

Summary from the Improvement Plan - Batch 2
MATERI KAMARANDI LOT 2 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
20		8,000	800	8,800	-	-	7,000	10	1,744	174
21		8,000	800	8,800	-	-	7,000	10	1,561	156
22		8,000	800	8,800	-	-	7,000	10	1,420	142
23		8,000	800	8,800	-	-	7,000	10	2,392	239
24		8,000	800	8,800	-	-	7,000	10	2,392	239
25		8,000	800	8,800	-	-	7,000	10	2,392	239
26		8,000	800	8,800	-	-	7,000	10	2,392	239
Total		56,000	5,600	61,600	-	-	49,000	70	14,295	1,430

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	14-60-001	
KM		CULVERTS(M)					Type (No)		T1 No	T2 No	T4 No	MITRE No	C/ W	S/ C		Gravel (150mm) m3	ETB m3
	1200	900	600	Total	CD	AC	AD				m		L No	R No			
20	-	82	-	82	3	-	-	3	3	-	-	-	-	-	-	720	
21	-	8	6	14	2	-	-	2	2	-	-	-	-	-	-	720	
22	-	65	19	84	7	-	-	7	7	-	-	-	-	-	-	-	
23	-	29	6	35	4	-	-	4	4	-	-	-	-	-	-	-	
24	-	21	-	21	3	-	2	3	3	-	-	-	-	-	-	720	
25	-	7	6	13	2	-	1	2	2	-	-	-	-	-	-	720	
26	10	20	-	20	5	-	1	5	5	-	-	-	-	-	-	720	
Total	10	232	37	269	26	-	4	26	26	-	-	-	-	-	-	3,600	-

[illegible]

Quantity Assessment	Road No.	County	Tharaka Nithi	From:	10+960	To:	11+000	Page:	1
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Chainage:	10+000	10+200	10+400	10+600	10+800	11+000
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Measurements for Clearing:

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

Free Clearance Width for Calculating areas

	Aver. (m)	1 to 4 readings*)		
m	8	8	8	
m				
m	7	7	7	
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		cm		cm		cm		cm	19		cm
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Height of Cut for calculating volumes

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For Reshaping:

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

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Quantities										Total this page
Bush Clearing		m2		m2		m2		m2	320	320
Grass Cutting		m2		m2		m2		m2		0
Grubbing		m2		m2		m2		m2	280	280
Tree and Stump Removal		No.		No.		No.		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		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	71	71
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: _____

[illegible]

Quantity Assessment		County		Tharaka Nithi		From:		11+000		To:		12+000		Page:		2	
Chainage:		11+000		11+200		11+400		11+600		11+800		12+000					

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

Chain- age	Road form.	(kilometres)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Quantity Assessment		County		Tharaka Nithi		From:		12+000		To:		13+000		Page:		3	
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Chainage:		12+000		12+200		12+400		12+600		12+800		13+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	8	8		8	8		m
m							m					m							m
m	7	7			7		m	7	7	7		m	7	7		7	7	7	m
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 < 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					21				cm
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Difference in Level between Exist. Camber and Side Drain for calculating volumes

Existing Roads	30							21					3					29					21				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	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		m3 (insitu)	313	m3 (insitu)	508	m3 (insitu)	227	m3 (insitu)	313	1,361
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: _____

Road Improvement Plan				County	Tharaka Nithi	From:	13+000	To:	14+000	Page:	4				
Chain- age	Road form.	(kilometres)		Subgrade	Cross section	Earthworks/ Reshaping	Gravel	Improved Subgrade	Longitudinal gradient (in %)	Mitre drains	Catch water	Culverts	Head- walls	Scour Checks	Additional Instruction as per Reference
		(metres)													
14+000	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
13+900	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
13+800	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
13+700	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
13+600	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
13+500	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
13+400	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
13+300	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
13+200	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
13+100	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
13+000	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
12+900	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
12+800	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
12+700	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
12+600	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
12+500	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
12+400	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
12+300	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
12+200	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
12+100	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
12+000	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
11+900	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
11+800	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
11+700	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
11+600	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										
11+500	G	A	FILL	L	Heavy Grading										
	G	A	FILL	L	Heavy Grading										

