

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
7	8,000	800	8,800	-	-	7,000	10	2,392	239
8	8,000	800	8,800	-	-	7,000	10	2,392	239
9	8,000	800	8,800	-	-	7,000	10	2,392	239
10	8,000	800	8,800	-	-	7,000	10	2,392	239
11	8,000	800	8,800	-	-	7,000	10	2,392	239
12	2,840	284	3,124	-	-	2,485	10	945	95
Total	42,840	4,284	47,124	-	-	37,485	60	12,907	1,291

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
														360
														360
														720
														720
														720
														720
7	-	-	-	2	-	-	2	2	-	-	-	-	-	720
8	6	-	6	1	-	-	1	1	-	-	-	-	-	720
9	5	-	5	1	-	-	1	1	-	-	-	-	-	-
10	5	-	5	1	-	-	1	1	-	-	-	-	-	-
11	6	21	27	1	-	4	1	1	-	-	-	-	-	720
12	32	-	32	3	-	-	3	3	-	-	-	-	-	259
Total	54	21	76	9	-	4	9	9	-	-	-	-	-	6,019

[illegible]

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

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	
Chainage:		6+000		6+200		6+400		6+600		6+800		7+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	8	8		8			
Grass Cutting							m					m					m					m							
Grubbing	7	7		7			m	7	7		7	m	7	7		7	m	7	7		7	m	7	7		7			
0 Tree and Stump Removal	0						m	0				m	0				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						cm	1						cm	16					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	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:	

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

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

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:		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						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		Laikipia		From:		10+000		To:		11+000		Page:		11			
Chain- age	Road form.	(kilometres)		10+100	10+200	10+300	10+400	10+500	10+600	10+700	10+800	10+900	11+000	11+000	11+000	11+000	11+000	11			
		(metres)																			
Earthworks/ Reshaping	Subgrade	Cross section	G	A	FILL	L	G	A	FILL	L	G	A	FILL	L	G	A	FILL	L			
																			Method: RES, ETL or Fill		
																			Choice of reshaping: L, T or E		
Gra-vel	Total	Thickness (cm,comp.)	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120			
																			Source (quarry No.)		
Improved Subgrade	Total	Thickness (cm,comp.)	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300			
																			Source (quarry No.)		
Longitudinal gradient (in %)				-1.84		-2.38		-1.55		-1.52		-1.95		-1.71		-1.82		-2.45			
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		10+100N		10+275Ex		10+330Ex								10+855Ex					
		CD	1	= Cross drainage			AC		AC								AC L&R				
	AC		= Access culvert/drift			AC		AC													
	AD	4	= Left/right			R		L													
	Length (m)	0	Ø 450 mm			5.7		5										10.7			
		21	Ø 600mm																		
		6	Ø 900 mm																		
Ramp		Earth fill (m3)																			
		Haunch Type			IV		IV										IV				
Head- walls	T4=8	T3=	Inlet (Material/Type)		1		1		1		1		1		1		1		1		
	T2=1	T1=1	Outlet (Material/Type)		1		1		1		1		1		1		1		1		
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:		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
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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: 11+000		To: 11+355		Page: 12																																																																																																																																																											
Chainage: 11+000 11+200 11+400																																																																																																																																																																					
Measurements for Clearing: <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <th colspan="2"></th> <th colspan="4">1 to 4 readings*</th> <th></th> <th colspan="4"></th> </tr> <tr> <td>Bush Clearing</td> <td>8</td> <td>8</td> <td></td> <td>8</td> <td></td> <td>m</td> <td>8</td> <td>8</td> <td>8</td> <td></td> </tr> <tr> <td>Grass Cutting</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>m</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Grubbing</td> <td>7</td> <td>7</td> <td></td> <td>7</td> <td></td> <td>m</td> <td>7</td> <td>7</td> <td>7</td> <td></td> </tr> <tr> <td>0 Tree and Stump Removal</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td>m</td> <td>0</td> <td></td> <td></td> <td></td> </tr> </table> Free Clearance Width for Calculating areas <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <th colspan="2"></th> <th colspan="4">Aver. (m)</th> <th colspan="4">1 to 4 readings*</th> <th></th> </tr> <tr><td>m</td><td></td><td></td><td></td><td></td><td></td><td>m</td><td></td><td></td><td></td><td></td><td>m</td></tr> <tr><td>m</td><td></td><td></td><td></td><td></td><td></td><td>m</td><td></td><td></td><td></td><td></td><td>m</td></tr> <tr><td>m</td><td></td><td></td><td></td><td></td><td></td><td>m</td><td></td><td></td><td></td><td></td><td>m</td></tr> <tr><td>m</td><td></td><td></td><td></td><td></td><td></td><td>m</td><td></td><td></td><td></td><td></td><td>m</td></tr> </table>														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						Aver. (m)				1 to 4 readings*					m						m					m	m						m					m	m						m					m	m						m					m																																								
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