

Summary from the Improvement Plan - Batch 2
OLMORAN MAGADI LOT 1 BATCH 2

Item		04-50-003	04-50-004	04-50-006	04-50-007	04-50-009	05-50-004	05-05-002	05-05-003
KM	Bush/Site Clearing M2					Grubbing	ETL	Drains m3	
	Light	Heavy	Total	200-450	>450	m ²	m ³	Soft	Hard
1	8,000	800	8,800	-	-	7,000	10	1,874	187
2	8,000	800	8,800	-	-	7,000	10	1,744	174
3	8,000	800	8,800	-	-	7,000	10	1,561	156
4	8,000	800	8,800	-	-	7,000	10	1,420	142
5	8,000	800	8,800	-	-	7,000	10	2,392	239
6	8,000	800	8,800	-	-	7,000	10	2,392	239
Total	48,000	4,800	52,800	-	-	42,000	60	11,384	1,138

Item	08-60-025						08-80-001	08-60-019 & 08-60-020			08-50-005	08-50-006	08-70-009	10-60-001
KM	CULVERTS(M)				Type (No)		T1 No	T2 No	T4 No	MITRE No	C/ W	S/ C		Gravel (150mm)
	900	600	Total	CD	AC	AD					m	L No	R No	m3
1	-	7	7	2	-	-	2	2	-	-	-	-	-	360
2	10	-	10	2	-	-	2	2	-	-	-	-	-	360
3	5	-	5	1	-	-	1	1	-	-	-	-	-	720
4	20	-	20	1	-	-	1	1	-	-	-	-	-	720
5	9	6	15	3	-	-	3	3	-	-	-	-	-	720
6	19	-	19	2	-	-	2	2	-	-	-	-	-	720

[illegible]

Quantity Assessment	Road No.	County	Laikipia	From: 0+000	To: 1+000	Page: 1
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Chainage:	0+000	0+200	0+400	0+600	0+800	1+000
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Measurements for Clearing:

	Aver. (m)	1 to 4 readings*		
Bush Clearing	8	8	8	8
Grass Cutting				
Grubbing	7	7	7	7
0 Tree and Stump Removal	0			

Free Clearance Width for Calculating areas

	Aver. (m)	1 to 4 readings*		
m	8	8	8	8
m				
m	7	7	7	7
m	0			

m
m
m
m

*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:

Height of cut < 0.25m	6				cm	8				cm	14				cm	19				cm	19				cm
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For Reshaping:

Existing Roads	9					24					28					17				cm	17				cm
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Quantities

										Total this page
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000
Grass Cutting		m2		m2		m2		m2		0
Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000
Tree and Stump Removal	0	No.	0	No.	0	No.	0	No.	0	0
Height of cut < 0.25m	0	m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Reshaping by Labour	443	m3 (insitu)	281	m3 (insitu)	238	m3 (insitu)	356	m3 (insitu)	356	1,674
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0

Quantities verified and accepted by the Contractor	Name:	Date:	Signature:
For the Employer	Name:	Date:	Signature:

Quantity Assessment		County		Laikipia		From:		1+000		To:		2+000		Page:		2	
Chainage:		1+000		1+200		1+400		1+600		1+800		2+000					

Measurements for Clearing:										Free Clearance Width for Calculating areas																			
1 to 4 readings*)																				Aver. (m) 1 to 4 readings*)									
Bush Clearing	8	8		8			m	8	8	8			m	8	8	8			m	8	8	8			m				
Grass Cutting							m						m						m						m				
Grubbing	7	7		7			m	7	7	7			m	7	7	7			m	7	7	7			m				
0 Tree and Stump Removal	0						m	0					m	0					m	0					m				

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:										Height of Cut for calculating volumes													
Height of cut < 0.25m						cm	14			cm					cm	16			cm	18			cm

For Reshaping:										Difference in Level between Exist. Camber and Side Drain for calculating volumes												
Existing Roads	13						36			10					20			cm	28			cm

