

Chainage:	30+000	30+200	30+400	30+600	30+800	31+000
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Input Measurements:	Free Clearance Width for Calculating areas																								
	Aver. (m) 1 to 4 readings ¹⁾												Aver. (m) 1 to 4 readings												
	Bush Clearing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
	Grass Cutting						m						m						m						m
	Grubbing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	

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

Cross Section Sketch					
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Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																							
	Aver. (m) 1 to 4 readings ¹⁾												Aver. (m) 1 to 4 readings ¹⁾											
	Height of cut < 0.25m	0	0				cm	0					cm	0					cm	0				
Height of cut > 0.25m	0	0				cm	0					cm	0					cm	0					cm

For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
	Existing Roads	0					cm	0					cm	0					cm	0				
Sloping						cm						cm						cm						cm

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

Quantities:	Quantities										Total this page	
	Bush Clearing	400	m2	400	m2	400	m2	400	m2	400	m2	2,000
	Grass Cutting		m2		m2		m2		m2		m2	
	Grubbing	0	m2	0	m2	0	m2	0	m2	0	m2	0
	Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0

	Quantities										Total this page	
	Height of cut < 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0
	Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0
	Embankment/Fill		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0
	Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	1,208
	Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	
	By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	
	By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	

Data Collected by: Name: Date:Signature:

DETAILED IMPROVEMENT PLAN

Road Name: GOTU-MERTI		County: ISIOLO										From: 31+000		To: 32+000									
Chain-age	(kilometres)	31 + 0		31 + 100		31 + 200		31 + 300		31 + 400		31 + 500		31 + 600		31 + 700		31 + 800		31 + 900		32 + 0	
	(metres)																						
Road form.	Subgrade	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG
	Cross section	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Earth-works	Method: RES, ETL or FILL	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES
	Choice of reshaping: L, T or E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	Volume of ETL or Fill (m3/m)																						
Gra-vel	Total																						
	Thickness (cm,comp.)																						
	Source (quarry No.)																						
Longitudinal gradient (in %)		-1		0		1		0		0		0		1		-1		0		-1			
Mitre drains	Total	1				1				1				1				1					
	10			1				1					1			1				1			
Catch water	Total																						
	0																						
Culverts	N	Chainage (m) = New line																					
	Ex	= Existing line																					
	CD	= Cross drainage																					
	AC/D	= Access culvert/ drift																					
	L/R	= Left/ right																					
	Length (m)	Ø 450mm																					
Ø 600mm																							
Ø 900mm																							
Ramp	Earth fill (m3)																						
	H. Concrete (m3)																						
Head-walls	Inlet (Material/Type)																						
	Outlet (Material/Type)																						
Scour Checks	HC	= Material this sheet/ Spacing left (m) =																					
	0	= Spacing right (m) = = Total No. this sheet																					
Additional Instruction as per Reference																							

Chainage:	31+000	31+200	31+400	31+600	31+800	32+000
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Input Measurements:	Free Clearance Width for Calculating areas																								
	Aver. (m) 1 to 4 readings ¹⁾												Aver. (m) 1 to 4 readings												
	Bush Clearing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
	Grass Cutting						m						m						m						m
	Grubbing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	

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

Cross Section Sketch					
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Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																							
	Aver. (m) 1 to 4 readings ¹⁾												Aver. (m) 1 to 4 readings ¹⁾											
	Height of cut < 0.25m	0	0				cm	0					cm	0					cm	0				
Height of cut > 0.25m	0	0				cm	0					cm	0					cm	0					cm

For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
	Existing Roads	0					cm	0					cm	0					cm	0				
Sloping						cm						cm						cm						cm

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

Quantities:	Quantities										Total this page	
	Bush Clearing	400	m2	400	m2	400	m2	400	m2	400	m2	2,000
	Grass Cutting		m2		m2		m2		m2		m2	
	Grubbing	0	m2	0	m2	0	m2	0	m2	0	m2	0
	Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0

	Quantities										Total this page	
	Height of cut < 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0
	Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0
	Embankment/Fill		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0
	Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	1,208
	Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	
	By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	
	By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	

