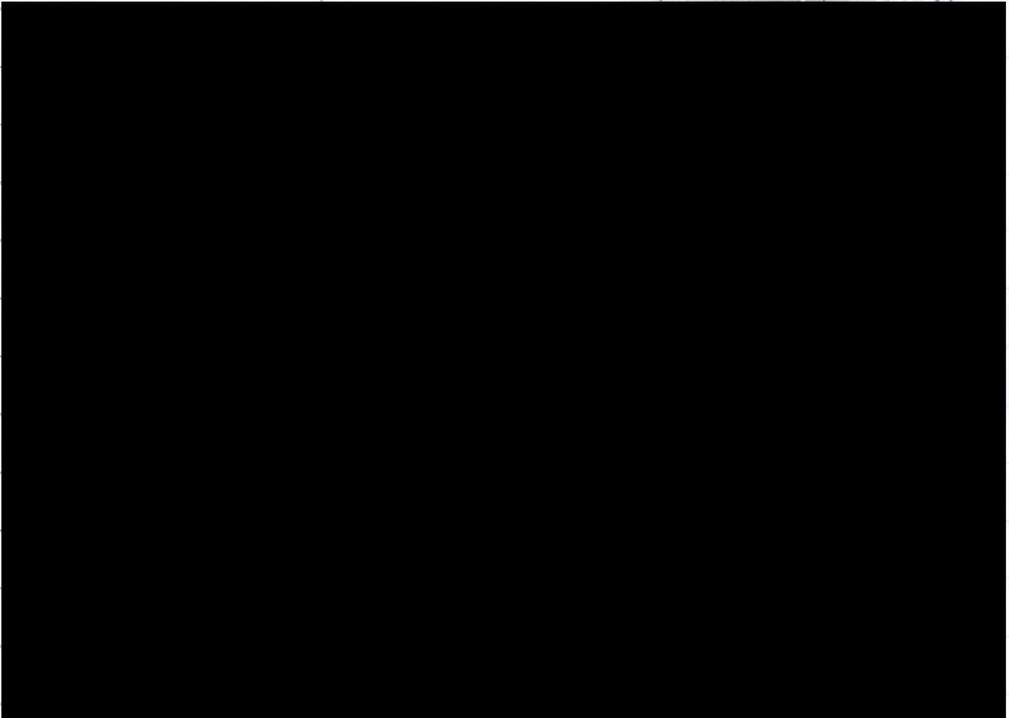
**Annex 6-10: Minutes of the Meeting undertaken with Community
Representatives of Ketena-5 (Wello Sefer) of Woreda 04 of Akaki Kaliti SC on
April 10, 2018**

የአዲስ አበባ የኤልክትሪክ ሃይል ማስተላለፊያ ጣቢያዎች የማስተላለፊያና ማሰራጨጫ መስመሮች ማሻሻያና ማስፋፊያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

ከአካባቢው ህብረተሰብ ጋር የተደረገ ምክክር

ክፍለ ከተማ ጊታታ ቀይቲ ወረዳ 04
ቀጠና 05 የመንደር ስም ሠታ ሠራዊት
ቀን _____ የስብሰባ ቦታ ዕድራ ቤት

1. የተሳታፊዎች ዝርዝር

ተ.ቁ	የተሳታፊ ሙሉ ስም	የሥራ ኃላፊነት	ምን ያህል ጊዜ እዚህ ሰፈር ኖሩ	ፊርማ
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**Annex 6-11: Minutes of the Meeting undertaken with Community
Representatives of Ketena-5 (Salo Mebrat Hail) of Woreda 04 of A. Kaliti SC
on April 10, 2018**

የአዲስ አበባ የኤልክትሪክ ሃይል ማከፋፈያ ጣቢያዎች የማስተላለፍና ማሰራጨጫ መስመሮች ማሻሻያና ማስፋፈያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

አካባቢው ህብረተሰብ ጋር የተደረገ ምክክር

ክፍለ ከተማ ጽባታ ታላቅ ወረዳ 04
ቀበሌ 05 የመንደር ስም 6 (ሃሎ ሙንህ) ሃይደል
ቀን 02/08/2018 የስብሰባ ቦታ ጽን ጳጳር ታ 7/02/05፣ ፻፲

1. የተሳታፊዎች ዝርዝር 15:00 - 16:30

ተ.ቁ	የተሳታፊ ሙሉ ስም	የሥራ ኃላፊነት	ምን ያህል ጊዜ እዚህ ሰፈር ኖሩ	ፊርማ
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የአዲስ አበባ የኤልክትሪክ ሃይል ማከፋፈያ ጣቢያዎች የማስተላለፍና ማሰራጨ
መስመሮች ማሻሻያና ማስፋፈያ ፕሮጀክት የአካባቢና ማህበራዊ ተጽዕኖ ግምገማ ጥናት

ከአካባቢው ሀብት ጋር የተደረገ ምክክር

2. የመወያየት ነጥቦች

1. አለ ንዕባኝነት መሆኑ
2. አለ ተጠቃሚ ንዕባኝነት ያለባቸው ድርጅቶች
3. አለ ንዕባኝነት ተፈጻሚዎች (አገልግሎት ለሌሎች)
4. ተጠቃሚዎች
5. መቆየት

3. የተሰጡ አስተያየቶች: ለመረጃና ማሻሻያ ጥረት

1. አጠቃላይ ንዕባኝነት መሆኑ ያገኘውን ጥያቄ ወይም ጥያቄው...
2. ማንኛውንም ዓይነት ጥያቄ ተጠቃሚ ያልተሰጠ ጥያቄ ሆኖ...
 ጥያቄው ለሌሎች ጥያቄዎች ለመሰጠት ያለውን ጥራት ያሳያል...
3. ጥያቄው ለሌሎች ጥያቄዎች ለመሰጠት ያለውን ጥራት ያሳያል...
 ጥያቄው ለሌሎች ጥያቄዎች ለመሰጠት ያለውን ጥራት ያሳያል...
 ጥያቄው ለሌሎች ጥያቄዎች ለመሰጠት ያለውን ጥራት ያሳያል...
4. ጥያቄው ለሌሎች ጥያቄዎች ለመሰጠት ያለውን ጥራት ያሳያል...
 ጥያቄው ለሌሎች ጥያቄዎች ለመሰጠት ያለውን ጥራት ያሳያል...
5. መቆየት:
 ጥያቄው ለሌሎች ጥያቄዎች ለመሰጠት ያለውን ጥራት ያሳያል...
 ጥያቄው ለሌሎች ጥያቄዎች ለመሰጠት ያለውን ጥራት ያሳያል...

Annex 6-12: Minutes of Consultation conducted with Officials of AAC Road Traffic Management Agency on June 26, 2018

የአዲስ አበባ የጎልጎል ሃይል ግንባራ ማረጋገጫ የግለሰብ ጥራት
ግብዓት መለመድ ግንባራ ግንባራ ፕሮጀክት የአካባቢ ጥ
ግብዓት ተፅዕኖ ግምገማ ትክክል

የአዲስ አበባ ጎልጎል ግብዓት ክፍለ ጋር የተደረገ
ግምገማ ታላ 7-7 ዓ.፡

ቀን ሰኔ 19/2010 ዓ.ም.
የአካባቢ ጥ - ክፍለ ጋር ግ/ጎልጎል ጋር ጋር
ሰዓት - 10:40
የተሳተፈው ዝርዝር

ተ.ተ.	ስም	የሥራ ገዢ	ስልክ	ፊርማ
1.	አቶ ሠንብታዊ	የጎልጎል ግብዓት	0935337587	
2.	ግንባራ ግብዓት	ጎልጎል ግብዓት	0911390537	
3.	ጎልጎል ግብዓት	ጎልጎል ግብዓት	0924321640	
4.	ተጠቃሚ ግብዓት	ፕሮጀክት ግንባራ	0912648297	
5.	ጎልጎል ግብዓት	ጎልጎል ግብዓት	0935401260	



የተገባሪ ወቅት እና የተለያዩ ስጦታዎች

የፕሮጀክቱ ስለውጭ-አገራዊ ግብርና ስለ ፕሮጀክቱ ለተለያዩ አገልግሎት ለሚሰጡ ስርዓቶች ስለሚገኙ የፕሮጀክቱ ወጪ እና መረጃ ስለ ፕሮጀክቱ የሚያስፈልገው መረጃዎች እና የፕሮጀክቱ ተገባሪ ለተለያዩ ግብረሰብ ቀርቧል። የሰነድ ተገባሪ ስለሆነ አገልግሎት ለሚሰጡ ስርዓቶች ስለሚገኙ የፕሮጀክቱ ወጪ እና መረጃ ስለ ፕሮጀክቱ የሚያስፈልገው መረጃዎች እና የፕሮጀክቱ ተገባሪ ለተለያዩ ግብረሰብ ቀርቧል።

ተገባሪ ወቅት

የአገልግሎት መስጫ ስርዓት ለመስጠት ወቅት ቀንሶ የተለየ የተገባሪ ወቅት ይኖራል።

- የገንዘብ ጥቅም ያለጋገጥ
- የአገልግሎት መስጫ ስርዓት ያለጋገጥ
- የገንዘብ ስጦታ ስርዓት ያለጋገጥ
- ለመስጫ ተገባሪዎች ስርዓት ያለጋገጥ
- ለአገልግሎት ስርዓት ያለጋገጥ
- መስጫ ስርዓት ለመስጫ ስርዓት ያለጋገጥ
- ለገንዘብ ስጦታ ስርዓት ያለጋገጥ

ቀንሶ የተገባሪ ወቅት ያለጋገጥ ለመስጫ ስርዓት

- (1)
- ስርዓት ስርዓት ስርዓት
 - ስርዓት ስርዓት ስርዓት
 - የገንዘብ ስጦታ ስርዓት
 - ስርዓት ስርዓት ስርዓት



ገንዘብ ስጦታ ስርዓት ስርዓት ስርዓት

- የገበያ ማሻሻያ ለጥገና ማሻሻያ ለውጥ ለማድረግ የሚያስፈልጉትን ማሻሻያዎች ማድረግ
- የአካባቢ ጥበቃ ለማድረግ ማሻሻያዎች ማድረግ
- የጥገና ማሻሻያ ለማድረግ ማሻሻያዎች ማድረግ
- የአካባቢ ጥበቃ ለማድረግ ማሻሻያዎች ማድረግ
- የጥገና ማሻሻያ ለማድረግ ማሻሻያዎች ማድረግ
- የአካባቢ ጥበቃ ለማድረግ ማሻሻያዎች ማድረግ
- የጥገና ማሻሻያ ለማድረግ ማሻሻያዎች ማድረግ
- የአካባቢ ጥበቃ ለማድረግ ማሻሻያዎች ማድረግ
- የጥገና ማሻሻያ ለማድረግ ማሻሻያዎች ማድረግ
- የአካባቢ ጥበቃ ለማድረግ ማሻሻያዎች ማድረግ

ለክፍል 11:30 ተጠቅሞ

የአካባቢ ጥበቃ

ገብረ

ገብረ

ገብረ



Annex 6-13: Minutes of Consultation held with Officials of AAC Roads Authority on July 3, 2018

ገንዘብ ስጠን መገንጠያ ገለጻልጠን ንጎረባባይ ጋር ስለ ስልጠና ስጠን
የክልል ገንዘብ ንጎረባባይ ማረጋገጫ ማረጋገጫ የሚሰጥ ማረጋገጫ
መለመድ ማረጋገጫ ማረጋገጫ ፕሮጀክት የአገልግሎት ማረጋገጫ ተጽዕኖ
ግምገማ ጽናት ለሚካሄድ የተካሄደ የምክርቤት ስጠን ቃል ገንጠ

ቀን - ሰኔ 26 ቀን 2018 ዓ.ም.
የገንዘብ ስጠን - የገንዘብ ማረጋገጫ የሚሰጥ ማረጋገጫ ንጎረባባይ ማረጋገጫ
ሰዓት - 4:00 ሳይከተል ጽ/ቤት
በገንዘብ ስጠን የተገኙ ንጎረባባይ ዝርዝር

ተ.ተ.	ስም	የሥራ ንጎረባባይ	ስልክ	ሬሳ
1	ዛብ ማሪ ማረጋገጫ	ዳይሬክቶር	0980368376	
2	ተስፋዬ ማረጋገጫ	ደ/ሥራ	0960368460	
3	ጋራክርብ ማረጋገጫ	የመ/ገ/ገ/ገ/ገ መ/ገ	0960368462	
4	ተመለኮ ጽ/ቤት	ለገንዘብ ስጠን ገንዘብ ስጠን	0912648297	
5	ገንዘብ ስጠን	የገንዘብ ስጠን ማረጋገጫ	0935401260	

አ/ር ማሪ ወደገህ
የገንዘብ ማረጋገጫ የሚሰጥ ማረጋገጫ
ደ/ሥራ ስጠን ስጠን
ዳይሬክቶር ሳይከተል

ANNEX 7: PHOTOS ILLUSTRATING STAKEHOLDER CONSULTATION MEETINGS



Figure 1: Consultation meeting held with officials of Akaki Kaliti Sub-city



Figure 2: Consultation conducted with officials of Nifas Silk Lafto Sub-city



Figure 3: Consultation meeting conducted with officials of Kirkos SC and project affected Woredas



Figure 4: Consultation meetings held with officials of Woreda 06 (left) and W. 11 (right) of NSL SC



Figure 5: Community consultations undertaken at Salo M. Hail & Wello Sefer villages of W. 04 of Akaki Kaliti SC



Figure 6: Community consultations conducted at Cheri village of W. 07 of Akaki Kaliti SC and Ketena 2 of W. 11 of Nifas Silk Lafto SC



Figure 7: Consultation meeting conducted with community representatives of Woredas 5 & 6 of Kirkos Sub-city

**ANNEX 8: PHOTOS ILLUSTRATING EXAMPLES OF PROPERTIES FOUND WITHIN
30M CORRIDOR OF OVERHEAD TL AND UNDERGROUND TL**



Figure 1: Houses found within 30m corridor of the section between Tower-51 & Tower-52 (Overhead TL)



Figure 2: A shop located within 30m corridor at between TR-43 & TR-44 (Overhead TL)



Figure 3: Residential houses found under the existing TL between TR-33 & TR-34



Figure 4: Houses found within 30m corridor of the section between TR-31 & TR-32 (Overhead TL)



Figure 5: A clinic & residential house located adjacent to TR-31 along main road (Overhead TL).



Figure 12: Well-developed green area at road median along the Black Lion - New Addis Centre underground TL at between Tower-6 & Tower-7

ANNEX 9: TERMS OF REFERENCE FOR ENVIRONMENTAL AND SOCIAL CONSIDERATIONS STUDY

Based on the findings of Initial Environmental Examination conducted earlier, the TOR for ESIA study of the proposed upgrading of overhead transmission line, construction of underground transmission lines and rehabilitation of medium voltage distribution lines has been defined as shown in the Table below.