Quantities										Total this page	
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000	
Grass Cutting		m2		m2		m2		m2		0	
Grubbing	1400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000	
Tree and Stump Removal		No.	0	No.	0	No.	0	No.	0	0	
										0	
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Reshaping by Labour	400	m3 (insitu)	151	m3 (insitu)	432	m3 (insitu)	324	m3 (insitu)	238	1,544	
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	

Quantities verified and accepted by the Contractor					Name:		Date:		Signature:	
For the Employer					Name:		Date:		Signature:	

Quantity Assessment		County		Laikipia		From:		2+000		To:		3+000		Page:		3	
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Chainage:		2+000		2+200		2+400		2+600		2+800		3+000	
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Measurements for Clearing:

		###		1 to 4 readings*)			
Bush Clearing	8	8		8		m	8 8 8
Grass Cutting						m	
Grubbing	7	7		7		m	7 7 7
0 Tree and Stump Removal	0					m	0

Free Clearance Width for Calculating areas

		Aver. (m)		1 to 4 readings*)			
m	8	8		8		m	8 8 8
m						m	
m	7	7		7		m	7 7 7
m	0					m	0

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:

Height of cut < 0.25m	23					cm	21					cm	8					cm	8					cm
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Height of Cut for calculating volumes

Height of cut < 0.25m	23					cm	21					cm	8					cm	8					cm
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For Reshaping:

Existing Roads	30						21					3					29					cm	21					cm
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Difference in Level between Exist. Camber and Side Drain for calculating volumes

Existing Roads	30						21					3					29					cm	21					cm
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Quantities										Total this page	
Bush Clearing	1600	m2		1,600	m2		1,600	m2		1,600	8,000
Grass Cutting		m2			m2			m2			0
Grubbing	1400	m2		1,400	m2		1,400	m2		1,400	7,000
Tree and Stump Removal		No.		0	No.		0	No.		0	0
											0
Height of cut < 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Height of cut > 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Drains full re-construction		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Reshaping by Labour		m3 (insitu)	313		m3 (insitu)	508		m3 (insitu)	227	313	1,361
By Towed Grader / Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
By Equipment Based Meth.		m3 (insitu)			m3 (insitu)			m3 (insitu)			0

Quantities verified and accepted by the Contractor

For the Employer

Name: _____ Date: _____ Signature: _____

Name: _____ Date: _____ Signature: _____

Road Improvement Plan										County		Laikipia		From:		3+000		To:		4+000		Page:		4			
Chain- age	(kilometres)																										
	(metres)																										
Road form.	Subgrade		G	A																							
	Cross section		A	A																							
Earthworks/ Reshaping	Method: RES, ETL or Fill		FILL	L																							
	Choice of reshaping: L, T or E		L	L																							
Gra-vel	Total	Thickness (cm,comp.)	120																								
	720	Source (quarry No.)																									
Improved Subgrade	Total	Thickness (cm,comp.)	300																								
	1800	Source (quarry No.)																									
Longitudinal gradient (in %)						-3.12				-2.84			-2.43			-3.46			-1.17			-1.08			-0.75		
Mitre drains	Total	Number left =																									
		Number right =																									
Catch water	Total	Length of drain left =																									
		Length of drain right =																									
Culverts	N/Ex	Chainage (m) New / Existing line																									
	CD	1	= Cross drainage																								
	AC		= Access culvert/drift																								
	AD		= Left/right																								
	Length (m)	0	Ø 450 mm																								
		0	Ø 600mm																								
		20	Ø 900 mm																								
Ramp		Earth fill (m3)																									
		Haunch Type																									
Head- walls	T4=6	T3=	Inlet (Material/Type)																								
	T2=1	T1=1	Outlet (Material/Type)																								
Scour Checks	SM		= Material this sheet/ Spacing left (m) =																								
	0		Spacing right (m) = =Total No. this sheet																								
Additional Instruction as per Reference																											