Data Collected by: Name: Date:Signature:

Chainage:	32+000	32+200	32+400	32+600	32+800	33+000
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Input Measurements:	Free Clearance Width for Calculating areas																								
	Aver. (m) 1 to 4 readings ¹⁾										Aver. (m) 1 to 4 readings														
	Bush Clearing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
	Grass Cutting						m						m						m						m
	Grubbing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	

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

Cross Section Sketch					
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Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																						
	Aver. (m) 1 to 4 readings ¹⁾										Aver. (m) 1 to 4 readings ¹⁾												
	Height of cut < 0.25m	0	0				cm	0				cm	0		0	0	0	cm	0		0	0	0
Height of cut > 0.25m	0	0				cm	0				cm	0		0	0	0	cm	0		0	0	0	cm

For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																								
	Existing Roads	0				cm	0				cm	0				cm	0				cm	0			
Sloping					cm					cm					cm					cm					cm

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

Quantities:	Quantities										Total this page	
	Bush Clearing	400	m2	400	m2	400	m2	400	m2	400	m2	2,000
	Grass Cutting		m2		m2		m2		m2		m2	
	Grubbing	0	m2	0	m2	0	m2	0	m2	0	m2	0
	Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0

	Quantities										Total this page	
	Height of cut < 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0
	Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0
	Embankment/Fill		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0
	Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	1,208
	Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	
	By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	
	By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	

Data Collected by: Name: Date:Signature:

Chainage:	33+000	33+200	33+400	33+600	33+800	34+000
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Input Measurements:	Free Clearance Width for Calculating areas																								
	Aver. (m) 1 to 4 readings ¹⁾												Aver. (m) 1 to 4 readings												
	Bush Clearing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
	Grass Cutting						m						m						m						m
	Grubbing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	

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

Cross Section Sketch					
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Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																							
	Aver. (m) 1 to 4 readings ¹⁾												Aver. (m) 1 to 4 readings ¹⁾											
	Height of cut < 0.25m	0	0				cm	0					cm	0	0	0	0	0	cm	0	0	0	0	0
Height of cut > 0.25m	0	0				cm	0					cm	0	0	0	0	0	cm	0	0	0	0	0	cm

For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
	Existing Roads	0					cm	0					cm	0					cm	0				
Sloping						cm						cm						cm						cm

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

Quantities:	Quantities										Total this page	
	Bush Clearing	400	m2	400	m2	400	m2	400	m2	400	m2	2,000
	Grass Cutting		m2		m2		m2		m2		m2	
	Grubbing	0	m2	0	m2	0	m2	0	m2	0	m2	0
	Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0

	Quantities										Total this page	
	Height of cut < 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0
	Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0
	Embankment/Fill		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0
	Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	1,208
	Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	
	By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	
	By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	

Data Collected by: Name: Date:Signature:

Quantity Assessment		GOTU-MERTI		#	#	County: ISIOLO		From: 34+000		To: 35+000 pg		16												
Chainage:	34+000		34+200		34+400		34+600		34+800		35+000													
Input Measurements:	Free Clearance Width for Calculating areas																							
	Aver. (m) 1 to 4 readings ¹⁾						Aver. (m) 1 to 4 readings																	
Bush Clearing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Grass Cutting						m						m						m						m
Grubbing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Tree and stump removal	1	1				m	0					m	0					m	0					m
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Cross Section Sketch																								
Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																							
	Aver. (m) 1 to 4 readings ¹⁾						Aver. (m) 1 to 4 readings ¹⁾																	
Height of cut < 0.25m	0	0				cm	0					cm	0	0	0	0	cm	0	0	0	0	cm		
Height of cut > 0.25m	0	0				cm	0					cm	0	0	0	0	cm	0	0	0	0	cm		
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
Existing Roads	0					cm	0					cm	0				cm	0				cm		
Sloping						cm						cm					cm					cm		
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Quantities:	Quantities										Total this page													
Bush Clearing	400	m2	400	m2	400	m2	400	m2	400	m2	400	2,000												
Grass Cutting		m2		m2		m2		m2		m2														
Grubbing	0	m2	0	m2	0	m2	0	m2	0	m2	0	0												
Tree and stump removal	1	No.	0	No.	0	No.	0	No.	0	No.	0	1												
	Quantities										Total this page													
Height of cut < 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	0												
Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	0												
Embankment/Fill		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0												
Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	1,208												
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
Data Collected by: Name: Date: Signature:																								