Table: TOR for Environmental and Social Considerations Study for the Overhead Transmission Line, Underground Cables and Selected Distribution Lines

Item	Study Item	Methods
Pollution Control		
Air Quality	<ul style="list-style-type: none"> • Air quality standards applicable to the project • Baseline air quality of the project area and Addis Ababa city in general particularly air pollution level due to exhaust emissions from vehicular traffic and industrial establishments • Sensitive receptors such as residential & commercial areas, agricultural areas, social services, religious sites etc. 	<ul style="list-style-type: none"> • Review of existing air quality standards such as the Guidelines for Ambient Environment Standards for Ethiopia (EPA, August 2003) • Review of existing literature and data on ambient air quality of the project area and Addis Ababa city • Site surveys to identify existing sources of impacts on air quality and sensitive receptors such as residential & commercial areas, agricultural areas, social services etc.
Noise	<ul style="list-style-type: none"> • Noise standards applicable to the project • Current noise levels at project sites • Noise sensitive receptors in project impact area such as residential areas, commercial centres, social services, religious sites etc. 	<ul style="list-style-type: none"> • Site surveys to identify noise sensitive receptors (like public health units, schools, religious sites/ churches & mosques) in project impact zone • Review of existing noise standards such as EPA Guidelines for Ambient Environment Standards • Review of existing literature and data on ambient noise levels in the project area • Prediction of noise levels during the construction and operation stages of the TL.
Wastes	<ul style="list-style-type: none"> • The amount of surplus soil and construction wastes, and scrap metals generated from demolition of the existing towers 	<ul style="list-style-type: none"> • Review of existing literature and data • Consultation with key stakeholders such as EEP, EEU, AAC EPA on waste treatment methods

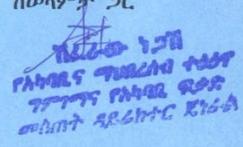
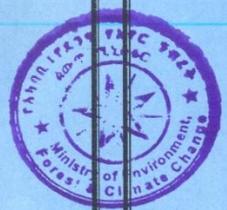
Item	Study Item	Methods
	<ul style="list-style-type: none"> Waste treatment methods 	<ul style="list-style-type: none"> Identification of waste treatment methods such as reusing and recycling of materials
Natural Environment		
Protected areas	<ul style="list-style-type: none"> Area of the protected forest (green area) between Towers 23 & 24, Diversity of flora and fauna in the protected forest Endemic and/or threatened flora and fauna in the area, Tree/other vegetation plantation areas/ 'green areas' along the proposed U/G TLs 	<ul style="list-style-type: none"> Collect existing data and literature on the protected forest and green areas in the PIZ from the EP & BPCDA offices of the affected sub-cities (NS Lafto, Kirokos, Bole) and any other sources, Survey of the forest area and the green areas by an Ecologist to identify habitat types and their flora and fauna composition, Determination of the endemicity and conservation status of the flora and fauna identified from the area through reference to existing literature on Ethiopian flora and fauna as well as reference to IUCN Red-List of Threatened Species.
Soil erosion	<ul style="list-style-type: none"> Soil types in the project area Current soil erosion situation Factors that can contribute to soil erosion Soil erosion prevention measures 	<ul style="list-style-type: none"> Review of existing literature and data Site survey to identify soil types, current soil erosion situation and factors that can contribute to soil erosion such as topography, land use & vegetation cover Collect and review climatic data including depth and distribution of rainfall with seasons
Ecosystem, flora, & fauna	Type and diversity of habitats, flora and fauna existing in the corridor of the transmission lines and selected feeders (distribution lines)	<ul style="list-style-type: none"> Site visit and survey of the habitats found along the transmission lines, feeders and surrounding areas, Review of existing literature and data Interviews of local people and local experts working in relevant offices at Woreda and Sub-city levels
Social Environment		
Resettlement	The number of people within the project impact zone mainly the 30m corridor of the overhead TL	Carry out a detail socio-economic study of the potentially affected people (PAP) by local consultant (ESSD Consultancy)

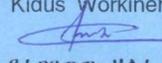
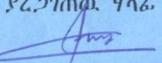
Item	Study Item	Methods
	and their socio-economic profile	
Economy, Employment & livelihoods	The economic activities and livelihood sources of the PAP	Part of the socio-economic study indicated above
Use of land and local resources	Area of land under various uses to be used by the project – land under houses & other structures, agricultural land, grazing land etc.	As above
Existing road infrastructure & community access	Types of existing and planned road infrastructure potentially affected by project activities	<ul style="list-style-type: none"> • Survey by local consultant • Consultation with key stakeholders such as AACRA, Sub-city & Woreda officials, and local community/PAP
Existing social infrastructure and services	Types of existing social infrastructure and services found within the project impact areas	<ul style="list-style-type: none"> • Survey by local consultant • Consultation with key stakeholders such as sub-city & woreda health & education offices; district water supply offices; and local community
Vulnerable groups and the poor	Identification of potentially affected vulnerable groups (female headed households, disable people, elders etc.) and the poor, and their socio-economic profile (sources of livelihood, income situation etc.)	Part of the socio-economic study of the PAP.
Infectious diseases (HIV/AIDS and other STIs)	Prevalence of HIV/AIDS and other STIs in the project area (woredas & sub-cities)	<ul style="list-style-type: none"> • Collect baseline data on HIV/AIDS and other STIs from project area woredas & sub-cities health offices or health units • Consultation with health officials & experts of SC & Woreda H. Offices, and NGOs working in the area

ANNEX 10: COMPETENCE CERTIFICATES AND CVS OF CONSULTANTS

Annex 10-1: Competence Certificates of ESSD Consultancy and the Consultants

(i) ESSD Consultancy – Consulting Firm in Level 1

 <p>ቁጥር : 11/1.1/2578/10 ቀን : 12/3/2010</p> <p>የብቃት ማረጋገጫ የምስክር ወረቀት</p> <p>የአካባቢ ጥገናና የአየር ንብረት ለውጥ ማኒጅመንትና ማስተካከያ ስራዎች ለማስፈጸም የሚያስፈልገውን ተፅዕኖ ግምገማ ጥናት የማሳካር አገልግሎት ለብቃት ማረጋገጫ ምስክር ወረቀት አሰጣጥ መመሪያ ቁጥር 03/2010 መሠረት ለ ኢ.ኤስ.ዲ አማካሪ በአካባቢና ማህበረሰብ ተፅዕኖ ጥናት የማሳካር አገልግሎት ዘርፍ በደረጃ 1 የአማካሪ ድርጅት ላይ የብቃት ማረጋገጫ ምስክር ወረቀት ስጥታል። የባለሙያዎቹ ዝርዝር ተያይዟል።</p> <p>ከሠላምታ ጋር</p>  	<p>Ref No : 11/1.1/2578/10 Date : 2014/2018</p> <p>CERTIFICATE OF COMPETENCE</p> <p>MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, BY VIRTUE OF THE POWER VESTED TO IT BY ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT COMPETENCE ISSUING DIRECTIVE NO 03/2017, HAS ISSUED THIS CERTIFICATE OF COMPETENCE TO. ESSD CONSULTANCY AS CONSULTANT IN ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT STUDIES AS A CONSULTING FIRM IN LEVEL 1. LIST OF EXPERTS ARE ANNEXED WITH THIS.</p> <p>WITH REGARDS</p>  <p>Shiferaw Negash Environmental & Social Assessment & Environment Licensing Director</p>
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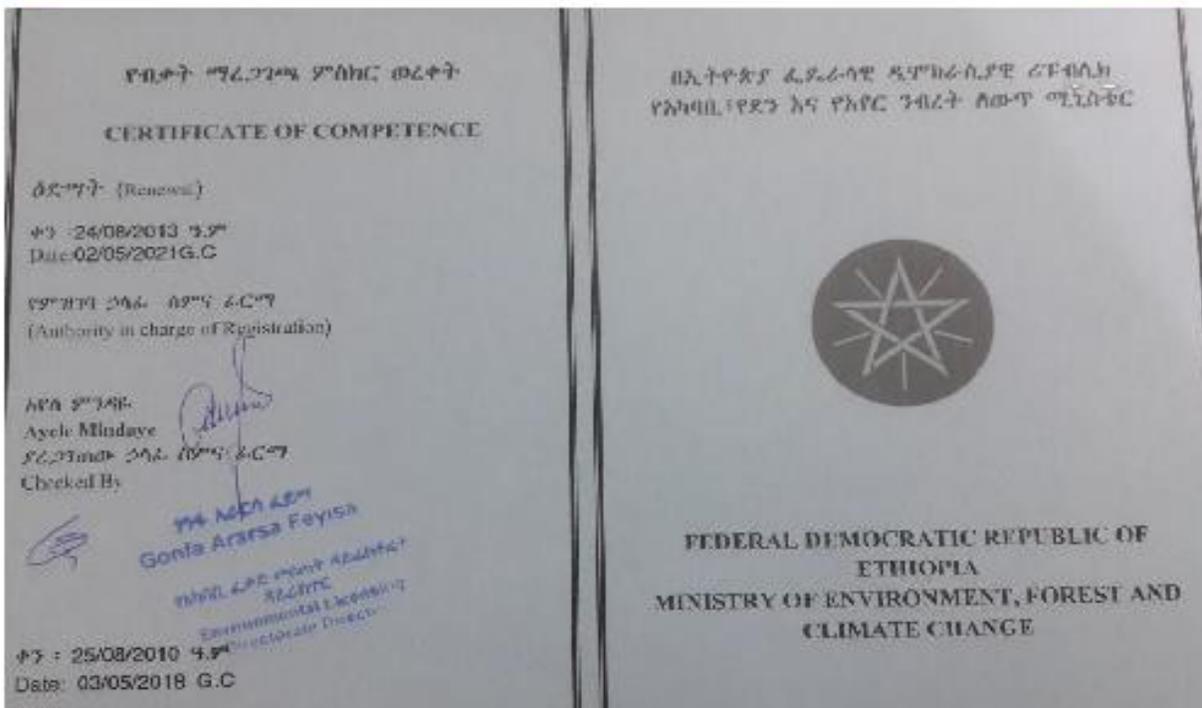
<p>የብቃት ማረጋገጫ ምስክር ወረቀት CERTIFICATE OF COMPETENCE</p> <p>ዕድገት (Renewal)</p> <p>ቀን : 10/08/2013 ዓ.ም Date: 18/04/2021 G.C ያዘጋጀው ባለሙያ ስምና ፊርማ Name & Signature ቅዱስ ወርቅነህ Kidus Workineh  ያረጋገጠው ሃላፊ ስም  የአካባቢ ፈቃድ እና ሙያ ብቃት ማረጋገጫ ዳይሬክቶሬት ዳይሬክተር ቀን : 11/08/2010 ዓ.ም Date: 19/04/2018 G.C</p>	<p>በኢትዮጵያ ፌዴራላዊ ዲሞክራሲያዊ ሪፑብሊክ የአካባቢ፣ ደንና የአየር ንብረት ለውጥ ማኒጅመንት</p>  <p>FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE.</p>
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(i) Arebo Sambi – Senior Consultant

 <p>ቁጥር : 11/11/2105/10 ቀን : 24/7/2010</p> <p>የብቃት ማረጋገጫ የምስክር ወረቀት</p> <p>የአካባቢ፣ የደንበኞች ጥያቄዎችን ለመሟላት የሚያስፈልገውን ምስክር ወረቀት አሰጣጥ መመሪያ ቁጥር 03/2010 መሠረት ለአቶ አረቦ ሳምቤ ጌጃም በአካባቢ እና ማህበረሰብ ተፅዕኖ ግምገማ ጥናት ዘርፍ ላይ የብዝሃ ሕይወትና የስርዓተ-ምህዳር ተንታኝ ባለሙያ እና የአካባቢ ብክለት ተንታኝ ባለሙያ የሚመዘኑ አገልግሎት ላይ ከፍተኛ አማካሪ የብቃት ማረጋገጫ ምስክር ወረቀት ስጥቷል።</p> <p>ከሰላምታ ጋር</p> <p><i>Shiferaw Negash</i> የአካባቢ፣ የደንበኞች ጥያቄዎችን ለመሟላት የሚያስፈልገውን ምስክር ወረቀት አሰጣጥ መመሪያ ቁጥር 03/2010 መሠረት ለአቶ አረቦ ሳምቤ ጌጃም በአካባቢ እና ማህበረሰብ ተፅዕኖ ግምገማ ጥናት ዘርፍ ላይ የብዝሃ ሕይወትና የስርዓተ-ምህዳር ተንታኝ ባለሙያ እና የአካባቢ ብክለት ተንታኝ ባለሙያ የሚመዘኑ አገልግሎት ላይ ከፍተኛ አማካሪ የብቃት ማረጋገጫ ምስክር ወረቀት ስጥቷል።</p>	<p>REF. NO : 11/11/2105/10 DATE : 24/7/2010</p> <p>CERTIFICATE OF COMPETENCE</p> <p>MINISTRY OF ENVIRONMENT FOREST AND CLIMATE CHANGE BY VIRTUE OF THE POWER VESTED TO IT BY ENVIRONMENTAL COMPETENCE ISSUING DIRECTIVE NO 03/2017, HAS ISSUED THIS CERTIFICATE OF COMPETENCE TO Mr. AREBO SAMBI GOJAM AS CONSULTANT IN ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT STUDIES AS BIODIVERSITY AND ECO SYSTEM ANALYST EXPERT AND AN ENVIRONMENTAL POLLUTION ANALYST EXPERT IN CATEGORY OF SENIOR CONSULTANT.</p> <p>WITH REGARDS</p> <p><i>Shiferaw Negash</i> Environmental & Social Impact Assessment & Environmental Licensing Director General</p>
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<p>የብቃት ማረጋገጫ ምስክር ወረቀት</p> <p>CERTIFICATE OF COMPETENCE</p> <p>ዕድገት (Renewal)</p> <p>ቀን : 23/07/2013 ዓ.ም Date: 01/04/2021 G.C</p> <p>የምዝገባ ኃላፊ ስምና ፊርማ (Authority in charge of Registration)</p> <p>አየላ ምንዳዩ Ayele Mindaye ያረጋገጠው ኃላፊ ስምና ፊርማ Checked By</p> <p><i>Gonfa Ararsa Feyisa</i> የአካባቢ ፈቃድ መስጠት ዳይሬክቶሬት Environmental Licensing Directorate Director</p> <p>ቀን : 24/07/2010 ዓ.ም Date: 02/04/2018 G.C</p>	<p>በኢትዮጵያ ፌዴራላዊ ዲሞክራሲያዊ ሪፐብሊክ የአካባቢ፣ የደንበኞች ጥያቄዎችን ለመሟላት የሚያስፈልገውን ምስክር ወረቀት አሰጣጥ መመሪያ ቁጥር 03/2017 መሠረት ለአቶ አረቦ ሳምቤ ጌጃም በአካባቢ እና ማህበረሰብ ተፅዕኖ ግምገማ ጥናት ዘርፍ ላይ የብዝሃ ሕይወትና የስርዓተ-ምህዳር ተንታኝ ባለሙያ እና የአካባቢ ብክለት ተንታኝ ባለሙያ የሚመዘኑ አገልግሎት ላይ ከፍተኛ አማካሪ የብቃት ማረጋገጫ ምስክር ወረቀት ስጥቷል።</p>  <p>FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE</p>
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(ii) Dr Ali Hassen – Senior Consultant/ Socio-economist



(iii) Zeleke Chafamo - Senior Consultant/Ecologist

The image displays four official documents arranged in a 2x2 grid. The top-left document is an Amharic certificate of competence issued by the Ministry of Environment and Forest, dated 13/11/02. The top-right document is an English translation of the same certificate, dated 24/07/2015, signed by Roman Kassahun. The bottom-left document is another Amharic certificate of competence, dated 24/10/07, also signed by Roman Kassahun. The bottom-right document is the official letterhead of the Ministry of Environment and Forest of Ethiopia, featuring the national emblem.