Quantity Assessment		County		Laikipia		From:		3+000		To:		4+000		Page:		4																																																																																																																																																																							
Chainage:		3+000		3+200		3+400		3+600		3+800		4+000																																																																																																																																																																											
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="10">Quantities</th> <th>Total this page</th> </tr> </thead> <tbody> <tr> <td>Bush Clearing</td> <td>1600</td> <td>m2</td> <td></td> <td>1,600</td> <td>m2</td> <td></td> <td>1,600</td> <td>m2</td> <td></td> <td>1,600</td> <td>8,000</td> </tr> <tr> <td>Grass Cutting</td> <td></td> <td>m2</td> <td></td> <td></td> <td>m2</td> <td></td> <td></td> <td>m2</td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>Grubbing</td> <td>1400</td> <td>m2</td> <td></td> <td>1,400</td> <td>m2</td> <td></td> <td>1,400</td> <td>m2</td> <td></td> <td>1,400</td> <td>7,000</td> </tr> <tr> <td>Tree and Stump Removal</td> <td></td> <td>No.</td> <td></td> <td>0</td> <td>No.</td> <td></td> <td>0</td> <td>No.</td> <td></td> <td>0</td> <td>0</td> </tr> <tr> <td colspan="10"></td> <td>0</td> </tr> <tr> <td>Height of cut < 0.25m</td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>Height of cut > 0.25m</td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td>9</td> <td>4</td> <td>13</td> </tr> <tr> <td>Embankment</td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>Drains full re-construction</td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>Reshaping by Labour</td> <td>367.2</td> <td>m3 (insitu)</td> <td>151</td> <td></td> <td>m3 (insitu)</td> <td>65</td> <td></td> <td>m3 (insitu)</td> <td>346</td> <td>292</td> <td>1,220</td> </tr> <tr> <td>By Towed Grader / Labour</td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>By Equipment Based Meth.</td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>m3 (insitu)</td> <td></td> <td></td> <td>0</td> </tr> </tbody> </table>																		Quantities										Total this page	Bush Clearing	1600	m2		1,600	m2		1,600	m2		1,600	8,000	Grass Cutting		m2			m2			m2			0	Grubbing	1400	m2		1,400	m2		1,400	m2		1,400	7,000	Tree and Stump Removal		No.		0	No.		0	No.		0	0											0	Height of cut < 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0	Height of cut > 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)	9	4	13	Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			0	Drains full re-construction		m3 (insitu)			m3 (insitu)			m3 (insitu)			0	Reshaping by Labour	367.2	m3 (insitu)	151		m3 (insitu)	65		m3 (insitu)	346	292	1,220	By Towed Grader / Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			0	By Equipment Based Meth.		m3 (insitu)			m3 (insitu)			m3 (insitu)			0												
Quantities										Total this page																																																																																																																																																																													
Bush Clearing	1600	m2		1,600	m2		1,600	m2		1,600	8,000																																																																																																																																																																												
Grass Cutting		m2			m2			m2			0																																																																																																																																																																												
Grubbing	1400	m2		1,400	m2		1,400	m2		1,400	7,000																																																																																																																																																																												
Tree and Stump Removal		No.		0	No.		0	No.		0	0																																																																																																																																																																												
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Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			0																																																																																																																																																																												
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Reshaping by Labour	367.2	m3 (insitu)	151		m3 (insitu)	65		m3 (insitu)	346	292	1,220																																																																																																																																																																												
By Towed Grader / Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			0																																																																																																																																																																												
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Quantities verified and accepted by the Contractor For the Employer Name: _____ Date: _____ Name: _____ Date: _____ Signature: _____ Signature: _____																																																																																																																																																																																							

