

DETAILED IMPROVEMENT PLAN

Road Name: GOTU -MERTI		County: ISIOLO		From: 0+000	To: 1+000	
Chain-age	(kilometres)	0 + 0				1 + 0
	(metres)	0 + 100				0 + 200
Road form.	Subgrade	BC	B	RES	E	
	Cross section	BC	B	RES	E	
Earthworks	Method: RES, ETL or FILL	BC	B	RES	E	
	Choice of reshaping: L, T or E	BC	B	RES	E	
	Volume of ETL or Fill (m3/m)	BC	B	RES	E	
Gra-vel	Total	15	1			
	Thickness (cm,comp.) Source (quarry No.)	15	1			
Longitudinal gradient (in %)		-1				
Mitre drains	Total					
	6					
Catch water	Total					
	0					
Culverts	N					
	Ex					
	CD					
	AC/D					
	L/R					
	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) =					
	Spacing right (m) = =Total No. this sheet					
Additional instruction as per Reference						

Quantity Assessment		-	#	-	-	-	ISIOLO										-	-	-	-	-	
Chainage:	0+000					0+200					0+400					0+600					0+800	1+000
Input Measurements:	Free Clearance Width for Calculating areas																					
	Aver. (m) 1 to 4 readings ¹⁾														Aver. (m) 1 to 4 readings ¹⁾							
Bush Clearing	10	10	10	m	10	10	10	m	10	10	10	m	9.5	10	9	m	8	8	8	m		
Grass Cutting				m				m				m				m				m		
Grubbing	10	10	10	m	9	9	9	m	9	9	9	m	8.5	9	8	m	7	7	7	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									5.00				6.00				5.00					
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			cm	0			cm	40	40	40	cm	40	40	40	cm	50	50	50	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		
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	800	m2	800	m2	800	m2	900	m2	1,200		4,500											
Grass Cutting		m2		m2		m2		m2														
Grubbing	600	m2	800	m2	800	m2	900	m2	1,200		4,300											
Tree and stump removal	0	No.	0	No.	6	No.	0	No.	0		6											
Quantities:	Quantities																			Total this page		
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	240	m3 (insitu)	300	m3 (insitu)	260		800											
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
Drains full re-construction	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238		1,190											
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)														
Data Collected by:	Name:																			Date:	Signature:	

DETAILED IMPROVEMENT PLAN

Road Name: GOTU-MERTI

County: ISILOLO

From: 1+000

To: 2+000

Chain-age	(kilometres)		1 + 0	1 + 100	1 + 200	1 + 300	1 + 400	1 + 500	1 + 600	1 + 700	1 + 800	1 + 900	2 + 0	
	(metres)													
Road form.	Subgrade		BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	GS	
	Cross section		B	B	B	B	B	B	B	B	B	B	B	B
Earth-works	Method: RES, ETL or FILL		RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	ETL
	Choice of reshaping: L, T or 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.)	15	1										
		Source (quarry No.)												
Longitudinal gradient (in %)			-1											
Mitre drains	Total	Number left =												
	7	Number right =	1											
Catch water	Total	Length of drain left =												
	0	Length of drain right =												
Culverts	N	Chainage (m)												
		= New line												
	Ex	= Existing line												
		= Cross drainage												
	AC/D	= Access culvert/ drift												
		= Left/ right												
	Length (m)	Ø 450mm												
Ø 600mm														
Ø 900mm								8	24	8				
Ramp	Earth fill (m3)													
	H. Concrete (m3)								IV	IV	IV			
Head-walls	Inlet (Material/Type)													
	Outlet (Material/Type)													
Scour Checks	HC	= Material this sheet/ Spacing left (m) =												
		= Spacing right (m) =												
	0	= Total No. this sheet												
Additional Instruction as per Reference														

Quantity Assessment	-	#	-	#	ISIOLO	-	#	-	#	-
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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	9.5	10	9	m	10	10	10	m	10	10	10	m	9	10	8	m	9.5	10	9	m
Grass Cutting				m				m				m				m				m
Grubbing	8.5	9	8	m	9	9	9	m	9	9	9	m	8	9	7	m	8.5	9	8	m
Tree and stump removal	0	0	0	m	0	0	0	m	0	0	0	m	0	0		m	0	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).