(iv) Temesgen Yimer - Senior Consultant/Sociologist

 <p>ቁጥር : 11/11/537/10 ተገ : 29/01/2018</p> <p>የብቃት ማረጋገጫ የምስክር ወረቀት</p> <p>የአየር ንብረት ልውጥ ሚኒስቴር በአካባቢ ዘርፍ የግንባራና ግንባራ ተፅዕኖ ግምገማ ጥናት የማምከር አገልግሎት ብቃት ማረጋገጫ ምስክር ወረቀት አልግቶ መመሪያ ቁጥር 03/2010 መሰረት ለአቶ ተመስገን ይመር ተሰማ በአካባቢ እና ማህበረሰብ ተፅዕኖ ግምገማ ጥናት ዘርፍ ላይ የማህበራዊ ጉዳዮች ተገታኝ ባለሙያ የማምከር አገልግሎት ላይ ክፍተኛ አማካሪ የብቃት ማረጋገጫ ምስክር ወረቀት ስጥቷል።</p> <p>ከሆላምታ ጋር</p>  <p>የአካባቢ እና ማህበረሰብ ተፅዕኖ ግምገማና የአካባቢ ፈቃድ መስጠት ዳይሬክተር ጆኔራል</p> 	<p>Ref No : 11/11/537/10 Date : 29/01/2018</p> <p>CERTIFICATE OF COMPETENCE</p> <p>MINISTRY OF ENVIRONMENT FOREST AND CLIMATE CHANGE BY VIRTUE OF THE POWER VESTED TO IT BY ENVIRONMENTAL COMPETENCE ISSUING DIRECTIVE NO 03/2017, HAS ISSUED THIS CERTIFICATE OF COMPETENCE TO MR. TEMESGEN YIMER TESSEMA AS CONSULTANT IN ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT STUDIES AS SOCIAL AFFAIRS ANALYST EXPERT IN CATEGORY OF SENIOR CONSULTANT.</p> <p>WITH REGARDS</p>  <p>Shiferaw Negash Environmental and Social Impact Assessment and Environmental Licensing Director General</p>
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<p>የብቃት ማረጋገጫ ምስክር ወረቀት</p> <p>CERTIFICATE OF COMPETENCE</p> <p>ፅድቅ (Renewal)</p> <p>ቀን : 20/05/2013 ዓ.ም Date: 28/01/2020 G.C</p> <p>የምዝገባ ኃላፊ ስምና ፊርማ (Authority in charge of Registration)</p> <p>አየሌ ምንዳይ Ayele Mindaye የረጋገጠው ኃላፊ ስምና ፊርማ Checked By</p>  <p>የዛ አረጋጋ Gonfa Ararsa Environmental and Social Licensing Director</p> <p>ቀን : 21/05/2010 ዓ.ም Date: 29/01/2018 G.C</p>	<p>በኢትዮጵያ ፌዴራላዊ ዲሞክራሲያዊ ሪፐብሊክ የአካባቢ፣ የደን እና የአየር ንብረት ልውጥ ሚኒስቴር</p>  <p>FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE</p>
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Annex 10-2: CVs of the Consultants

(i) CV of Arebo Sambi Gojam

1. Personal Information

Proposed Position:	Environmental Consultant/Team Leader
Name of Firm:	ESSD Consultancy
Name of Staff:	Arebo Sambi Gojam
Profession:	Environmentalist
Date of birth:	4 th November 1966
Nationality:	Ethiopian
Contact Address:	ESSD Consultancy Yeka Sub-city, Woreda 13, Ayat – Legatafo Road P.O. Box 110441, Addis Ababa Telephone 251-935 40 12 60, 251-118 60 1502 Email: essdconsult@gmail.com
Professional Societies:	Full member of the Biological Society of Ethiopia. Full member of the Environmental Society of Ethiopia.

2. Key Qualification

- Senior Environmental Consultant Certified by the Ministry of Environment, Forest and Climate Change
- MSc. in Environmental Science and Technology
- BSc. in Biology
- Certificate in Integrated River Basin Management
- Certificate in Water Quality Monitoring and Assessment
- Certificate in Control of Eutrophication of Lakes and Reservoirs.

Arebo Sambi has over twenty four years of experience in environmental management activities in Ethiopia. He has carried out Environmental Impact Assessment (EIA) studies for many projects in infrastructure (road, railway, airport & water supply), renewable energy (large scale hydropower dams & power transmission lines), agriculture (irrigation & drainage), oil & gas exploration & production, mineral exploration and industrial sectors. Several of these EIAs have been carried out in compliance with the World Bank and AfDB Environmental and Social Safeguard Policies and IFC Performance Standards on Environmental and Social Sustainability. His areas of expertise include baseline environmental surveys; project environmental impact assessment; development of mitigation, management and monitoring plans; conducting environmental monitoring/ auditing; conducting stakeholder engagement, and coordination of multi-disciplinary teams involved in ESIA studies.

His most recent projects and the major responsibilities held include the following:

March 2018 – To Date: Environmentalist & Team Leader – Conducted ESIA & coordinated ESIA Team for Study on Environmental and Social Impact Assessment on the Addis Ababa Transmission and Distribution System Rehabilitation and Upgrading Project with ESSD Consultancy & NEWJEC Inc. (of Japan) (Project about to complete).

Jan. 2017 – August 2018: Environmentalist – Conducted environmental performance monitoring for Lot 2: Meki - Zeway section of Modjo – Hawassa expressway construction project with Daewoo Engineering & Construction Co., Ltd (Ongoing project).

2014 – 2017 (intermittently): Environmentalist/EIA Specialist – Conducted EIA studies for 8 major road projects located in central, southern and northern parts of Ethiopia with various Consulting Firms and Road Construction Contractors.

July 2016 - Jan. 2016: Terrestrial Ecologist – Conducted survey of terrestrial ecology as part of the ESIA studies for proposed Natural Gas Pipeline (698km long) running from Calub/Hillala area of Ethiopian to Djibouti, with ESSD Consultancy & ERM China Ltd., sponsored by POLY-GCL Petroleum Investments Ltd.

March 2016 - May 2016: Environmentalist - Undertaken terrestrial ecology survey and stakeholder engagement as part of the ESIA study for Luna Animal Production, Feedlot and Outgrower Scheme located in Mieso Woreda of Ormia Region, with ESSD Consultancy & ERM East Africa Ltd., sponsored by Luna Export Slaughterhouse PLC.

Dec. 2015 - Feb. 2016: Terrestrial Ecologist - carried out ecological surveys and stakeholder engagement as part of the ESIA studies for a seismic survey in Blocks 3 & 4 and Blocks 17 & 20 and an exploration drilling operation in Block 4, with ESSD Consultancy & ERM East Africa Ltd., sponsored by POLY-GCL Petroleum Investments Ltd.

July 2015 - Sept. 2015: Terrestrial Ecologist - Carried out ecological surveys and stakeholder engagement (from federal level to community level) as part of the ESIA studies for drilling operations of two development wells in Hilala and Calub Blocks and three exploration wells in Blocks 11 & 15 and Blocks 12 & 16 with ESSD Consultancy & ERM East Africa Ltd., sponsored by POLY-GCL Petroleum Investments Ltd.

Feb. 2015 - Jun. 2015 (intermittently): Environmentalist – Carried out Initial Environmental Impact Assessment for 3 proposed alternative sites for a New Major Hub Airport Development in the Environ of Addis Ababa. This assessment was part of the site selection for the aforementioned project.

Jan. 2015 - Feb. 2015: Environmentalist/EIA Specialist – Conducted EIA study for groundwater based water supply and irrigation project in Tana Sub-basin, sponsored by the Ministry of Water, Irrigation and Energy.

April 2014 - March 2015 (intermittently): Environmentalist & Team Leader - Conducted environmental monitoring/ audit for Tullow Ethiopia B.V. Oil Exploration Sites in South Omo and Chew Bahir Areas with ESSD Consultancy, sponsored by Tullow Ethiopia BV.

Dec. 2013 - Jan. 2014: Terrestrial Ecologist - Carried out ecological surveys and project impact assessment as part of the ESIA Study for Sila Crest and Chereba exploration well drilling operation in South Omo Block/Weyto-Chew Bahir Basin with ESSD Consultancy & RSK Environment Ltd., sponsored by Tullow Ethiopia BV.

Oct. 2013 - Nov. 2013: Terrestrial Ecologist - Carried out ecological surveys and project impact assessment as part of the ESIA Study for Sila Flank 1 and 2B exploration wells drilling operation in Weyto-Chew Bahir Basin with ESSD & RSK Environment Ltd., sponsored by Tullow Ethiopia BV.

August 2013 - Sept. 2013: Terrestrial Ecologist - Conducted ecological surveys and project impact assessment as part of the ESIA study for Gardim exploration well drilling and associated infrastructures (30km long access road, borrow pit, well disposal site & campsite) located in Weyto-Chew Bahir Basin with ESSD & RSK Environment Ltd., sponsored by Tullow Ethiopia BV.

June 2013 - July 2013: Terrestrial Ecologist - Conducted ecological surveys as part of the ESIA study for the Rift Valley Block Seismic Survey Programme planned by African Oil Ethiopia BV with ESSD & ERM.

Feb. 2013 - April 2013: Terrestrial Ecologist - Carried out ecological surveys as part of the ESIA Study for Shimela exploration well drilling project in Weyto-Chew Bahir Basin with ESSD & RSK Environment Ltd., sponsored by Tulllow Ethiopia BV.

Dec. 2012 - Jan. 2013: Environmentalist/EIA Specialist - carried out baseline environmental surveys and environmental impact assessment as part of the ESIA study for Adigala Block Seismic Survey Program in Somali Regional State & Diredawa City Administration with ESSD Consultancy, sponsored by New Age Ethiopia Limited.

Nov. 2012: Terrestrial Ecologist - Conducted ecological surveys as part of the ESIA study for Seismic Survey Program in Lake Turkana Area in South Omo Block with ESSD & ERM, sponsored by Tulllow Ethiopia BV.

Dec. 2011 - Sept. 2013 (intermittently): Environmentalist & Team Leader - Conducted environmental and road safety performance monitoring for forty (40) road construction projects in southern and western parts of Ethiopia.

July. 2011 - Sept. 2011: Terrestrial Ecologist - carried out ecological surveys and impact assessment as part of the ESIA Study for El Kuran 3 Wells Exploration Drilling Project in Eth. Somali Region with ESSD and EACL of Uganda, sponsored by African Oil Ethiopia BV.

March 2011 - April 2011: Terrestrial Ecologist - Carried ecological surveys as part of the ESIA study for South Omo Block Seismic Survey Program with ESSD & ERM, sponsored by Tulllow Ethiopia BV.

In addition, Arebo has carried out environmental, ecological, and environmental health studies for integrated natural resources development master plan studies of a number of river basins in Ethiopia, water quality and pollution assessments and analyses in some river basins. Moreover, he is very familiar with ecological survey techniques including taxonomic identification of plant communities/ flora and fauna as well as identification and characterization of habitat types. Also he has developed a good management skill while working as an ESIA Team Leader or Coordinator for several projects.

3. Education

October 2003 – March 2005: Master of Science Degree in Environmental Science and Technology, UNESCO-IHE Institute for Water Education, The Netherlands.

September 1984 - July 1988: Bachelor of Science Degree in Biology, Addis Ababa University.

4. Special Training

December 25 2007 – January 6 2008 – *Introduction to Geographic Information System (GIS)*, Addis Ababa (organized by Water Works Design & Supervision Enterprise, WWDSE).

March 01 – June 30, 2005: Certificate – *On Line Course Integrated River Basin Management*, UNESCO-IHE Institute for Water Education, The Netherlands.

March 23 - April 3, 1992: Certificate - *GEMS/Water Workshop on Water Quality Monitoring and Assessment*, Arusha, Tanzania (Sponsored by the United Nations Environment Programme).

October 11-22, 1993: Certificate - *Regional Training Course on Practical Control of Eutrophication of Lakes and Reservoirs*, at UNEP Head Quarter, Nairobi, Kenya.

February 14-25, 1994: Certificate - *GEMS/Water Workshop on Analytical Quality Control for Water Quality Monitoring*, at Entebe, Uganda (Sponsored by UNEP).

March 14-25, 1994: *Training course on Environmental Impact Assessment, Addis Ababa (Sponsored by CIDA)*.

1995 - 1997: Certificates - *Computer Training (MS-DOS, LOTUS, WINDOWS, MICROSOFT WORD & EXCEL)*.

5. Employment Record

August 2009 – To Date	ESSD Consultancy as a Managing Director and Senior Environmental Consultant.
August 2008 – July 2009	Various Consulting Companies as a Freelance Environmental Consultant.
April 1998 – July 2008 –	Water Works Design and Supervision Enterprise as a Senior Environmentalist.
May 1996 – March 1998	Ministry of Water Resources as an Environment Group Leader and Senior Environmentalist.
April 1995 – July 1995	Oromia Region Natural Resources Development & Environmental Protection Bureau as a Senior Water Pollution Expert.
July 1993 – March 1995	Water Resources Development Authority as an Ecologist/ Environmentalist.
Oct. 1988 – June 1993	Ethiopian Valleys Development Studies Authority as a Biologist/Ecologist.

6. Details of Work Experience

**July 2016 -
Jan. 2016** ***Terrestrial Ecologist & Local Coordinator for conducting ESIA of POLY-GCL's Natural Gas Pipeline with ESSD Consultancy & ERM China Ltd.***

Conducted survey of terrestrial ecology and prepared ecological assessment report as part of the ESIA studies for proposed Natural Gas Pipeline (698km long) running from Calub/Hillala area of Ethiopian to Djibouti, with ESSD Consultancy & ERM China Ltd., sponsored by POLY-GCL Petroleum Investments Ltd. In addition, coordinated the tasks of other local experts involved in the same study.