Road Improvement Plan										County		Lalkipia		From:		4+000		To:		5+000		Page:		5			
Chain- age	(kilometres)																										
	(metres)																										
Road form.	Subgrade		G	A	FILL	L																					
	Cross section		A	A	FILL	L																					
Earthworks/ Reshaping	Method: RES, ETL or Fill		FILL	L																							
	Choice of reshaping: L, T or E		L	L																							
Gra-vel	Volume of ETL or Fill (m3/m)																										
	Total	Thickness (cm.comp.)	120	120																							
Improved Subgrade	720	Source (quarry No.)																									
	Total	Thickness (cm.comp.)	1800	300																							
	Source (quarry No.)																										
	Longitudinal gradient (in %)																										
Mitre drains	Total	Number left =																									
		Number right =																									
Catch water	Total	Length of drain left =																									
		Length of drain right =																									
Culverts	N/Ex	Chainage (m)																									
		New / Existing line																									
	CD	3	= Cross drainage																								
	AC		= Access culvert/drift																								
	AD	0	= Left/right																								
	Length (m)	0	Ø 450 mm																								
		6	Ø 600mm																								
Ramp	9	Ø 900 mm																									
		Earth fill (m3)																									
Head- walls	Haunch Type																										
	T4=8	T3=	Inlet (Material/Type)																								
Scour Checks	T2=1	T1=1	Outlet (Material/Type)																								
	SM		= Material this sheet/ Spacing left (m) =																								
	0		Spacing right (m) = =Total No. this sheet																								
	Additional Instruction as per Reference																										

Quantity Assessment		County		Laikipia		From:		4+000		To:		5+000		Page:		5	
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Chainage:		4+000		4+200		4+400		4+600		4+800		5+000	
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Measurements for Clearing:

		1 to 4 readings*										
Bush Clearing	8	8		8			m	8	8		8	
Grass Cutting							m					
Grubbing	7	7		7			m	7	7		7	
0 Tree and Stump Removal	0						m	0				

Free Clearance Width for Calculating areas

		Aver. (m)					1 to 4 readings*						
m	8	8		8			m	8	8		8		m
m							m						m
m	7	7		7			m	7	7		7		m
m	0						m	0					m

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:

Height of cut < 0.25m	7					cm	9				cm					cm	16				cm
-----------------------	---	--	--	--	--	----	---	--	--	--	----	--	--	--	--	----	----	--	--	--	----

Height of Cut for calculating volumes

						cm	1				cm					cm
--	--	--	--	--	--	----	---	--	--	--	----	--	--	--	--	----

For Reshaping:

Existing Roads	12						10						7					10				cm	8				cm
----------------	----	--	--	--	--	--	----	--	--	--	--	--	---	--	--	--	--	----	--	--	--	----	---	--	--	--	----

Difference in Level between Exist. Camber and Side Drain for calculating volumes

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Quantities										Total this page	
Bush Clearing	1600	m2		1,600	m2		1,600	m2		1,600	8,000
Grass Cutting		m2			m2			m2			0
Grubbing	1400	m2		1,400	m2		1,400	m2		1,400	7,000
Tree and Stump Removal		No.		0	No.		0	No.		0	0
											0
Height of cut < 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Height of cut > 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Drains full re-construction		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Reshaping by Labour	410	m3 (insitu)		432	m3 (insitu)		464	m3 (insitu)		432	2,192
By Towed Grader / Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
By Equipment Based Meth.		m3 (insitu)			m3 (insitu)			m3 (insitu)			0