6											5										
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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	0	cm	0	0	0	cm	0	0	0	cm	50	50	50	cm	35	40	30	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

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	900	m2		800	m2		800	m2		1,000	m2		900	4,400
Grass Cutting		m2			m2			m2			m2			
Grubbing	900	m2		800	m2		800	m2		1,000	m2		900	4,400
Tree and stump removal	0	No.		0	No.		0	No.		0	No.		0	0

	Quantities									Total this page				
Height of cut < 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			
Height of cut > 0.25m	0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		400	m3 (insitu)		170	570
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			
Drains full re-construction	238	m3 (insitu)		238	m3 (insitu)		238	m3 (insitu)		238	m3 (insitu)		238	1,190
Reshaping by Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			
By Towed Grader/Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			
By Equipment Based Method		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			

Data Collected by: Name: Date: Signature:

Road Name: GOTU MERTI		County: ISIOLO		From: 2+000	To: 3+000	
Chain- age	(kilometres)	2 + 0				3 + 0
	(metres)	2 + 100				2 + 200
Road form.	Subgrade	GS	GS	GS	GS	GS
	Cross section	B	B	B	B	B
Earth-works	Method: RES, ETL or FILL	ETL	ETL	ETL	ETL	ETL
	Choice of reshaping: L, E	E	E	E	E	E
	Volume of ETL or Fill (m3/m)					
Gravel	Total thickness (cm, comp.)	15	1	15	1	15
	Source (quarry No.)	1		1		1
Longitudinal gradient (in %)		-2		0		-2
Mitre drains	Total	8				
	Number left =					
Catch water	Total	0				
	Length of drain left =					
Culverts	Chainage			2+100N		2+200N
	CD			CD		CD
	Length (m)			8		8
	Ramp			IV		IV
	Inlet (Material/Type)			I		I
	Outlet (Material/Type)			I		I
Scour Checks	HC					
	13					
Additional instruction as per Reference						

Quantity Assessment										-	#	-	#	ISIOLO	-	#	-	#	-		
Chainage:										2.0		2.2		2.4		2.6		2.8		3.0	
Input Measurements:		Free Clearance Width for Calculating areas																			
		Aver. (m) 1 to 4 readings ¹⁾									Aver. (m) 1 to 4 readings										
Bush Clearing		9	9	9	m	9	9	9	m	9	9	9	m	9	9	9	m	9	9	9	m
Grass Cutting					m				m				m				m				m
Grubbing		8	8	8	m	7.5	8	7	m	6.5	6	7	m	8	8	8	m	8	8	8	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		5			2			6			4			5							
Measurements for small cut to		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		35	30	40	cm	40	40	40	cm	40	40	40	cm	55	50	60	cm	40	40	40	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
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		1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	5,000	
Grass Cutting			m2		m2		m2		m2		m2		m2		m2		m2		m2		
Grubbing		1,000	m2	1,100	m2	1,300	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	5,400	
Tree and stump removal		0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	
Quantities																					
		m3 (insitu)									m3 (insitu)									Total this page	
Height of cut < 0.25m																					
Height of cut > 0.25m	150			160				220				240				200				##	
Embankment																					
Drains full re-construction	238			238				238				238				238				1,190	
Reshaping by Labour																					
By Towed Grader/Labour																					
By Equipment Based Method																					
Data Collected by: Name: Date: Signature:																					

Quantity Assessment - # - # ISIOLO - # - #

Chainage: 3+000 3+200 3+400 3+600 3+800 4+000

Input Measurements:	Free Clearance Width for Calculating areas																			
	Aver. (m) 1 to 4 readings ¹⁾			m			m			m			Aver. (m) 1 to 4 readings			m				
Bush Clearing	9	9	9	m	8	8	8	m	7	7	7	m	7	7	7	m	6	6	6	m
Grass Cutting				m				m				m				m				m
Grubbing	7	7	7	m	8	8	8	m	7.5	7	8	m	8	8	8	m	8	8	8	m
Tree and stump removal	2		2	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).