**Dec. 2015 -
Feb. 2016** ***Terrestrial Ecologist & Local Coordinator for conducting ESIA of POLY-GCL's seismic survey in Blocks 3 & 4 and Blocks 17 & 20 and an exploration drilling operation in Block 4 with ESSD Consultancy & ERM East Africa Ltd.***

Carried out ecological surveys and stakeholder engagement and prepared ecological assessment and stakeholder engagement reports as part of the ESIA studies for a seismic survey in Blocks 3 & 4 and Blocks 17 & 20 and an exploration drilling operation in Block 4, with ESSD Consultancy & ERM East Africa Ltd.,

sponsored by POLY-GCL Petroleum Investments Ltd. Also coordinated the activities of other local experts involved in this ESIA study.

**July 2015 -
Sept. 2015**

Terrestrial Ecologist & Coordinator of Local Consultants for conducting ESIA of POLY-GCL's Drilling of Wells for Natural Gas Production and Exploration Wells in Blocks 11 & 15 and Blocks 12 & 16 in Ogaden Region with ESSD Consultancy & ERM East Africa Ltd.

Carried out ecological surveys and stakeholder engagement and prepared ecological assessment and stakeholder engagement reports as part of the ESIA studies for drilling operations of two development wells in Hilala and Calub Blocks and three exploration wells in Blocks 11 & 15 and Blocks 12 & 16 with ESSD Consultancy & ERM East Africa Ltd., sponsored by POLY-GCL Petroleum Investments Ltd. In addition, coordinated the activities of other local experts involved in this ESIA study.

**April 2014 -
March 2015**

Environmentalist & Coordinator for conducting environmental monitoring and sampling of Tullow Ethiopia B.V. Oil Exploration Sites in South Omo and Chew Bahir Areas with ESSD Consultancy.

Conducted environmental monitoring of four (4) Tullow Ethiopia B.V. Oil Exploration Sites in South Omo and Chew Bahir Areas in April-May, July, September and December-January (i.e. 4 round monitoring) and prepared an audit report for each phase.

**Dec. 2011 -
Sept. 2013**

Environmentalist & Team Leader for Environmental and Road Safety Performance Monitoring for the Southern Region Road Projects with CWCE & ESSD Consultancy

Worked as a Team Leader and Senior Environmentalist for the Environmental and Road Safety Performance Monitoring for the Southern Region Road Projects. The assignment includes baseline environmental survey for 40 road projects, preparation of monitoring plan and carrying out periodic environmental monitoring for 10 selected road projects.

**July 2012 -
Sept. 2012**

Coordinator & Stakeholder Engagement Specialist for ESIA of Sabisa-1 Well Exploration Drilling Project with CSIR of South Africa & ESSD Consultancy

Coordinated the tasks of experts involved in the the Environmental and Social Impact Assessment (ESIA) study for Sabisa-1 Well Exploration Drilling Project in South Omo Zone of Ethiopia and carried out stakeholder consultation process for the project.

**August 2011 -
October 2011**

Terrestrial Ecologist & Coordinator for ESIA of El Kuran 3 Wells Exploration Drilling Project with EAACL & ESSD Consultancy

Carried out ecological impact assessment as part of the Environmental and Social Impact Assessment (ESIA) study for El Kuran 3 Wells Drilling of Petroleum Exploration Project. This assignment included survey and description of habitats, flora and fauna within the project influence zone, assessment of the potential impacts of the envisaged drilling program on habitats, flora and fauna, and development of mitigation strategy.

In addition, he coordinated the activities of other experts involved in the ESIA study, and compiled the ESIA Report.

**January 2011 -
March 2011** ***Terrestrial Ecologist for South Omo Block Seismic Survey EIA Study with
Environmental Resources Management & ESSD Consultancy***

Undertaken ecological surveys as part of the ESIA study for the South Omo Block Seismic Survey Program. This task included identification and description of habitats and flora and fauna found within the survey area as well as assessment of the potential impacts of the planned seismic survey activities on habitats, flora and fauna. In addition, he coordinated the activities of other national staff involved in the ESIA.

**August 2010 -
Dec. 2010** ***EIA Specialist & Coordinator for ESIA Study of Mandaya and Beko-Abo
Hydropower Projects with Halcrow and GIRD as a Freelance Consultant***

Worked as an EIA Specialist and Coordinator of National Staff for ESIA Study of Mandaya and Beko-Abo Hydropower Projects (located on Blue Nile River), which were carried out by Halcrow and Generation Integrated Rural Development (GIRD) Consultants in association with COWI, Nepid Consultants and Southern Waters. This task included assessment of the potential environmental and social impacts of the proposed Mandaya and Beko-Abo Hydropower Projects and development of Environmental and Social Management Plan.

**May 2010 -
June 2010** ***Freelance Environmental Consultant with MID-Day
International Consulting Engineers***

Carried out Environmental and Social Impact Assessment (ESIA) Study of Afar Seismic Survey Program and produced an ESIA Report. The Seismic Survey Campaign was planned to be conducted by the Afar Exploration Company, LLC for which exploration rights has been awarded by the Ministry of Mines and Energy of Ethiopia.

**April 2010 -
May 2010** ***Individual Environmental Consultant for Jimma WSSP with Ministry of Water
Resources***

Conducted Environmental and Social Impact Assessment (ESIA) Study of Jimma Water Supply and Sanitation Project (WSSP) and produced an ESIA Report. The ESIA study included assessment of the existing water supply and sanitation situation of the town and its implication, baseline environmental and social condition of the project impact areas, analysis of potential environmental and social impacts of the planned WSSP, development of environmental mitigation, management and monitoring plan, and stakeholder consultation.

**Dec. 2009 -
March 2010** ***Team Leader for ESIA Study of Geba Hydropower Project with MID-Day
International Consulting Engineers***

Worked as a Team Leader for Environmental and Social Impact Assessment (ESIA) Study of Geba Hydroelectric Power Project, which has been carried out by the MID-Day International Consulting Engineers. This task included coordination of the field surveys, data collection and analysis, and report preparation by fourteen specialists, and finally producing an ESIA Report.

**May 1996 -
To Date**

***Environmental Consultant with Various Local as well as International
Consulting Companies***

Conducted environmental and social impact assessment studies for a wide range of projects including Road, Railway, Water Supply, Irrigation, Hydropower, Power Transmission Line and Oil Exploration Projects, and produced ESIA Report and ESMP for each of them. The major projects include the following:

- Bole – Abomsa & Bole-Waterdino Design and Build Road Project (with Eshetu lemma Road Construction Contractor), carried out in 2017);
- Modjo - Hawassa Design and Build Highway Project, Lot 1: Modjo - Meki (with Chain Railway Seventh Group (CRSG), carried out in 2016);
- Morocho-Dimtu-Bitena-Sodo Road Project, Lot 2: Bitena - Sodo in SNNP Region (with Hunan Huanda Road & Bridge Corporation (HHRBC), carried out in 2015);
- Jinka - Hana Road Project, Lot 2: Mendir - Hana in South Omo Zone (with Sinohydro Corporation Limited, carried out in 2015);
- Lebu - Akaki - IT Park Outer Ring Road Project (with China Communication Construction Company Limited, carried out in 2015)
- Korem - Sekota - Abi Adi Road Project in Northern Ethiopia (Tigray & Amhara NRSs) (with Yerer Consulting Engineers, carried out in 2014);
- Tanta - Gashana Road Project in Northern Ethiopia (with RAMA Consult, carried out in 2013/2014);
- Arba Minch - Weyto Road Project in Southern Ethiopia (with Yerer Consulting Engineers, conducted in 2013);
- Dima - Omorate Road Project in Southwestern Ethiopia (with Yerer Consulting Engineers, conducted in 2013);
- Debark - Buahit Road Project (89km, with Akir Construction PLC., carried out in 2011/12);
- Jimma - Chida Road Upgrading Project (80km, with Associated Engineering Consultants, carried out in 2011/12);
- Azezo – Gorgora Road Upgrading Project (54km, with Associated Engineering Consultants, carried out in 2011);
- Ambo - Woliso Road Upgrading Project (64km, with Associated Engineering Consultants, carried out in 2010 -2011);
- Kombolcha - Bati - Mille Road Upgrading Project (130km, with Associated Engineering Consultants, carried out in 2010);
- Gimbi - Alge Road Project (106km, with FINNROAD of Finland, carried out in 2009);
- Addis - Adama (Nazreth) New Highway Project (79.5km, with Scott Wilson of UK) (carried out during April - October 2008);
- Mieso - Diredawa - Dewelle Road Upgrading Project (370km, with Scott Wilson);
- Mekele - Abi Adi – Adwa Road Upgrading Project (184km, with Saba Engineering & COWI A/S);
- Hageremariam – Moyale Road Upgrading Project (300km, with Saba Engineering & COWI A/S);

- Addis - Adama Road Upgrading Project (90km, with Scott Wilson) (carried out during April - November 2006);
- Assosa-Daleti-Baruda Road Project (255km, with Core Consulting Engineers Plc.);
- Gedo - Finchaa Road Upgrading Project (142km, with Yerer Engineering Plc. & AFRICON);
- Seismic Data Acquisition Campaign in Ogaden Basin (with Yerer Engineering Plc. for Lundin East Africa BV);
- Seismic Data Acquisition Survey in Adigala area of Somalia Region (with Yerer Engineering Plc. for Lundin East Africa BV);
- Ankober - Aliyu Amba - Awash Arba Junction Road Project (98km, with Saba Engineering & FINNROAD);
- Awash-Dofen-Kassa Mender Road Project (350km, with Saba Eng. & FINNROAD);
- Sawla – Maji Road Project (206km, with Saba Eng. & FINNROAD);
- Gog – Akobo Road Project (197km, with Saba Eng. & FINNROAD);
- Yalo-Dalol Road Project (140km, with Saba Eng. & FINNROAD);
- Wukro - Adigrat - Zalambassa Road Project (100km, with Saba Eng. & COWI A/S);

Undertaken environmental monitoring of Arerti - Gobensa and Adigoshu - Lugdi road construction projects as part of the Supervision Consultancy with Core Consulting Engineers Plc.

**April 1998 -
July 2008**

Senior Environmentalist with the Water Works Design & Supervision Enterprise

Worked as a Senior Environmentalist with major responsibilities of carrying out environmental studies and preparation of environmental management plan for different water resource development projects that have been studied and/or designed by the Water Works Design & Supervision Enterprise (WWDSE). During the stay with WWDSE, carried out Environmental Assessment (EIA) or Initial Environmental Assessment (IEIA) study and prepared Environmental Impact Statement (EIS)/EIA Report for the following major water resource projects:

- Gilgel Gibe II, Dabus, Birbir, Didesa, Dawa & Jemma Hydropower Projects;
- Wolkayte Dam and Irrigation Project;
- Ada'a – Becho Groundwater Irrigation Project;
- Gololcha Dam and Irrigation Project;
- Erer Dam and Irrigation Project;
- Arjo Dedessa Dam and Irrigation Project;
- Welenchiti Bofa Irrigation Project;
- Elbayeh Irrigation Project;
- Harar Town Water Supply Project;
- Kibre Mengist & Shakiso Towns Water Supply Project
- Enjibara Town Water Supply Project; and

- Kemisse Town Water Supply Project.

Prepared a guideline for Environmental Impact Assessment of Water Resources Development Projects.

Conducted Environmental Assessment for a number of Small-scale Irrigation Projects (SSIPs) in Tigray, Amhara, Oromia and SNNP Regional States.

Undertaken Environmental Assessment for Rural Travel and Transport Program for four Woredas in Amhara, Tigray, Gambella and Benishangul Regional States.

Prepared Environmental Impact Assessment Procedure for Small Scale Irrigation (SSI) Development as part of the Operational Manual for the SSI Component, IFAD Special Country Programme – Phase II.

**May 1996 -
March 1998**

***Environment Group Leader and Senior Environmentalist with
the Ministry of Water Resources***

Carried out ecological study as part of environmental impact assessment for the Baro, Geba, Genale and Guder Hydropower Projects at pre-feasibility level and prepared Initial Environmental Assessment (IEA) Report for each of the project.

Coordinated the activities of local experts participated in the environmental impact assessment study of the Gojeb and Tekeze Hydropower Projects.

Conducted environmental impact assessment study for the Gojeb and Tekeze Hydropower Projects at pre-feasibility and feasibility levels, and prepared EIS in collaboration with environmentalists from Howard Humpherys of UK and Coyne & Bellier of France. The EIA studies also included assessment of the impacts of power transmission lines connecting the power stations to the national grid, access roads to the dam and campsites, and the Jima-Chida Road Diversion due to inundation by the reservoir to be created by dam construction.

Prepared a resettlement action plan (RAP) for the population to be displaced by the Gojeb Hydropower Plant Project.

**August 1995-
April 1996**

***Worked as Senior Water Pollution Expert with Oromia Region Agriculture
Development Bureau***

Study on the prospects for establishment of agro-industry at downstream of Aba Samuel Reservoir and its environmental effects (in East Shoa Zone, Oromiya Region, in the Upper Awash Basin).

**April 1995 -
July 1995**

***Worked as Senior Water Pollution Expert with Oromia Region Natural
Resources Development & Environmental Protection Bureau***

Water Pollution Assessment Study in the Upper Awash Basin, and prepared a technical report on state of water pollution and its environmental effects.

**July 1993-
March 1995**

***Worked as Ecologist/Environmentalist with the Former Water Resources
Development Authority***

Coordinated the activities of Environment Group of the Omo-Gibe River Basin Master Plan Project.

Worked as a counterpart to the Environment Group Leader (Consultant) of the Project and carried out environmental studies for Omo-Gibe River Basin Master Plan Development Study. The environmental studies covered all environmental components and issues such as ecology (habitat, vegetation & wildlife surveys), bio-diversity issues, deforestation, public and environmental health, water quality, land degradation, population pressure, social issues, and environmental issues related to dams and reservoirs and irrigation projects.

Carried out public and environmental health study for the Omo-Gibe River Basin.

**Oct. 1988 -
June 1993**

***Worked as Biologist/Ecologist with the Former Ethiopian Valleys
Development Studies Authority***

- Undertaken public and environmental health impact assessment studies for four medium scale irrigation projects (Selgie & Mechala in South Wello; Gelana in North Wello; and Ilala in Tigray);
- Conducted public and environmental health study for two river basin natural resources development master plan projects (Baro Akobo & Rift Valley Lakes Basins);
- Carried out ecological study for a river basin natural resources development master plan project (Baro Akobo Basin);
- Carried out bio-diversity studies for two river basin natural resources development master plan projects, and the National Report on Development and Environment;
- Undertaken water quality survey and analysis for Awash River and Rift Valley Lakes Basins; and

7. Languages

	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
<i>Amharic</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
<i>English</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
<i>Oromifa</i>	<i>Excellent</i>	<i>Good</i>	<i>Good</i>

8. Certification

I, the undersigned, certify that to the best of my knowledge and belief, these biodata correctly describe me, my qualifications, and my experience.