Quantities verified and accepted by the Contractor

For the Employer

Name: _____ Date: _____ Signature: _____

Name: _____ Date: _____ Signature: _____

Road Improvement Plan										County		Lalkipia		From: 5+000		To: 6+000		Page: 6			
Chain- age	(kilometres)																				
	(metres)																				
Road form.	Subgrade		G	A	G	A	G	A	G	A	G	A	G	A	G	A	G	A			
	Cross section		A	A	G	A	G	A	G	A	G	A	G	A	G	A	G	A			
Earthworks/ Reshaping	Method: RES, ETL or Fill		FILL	L	FILL	L	FILL	L	FILL	L	FILL	L	FILL	L	FILL	L	FILL	L			
	Choice of reshaping: L, T or E		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
	Volume of ETL or Fill (m3/m)																				
	Total	Thickness (cm.comp.)	720	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120			
Improved Subgrade	Total	Thickness (cm.comp.)	1800	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300			
		Source (quarry No.)																			
			Longitudinal gradient (in %)			-0.63				-0.73			-0.78		-0.95		-1.18	0.45	0.64	1.13	0.63
Mitre drains	Total	Number left =																			
		Number right =																			
Catch water	Total	Length of drain left =																			
		Length of drain right =																			
Culverts	N/Ex	Chainage (m) New / Existing line																			
	CD	2	= Cross drainage																		
	AC		= Access culvert/drift																		
	AD	0	= Left/right																		
	Length (m)	0	Ø 450 mm																		
		0	Ø 600mm																		
		19	Ø 900 mm																		
Ramp		Earth fill (m3)																			
		Haunch Type																			
Head- walls	T4=8	T3=	Inlet (Material/Type)																		
	T2=1	T1=1	Outlet (Material/Type)																		
Scour Checks	SM		= Material this sheet/ Spacing left (m) =																		
	0		Spacing right (m) = =Total No. this sheet																		
Additional Instruction as per Reference																					

Quantity Assessment		County		Laikipia		From: 5+000		To: 6+000		Page: 6	
Chainage:		5+000		5+200		5+400		5+600		5+800	
6+000											

Measurements for Clearing:											
1 to 4 readings*)											
Bush Clearing	8	8		8			m	8	8	8	
Grass Cutting							m				
Grubbing	7	7		7			m	7	7	7	
0 Tree and Stump Removal	0						m	0			

Free Clearance Width for Calculating areas											
Aver. (m) 1 to 4 readings*)											
m	8	8		8			m	8	8	8	
m							m				
m	7	7		7			m	7	7	7	
m	0						m	0			

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:											
Height of Cut for calculating volumes											
Height of cut < 0.25m	7					cm	9				cm

For Reshaping:											
Difference in Level between Exist. Camber and Side Drain for calculating volumes											
Existing Roads	12						10				
							7				
							10				
						cm	8				cm

Quantities										Total this page
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000
Grass Cutting		m2		m2		m2		m2		0
Grubbing	1400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000
Tree and Stump Removal		No.	0	No.	0	No.	0	No.	0	0
										0
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Reshaping by Labour	410	m3 (insitu)	432	m3 (insitu)	464	m3 (insitu)	432	m3 (insitu)	454	2,192
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0

Quantities verified and accepted by the Contractor				Name:		Date:		Signature:	
For the Employer				Name:		Date:		Signature:	

Road Improvement Plan										County		Lalkipia		From:		6+000		To:		7+000		Page:		7				
Chain- age	(kilometres)																											
	(metres)																											
Road form.	Subgrade		G	A																								
	Cross section		A	A																								
Earthworks/ Reshaping	Method: RES, ETL or Fill		FILL	L																								
	Choice of reshaping: L, T or E		L	L																								
	Volume of ETL or Fill (m3/m)																											
Gra-vel	Total	Thickness (cm.comp.)																										
	720	Source (quarry No.)																										
Improved Subgrade	Total	Thickness (cm.comp.)																										
	1800	Source (quarry No.)																										
Longitudinal gradient (in %)																												
Mitre drains	Total	Number left =																										
		Number right =																										
Catch water	Total	Length of drain left =																										
		Length of drain right =																										
Culverts	N/Ex	Chainage (m)																										
		New / Existing line																										
	CD	2	= Cross drainage																									
	AC		= Access culvert/drift																									
	AD	0	= Left/right																									
	Length (m)	0	Ø 450 mm																									
		0	Ø 600mm																									
0		Ø 900 mm																										
Ramp		Earth fill (m3)																										
	Haunch Type																											
Head- walls	T4=8	T3=	Inlet (Material/Type)																									
	T2=1	T1=1	Outlet (Material/Type)																									
Scour Checks	SM		= Material this sheet/ Spacing left (m) =																									
	0		Spacing right (m) = =Total No. this sheet																									
Additional Instruction as per Reference																												