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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⁾			cm			cm			cm			Aver. (m) 1 to 4 readings ¹⁾			cm				
Height of cut < 0.25m	0			cm	35	40	30	cm	50	50	50	cm	100	100	##	cm	100	100	##	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
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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	1,000	m2	1,200	m2	1,400	m2	1,400	m2	
Grass Cutting		m2		m2		m2		m2		
Grubbing	1,200	m2	1,000	m2	1,100	m2	1,000	m2	1,000	5,300
Tree and stump removal	2	No.	0	No.	0	No.	0	No.	0	2

	Quantities									Total this page
	Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	
Height of cut > 0.25m		m3 (insitu)	10	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	10
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Drains full re-construction	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	1,190
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		

Data Collected by: Name: Date: Signature:

Quantity Assessment	-	#	-	#	ISIOLO	-	#	-	#	-
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Chainage:	4.0	4.2	4.4	4.6	4.8	5.0
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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	9	9	9	m	9	9	9	m	9.5	9	10	m	9	9	9	m	9	9	9	m
Grass Cutting				m				m				m				m				m
Grubbing	7.5	7	8	m	8	8	8	m	8.5	8	9	m	8	8	8	m	8	8	8	m
Tree and stump removal	0	0	0	m	0	0	0	m	0	0	0	m	3	3		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).																				
4				4				3				4								

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	40	40	40	cm	30	30	30	cm	30	20	40	cm	35	30	40	cm	40	40	40	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
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	1,000	m2		1,000	m2		900	m2		1,000	m2		1,000	
Grass Cutting		m2			m2			m2			m2			
Grubbing	1,100	m2		1,000	m2		900	m2		1,000	m2		1,000	
Tree and stump removal	0	No.		0	No.		0	No.		3	No.		0	

	Quantities									Total this page	
Height of cut < 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)			
Height of cut > 0.25m	100	m3 (insitu)		40	m3 (insitu)		0	m3 (insitu)		80	m3 (insitu)
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)
Drains full re-construction	238	m3 (insitu)		238	m3 (insitu)		238	m3 (insitu)		238	m3 (insitu)
Reshaping by Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)
By Towed Grader/Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)
By Equipment Based Method		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)

Data Collected by: Name: Date: Signature:

Quantity Assessment	-	#	-	#	ISIOLO	-	#	-	#	-
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Chainage:	5.0	5.2	5.4	5.6	5.8	6.0
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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	9	9	9	m	9	9	9	m	9	9	9	m	10	10	10	m	10	10	10	m
Grass Cutting				m				m				m				m				m
Grubbing	8	8	8	m	6.5	7	6	m	8	8	8	m	9	9	9	m	9	9	9	m
Tree and stump removal	0	0	0	m	4	4	0	m	5	5	0	m	6	6		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).

	4	5	4	0	0
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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	40	40	40	cm	30	30	30	cm	55	50	60	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			cm	0			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	1,000	m2		1,000	m2		1,000	m2	800	m2	800	4,600
Grass Cutting		m2			m2			m2		m2		
Grubbing	1,000	m2		1,300	m2		1,000	m2	800	m2	800	4,900
Tree and stump removal	0	No.		4	No.		5	No.	6	No.	0	15

	Quantities									Total this page		
Height of cut < 0.25m		m3 (insitu)			m3 (insitu)			m3 (insitu)		m3 (insitu)		
Height of cut > 0.25m	120	m3 (insitu)	40		m3 (insitu)	240		m3 (insitu)	0		m3 (insitu)	400
Embankment		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)	
Drains full re-construction	238	m3 (insitu)	238		m3 (insitu)	238		m3 (insitu)	238		m3 (insitu)	1,190
Reshaping by Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)	
By Towed Grader/Labour		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)	
By Equipment Based Method		m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)	

Data Collected by: Name: Date: Signature:

Quantity Assessment - # - # ISIOLO - # - #

Chainage: 6.0 6.2 6.4 6.6 6.8 7.0

Input Measurements:	Free Clearance Width for Calculating areas																			
	Aver. (m) 1 to 4 readings ¹⁾												Aver. (m) 1 to 4 readings							
Bush Clearing	10	10	10	m	9.5	10	9	m	9	9	9	m	10	10	10	m	10	10	10	m
Grass Cutting				m				m				m				m				m
Grubbing	9	9	8	m	7.5	8	7	m	8	8	8	m	9	9	9	m	8	8	8	m
Tree and stump removal	0	0	0	m	7	7	0	m	4	0	4	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).