Name and Signature

Date: _____

Day/Month/Year

(ii) CV of Dr Ali Hassen Muhaba

1. Personal Information

Proposed Position:	Socio-economist
Name of Firm:	ESSD Consultancy
Name of Staff:	Ali Hassen Muhaba
Profession:	Sociologist, Senior Social Development Expert
Specialization:	Development Sociology
Date of birth:	7 th November 1966
Nationality:	Ethiopian
Contact Address:	P.O. Box 150378, Addis Ababa, Ethiopia Telephone 251-911 61 43 92, 251-118 60 1502 Email: hmuhaba@yahoo.com
Professional Societies:	Member of Ethiopian Society of Sociologists, Social Workers and Anthropologists (ESSWA).

2. Key Qualification

- Senior Consultant in Social Impact Assessment Certified by the Ethiopian Ministry of Environment, Forest and Climate Change
- PhD in Social Development
- MSc. in Regional and Local Development Studies
- BSc. in Sociology and Social Administration

Dr. Ali Hassen has an expertise in rural development issues, social impact assessment, rural institutions, food security, vulnerability to food crisis and socio-economic conditions of the rural communities of Ethiopia. In addition, he is fully conversant with interdisciplinary approaches, gender framework analysis, survey methods and tools (PRA/RRA & other conventional methods) and analytical techniques to assess and investigate project areas and eventual impact evaluation.

Dr. Ali has an extensive experience of over 23 years in sociological, gender issues and socioeconomic studies including social impact assessment of rural and urban development projects in Ethiopia. In particular, he has carried out studies on vulnerability to drought risk and famine, rural livelihoods, food security, rural women and a wide range of water resource development studies including socio-economic studies of River Basin Development Master Plan; feasibility and social impact assessment of irrigation and hydropower projects and project evaluation. During the course of all these studies, he has undertaken extensive socio-economic surveys of local communities and the social impact assessment of development projects, project impact evaluation, etc. He has worked on rural livelihoods, vulnerability to drought risk and famine, pastoralism and development. In addition, he has carried out Social Impact Assessment for a number of Hydroelectric power (like Geba & Gibe IV), Multipurpose Water Resources Development Study, River Basin Integrated Development Master Plan Study, mining, and irrigation projects as well as seismic survey programmes and well drilling projects as part of oil exploration and production activities.

3. Education, Short-Term Training and Languages

Education:

- PhD in Social Development, Bayreuth University, Germany, 2008
- 2nd Degree: MA in Regional and Local Development Studies, Addis Ababa University, 2000
- 1st Degree: BA in Sociology and Social Administration, Addis Ababa University, 1988.

Short-Term/Specialized Trainings:

No	Short-Term Courses, Workshops and Seminars Attended			
	Topics (Field of Study)	Institution	From	To
1	An Economic course on the Natural Resources and Water Resources	Ethiopian Valleys Development Studies Authority	Sept.9, 1992	Nov.26, 1992
2	Training course on "Social Analysis" (Gender Issues)	Canadian International Development Agency (CIDA)	February 15, 1994	February 18, 1994
3	Training course on Environmental Impact Assessment (EIA)	Canadian International Development Agency (CIDA)	March 14, 1994	March 18, 1994
4	Training on Rapid Rural Appraisal (RRA)	Netherlands Engineering Consultants (NEDECO-DHV)	March 18, 1996	29, 1996
5	Actual RRA field level training	Netherlands Engineering Consultants (NEDECO-DHV)	May 15, 1996	May 29, 1996
6	Computer training (Microsoft Word, Microsoft Excel; Introduction to GIS, Mapinfo)	Consultant hired by DPPC	May 1, 1997	May 28, 1997
7	National PRA workshop on "The Local People and Professionals Working Together for Sustainable Development"	Farm Africa Farmer's Research Project (FRP).	February 12, 1996	15 February 1996,
8	Workshop on "Urban Fields Development Project and Urban Reforms Issues"	Ministry of Works and Urban Development in collaboration with Amsterdam University	May 26, 1997	May 27, 1997
9	Workshop on "National Food Security Indicators Manual Development"	International Institute of Rural Construction (IIRR),	February 26, 1998	February 27, 1998
10	Workshop on "Employment Generation Schemes (EGS)"	Institutional Support Project (ISP), Save the Children (UK),	July 3, 1998	July 4, 1998
11	Quality Management System in Higher Education	International Centre for Advanced Mediterranean Agronomic Studies and CDS, Addis Ababa University	June 4, 2009	June 6, 2009

Languages:

	Speaking	Reading	Writing
<i>Amharic:</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
<i>English:</i>	Excellent	Excellent	Excellent

4. Employment Record

May 2008 to date:

Employer: College of Development Studies at Addis Ababa University.

Position Held: Assistant Professor

Courses Taught:

- (i) *Environmental Sociology and Ethics*; (ii) *Rural Poverty, vulnerability and Social Protection*,
(iii) *Vulnerability and Disaster Management*; (iv) *Development Theories, Perspectives and
Practices*; and (V) *Rural and Agricultural Development*

Research:

- *Review/Synthesis Report on Status of Pastoralism³ in Ethiopia (First Phase), ROSP Project, 2008.*

August 2004 -February 2008: *Study leave for PhD Study.*

January 2003-July 2004:

Employer: Institute of Development Research (IDR) at Addis Ababa University.

Position Held: Lecturer and Researcher

Courses Taught: *Rural Sociology; Introduction to Sociology.*

Research Reports:

- *Rural Women's Vulnerability to Famine/Food Crisis and Their Participation in Employment Generation Schemes: A Study in Three Weredas of South Wollo, Ethiopia*
- *An Overview of Indigenous Associations (IAs): Types, Characteristics and Functions. In IDR's Newsletter No.3.*

January 2002 – December 2002:

Employer: Metaferia Consulting Engineers PLC. (MCE)

Position Held: Senior Sociologist Consultant

Sept. 2000 – December 2001:

Employer: Disaster Prevention and Preparedness Commission (DPPC).

Position held: *Technical Assistant to Strengthening Emergency Response Ability (SERA) Project.*

Major Responsibilities:

- Coordinating the development of the vulnerability profiles in four regions (Tigray, Amhara, Oromia and SNNPR).
- Providing technical back to regional offices.
- Supporting Regional, Zonal and Woreda project offices.

³ Pastoral areas in Ethiopia include mainly Afar and Somali regions; Borena in Oromia region and parts of South West of Ethiopia.

- Organizing and conducting trainings, workshops, field visits and meetings with regional officials.
- Coordinating and managing financial, logistics, and other necessary facilities for the project.
- Reviewing and commenting reports on vulnerability profiles produced by regional project offices.
- Participating in preparation of TORs for in-depth research on chronic vulnerability.

Aug. 1997 – Sept. 1998:

Employer: *Policy, Planning and Program Department (i.e. Research Division) of DPPC.*

Positions Held: *Senior Sociologist*

Research Reports:

- *Project Proposal on Strengthening Emergency Responses Ability (SERA), DPPC, (Research Division).*
- *Indicators of Vulnerability to Disaster in Ethiopia: An Overview, DPPC (Research Division),*
- *Peasant Survival Strategy in Northern Ethiopia: The Case of Ten PAs, DPPC, (Research and Documentation Division).*

May - July 1997:

Employer: *Ministry of Water Resources (MoWR).*

Position Held: *Senior Sociologist, in Women's Affairs Department of the Ministry.*

Research Report:

- *Gender Issues Consideration in Water Resources Projects. Ministry of Water Resources.*

August 1994 – April 1997:

Employer: *Ministry of Water Resources (MoWR)*

Position Held: *Senior Sociologist for Tekeze River Basin Integrated Devt Master Plan Project.*

Project study Reports:

- *Socio-economic Study (Ethnic Groups, Religion and Languages) for Tekeze River Basin Integrated Development Master Plan Study Project, (Inception Report), WRDA.*
- *Study on "Land Tenure and Land Policy" for the Master Plan Preparation, Tekeze River Basin Integrated Development Master Plan Study Project, MoWR.*

September 1988 – July 1994:

Employer: *Ethiopian Valleys Development Studies Authority EVDSA)*

Position held: *Junior Sociologist, in Environmental Conservation Study and Research Desk*

Project study Reports:

- *Socio-economic study of Baro-Akobo River Basin Master Plan Project, Publication Number 28, EVDSA.*

- *Studies on “Population Displacement and Movement” and “Health, Quality of Life and Human Environment”*: - an input for the preparation of National Report on Environment and Development, EVDSA.
- *Environmental Impact Assessment (the social issues) of “Selgie” Medium Scale Irrigation Project at pre-feasibility level, in South Wello, EVDSA.*
- *Socio-ecological Issues in the Lower Omo Basin (an input for the Socio-economic & Environmental Studies) of Omo-Ghibe River Basin Integrated Development Master Plan Project, EVDSA.*
- *Study on Social Issues, Survey and Analysis of the Baro-Akobo Basin, EVDSA.*
- *Social Impact Assessment of “Gellana” Medium Scale Irrigation Project, in South Wello of Amhara Region, EVDSA.*
- *Social Feasibility Study of Proposed Sugar Plantation Development in Afar Region Site (Megenta); Oromia Site (Dedessa Valley) and SNNPR Site (Amaro).*

5. Research Works

List of Research Works				
Research Title	Sponsor	Duration	Output	Year
Formal and Informal Institutions: A Case of Eight PAs in Wag Hamera and North Wello Zones, Northern Ethiopia - Paper presented to the workshop on the Role of Indigenous Associations and Institutions in Development organized by the Ethiopian Society of Sociologists, Social Workers and Anthropologists (ESSWA)	Ethiopian Society of Sociologists , Social Workers and Anthropologists	2 months	Part of the workshop proceedings	1998
Female-Headed Households' Vulnerability and Their Participation in Employment Generation Schemes (EGS): A Case Study of Two Peasant Associations in Mekdela Wereda, South Wello	Addis Ababa University and SCF-UK	8 months	MA Thesis,	2000
An Overview of Indigenous Associations (IAs): Types, Characteristics and Functions. In IDR's Newsletter No.3.	Self	1 month	Article	2004
Rural Women's Vulnerability to Famine/Food Crisis and Their Participation in Employment Generation Schemes: A Study in Three Weredas of South Wollo, Ethiopia	OSSREA	1 year	Study report	2005
Vulnerability to Drought Risk and Famine: Local Responses and External Interventions among the Afar of Ethiopia, a study on the Aghini Pastoral Community.	The German Research Foundation (DFG)	3.8 years	PhD Dissertation	2008
Negatu, Workneh, GetachewKassa, NegussieDejene, DegefaTolossa, TesfayeTafesse and Ali Hassen (2010). Pastoralism in transition: Changing population	Oxfam_UK	1 year	Monograph	2010

and economies in Ethiopia. Oxfam-GB (monograph).				
Abinet Kebede, Workneh Negatu, Ali Hassen (2011) <i>Comparative analysis of vulnerability of pastoralism and agro-pastoralism to climate change: A case study in Yabelloworeda in Oromia region, Ethiopia</i> . Ethiopian Journal of Development, Vol...iusse, 2011	OSSREA	-	Article	2011
Reta Hailu and Ali Hassen (2012) <i>Livelihood Diversification among the Agricultural Land Scarce Peasants in the Central Highlands of Ethiopia</i> , International Journal of Agricultural Sciences, Research and Technology. Volume 2, issue 1, March 2012, pp.1-47.	-	-	Article	2012

6. Consultancy Works in Social Impact Assessments and Socio-economic Studies

Type of Assignment/Study	Organization	Output	Duration	Year
<i>Peasant Survival Strategy in Northern Ethiopia: The Case of Ten Peasant Associations</i>	Disaster Prevention and Preparedness Commission (DPPC), Research Division	Report	4 months	1998
<i>Sociological Study (Social Organizations, Education and Health Services, Gender, etc): An Input to Ethiopian Rural Travel and Transport Program Pilot Weredas Studies.</i>	Afro-Consult & Trading PLC and Ethiopian Roads Authority	Study report	4 months	2002
<i>Sociological Study, Wabi Shebele River Basin Integrated Development Master Plan Study Project (in Somali and Part of Oromia Region)</i>	Metaferia Consulting Engineers PLC (MCE) and Ministry of Water Resources.	Reconnaissance Report	8 months	2002
<i>Feasibility study of Medium Scale Irrigation</i>	Metaferia Consulting Engineers PLC (EMC) and Oromiya Region State	Social feasibility report	2 months	2002
<i>An assessment of Potentials of Indigenous Associations as a Vector for Development</i>	Agri-Service Ethiopia	Assessment Report	3 months	2003
<i>Evaluation of ERCS/IFRC Drought Operation in West Hararge and South Wello</i>	Ethiopian Red Cross Society	evaluation report	1 month	2004
<i>Review of Development Interventions in North Wollo (1970s -2000s).</i>	Ethiopian Orthodox Church, DICAC	Study/ Research Report	2 months	2009.