Quantity Assessment		County		Laikipia		From:		6+000		To:		7+000		Page:		7	
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Chainage:		6+000		6+200		6+400		6+600		6+800		7+000	
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Measurements for Clearing:

		1 to 4 readings*									
Bush Clearing	8	8		8		m	8	8		8	
Grass Cutting						m					
Grubbing	7	7		7		m	7	7		7	
0 Tree and Stump Removal	0					m	0				

Free Clearance Width for Calculating areas

		Aver. (m)				1 to 4 readings*						
m	8	8		8		m	8	8		8		m
m						m						m
m	7	7		7		m	7	7		7		m
m	0					m	0					m

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:

Height of cut < 0.25m	7					cm	9					cm						cm
-----------------------	---	--	--	--	--	----	---	--	--	--	--	----	--	--	--	--	--	----

Height of Cut for calculating volumes

						cm	1					cm	16					cm
--	--	--	--	--	--	----	---	--	--	--	--	----	----	--	--	--	--	----

For Reshaping:

Existing Roads	12						10						7					10					cm	8					cm
----------------	----	--	--	--	--	--	----	--	--	--	--	--	---	--	--	--	--	----	--	--	--	--	----	---	--	--	--	--	----

Difference in Level between Exist. Camber and Side Drain for calculating volumes

Quantities										Total this page	
Bush Clearing	1600	m2		1,600	m2		1,600	m2		1,600	8,000
Grass Cutting		m2			m2			m2			0
Grubbing	1400	m2		1,400	m2		1,400	m2		1,400	7,000
Tree and Stump Removal		No.		0	No.		0	No.		0	0
										0	
Height of cut < 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Height of cut > 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Drains full re-construction		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Reshaping by Labour	410	m3 (insitu)		432	m3 (insitu)		464	m3 (insitu)		432	2,192
By Towed Grader / Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
By Equipment Based Meth.		m3 (insitu)			m3 (insitu)			m3 (insitu)			0

Quantities verified and accepted by the Contractor

For the Employer

Name: _____ Date: _____ Signature: _____

Name: _____ Date: _____ Signature: _____

[illegible]

Quantity Assessment		County		Laikipia		From: 7+000		To: 8+000		Page: 8	
Chainage:		7+000		7+200		7+400		7+600		7+800	
8+000											

Measurements for Clearing:											
1 to 4 readings*)											
Bush Clearing	8	8		8			m	8	8	8	
Grass Cutting							m				
Grubbing	7	7		7			m	7	7	7	
0 Tree and Stump Removal	0						m	0			

Free Clearance Width for Calculating areas											
Aver. (m) 1 to 4 readings*)											
m	8	8		8			m	8	8	8	
m							m				
m	7	7		7			m	7	7	7	
m	0						m	0			

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:											
Height of Cut for calculating volumes											
Height of cut < 0.25m	7					cm	9				cm

For Reshaping:											
Difference in Level between Exist. Camber and Side Drain for calculating volumes											
Existing Roads	12						10				
							7				

Quantities										Total this page
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000
Grass Cutting		m2		m2		m2		m2		0
Grubbing	1400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000
Tree and Stump Removal		No.	0	No.	0	No.	0	No.	0	0
										0
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Reshaping by Labour	410	m3 (insitu)	432	m3 (insitu)	464	m3 (insitu)	432	m3 (insitu)	454	2,192
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0

Quantities verified and accepted by the Contractor				Name:		Date:		Signature:	
For the Employer				Name:		Date:		Signature:	

[illegible]

Quantity Assessment		County		Laikipia		From:		8+000		To:		9+000		Page:		9	
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Chainage:		8+000		8+200		8+400		8+600		8+800		9+000	
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Measurements for Clearing:

		1 to 4 readings*								
Bush Clearing	8	8		8		m	8	8	8	
Grass Cutting						m				
Grubbing	7	7		7		m	7	7	7	
0 Tree and Stump Removal	0					m	0			