Quantity Assessment		GOTU-MERTI				#	#	County: ISIOLO				From: 35+000		To: 36+000 pg		2														
Chainage:	35+000				35+200				35+400				35+600				35+800		36+000											
Input Measurements:	Free Clearance Width for Calculating areas																													
	Aver. (m) 1 to 4 readings ¹⁾																													
Bush Clearing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Grass Cutting						m						m						m						m						m
Grubbing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	0					m
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																														
Cross Section Sketch	-																													
Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																													
	Aver. (m) 1 to 4 readings ¹⁾																													
Height of cut < 0.25m	0	0				cm	0					cm	0	0	0	0	cm	0	0	0	0	cm	0	0	0	0	cm			
Height of cut > 0.25m	0	0				cm	0					cm	0	0	0	0	cm	0	0	0	0	cm	0	0	0	0	cm			
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																													
Existing Roads	0					cm	0					cm	0				cm	0					cm	0				cm		
Sloping						cm						cm					cm						cm					cm		
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																														
Quantities:	Quantities										Total this page																			
Bush Clearing	400	m2	400	m2	400	m2	400	m2	400	m2	400	m2	2,000																	
Grass Cutting		m2		m2		m2		m2		m2		m2																		
Grubbing	0	m2	0	m2	0	m2	0	m2	0	m2	0	m2	0																	
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0																	
	Quantities										Total this page																			
Height of cut < 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0																	
Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0																	
Embankment/Fill		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0																	
Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	1,208																	
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)																		
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)																		
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)																		
Data Collected by: Name: Date: Signature:																														

Quantity Assessment		GOTU-MERTI		#	#	County: ISIOLO		From: 36+000		To: 37+000 pg		3												
Chainage:	36+000		36+200		36+400		36+600		36+800		37+000													
Input Measurements:	Free Clearance Width for Calculating areas																							
	Aver. (m) 1 to 4 readings ¹⁾						Aver. (m) 1 to 4 readings																	
Bush Clearing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Grass Cutting						m						m						m						m
Grubbing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Cross Section Sketch																								
Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																							
	Aver. (m) 1 to 4 readings ¹⁾						Aver. (m) 1 to 4 readings ¹⁾																	
Height of cut < 0.25m	0	0				cm	0					cm	0	0				cm	0	0				cm
Height of cut > 0.25m	0	0				cm	0					cm	0	0				cm	0	0				cm
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
Existing Roads	0					cm	0					cm	0					cm	0					cm
Sloping						cm						cm						cm						cm
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Quantities:	Quantities										Total this page													
Bush Clearing	400	m2	400	m2	400	m2	400	m2	400	m2	400	2,000												
Grass Cutting		m2		m2		m2		m2		m2														
Grubbing	0	m2	0	m2	0	m2	0	m2	0	m2	0	0												
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0	0												
	Quantities										Total this page													
Height of cut < 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	0												
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0												
Embankment/Fill	1,134	m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		1,134												
Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	1,208												
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
Data Collected by: Name: Date: Signature:																								