<i>Social Impact Assessment of the Geba Hydroelectric Project</i>	<i>Mid-Day International Consulting Engineers</i>	<i>Assessment Report</i>	<i>2 Months</i>	<i>2010</i>
<i>Social Impact Assessment of Allana/Dallol Potash Mining Project in Afar Regional State</i>	<i>ERM and TS Environmental Technology</i>	<i>Assessment Report</i>	<i>3 Months</i>	<i>2012/13</i>
<i>Social Impact Assessment of for Oil Exploration Project in South Omo, Ethiopia.</i>	<i>ESSD</i>	<i>Assessment Report</i>	<i>1 month</i>	<i>2013</i>
<i>Environmental and Social Impact Assessment of Road Project (Dallol to Tadjoura Port) commissioned by Allana Potash Project.</i>	<i>ERM and TS Environmental Technology</i>	<i>Screening and Scoping Report</i>	<i>25 days</i>	<i>May 2013</i>
<i>Social Impact Assessment of Yara Dallol BV. Potash Mining Project in Afar Regional State</i>	<i>ERM and TS Environmental Technology</i>	<i>Assessment Report</i>	<i>2 Months</i>	<i>2014</i>
<i>Screening and Scoping Study (ESHA) of Road Project (Dallol to Tadjoura Port) commissioned by Yara Dallol BV. Potash Project.</i>	<i>ERM and TS Environmental Technology</i>	<i>Screening and Scoping Report</i>	<i>1 month</i>	<i>August 2014</i>
<i>Social Impact Assessment of Corbetti Geothermal Energy Project</i>	<i>ERM and TS</i>	<i>Assessment & Stakeholders Engagement Report</i>	<i>15 days</i>	<i>February 2014</i>
<i>Socio-economic Reconnaissance and Social Impact Assessment. ASCOM Gold Mining Project at Dish Mountain in Woreda, Benishagul-Gumuz Regional State</i>	<i>TS Environment</i>	<i>Socioeconomic Baseline Report and Preliminary Impact assessment report.</i>	<i>2 moth</i>	<i>May, 2015</i>
<i>Social Impact Assessment of Calub Gas and Oil Exploration</i>	<i>POLY GCL oil and Gas Exploration Company and ERM</i>	<i>Social Baseline Study Report and Impact Assessment Report</i>	<i>2 months impute</i>	<i>July and August 2015</i>
<i>Social Development Study for Baro-Akobo-Sobat (BAS) Multipurpose Water Resources Development Study Project for ENTRO</i>	<i>BRL ingénierie, AURECON and Yerer Engineering</i>	<i>Social Issues and Strategic Social Impact Assessment (Inception Report and</i>	<i>3 Months</i>	<i>Since May 2015 (ongoing, for 2 years).</i>

		<i>Scoping Report submitted)</i>		
<i>Reconnaissance Socio Impact Assessment of Asela Wind Energy Farm</i>	<i>Mid-Day International Consulting Engineers</i>	<i>Reconnaissance/Scoping Report</i>	<i>1 month</i>	<i>November 2015</i>
<i>Gibe IV Hydroelectric Project</i>	<i>Mid-Day International Consulting Engineers</i>	<i>Socio-economic Aspect report for ESIA Study</i>	<i>2 months</i>	<i>Dec., 2015 & January 2016.</i>
<i>Luna Animal Fodder Production, Feedlot and Out-grower Scheme, in Meiso Woredas of West Hararghe Zone</i>	<i>ERM and ESSD Consulting Firms</i>	<i>Socio-Economic Baseline and Social Impact Assessment</i>	<i>1 Month</i>	<i>March-April, 2016</i>
<i>Socio-economic Baseline study for Natural Gas Pipeline Across Ethiopia</i>	<i>POLY GCL oil and Gas Exploration Company and ERM</i>	<i>Social Baseline Study Report</i>	<i>1 Month</i>	<i>September 2016</i>
<i>Social Impact Assessment and Stakeholder Engagement (Disclosure) for Natural Gas Pipeline Across Ethiopia</i>	<i>POLY GCL oil and Gas Exploration Company and ERM</i>	<i>Impact Assessment Results Report and Minutes of Stakeholders' Feedbacks</i>	<i>15 days</i>	<i>January 2017</i>
<i>Evaluation of Strengthen the resilience of Afar Agro-pastoralist communities to address food crises through access to water, agriculture production and risk prevention, in Afar region Ethiopia</i>	<i>YOM Development Institute</i>	<i>Project Evaluation Report</i>	<i>20 Days</i>	<i>July 2017</i>

7. Certification

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications and my experience. I understand that any willful misstatement herein may lead to my disqualification or dismissal, if engaged.

_____ Date: _____

[Signature of staff member or authorized representative of the staff] Day/Month/Year

_____ Date: _____

[Signature of authorized representative of the firm] Day/Month/Year

Full name of authorized representative: _____

(iii) CV of Zeleke Chafamo Shashore

1. Personal Information

Proposed Position:	Ecologist
Name of Firm:	ESSD Consultancy
Name of Staff:	Zeleke Chafamo Shashore
Profession:	Environmental/ Ecologist
Date of birth:	20 th Feb. 1965
Nationality:	Ethiopian
Contact Address:	Addis Ababa, Bole sub city, House No. 6147 Tel. Residence 251-11-6291250 (Home); Mobile 251-911448259 E-mail: zelekec@yahoo.com

2. Key Qualification

- Senior Consultant Certified by the Ministry of Environment, Forest and Climate Change
- MSc. in Environmental System Analysis and Monitoring
- BSc. in Biology
- Certificate in Environmental Management of Regional Drainage Basin
- Certificate in Data Analysis for Natural Resource Management from Regional Center for Mapping of Resources for Development
- Certificate in Practical Control of Eutrophication of Lakes and Reservoirs.

Zeleke Chafamo has over 26 years of experience in environmental studies in different parts of Ethiopia. He has carried out Environmental Impact Assessment (EIA) studies for many projects in renewable energy (mainly hydropower projects), irrigation, water supply, road development and oil exploration projects, and prepared ESIA reports for each project. He also has involved in the preparation of Resettlement Action Plan (RAP) for several projects. A number of the ESIA studies have been carried out in compliance with the World Bank, IFC or AfDB Environmental and Social Safeguard Policies. His areas of expertise include baseline environmental surveys, project environmental impact assessment and development of mitigation, management and monitoring plans, conducting stakeholder engagement, and coordination of multi-disciplinary teams involved in ESIA studies.

3. Education

- **M.Sc.** in Environmental System Analysis and Monitoring from International Institute for Aero Space Survey and Earth Science, Netherlands, 1994 – 1996.
- **B.Sc.**, in Biology from Addis Ababa University, Ethiopia, 1984 – 1987
- **Certificate** in environmental management of regional drainage basin II from Hokkaidou University and city of Obihiro, Japan (May 9, 2005 to July 22, 2005)
- **Certificate** in Practical Control of Eutrophication of Lakes and Reservoirs from United Nations Environmental Programme, Nairobi, Kenya (Oct. 11-22, 1993)

- **Certificate** in Data Analysis for Natural Resource Management from Regional Center for Mapping of Resources for Development (Nairobi, Kenya), 12th Nov. 2001 to 23rd Nov. 2001
- Attended training course on the application of Isotope techniques in Hydrology and Hydrogeology (June 5 - July 5, 2000) Viena, Austria.

4. Employment Record:

Jan 2018 to Date:

Employer: ESSD Consultancy
Position held Ecologist (Intermittent Consultant)
Location of Assignment Addis Ababa, Ethiopia

Jan 20/2017 to Dec. 2017:

Employer: SMEC International
Position held Environmentalist (Intermittent Freelance Consultant)
Location of Assignment Komadugu Yobe Basin, Nigeria

Jan 2014 to Dec 2017

Employer: BRL in cooperation with Yerer Engineering
Positions Held: Environmentalist
Location of Assignment Ethiopia and South Sudan

Jan. 2015 to Jan 20/2017

Employer: International Consultants and Technocrats Private Limited Company, Addis Ababa, Ethiopia
Positions Held: Environmentalist
Location of assignment: Addis Ababa and various project sites in Ethiopia

Nov. 2013 to Dec. 31/2014

Employer: Tullow Oil Business Venture
Positions Held: Environmental Advisor
Location of assignment: Addis Ababa, intermittently field visit to South Omo oil exploration site

Feb. 2006 to Nov 2013

Employer: International Consultants and Technocrats Private Limited Company, Addis Ababa, Ethiopia
Positions Held: Environmentalist
Location of assignment: Addis Ababa and various project sites in Ethiopia

Jan. 2004 to Jan. 2006

Employer: Ministry of Water Resources
Positions Held: Water Quality Management Expert
Location of assignment: Addis Ababa and various project sites in Ethiopia

Sep., 2002 to Dec. 2004

Employer: Ministry Of Water Resources
Positions Held: Environmental Team Leader
Location of assignment: Addis Ababa

Mar 1996 to Sep. 2002

Employer: Ministry Of Water Resources
Positions Held: Environmentalist
Location of assignment: Addis Ababa and various project sites in Ethiopia

Sep. 1994 to Apr. 1996

Pursued Post-Graduate Study (M. Sc) In Environmental System Analysis and Monitoring in ITC, Netherlands.

Jan. 1993: To Dec. 1993

Employer: Ministry of Water Resources
Positions Held: Environmentalist

Jan. 1987: To Dec. 1992

Employer: Water Resources Authority
Positions Held: Biologist
Location of assignment: Addis Ababa, Water and Soil Laboratory

5. Details of Work Experience

Zelege has conducted environmental assessments for over 40 different development projects in various parts of Ethiopia and some of them are indicated below.

1. *Name of assignment:* Preparation of SSEA and ESIA for the Strategic Action Plan Development of Water Resources in the Komadugu Yobe Basin, Nigeria.

Year: 2017/2018

Location: Komadugu Yobe Basin, Nigeria

Main Consultant: SMEC International

2. *Name of assignment or project:* Preparation of SSEA for Baro-Akobo-Sobat Multi-Purpose Water Resources Development Studies, in South Sudan and Ethiopia, With BRL and Yerrer Engineering

Year: 2016/2017

Location: South Sudan and Ethiopia

Client: ENTRO (Eastern Nile Technical Regional Office under Nile Basin Initiative)

Main Consultant: BRL

Main project features: Baro Akobo Sobat Multipurpose Water Resources Development Study

Positions held: Environmentalist

Activities performed: Assessment of Biophysical Environment of the Basin, assessment of project alternatives, Conduct ESIA for the selected short term projects together with social expert, Preparation of EMP for priority projects.

3. *Name of assignment or project:* Kombolcha-Bati-Mile Road Construction Project

Year: 2015/2016

Location: Amhara Regional State, Ethiopia

Client: ERA

Main Consultant ICT

Main project features: Upgrading the existing road into Asphalt concrete

Positions held: Environmentalist

Activities performed: Review and evaluation of contractor's ESMP, follow up the implementation of proposed mitigation measures and commitments specified in the ESMP; Conducted environmental monitoring of the road construction, and prepared monthly and quarterly environmental and safety implementation progress reports.

4. *Name of assignment or project:* Bonga-Mizan Road construction project

Year: 2010-2016

Location: South Nations and Nationalities Regional State, Ethiopia

Client: ERA

Main consultant ICT

Main project features: Upgrading the existing gravel road into Asphalt concrete

Positions held: Environmentalist

Activities performed: Review and evaluation of contractor's ESMP, follow up the implementation of proposed mitigation measures and commitments specified in the ESMP; Conducted environmental monitoring of the road construction, and prepared monthly and quarterly environmental and safety implementation progress reports.

5. *Name of assignment or project:* ESIA study of Gibe IV Hydropower Project

Year: 2015

Location: Southern Nations Nationalities and People Regional State

Main Consultant Mid-Day International Consulting Engineers

Client: EEP

Main project features: The project is a hydropower project planned to generate 2,160 MW electricity.

Positions held: Water quality expert

Activities performed: Conducted water quality analysis of the main and tributary rivers. Established baseline water quality data of main and tributary rivers entering into the proposed reservoir. Collected and assessed the baseline water quality data at the upstream, at the proposed reservoir and downstream of the reservoir. Estimated greenhouse gas emission during the dam construction and operation phases and its impact on global warming and climate change. Assessed eutrophication

status of the reservoir and prepare water quality management and monitoring plan.

6. *Name of assignment or project:* Oil Exploration in South Omo

Year: 2014

Location: South Omo zone, Ethiopia

Client: Tullow Ethiopia Business Venture

Main project features: Oil Exploration Well Drilling

Positions held: Environmental Advisor

Activities performed: Review and evaluation of ESIA reports; tracking ESMP action trackers; follow up of the implementation of mitigation measures and commitments specified in the ESIA reports; conducted environmental audit on subcontractors' ESMP; prepared quarterly environmental, health and safety implementation progress reports.

7. *Name of assignment or project:* Bishoftu Town Liquid Waste Management Project

Year: 2013

Location: Bishoftu, Ethiopia

Main Consultant: Zenas Engineering PLC

Client: Bishoftu Town municipality in collaboration with World Bank and Ministry of Urban Development and construction

Main project features: Design of liquid waste water treatment system and waste management plan

Positions held: Environmentalist

Activities performed: Reviewing EIA policies and strategies of the country and World Bank, assessing environmental and social impacts of the waste treatment system. Identifying adverse impacts and proposing mitigation measures for negative impacts and enhancement measures for positive impacts; and preparation of environmental management and monitoring plan that to be implemented during the construction and operation phases of the project.

8. *Name of project:* Gondar City Medium and Long Term Water Supply and Sanitation Project

Year: 2012

Location: Gondar, Ethiopia

Main Consultant: Geomatics consultants

Client: Gondar city Water supply and sanitation Enterprise

Main project features: Developing ground water, designing and construction of transmission and water distribution pipe lines and construction of water storage structures.

Positions held: Environmentalist

Activities performed: Reviewing EIA policies and strategies of the country and World Bank, assessing environmental and social impacts of the water supply project. Identifying adverse impacts and proposing mitigation measures for negative impacts and enhancement measures for positive impacts; and preparation of environmental

management and monitoring plan that to be implemented during the construction and operation phases of the project.

9. Name of assignment: ESIA study of Grand Renaissance Hydropower Project

Year: March 2011 –Jan. 2012

Location: Benishangul Gumuz

Main Consultant: *Mid-Day International Consulting Engineers*

Client: EEPCO

Main project features: The project is a hydropower project planned to generate 6000 MW electricity.

Positions held: Water quality expert

Activities performed: *Conduct water quality of the Renaissance Dam. Estimate green house gas emission during the Dam construction and operation phases and its impact on global warming and climate change. Predict salt concentration of the reservoir. Assess eutrophication status of the reservoir and prepare water quality management and monitoring plan.*

10. Name of assignment: Environmental and Social Impact Assessment of Geba Hydropower Project

Year: Jan. 2010 –Jun. 2010

Location: Oromia Region

Main Consultant: *Mid-Day International Consulting Engineers*

Client: EEPCO

Main project features: The project is a hydropower project planned to generate 367 MW electricity.

Positions held: Water quality expert

Activities performed: Analyzed water quality of the main Gaba River and its tributaries and predicted the water quality status of the future reservoir. Predict the eutrophication situation of the reservoir and its impact on the reservoir water and its downstream. Estimate green-house gas emission from the reservoir; and impact of the reservoir on carbon sequestration of Gaba forest.

11. Name of assignment or project: Tana-Beles Growth Corridor Study

Year: 2008/2009

Location: Amhara and Benshangul-Gumuz Regions

Lead consultant: *Euro consult Mott MacDonald in association with CWC*

Client: *Ministry of Water Resources*

Main project features: Assessment of Growth Potentials, Identification of Constraints and Formulation of Integrated Development Strategies.

Positions held: Deputy Team Leader and Environmentalist

Activities performed: Coordinated project activities, Prepare progress reports, Communicate with client and stakeholders, Collect primary and secondary data on existing environment and compile reports, organize workshops.

Analyzed existing environment of the growth corridor, forecast environmental impacts of the program and propose mitigation measures and precautions to be considered during the implementation of the development proposals, particularly giving more attention to Lake Tana and its environ.