Free Clearance Width for Calculating areas

		Aver. (m)				1 to 4 readings*					
m	8	8		8		m	8	8	8		m
m						m					m
m	7	7		7		m	7	7	7		m
m	0					m	0				m

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:

Height of cut < 0.25m	7					cm	9					cm						cm
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Height of Cut for calculating volumes

						cm	1					cm	16					cm
--	--	--	--	--	--	----	---	--	--	--	--	----	----	--	--	--	--	----

For Reshaping:

Existing Roads	12						10						7					10					cm	8					cm
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Difference in Level between Exist. Camber and Side Drain for calculating volumes

Quantities										Total this page	
Bush Clearing	1600	m2		1,600	m2		1,600	m2		1,600	8,000
Grass Cutting		m2			m2			m2			0
Grubbing	1400	m2		1,400	m2		1,400	m2		1,400	7,000
Tree and Stump Removal		No.		0	No.		0	No.		0	0
										0	
Height of cut < 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Height of cut > 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Drains full re-construction		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Reshaping by Labour	410	m3 (insitu)		432	m3 (insitu)		464	m3 (insitu)		432	2,192
By Towed Grader / Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
By Equipment Based Meth.		m3 (insitu)			m3 (insitu)			m3 (insitu)			0

Quantities verified and accepted by the Contractor

For the Employer

Name: _____ Date: _____ Signature: _____

Name: _____ Date: _____ Signature: _____

[illegible]

Quantity Assessment		County		Laikipia		From:		9+000		To:		10+000		Page:		10	
Chainage:		9+000		9+200		9+400		9+600		9+800		10+000					

Measurements for Clearing:															Free Clearance Width for Calculating areas														
1 to 4 readings*)															Aver. (m) 1 to 4 readings*)														
Bush Clearing	8	8		8			m	8	8	8					m	8	8	8			m	8	8	8			m		
Grass Cutting							m								m						m						m		
Grubbing	7	7		7			m	7	7	7					m	7	7	7			m	7	7	7			m		
0 Tree and Stump Removal	0						m	0							m	0					m	0					m		

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:															Height of Cut for calculating volumes														
Height of cut < 0.25m	7						cm	9							cm						cm	1					cm		

For Reshaping:															Difference in Level between Exist. Camber and Side Drain for calculating volumes														
Existing Roads	12							10								7						10					cm		

Quantities										Total this page	
Bush Clearing	1600	m2		1,600	m2		1,600	m2		1,600	8,000
Grass Cutting		m2			m2			m2			0
Grubbing	1400	m2		1,400	m2		1,400	m2		1,400	7,000
Tree and Stump Removal		No.		0	No.		0	No.		0	0
										0	
Height of cut < 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Height of cut > 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Drains full re-construction		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Reshaping by Labour	410	m3 (insitu)		432	m3 (insitu)		464	m3 (insitu)		432	2,192
By Towed Grader / Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
By Equipment Based Meth.		m3 (insitu)			m3 (insitu)			m3 (insitu)			0

Quantities verified and accepted by the Contractor				Name:		Date:		Signature:	
For the Employer				Name:		Date:		Signature:	

Quantity Assessment		County		Laikipia		From:		10+000		To:		11+000		Page:		11	
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Chainage:		10+000		10+200		10+400		10+600		10+800		11+000	
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Measurements for Clearing:

		1 to 4 readings*								
Bush Clearing	8	8		8		m	8	8		8
Grass Cutting						m				
Grubbing	7	7		7		m	7	7		7
0 Tree and Stump Removal	0					m	0			

Free Clearance Width for Calculating areas

		Aver. (m)				1 to 4 readings*					
m	8	8		8		m	8	8		8	m
m						m					m
m	7	7		7		m	7	7		7	m
m	0					m	0				m

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:

Height of cut < 0.25m	7					cm	9					cm						cm
-----------------------	---	--	--	--	--	----	---	--	--	--	--	----	--	--	--	--	--	----

Height of Cut for calculating volumes

						cm	1					cm	16					cm
--	--	--	--	--	--	----	---	--	--	--	--	----	----	--	--	--	--	----

For Reshaping:

Existing Roads	12						10						7					10					cm	8					cm
----------------	----	--	--	--	--	--	----	--	--	--	--	--	---	--	--	--	--	----	--	--	--	--	----	---	--	--	--	--	----

Difference in Level between Exist. Camber and Side Drain for calculating volumes

Quantities										Total this page	
Bush Clearing	1600	m2		1,600	m2		1,600	m2		1,600	8,000
Grass Cutting		m2			m2			m2			0
Grubbing	1400	m2		1,400	m2		1,400	m2		1,400	7,000
Tree and Stump Removal		No.		0	No.		0	No.		0	0
										0	
Height of cut < 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Height of cut > 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Drains full re-construction		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
Reshaping by Labour	410	m3 (insitu)		432	m3 (insitu)		464	m3 (insitu)		432	2,192
By Towed Grader / Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			0
By Equipment Based Meth.		m3 (insitu)			m3 (insitu)			m3 (insitu)			0

Quantities verified and accepted by the Contractor

For the Employer

Name: _____ Date: _____ Signature: _____

Name: _____ Date: _____ Signature: _____

[illegible]

Quantity Assessment		County		Laikipia		From: 11+000		To: 11+355		Page: 12	
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Chainage:		11+000		11+200		11+400	
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Measurements for Clearing:

	1 to 4 readings*												
Bush Clearing	8	8		8			m	8	8		8		
Grass Cutting							m						
Grubbing	7	7		7			m	7	7		7		
0 Tree and Stump Removal	0						m	0					

Free Clearance Width for Calculating areas

												Aver. (m)	1 to 4 readings*				
m								m				m					m
m								m				m					m
m								m				m					m
m								m				m					m

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:

Height of cut < 0.25m	7					cm	9				cm					cm					cm
-----------------------	---	--	--	--	--	----	---	--	--	--	----	--	--	--	--	----	--	--	--	--	----

Height of Cut for calculating volumes

						cm					cm					cm					cm
--	--	--	--	--	--	----	--	--	--	--	----	--	--	--	--	----	--	--	--	--	----

For Reshaping:

Existing Roads	12						10									cm					cm
----------------	----	--	--	--	--	--	----	--	--	--	--	--	--	--	--	----	--	--	--	--	----

Difference in Level between Exist. Camber and Side Drain for calculating volumes

																cm					cm
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----	--	--	--	--	----

Quantities										Total this page
Bush Clearing	1600	m2		1,240	m2		m2		m2	2,840
Grass Cutting		m2			m2		m2		m2	0
Grubbing	1400	m2		1,085	m2		m2		m2	2,485
Tree and Stump Removal		No.		0	No.		No.		No.	0
										0
Height of cut < 0.25m		m3 (insitu)			m3 (insitu)		m3 (insitu)		m3 (insitu)	0
Height of cut > 0.25m		m3 (insitu)			m3 (insitu)		m3 (insitu)		m3 (insitu)	0
Embankment		m3 (insitu)			m3 (insitu)		m3 (insitu)		m3 (insitu)	0
Drains full re-construction		m3 (insitu)			m3 (insitu)		m3 (insitu)		m3 (insitu)	0
Reshaping by Labour	410	m3 (insitu)		335	m3 (insitu)		m3 (insitu)		m3 (insitu)	745
By Towed Grader / Labour		m3 (insitu)			m3 (insitu)		m3 (insitu)		m3 (insitu)	0
By Equipment Based Meth.		m3 (insitu)			m3 (insitu)		m3 (insitu)		m3 (insitu)	0

Quantities verified and accepted by the Contractor

For the Employer

Name: _____ Date: _____ Signature: _____

Name: _____ Date: _____ Signature: _____