

## 8. Estimated Cost for Laga Mume Keku water Development

### *i. Construction Materials Cost and specification*

No	Description of required material	Unit	Quantity	Unit cost (ETB)	Total cost (ETB)	Remark
1	Cement	Quintal	36	2150	77400	\$591
2	Gravel for Concrete works	m <sup>3</sup>	4	4225	16900	\$129
3	Rocks for masonry work	m <sup>3</sup>	24	1850	44400	\$339
4	Sand	m <sup>3</sup>	16	3000	48000	\$366
5	Gs Φ10	DN20	8	1900	15200	\$116
6	Soft wire/Black wire	kg	1	250	250	\$2
7	HDP pipe 1 – inch	m	500	255	127500	\$973
8	HDP pipe 1 inch	m	600	210	126000	\$962
9	$\frac{3}{4}$ inch GI Pipe line (single 6m long)	No.	2	4250	8500	\$65
10	1 – inch GI Pipe line (single 6m long)	No.	2	8500	17000	\$130
11	Faucets – inch	No.	4	650	2600	\$20
12	Unions HDP 1 – inch	No.	7	800	5600	\$43
	Unions HDP 1 inch	No.	8	750	6000	\$46
13	$\frac{3}{4}$ inch T Galvanized steel	No.	3	100	300	\$2
14	$\frac{3}{4}$ inch Union Galvanized steel	No.	6	100	600	\$5
15	Female Adapter 1 – inch to 1 inch	No.	2	1000	2000	\$15
16	Reducer 1 inch to $\frac{3}{4}$ inch	No.	2	850	1700	\$13
17	Female Adapter 1inch	No.	1	650	650	\$5
18	Elbow $\frac{3}{4}$ inch Galvanized steel	No.	3	100	300	\$2
19	Transportation materials to the site				30000	\$229
<b>Sub Total 1</b>					<b>530,900</b>	\$4,053

***ii. Masonry, Concrete and Pipe line installing Work Cost***

No	Description of Activities	Unit	Type/ Quantity	Unit cost (ETB)	
1	Concrete work for Water collection box and Masonry work around spring source			70000	\$534
2	Water Distribution points			32,700	\$250
3	Concrete work			25500	\$195
4	One Washing clothes stand			11225	\$85
5	Pipe line installation			45500	\$347
<b>Sub Total 2</b>				<b>184,925</b>	<b>\$1,411</b>

***iii. Personnel cost***

No	Description of required material	Unit	Type/ Quantity	Unit cost (ETB)	Total cost (ETB)	Remark
1	Supervision of the work	95 day	2	402	76380	\$583
2	Two Technical Experts	65 day	2	402	52260	\$399
3	Transportation cost				14000	\$107
4	Resources Purchase personnel	15days	2	724	21720	\$166
<b>Sub Total 3</b>					<b>164,360</b>	<b>\$1,255</b>

**iv. Total Grand Cost of the Project**

No.	Description of Activities	Total cost (ETB)	Total cost (USD)	Remark
1	Construction Materials cost	530,900	\$4,053	
2	Masonry and Concrete work	184,925	\$1,411	
3	Personnel cost (Periderm and Transportation)	164,360	\$1,255	
<b>Total Grand</b>		<b>880,185 ETB</b>	<b>6,719 USD</b>	

**Note: Currently, the Currency Exchange Rate, 1USD=131.00 ETB**

- There is high inflation following the devaluation of US Dollar that resulted in an increase of price on construction material.