12. Name of assignment: EIA of Tana Beles Hydropower Project

Year: 2005

Location: Ethiopia, Nile Basin

Main Consultant: Mid-Day International Consulting Engineers

Client: EEPCO

Main project features: A hydropower project planned to use the stored water of Lake Tana to produce 460 MWH and to irrigate available land at Beles sub basin using tailrace water after the generation of the power

Positions held: Environmentalist

Activities performed : Responsible for review of Policies, Legal and administrative framework; carry out public consultation in project influence areas, analysis and assessment of potential impacts, identify mitigation measures, collect and analyze baseline data of environmental elements that will affect the environmental management of the proposed project works.

13. Name of project: Environmental Consultant for Addis Ababa City Water Supply Stage 3 projects in association with TAHAL Consulting Engineers and Water Works Design and Supervision Enterprise.

Year: 2004

Location: Sululta and Chancho area

Client: Addis Ababa Water Supply and Sanitation Authority

Positions held: Environmentalist

Activities Performed: The responsibilities included, assessing environmental impact of the proposed water supply project on the natural and social environment and preparation of mitigative measures and management plan for the adverse impacts.

14. Name of assignment: Preparation of Ethiopian drinking water quality guideline

Year: 2001-2002

Location: Addis Ababa

Client: UNDP in collaboration with Ministry of Water Resources

Position held: Project Coordinator

Activities performed: Preparing project proposal, evaluating tender, managing, monitoring and evaluating project activities

15. Name of assignment: Hydropower projects in the Ministry of Water Resources

Location: River Basins of Ethiopia (Awash, Blue Nile, Omo, & Tekeze)

Client: Ministry of Water Resources and Water Resources Authority

Year: 1989 – 2004

Main project features: Medium and large-scale hydropower projects for electric power generation

Positions held: Environmental Team Leader

Activities Performed : Environmental Impact Assessment and evaluation of medium and large-scale hydropower projects; conducting Environmental Monitoring on the existing and ongoing hydropower reservoirs and their environment; Public Consultation in major towns; Preparation of Environmental Guidelines for the study of hydropower projects; Preparation of reports, documents for environmental clearance

6. Languages:

	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>
English	Excellent	Excellent	Excellent
Amharic	Excellent	Excellent	Excellent
Hadiya	Excellent	Excellent	Excellent

7. Certification

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Name and Signature

Date: _____

Day/Month/Year

(iv) CV of Temesgen Yimer Tessema

1. Personal Information

Proposed Position: Sociologist
Name of Firm: ESSD Consultancy
Name of Staff: Temesgen Yimer Tessema
Profession: Sociologist
Date of birth: 1956
Nationality: Ethiopian
Contact Address: AA, Bole Sub-city, Woreda 14, Gerji Area
Telephone 251-912 64 82 97
Email: ttemesgenyimer@gmail.com

Professional Societies: Member of Ethiopian Sociologists , Anthropologists and Social Workers Association
Founder and Board Member of Professional Alliance for Development in Ethiopia (PADET).

2. Key Qualification

- BA Degree in Sociology
- Diploma in Teaching

Temesgen Ymer has twenty eight years of experience in socio-economic baseline surveys, social impact assessment studies, stakeholder engagement works, resettlement planning, demographic and socio-anthropological studies. He has carried out social impact assessment studies of various development projects including road, railway, water supply and sanitation, hydropower, irrigation, wind power, and petroleum exploration projects throughout Ethiopia. In addition, he has involved in resettlement action plan preparation for various economic, social and infrastructure development projects that have been planned and implemented by the government as well as private sectors. Temesgen is highly conversant with various social survey techniques such as RRA (Rapid Rural Appraisal) and PRA (Participatory Rural Appraisal).

3. Education

- ♦ BA Degree in Sociology, Addis Ababa University, 1985.
- ♦ Diploma, Jimma Teacher Training Institute, 1974.

Other Trainings:

- ♦ Certificate in Report Writing and Facilitation Skill, Ethiopian Management Institute, Oct. 2002.
- ♦ Certificate in Action Monitoring for Effectiveness improving Water, Hygiene and environmental Sanitation Programmes, Netwas International and International Water and Sanitation Centre [IRC], Nairobi, June 2001.
- ♦ Attended the World Bank Procurement Seminar, Work Bank Mission of Ethiopia, Sep. 1999.
- ♦ Attended twelve lectures on Economics, Economic Policy and Economic Growth, Ministry of Planning & Economic Development, June 1994.

4. Languages:

	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
Amharic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

5. Employment Record:

Mar. 2007 – March 2017	International Consultants and Technocrats Ethiopia PLC Senior Sociologist
Jan. 2002 – Feb. 2007	Water Resources Development Fund Senior Sociologist
May 1996 – Jan. 2002	Ministry of Water Resources Senior Sociologist
Feb. 1994 – May 1996	Ministry of Natural Resources Development and Environmental Protection Project Evaluation and Monitoring Expert
Jan. 1990 – Feb. 1994	Water Resources Commission Socio-Economic Expert
Jan. 1986 – Jan. 1990	Water Resources Commission Junior Socio-Economic Expert
June 1980 – Oct. 1982	Ministry of Education Teacher
July 1974 – May 1978	Ministry of Education Teacher

As Freelancer Consultant

May to Dec. 2016	Associated Engineering Consultants PLC (AEC) Revised Jima-Chida Road Project- Revised ESIA and RAP
June 2016	Associated Engineering Consultants PLC (AEC) Awash-Kombolcha-Woddiya/Hara Gebeya, Railway Project Access Road to Radio Tower Base Stations, Environmental and Social Impact Assessment Studies
March to June 2016	Associated Engineering Consultants PLC (AEC) Kombolcha-Woddiya/Hara Gebeya, Railway Project (Section from km 270+00 to km 392+230), Resettlement Action Plan)
March 2016-Todate	Civil Works Consulting Engineers PLC, Senior Sociologist Dila-Haro Wacho Road Project
Feb. 2016-June2016	Environmental and Social Studies Consultant, Senior Sociologist Modjo-Meki Design and Build Road Project (Lot 1)
March 2015-to date	Civil Works Consulting Engineers PLC, Senior Sociologist Filtu-Dolo Ada-Dolo Bay Road Project
March 2015 – Oct.2015	GIBB Africa Limited, Nairobi, Kenya, Sub Consultant Environmental and Social Impact Assessment of Tulu Moye Geothermal Field Study in Ethiopia, Oromia Region

Sept. 2012 –Feb. 2014	Associated Engineering Consultants PLC, Senior Sociologist Wachile-Mega Road Project
December 2012	Highway Engineers and Consultants, Senior Sociologist Addis Ababa-Adama Toll Motorway Project - Socio-Environmental Impact Assessment on Wedecha River Flood Susceptible Road Sections of Addis Ababa-Adama Expressway and Evaluation of Alternative Options to Solve the Problem
May 2012 – July 2012	Environmental and Social Studies Consultant, Senior Sociologist South Omo Oil Exploration Projects
Nov. 2011 – June 2016	Civil Works Consulting Engineers PLC, Senior Sociologist Socio-Environmental and Road Safety Performance Monitoring for Southern Region Road Projects
May 2010	Ministry of Water Resources, Senior Sociologist Hawassa Water Supply Project Socio-Environmental Impact Assessment
April – June, 2013	Civil Works Consulting Engineer PLC, Senior Sociologist Robe – Gassera – Ginir Design & Build Road Project
Nov. 2010 – May 2012	Civil Works Consulting Engineers PLC, Senior Sociologist Shire-Awash Railway Project: Lot 12 Kemissie-Hayk Project
July – August, 2006;	Tropics Consulting Engineers PLC, Senior Sociologist Socio-Economic Feasibility Study for Mekele Water Supply Project;
Dec. 2006	Tropics Consulting Engineers PLC, Senior Sociologist Socio-Economic Impact Assessment for Proposed Mekelle Water Supply Dam Project
Apr. 2004 – Apr. 2006	Mid-Day International Consulting Engineers, Senior Sociologist Socio-Economic Impact Assessment for Gibbe III Hydropower Project; Socio-Economic Impact Assessment for Messobo Wind Power Project; Socio-Economic Impact Assessment for Nazareth Wind Power Project; Socio-Economic Impact Assessment for Gibbe II Hydropower Project
August 2003- April 2004	Former Water Works Design and Supervision Enterprise, Senior Sociologist <i>Feasibility Studies of 5 Towns' Water Supply Projects in Tigray Region</i>

6. Certification

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Name and Signature

Date _____

Day/Month/Year

Full name of authorized representative: _____

(v) CV of Lelisa Temesgen Alemu

1. Personal Information

Proposed Position:	Sociologist
Name of Firm:	ESSD Consultancy
Name of Staff:	Lelisa Temesgen Alemu
Profession:	Sociologist
Date of birth:	1975
Nationality:	Ethiopian
Contact Address:	Bole Sub-city, Woreda 7, CMC Road P.O. Box 110441, Addis Ababa Telephone 251-911 187013, 251-929 003215 Email: lalisaalemu@yahoo.com
Professional Societies	Member of Ethiopian Society of Sociologists, Social Workers and Anthropologists

2. Key Qualification

Lelisa Temesgen has a Master of Art (MA) Degree in Social Work and Bachelor of Art (BA) Degree in Sociology & Social Anthropology. He is a sociologist with over eleven years of experience in social works, socio-economic baseline surveys, social impact assessment, preparation of resettlement action plan and stakeholder engagement for various development projects in Ethiopia. Most recently he has involved in socio-economic baseline surveys, social impact assessment, preparation of resettlement action plan and stakeholder engagement for four large scale hydroelectric power projects (Ethiopian Renaissance, Geba, Koysha and Dabus Dam Projects), wind farm and solar power projects, and a livestock ranch development and out grower scheme project. He also has good experience in socioeconomic and social impact assessment of road, irrigation and mining projects. In addition, Lelisa has involved in various social studies such as poverty and livelihood analysis, rural electrification, biomass energy, and different market researches. Moreover, he has worked as a Master Trainer on issues related to Gender, HIV, and reproductive health.

3. Education

Year	Award	Institution
2009 –2011	M.A Degree in Social work	Addis Ababa University
2005- 2007	B.A Degree in Sociology & Social Anthropology	Addis Ababa University

4. Short Term Trainings

- Certificate in Men and HIV/AIDS Special Initiative Group Education Training, 2008
 - Certificate in Men and HIV/AIDS Special Initiative Community Mobilization Training, 2008
 - Certificate in Micro Soft Word, Excel, PowerPoint and Access Applications, 2002
-

5. Languages

	Speaking	Writing	Reading
Amharic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
Affaan Oromo	Excellent	Excellent	Excellent
Russian	Basic	Basic	Basic

6. Employment Record

Period	Organization	Position
April 2016 – Up to now	MIDDAY consulting engineering	Social expert
March 5 – April 15 2017	AHS Electric Pvt.Ltd.Co.	Field expert
March 1 - April 5, 2016	ESSD consulting plc	Assistant Sociologist
Nov 15, 2015 - Jan 5, 2016	MIDDAY consulting engineering	Assistant Sociologist
Oct 5 - Oct 30, 2015	MGP consulting plc	Supervisor and field coordinator
May 2 - July 8 2015	MGP consulting plc	Social Anthropologist
Mar.18 - Apr. 20, 2015	MGP consulting plc	Assistant researcher
May 1 - June, 15, 2014	MGP consulting plc	Supervisor and Assistant researcher
May1 - 22, 2013	Ethio-resource group.	Field coordinator and supervisor
March 1 –April 25, 2013	Yugo Dandi consulting engineers	Sociologist/researcher
Nov 30, 2012 - Feb 20, 2013	MGP consulting plc	Assistant Sociologist/ researcher
Nov.1 - Nov.25, 2009	Social consulting service	Field supervisor
Oct. 1- Nov. 27, 2008	DEPEAC	Researcher/Sociologist
May 19 - Nov 27, 2008	Hiwot Ethiopia	Master trainer
Sep.11 - Nov 22, 2007	TAM consulting	Supervisor

7. Work Experience

July 2017 – To Date: Sociologist

Project: ESIA and Resettlement Action Plan Preparation for 400 KV Transmission line for Gibe IV (Koysha) Hydropower Project

Main Responsibilities:

- Preparation of data collection instruments
- Overall coordination of data collection and field survey works
- Preparation of RAP document

March – April 2017: Field expert

Project: Assessment of the Governing Factors which affect the Scaling up and Sustainability of Solar and Wind Water Pumping Systems

Main Responsibilities:

- Collected data by interviewing, group discussion, assessment of reports observations and non-intrusive measurements.
- Submitted field data as to formats arranged and also electronically in the format communicated during the training.
- Prepared field report

Dec. 2016 - February: Sociologist

Project: Socioeconomic study for the proposed Asella Wind Farm Project

Main Responsibilities:

- Prepared data collection instruments
- Conducted Socioeconomic baseline survey and stakeholder consultation
- Prepared Socioeconomic baseline report
- Prepared public consultation report

April 2016 – July 2016: Sociologist

Project: Preliminary study of Dabus Hydroelectric Dam Project (EEP Project)

Main Responsibilities:

- Identification of socio-economic aspects of the project and agree on the Project Area of Influence (AOI)
- Collection of preliminary socio-economic baseline data
- Identification of key stakeholders
- Developing questionnaires for future socio-economic baseline survey and public consultation

March 1 - April 5, 2016: Assistant Sociologist

Project: ESIA study for Luna Animal Fodder Production, Feedlot and Out-grower Scheme in Mieso Woreda

Main Responsibilities:

- Translated data collection instruments into Affaan Oromo
- Recruited enumerators and provided training on data collection instruments
- Prepared data entry format in excel and analyzed the data
- Conducted FGDs, and key informant interviews
- Prepared a report on the findings of the FGDs and KIIs.

