

MARIMA MAKUTANO 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	m²	m³	Soft	Hard
12	227	23	250	-	-	199	10	251	25
13	8,000	800	8,800	-	-	7,000	10	1,744	174
14	8,000	800	8,800	-	-	7,000	10	1,561	156
15	8,000	800	8,800	-	-	7,000	10	1,420	142
16	8,000	800	8,800	-	-	7,000	10	2,392	239
17	8,000	800	8,800	-	-	7,000	10	2,392	239
18									
19									
Total	40,227	4,023	44,250	-	-	35,199	60	9,761	976

[illegible]

[illegible]

Quantity Assessment	Road No.	County	Tharaka Nithi	From:	11+971.6	To:	12+000	Page:	1
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Chainage:	11+000	11+200	11+400	11+600	11+800	12+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*
	8	8 8
	7	7 7
	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			cm
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Height of Cut for calculating volumes

				cm				cm			cm			cm			cm
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For Reshaping:

Existing Roads				cm				cm			cm			cm
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				cm				cm			cm			cm
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Quantities										Total this page
Bush Clearing		m2		m2		m2		m2	227	227
Grass Cutting		m2		m2		m2		m2		0
Grubbing		m2		m2		m2		m2	199	199
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)	51	51
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		Tharaka Nithi		From:		12+000		To:		13+000		Page:		2																																																																																																																					
Chainage:		12+000		12+200		12+400		12+600		12+800		13+000																																																																																																																									
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Bush Clearing	8	8		8			m	8	8		8			m	8	8		8			m	8	8		8			m																																																																																																									
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Grubbing	7	7		7			m	7	7		7			m	7	7		7			m	7	7		7			m																																																																																																									
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Quantities																																																																																																																																					
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Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	m2	1,600							8,000																																																																																																																			
Grass Cutting		m2		m2		m2		m2		m2								0																																																																																																																			
Grubbing	1400	m2	1,400	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	No.	0							0																																																																																																																			
																0																																																																																																																					
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Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)								0																																																																																																																			
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)								0																																																																																																																			
Drains full re-construction		m3 (insitu)		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	m3 (insitu)	1,544																																																																																																																										
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)								0																																																																																																																			
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Quantity Assessment		County		Tharaka Nithi		From:		13+000		To:		14+000		Page:		3	
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Chainage:		13+000		13+200		13+400		13+600		13+800		14+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	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
----------------	----	--	--	--	--	--	----	--	--	--	--	---	--	--	--	--	----	--	--	--	----	----	--	--	--	----

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: _____

Quantity Assessment		County		Tharaka Nithi		From:		14+000		To:		15+000		Page:		4																																																																																	
Chainage:		14+000		14+200		14+400		14+600		14+800		15+000																																																																																					
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Bush Clearing	8	8	8	8	m	8	8	8	8	m	8	8	8	8	m	8	8	8	m																																																																														
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Grubbing	7	7	7	7	m	7	7	7	7	m	7	7	7	7	m	7	7	7	m																																																																														
0 Tree and Stump Removal	0				m	0				m	0				m	0			m																																																																														
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Grubbing	1400	m2	1,400	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	No.	0						0																																																																																
																	0																																																																																
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)							0																																																																																
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)	9	m3 (insitu)	4	m3 (insitu)							13																																																																																
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)							0																																																																																
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)							0																																																																																
Reshaping by Labour	367.2	m3 (insitu)	151	m3 (insitu)	65	m3 (insitu)	346	m3 (insitu)	292	m3 (insitu)							1,220																																																																																
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)							0																																																																																
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)							0																																																																																
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Chain- age	Road form.	(kilometres)		Gravel	Improved Subgrade	Mitre drains	Catch water	Culverts				Head- walls	Scour Checks	Additional Instruction as per Reference	
		(metres)						Total	Chainage (m) New / Existing line	Ramp	T4=8 T3=				T2=1 T1=1
		Subgrade	Cross section												
Method: RES, ETL or Fill															
Choice of reshaping: L, T or E															
Volume of ETL or Fill (m3/m)															
Total															
600															
Thickness (cm,comp.)															
RC SLAB (RC)															
Total															
0															
Thickness (cm,comp.)															
Source (quarry No.)															
Longitudinal gradient (in %)															
Total															
Number left =															
Number right =															
Total															
Length of drain left =															
Length of drain right =															
N/Ex															
CD															
AC															
AD															
Length (m)															
-															
-															
-															
Ramp															
Earth fill (m3)															
Haunch Type															
T4=8 T3=															
T2=1 T1=1															
SM															
0															
Inlet (Material/Type)															
Outlet (Material/Type)															
= Material this sheet/ Spacing left (m) =															
Spacing right (m) = =Total No. this sheet															