Quantity Assessment		County		Tharaka Nithi		From:		13+000		To:		14+000		Page:		4																																																																																																																																																
Chainage:		13+000		13+200		13+400		13+600		13+800		14+000																																																																																																																																																				
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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	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																																																																																																																																																						
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Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0																																																																																																																																																						
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Quantities verified and accepted by the Contractor For the Employer Name: _____ Name: _____ Date: _____ Date: _____ Signature: _____ Signature: _____																																																																																																																																																																

Chain- age	Road form.	Earthworks/ Reshaping	Gravel	Improved Subgrade	Mitre drains	Catch water	Culverts						Head- walls	Scour Checks	Additional Instruction as per Reference																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
							N/Ex	Chainage (m) New / Existing line			Length (m)	Ramp				T4=8 T3=	T2=1 T1=1	SM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
								8	= Cross drainage	0									= Access culvert/drift	0	= Left/right	·	6	62	Earth fill (m3)	Haunch Type	Inlet (Material/Type)	Outlet (Material/Type)	= Material this sheet/ Spacing left (m) =	Spacing right (m) = Total No. this sheet																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		Method: RES, ETL or FILL		Thickness (cm,comp.)		Longitudinal gradient (in %)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</	

Quantity Assessment		County		Tharaka Nithi		From:		14+000		To:		15+000		Page:		5	
Chainage:		14+000		14+200		14+400		14+600		14+800		15+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	8
m						m					m	
m	7	7		7		m	7	7		7	m	7
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 < 0.25m	7					cm	9				cm					cm	1				cm	16				cm
-----------------------	---	--	--	--	--	----	---	--	--	--	----	--	--	--	--	----	---	--	--	--	----	----	--	--	--	----

Height of Cut for calculating volumes

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	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

For the Employer

Name: _____ Date: _____ Signature: _____

Name: _____ Date: _____ Signature: _____

[illegible]

Quantity Assessment		County		Tharaka Nithi		From:		15+000		To:		16+000		Page:		6	
Chainage:		15+000		15+200		15+400		15+600		15+800		16+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																																			
Grubbing		7	7		7				7	7		7				7	7		7				7	7		7									
0	Tree and Stump Removal		0						0							0							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	m2	1,600	8,000	
Grass Cutting										0	
Grubbing	1400		1,400		1,400		1,400		1,400	7,000	
Tree and Stump Removal			No.		0		No.		0	No.	0
										0	
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0
Height of cut > 0.25m											0
Embankment											0
Drains full re-construction											0
Reshaping by Labour	410		432		464		432		454		2,192
By Towed Grader / Labour											0
By Equipment Based Meth.											0

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

[illegible]

Quantity Assessment		County		Tharaka Nithi		From:		16+000		To:		17+000		Page:		7	
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Chainage:		16+000		16+200		16+400		16+600		16+800		17+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	1					cm	16					cm
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Height of Cut for calculating volumes

For Reshaping:

Existing Roads	12						10					7					10					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	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

For the Employer

Name: _____ Date: _____ Signature: _____

Name: _____ Date: _____ Signature: _____

Quantity Assessment				County				Tharaka Nithi				From:				17+000				To:				18+000				Page:				8			
Chainage:				17+000				17+200				17+400				17+600				17+800				18+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	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	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		Tharaka Nithi		From:		18+000		To:		18+960		Page:		9	
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Chainage:		18+000		18+200		18+400		18+600		18+800		19+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	8
m							m					m	m
m	7	7		7			m	7	7	7		m	m
m	0						m	0				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	1				cm	16				cm
-----------------------	---	--	--	--	--	----	---	--	--	--	----	---	--	--	--	----	----	--	--	--	----

Height of Cut for calculating volumes

For Reshaping:

Existing Roads	12						10					7					10					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	m2	1,280	7,680
Grass Cutting		m2		m2		m2		m2		0
Grubbing	1400	m2	1,400	m2	1,400	m2	1,400	m2	1,120	6,720
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)	363	2,102
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: _____