Nov. 15, 2015 – Jan. 5, 2015: Assistant Sociologist

Project: Socio-economic and preliminary study for the proposed development of Koyssha Hydroelectric Dam Project (EEP, Project)

Main Responsibilities:

- Recruited enumerators and provided training on data collecting instruments
- Supervised data collection and data entry process
- Conducted FGDs, and stakeholder interviews

- Prepared public consultation disclosure and actively participated in preparation of the socio-economic report

Oct. 5 – 30, 2015: Supervisor and field coordinator

Project: Evaluation of Sustainability of CFL Energy Efficiency Program in Addis Ababa (World Bank, Project)

Main Responsibilities:

- Recruited enumerators and provided training on data collection instruments
- Supervised and coordinated the data collection process
- Conducted data entry and Analysis

August – Sept., 2015: Supervisor and Field Coordinator

Project: Baseline Assessments and Renewable Energy Feasibility Studies in Asossa refugee camps, Ethiopia (UNHCR, Project)

Main Responsibilities:

- Screened enumerators for data collection and provided training on data collection instruments
- Supervised and coordinated the data collection process
- Conducted data entry and analysis

May – July 2015: Social Anthropologist

Project: Comprehensive Needs Assessment in Support of Social Development and Safeguard Measures for Project-Affected Persons of Bole-Lemi Phase II and Kilinto Industrial Zone Development Projects (Mol, Project)

Main Responsibilities:

- Recruited and trained Data collectors in data collection instruments and carried out census of Project-Affected Persons (PAPs).
- Conducted Focus group discussions, stakeholder consultations and key informant interview with PAPs
- Transcribed & translated the FGDs and interviewees
- Assisted in write up of the Findings report

March – April 2015: Assistant researcher

Project: Review and Assessment of Agricultural Extension and Financial Services and Stakeholders Coordination in Selected Woredas of Oromyia Region (GB OXFAM, Project)

Main Responsibilities:

- Conducted Focus group discussion, stakeholder consultations and individual interview with beneficiaries DA and officials from sector offices
- Transcribed & translated the FGDs, stakeholder consultations and interviews

Feb. – March 2015: Supervisor and Field Coordinator

Project: Baseline Assessments and Renewable Energy Feasibility Studies in Dolo-Ado refugee camps, Ethiopia (UNHCR, Project)

Main Responsibilities:

- Screened enumerators for data collection and provided training on data collection instruments
- Supervised and coordinated the data collection process
- Conducted data entry and analysis

Aug. – Sept. 2014: Supervisor

Project: Assessment study on sesames straw briquetting in Tigray region (GIZ, Project)

Main Responsibilities:

- Recruited enumerators and provided training on data collection instruments
- Supervised data collection and data entry process

May – June 2014: Supervisor & Assistant Researcher

Project: Socio economic and gender impact assessment of newly electrified rural communities in Asoosa, West wellega zone, East Aresi zone and Hadiya zone (World Bank, Project)

Main Responsibilities:

- Recruited enumerators and provided training on data collecting instruments
- Supervised the data collection and the data entry process
- Conducted FGDs with community members and local officials
- Compiled field summary report

December 2013: Supervisor & Assistant Researcher

Project: Household Energy Baseline Survey and Assessment of Biomass fuels use for cooking in rural and urban areas in Alaba, Mirab Abaya, Hosana, & Yirgalem (GIZ, Project)

Main Responsibilities:

- Recruited enumerators and provided training to the data collectors on the survey instrument and overall procedure of the data collection
- Supervised data collection and data entry process
- Conducted FGDs, and stakeholder interviews

March – April 2013: Sociologist/Researcher

Project: Social impact assessment and transport Survey for four rural road Projects in Sasiga Woreda of west Wellega (URRAP, project)

Main Responsibilities:

- Gathered the necessary data through survey, FGD, stakeholders consultation and document review
- Produced social impact assessment and transport survey reports

May 2013: Field Coordinator And Supervisor

Project: Market survey on the demand of solar lantern product among non-electrified rural household in Jimma, Ilubabor & west wellega zone (Lighting Africa, Project)

Main Responsibilities:

- Supervised the overall data collection process

- Conducted FGDs, and group interviews
- Transcribed & translated the FGDs and interviewees

Nov. Feb. 2012: Assistant Sociologist/ Researcher

Project: End line Survey for Citizen Satisfaction on municipality services in Nekemet and Bahirdar (GIZ- UGDP, Project)

Main Responsibilities:

- Recruited Nekemet & Bahirdar city's data collectors of the survey as per the criteria of the organization
- Arranged and provided training to the data collectors on the survey instrument and overall procedure of the data collection
- Supervised the data collectors during data collection and ensure the quality of data
- Conducted interviews with representatives of sample CSOs and CBO
- Prepared the survey analysis report

May – Aug. 2012: Assistant Sociologist/ Researcher

Project: Urban poverty and livelihood analysis study in Asossa, Gambella, Jijiga and Nekemet towns (GIZ- UGDP, Project)

Main Responsibilities:

- Conducted FGDs and interviews with representatives of sample CSOs, CBO and other stakeholders
- Conducted stakeholder consultation and sector offices interviews
- Assisted a senior Sociologist/ researcher and Gender expert
- Transcribed & translated the FGDs and interviewees
- Compiled and prepared field report

March – Dec. 2011: Field survey coordinator & assistant sociologist

Project: Environmental and social Impact Assessment (ESIA) & Resettlement Action plan of Ethiopian Renaissance dam project (EEPCCO, Project)

Main Responsibilities:

- Successfully coordinated and executed sample socio-economic survey and census enumeration of person and properties of project-affected villages.
- Organized, coordinated & facilitated logistics and transportation for the research teams working in different areas of specialties
- Conducted consultation meetings at community, Kebele, Woreda and zonal level
- Monitored and supervised the data entry process
- Involved in write up of public consultation disclosure and actively participated in the Socio-economic report write up.

May – June 2010: Sociologist

Project: Mine restoration plan for Yubido Gold and Platinum PLC (Yubido Gold and Platinum PLC, Project)

Main Responsibilities:

- Conducted interview and consultation with stakeholders and key informants

- Compiled and prepared field report

Dec. 2009 – March 2010: Assistant Socio-economist

Project: Socio-economic and feasibility study for the proposed Geba hydroelectric Dam Project development (EEPCO, Project)

Main Responsibilities:

- Recruited enumerators and provided training to the data collectors on the survey instrument and overall procedure of the data collection
- Coordinated and Supervised the data collection process
- Conducted FGDs, and stakeholder interviews
- Prepared of public consultation disclosure and actively participated in the Socio-economic report write up.

April 2010: Assistant sociologist

Project: Pilot study on Improving water user efficiency and productivity on existing irrigation Scheme in Meta Robi Woreda of West Shewa

Main Responsibilities:

- Recruited enumerators and provided training on data collecting instruments
- Supervised the data collection process
- Conducted FGDs, and stakeholder interviews

Nov. 2009: Field Supervisor

Project: Impact Assessment & Resettlement Action plan of Alege-Sachi –Gimbi-Guyi road projects (ERA, Project)

Main Responsibilities:

- Recruited enumerators and provided training on data collecting instruments
- Supervised data collection and data entry process
- Conducted FGDs, and stakeholder interviews

Oct. – Nov. 2008: Researcher/Sociologist

Project: External evaluation of WORTH project in Ambo, Guder, Chalia Deber Sina, and Woldia (PACT, Project)

Main Responsibilities:

- Recruited enumerators and provided training on data collecting instruments
- Supervised data collection and data entry process
- Conducted FGDs, and stakeholder interviews
- Produced summery report

May – Nov. 2008: Master Trainer

Project: Male as Partner project, Addis Ababa (Engender health & Hiwot Ethiopia, Project)

Main Responsibilities:

- Provided trainings on gender, HIV and reproductive health to peer educators

- Initiated and coordinated trainings and workshops
- Developed and adopted training manuals with other master trainers
- Prepared weekly and monthly reports of activities
- Prepared project proposal related to the promotion of youth reproductive health right

8. References:

Mr. Dejene W/Mariam General Manager, Mid-day international consulting engineers Telephone: 0911-20-30-19

Mr. Melessaw Shanko, Managing Director, MEGEN Power Ltd.
Telephone: 0911-20-30-97

Mr. Arebo Sambu, Managing Director, ESSD Consultancy
Telephone: 0935-40-12-60

Dr. Ali Hussien Researcher and Instructor at Addis Ababa University.
Telephone: 0941-26-4349-21

9. Certification

I, the undersigned, certify that to the best of my knowledge and belief, these biodata correctly describe me, my qualifications, and my experience.

Name and Signature

Date: _____

Day/Month/Year

ANNEX 11: COMMENTS ON THE DRAFT ESIA REPORT AND RESPONSES TO THE COMMENTS

Annex 11-1: Comments by MoWIE on Draft ESIA Report and Responses to the Comments

Comment No.	Reference/ Section	Comments	Responses to Comments
General Comments			
1	Terms of Reference (TOR)	TOR of the study is missing; it should be attached in the report to examine whether or not the report addresses the issues as per the TOR.	The TOR for Study of Environmental and Social Impact Assessment for <i>The Project for Construction of Transmission and Distribution Lines in Addis Ababa</i> is provided in Annex 9.
2	General	There are some font size and text justifying problems. Therefore, the editorial and grammatical errors need to be corrected (edited).	The ESIA Consultants have revisited the ESIA and ARAP documents and corrected the editorial and grammatical errors observed in the draft reports.
3	Consultants' CV and Licenses	Curriculum vitae of consultants and renewed license issued by Ministry of Environment, Forest and Climate Change of the consulting firm and experts involved in the firm should be attached in the ESIA report.	The list of Consultants is provided in section 1.4 and their licenses and CVs are presented in Annex 10.
4	Cover page	We recommend that the time of this final ESIA report has to be mentioned in the report of the cover page.	The issue time of the final ESIA report is included on the cover page.
Specific comments			
1	Background of Project Affected Sub-Cities and Woredas (Sec. 5.3.2)	Under socio-economic section of the total population of the project affected woredas, 52% are female. Thus, special consideration should be taken for female and the document has to give emphasis and implication clearly to mitigate the impacts.	The potential impacts of the project on women and other vulnerable groups are clearly described in section 8.5.9 of the ESIA Report and 5.1.3 of ARAP together with proposed mitigation measures. In addition, special consideration has been

Comment No.	Reference/ Section	Comments	Responses to Comments
			given for the project affected female headed households and other vulnerable groups in both ESIA and ARAP documents.
2	Institutional Responsibilities for Environmental Management and Monitoring (Sec. 9.4)	In the document under Institutional Responsibilities for Environmental Management and Monitoring, Ministry of Water, Irrigation and Electricity should be mentioned as one of the main responsible organizations which are mandated for environmental issues.	In sections 9.4.1 and 9.4.7 Ministry of Water, Irrigation and Electricity is described as one of the key organizations responsible for management of the environmental issues of the subject project.
3	Impacts on Local Economy and Employment (Sec. 8.2.2)	Job opportunity for the local community in the project area has been mentioned in the document which is vital. But it should be specified for how much skilled, unskilled and semi-skilled labour will be engaged.	At this stage it isn't possible to provide the specific number of skilled, unskilled and semi-skilled labor required for the project. This will be determined by the contractor(s) and EEP during the preparation for implementation. However, measures to be taken to enhance this positive impact are recommended in section 8.2.2 of the ESIA report.
4	Description of Baseline Conditions (Sec. 5)	As the objective of the project is rehabilitation and upgrading of power transmission and distribution systems in the city, in the baseline description it is important to describe existing problems related to the old power transmission and distribution system.	The comment is well noted and the main existing problems related to the old power transmission and distribution system and the need for rehabilitation and upgrading of the system are described in section 5.4

Annex 11-2: Comments by EEP’s Environment & Social Office on Draft ESIA Report and Responses to the Comments

Comment No.	Reference/ Section	Comments	Responses to Comments
I. General comments			
1	Terms of Reference (TOR)	Terms of Reference (TOR) of the ESIA study should be attached with the report, which is missing.	The comment is well noted and the TOR of the ESIA study is provided in Annex 9.
2	ESIA Study Team and Qualification	The study team members with their professional disciplines should be listed	The list of ESIA Study team members is provided in section 1.4 and their licenses and CVs are presented in Annex 10.
3	Labor Influx Management	The document should recommend the labor influx management plan for those labors which will be working during project implementation period.	The comment is well considered and labor influx management plan is described in section 8.5.11.
4	Grievance Redress Mechanism	Grievance redress mechanism for workers should be also recommended to solve those grievances which will be occurred during project implementation as well as project affected people/PAPs.	Mechanisms for addressing grievances related to compensation process are provided in the ARAP document. Additional grievance redress procedures are described in section 8.5.13 of the ESIA document.
5	Child Labor and Management.	The ESIA should contain some recommendations on child labor and management.	The comment is well noted and measures for child labor management are recommended in section 8.5.12 of the ESIA report.
6	Historical, Cultural and	During project implementation, there will be unforeseen chance findings of historical, cultural or archaeological heritages. So, procedures and actions taken should be identified as a mitigation measure	The comment is well considered and assessment of cultural heritage sites in the project corridor was conducted and

Comment No.	Reference/ Section	Comments	Responses to Comments
	Archeological Heritages		mitigation measures proposed including measures for any accidental discovery of properties of cultural value in section 8.5.10.
Specific Comments for the ESIA			
1	List of Acronyms	On the document there is an acronym ``AACA``. So, there should be also mentioned on the acronyms list sheet.	The comment is well noted and the acronym is included in the list of abbreviations.
2	Sections 9.2, 9.3.2, 9.4.4 etc.	On the whole document of ESIA the word `EMU` is better to be written as ES office since the current name of the office is Environmental and Social office of EEP.	The Environmental Monitoring Unit (EMU) mentioned in the ESIA document is not same as the ES Office, but it is a separate Unit proposed to be established by EEP for inspection and monitoring of the implementation of environmental management activities for this particular project.
3	Executive Summery etc.	On executive summery under objectives, Scope and Methodology of the ESIA Study, the word ``feasible mitigation measures`` is ambiguous, it is better to avoid feasible. There is also the word `` effective <u>measures</u> mitigation measures`` the word measure used in different parts of the document repeatedly should be edited.	The report is revisited and necessary amendments made in the sections where the mentioned words were used.
4	Proclamation on Institutional Arrangement for Environmental Protection (Sec. 3.2.1)	Page 10. Under Proclamation on Institutionnel Arrangement for Environnemental Protection, ``Environment and Social <u>Management</u> Office of EEP`` the word management should be removed the exact name of the office Environment and Social Office.	The comment is accepted and correction made accordingly.

Comment No.	Reference/ Section	Comments	Responses to Comments
5	EPA's EIA Guidelines (section 3.3.2)	Page 16. Under EPA, EIA Guideline the document says ``there are some <u>churches</u> in the vicinity of the overhead transmission line and underground transmission lines``. For this issue the document should list out some kind of mitigation measures.	The comment is well noted and possible impacts on cultural heritage sites including religious places are assessed and mitigation measures proposed in section 8.5.10.
6	Protected Areas (sec. 5.2.3 (i)) Impacts on Protected Areas (sec. 8.4.1)	Page 30. Under protected forest in Nifas Silk lafto Sub city. In order to avoid the negative impacts on Indigenous and exotic tree species, there is no adequate mitigation measure recommended on the document.	For the impacts on the mentioned protected forest including impacts on indigenous and exotic tree species, mitigation measures are proposed in section 8.4.1 on page 74.
7	Loss of Farmlands, Crops and Grasslands (sec. 8.5.2)	Page 78. Under Proposed mitigation measures. There is the word `` <u>fair compensation</u> ``. The word fair is ambiguous to express properness of the compensation.	To avoid ambiguity, "fair compensation" is replaced by "sufficient compensation" and the law and regulations to be followed for determination of the amounts of compensation for loss of assets are also specified.
8	Sections 8.5.6, 8.5.8 etc.	Page 82. Under proposed mitigation measures. There is the word `` <u>reflctors</u> `` these word in the entire document should not be speled as reflctors must be re corrected as <u>reflector</u> .	The comment is accepted and all the editorial errors are corrected.