17+000	G	A	FILL	L	Heavy Grading																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Quantity Assessment		County		Tharaka Nithi		From:		16+000		To:		17+000		Page:		6																																																																																																																																																																																																																
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Estimated measurements for small cut to fill: <table border="1"> <tr> <td>Height of cut < 0.25m</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td>cm</td> <td>9</td> <td></td> <td></td> <td></td> <td>cm</td> <td>1</td> <td></td> <td></td> <td></td> <td>cm</td> <td>16</td> <td></td> <td></td> <td></td> <td>cm</td> </tr> </table>																		Height of cut < 0.25m	7					cm	9				cm	1				cm	16				cm																																																																																																																																																																																									
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<table border="1"> <tr> <td colspan="15">Quantities</td> <td colspan="3">Total this page</td> </tr> <tr> <td>Bush Clearing</td> <td>1600</td> <td>m2</td> <td>1,600</td> <td>m2</td> <td>1,600</td> <td>m2</td> <td>1,600</td> <td>m2</td> <td>1,600</td> <td>m2</td> <td>1,600</td> <td colspan="3"></td> <td>8,000</td> </tr> <tr> <td>Grass Cutting</td> <td></td> <td>m2</td> <td></td> <td>m2</td> <td></td> <td>m2</td> <td></td> <td>m2</td> <td></td> <td>m2</td> <td></td> <td colspan="3"></td> <td>0</td> </tr> <tr> <td>Grubbing</td> <td>1400</td> <td>m2</td> <td>1,400</td> <td>m2</td> <td>1,400</td> <td>m2</td> <td>1,400</td> <td>m2</td> <td>1,400</td> <td>m2</td> <td>1,400</td> <td colspan="3"></td> <td>7,000</td> </tr> <tr> <td>Tree and Stump Removal</td> <td></td> <td>No.</td> <td>0</td> <td>No.</td> <td>0</td> <td>No.</td> <td>0</td> <td>No.</td> <td>0</td> <td>No.</td> <td>0</td> <td colspan="3"></td> <td>0</td> </tr> <tr> <td colspan="15"></td> <td>0</td> </tr> <tr> <td>Height of cut < 0.25m</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td colspan="3"></td> <td>0</td> </tr> <tr> <td>Height of cut > 0.25m</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td colspan="3"></td> <td>0</td> </tr> <tr> <td>Embankment</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td colspan="3"></td> <td>0</td> </tr> <tr> <td>Drains full re-construction</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td colspan="3"></td> <td>0</td> </tr> <tr> <td>Reshaping by Labour</td> <td>410</td> <td>m3 (insitu)</td> <td>432</td> <td>m3 (insitu)</td> <td>464</td> <td>m3 (insitu)</td> <td>432</td> <td>m3 (insitu)</td> <td>454</td> <td>m3 (insitu)</td> <td>2,192</td> <td colspan="3"></td> </tr> <tr> <td>By Towed Grader / Labour</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td>0</td> <td colspan="3"></td> </tr> <tr> <td>By Equipment Based Meth.</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td>0</td> <td colspan="3"></td> </tr> </table>																		Quantities															Total this page			Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	m2	1,600				8,000	Grass Cutting		m2		m2		m2		m2		m2					0	Grubbing	1400	m2	1,400	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	No.	0				0																0	Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)					0	Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)					0	Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)					0	Drains full re-construction		m3 (insitu)		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	m3 (insitu)	2,192				By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0				By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0			
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Road Improvement Plan				County		Tharaka Nithi		From: 17+000		To: 18+000		Page: 7							
Chain- age	Road form.	(kilometres)		Earthworks / Reshaping	Gravel	Improved Subgrade	Longitudinal gradient (in %)		Mitre drains	Catch water	Culverts				Head- walls	Scour Checks			
		(metres)					Total				N/Ex	CD	AC	AD			Length (m)	Ramp	T4=8
		Subgrade		Method: RES, ETL or Fill		Thickness (cm,comp.)		Number left =		Length of drain left =		Chainage (m)		= Cross drainage		Inlet (Material/Type)		= Material this sheet/ Spacing left (m) =	
		Cross section		Choice of reshaping: L, T or E		Source (quarry No.)		Number right =		Length of drain right =		New / Existing line		= Access culvert/drift		Outlet (Material/Type)		Spacing right (m) = =Total No. this sheet	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+856EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.11		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-4.47		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-3.60		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-7.69		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
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		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L		17+800EX		1		IV		1	
		G A FILL L		G A FILL L		G A FILL L		-5.20		G A FILL L									

Quantity Assessment		County		Tharaka Nithi		From:		17+000		To:		18+000		Page:		7	
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Chainage:		17+000		17+200		17+400		17+600		17+800		18+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
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Height of Cut for calculating volumes

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	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:		18+000		To:		18+797		Page:		8	
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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
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
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Height of Cut for calculating volumes

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

For Reshaping:

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

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

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Quantities										Total this page
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,576	m2		6,376
Grass Cutting		m2		m2		m2		m2		0
Grubbing	1400	m2	1,400	m2	1,400	m2	1,379	m2		5,579
Tree and Stump Removal		No.	0	No.	0	No.	0	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)	432	m3 (insitu)	464	m3 (insitu)	426	m3 (insitu)		1,732
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: _____