Quantity Assessment		GOTU-MERTI		#	#	County: ISIOLO		From: 37+000		To: 38+000 pg		4												
Chainage:	37+000		37+200		37+400		37+600		37+800		37+000													
Input Measurements:	Free Clearance Width for Calculating areas																							
	Aver. (m) 1 to 4 readings ¹⁾						Aver. (m) 1 to 4 readings																	
Bush Clearing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Grass Cutting						m						m						m						m
Grubbing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Tree and stump removal	0					m						m	0					m	0					m
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Cross Section Sketch																								
Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																							
	Aver. (m) 1 to 4 readings ¹⁾						Aver. (m) 1 to 4 readings ¹⁾																	
Height of cut < 0.25m	0	0				cm	0					cm	0	0				cm	0	0				cm
Height of cut > 0.25m	0	0				cm	0					cm	0	0				cm	0	0				cm
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
Existing Roads	0					cm	0					cm	0					cm	0					cm
Sloping						cm						cm						cm						cm
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Quantities:	Quantities										Total this page													
Bush Clearing	400	m2	400	m2	400	m2	400	m2	400	m2	400	2,000												
Grass Cutting		m2		m2		m2		m2		m2														
Grubbing	0	m2	0	m2	0	m2	0	m2	0	m2	0	0												
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0	0												
	Quantities										Total this page													
Height of cut < 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	0												
Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	0												
Embankment/Fill	567	m3 (insitu)	567	m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		1,134												
Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	1,208												
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
Data Collected by: Name: Date: Signature:																								

Quantity Assessment		GOTU-MERTI				#	#	County: ISIOLO				From: 38+000		To: 39+000 pg		5														
Chainage:	23+000				23+200				23+400				23+600				23+800		24+000											
Input Measurements:	Free Clearance Width for Calculating areas																													
	Aver. (m) 1 to 4 readings ¹⁾																													
Bush Clearing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Grass Cutting						m						m						m						m						m
Grubbing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	0					m
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																														
Cross Section Sketch	-																													
Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																													
	Aver. (m) 1 to 4 readings ¹⁾																													
Height of cut < 0.25m	0	0				cm	0					cm	0	0	0	0	cm	0	0	0	0	cm	0	0	0	0	cm			
Height of cut > 0.25m	0	0				cm	0					cm	0	0	0	0	cm	0	0	0	0	cm	0	0	0	0	cm			
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																													
Existing Roads	0					cm	0					cm	0				cm	0					cm	0				cm		
Sloping						cm						cm					cm						cm					cm		
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																														
Quantities:	Quantities										Total this page																			
Bush Clearing	400	m2	400	m2	400	m2	400	m2	400	m2	400	m2	400		2,000															
Grass Cutting		m2		m2		m2		m2		m2		m2																		
Grubbing	0	m2	0	m2	0	m2	0	m2	0	m2	0	m2	0		0															
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0		0															
	Quantities										Total this page																			
Height of cut < 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0		0															
Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0		0															
Embankment/Fill		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)																		
Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242		1,208															
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)																		
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)																		
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)																		
Data Collected by: Name: Date: Signature:																														

Quantity Assessment		GOTU-MERTI		#	#	County: ISIOLO		From: 39+000		To: 40+000 pg		6												
Chainage:	39+000		39+200		39+400		39+600		39+800		40+000													
Input Measurements:	Free Clearance Width for Calculating areas																							
	Aver. (m) 1 to 4 readings ¹⁾						Aver. (m) 1 to 4 readings																	
Bush Clearing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Grass Cutting						m						m						m						m
Grubbing	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m	11	11	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Cross Section Sketch																								
Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																							
	Aver. (m) 1 to 4 readings ¹⁾						Aver. (m) 1 to 4 readings ¹⁾																	
Height of cut < 0.25m	0	0				cm	0					cm	0	0				cm	0	0				cm
Height of cut > 0.25m	0	0				cm	0					cm	0	0				cm	0	0				cm
For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
Existing Roads	0					cm	0					cm	0					cm	0					cm
Sloping						cm						cm						cm						cm
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Quantities:	Quantities										Total this page													
Bush Clearing	400	m2	400	m2	400	m2	400	m2	400	m2	400	2,000												
Grass Cutting		m2		m2		m2		m2		m2														
Grubbing	0	m2	0	m2	0	m2	0	m2	0	m2	0	0												
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0	0												
	Quantities										Total this page													
Height of cut < 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	0												
Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	0												
Embankment/Fill		m3 (insitu)		m3 (insitu)	567	m3 (insitu)	1,134	m3 (insitu)	1,134	m3 (insitu)	1,134	2,835												
Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	m3 (insitu)	242	1,208												
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
Data Collected by: Name: Date: Signature:																								