0 0 0 0

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	40	40	40	cm	30	30	30	cm	30	20	40	cm	35	30	40	cm	40	40	40	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
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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	800	m2	900	m2	1,000	m2	800		m2
Grass Cutting		m2		m2		m2		m2		
Grubbing	800	m2	1,100	m2	1,000	m2	800	m2	1,000	4,700
Tree and stump removal	0	No.	7	No.	4	No.	0	No.	0	11

	Quantities								Total this page	
	Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)			m3 (insitu)
Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	0
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Drains full re-construction	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	1,190
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		

Data Collected by: Name: Date: Signature:

Quantity Assessment - # - # ISIOLO - # - #

Chainage: 7.0 7.2 7.4 7.6 7.8 8.0

Input Measurements:	Free Clearance Width for Calculating areas																			
	Aver. (m) 1 to 4 readings ¹⁾								Aver. (m) 1 to 4 readings ¹⁾											
Bush Clearing	10	10	10	m	10	10	10	m	10	10	10	m	10.5	10	11	m	10.5	11	10	m
Grass Cutting				m				m				m				m				m
Grubbing	9	9	9	m	8	8	8	m	8	8	8	m	8.5	8	9	m	8.5	9	8	m
Tree and stump removal	4	4	0	m	3	3	0	m	6	0	6	m	5		5	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).

0 4 0 0 2

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	0	cm	45	50	40	cm	0	0	0	cm	0	0	0	cm	70	0	70	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
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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	800	m2	800	m2	800	m2	700		m2
Grass Cutting		m2		m2		m2		m2		
Grubbing	800	m2	1,000	m2	1,000	m2	900	m2	900	4,600
Tree and stump removal	4	No.	3	No.	6	No.	5	No.	0	18

	Quantities								Total this page	
	Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)			m3 (insitu)
Height of cut > 0.25m	0	m3 (insitu)	160	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	100	260
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Drains full re-construction	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	1,190
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		

Data Collected by: Name: Date: Signature:

Quantity Assessment	-	#	-	-	-	ISIOLO	-	#	-	#	-
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Chainage:	8.0	8.2	8.4	8.6	8.8	9.0
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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	10	10	10	m	9	9	9	m	9	9	9	m	9.5	9	10	m	10	10	10	m
Grass Cutting				m				m				m				m				m
Grubbing	8.5	9	8	m	6.5	6	7	m	6.5	6	7	m	8	7	9	m	8.5	9	8	m
Tree and stump removal	4	4	0	m	0	0	0	m	0	0	0	m	4	4		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).

	5	2
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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	0	cm	45	40	50	cm	35	30	40	cm	0	0	0	cm	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

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	800	m2	1,000	m2	1,000	m2	900	m2	800	4,500
Grass Cutting		m2		m2		m2		m2		
Grubbing	900	m2	1,300	m2	1,300	m2	1,000	m2	900	5,400
Tree and stump removal	4	No.	0	No.	0	No.	4	No.	0	8

	Quantities									Total this page
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Height of cut > 0.25m	0	m3 (insitu)	190	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	190
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Drains full re-construction	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	1,190
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		

Data Collected by: Name: Date: Signature:

Quantity Assessment	-	#	-	#	ISIOLO	-	#	-	#	-
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Chainage:	9.0	9.2	9.4	9.6	9.8	10.0
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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	10.5	11	10	m	9.5	10	9	m	9.5	10	9	m	12	12	12	m	11	11	11	m
Grass Cutting				m				m				m				m				m
Grubbing	9	9	9	m	8	8	8	m	8.5	8	9	m	9	9	9	m	9	9	9	m
Tree and stump removal	0	0	0	m	0	0	0	m	4	4	0	m	3	3		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).

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				cm				cm				cm				cm				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

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	700	m2	900	m2	900	m2	400	m2	600	3,500
Grass Cutting		m2		m2		m2		m2		
Grubbing	800	m2	1,000	m2	900	m2	800	m2	800	4,300
Tree and stump removal	0	No.	0	No.	4	No.	3	No.	0	7

	Quantities									Total this page
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	0
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Drains full re-construction	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	m3 (insitu)	238	1,190
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		

Data Collected by: Name: Date: Signature: