

Chainage:	0+000	0+200	0+400	0+600	0+800	1+000
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Input Measurements:	Free Clearance Width for Calculating areas																				Aver. (m) 1 to 4 readings ¹⁾										
	Bush Clearing	5.5	5.5	0	0	0	m	5.5	5.5	0	0	0	m	5.5	5.5	0	0	0	m	5.5	5.5	0	0	0	m	5.5	5.5	0	0	0	m
	Grass Cutting						m						m						m						m						m
	Grubbing	5.5	5.5	0	0	0	m	5.5	5.5	0	0	0	m	5.5	5.5	0	0	0	m	5.5	5.5	0	0	0	m	5.5	5.5	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					
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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⁾					
	Height of cut < 0.25m	0	0			cm	0				cm	0		0		cm	0		0		cm	0		0		cm
	Height of cut > 0.25m	0	0			cm	0				cm	0		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	0			cm	0	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	1,500	m2	1,500	m2	1,500	m2	1,500	m2	1,500	7,500
	Grass Cutting		m2		m2		m2		m2		
	Grubbing	1,100	m2	1,100	m2	1,100	m2	1,100	m2	1,100	5,500
	Tree and stump removal	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	0
	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	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)		
	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:

Chainage:	1+000	1+200	1+400	1+600	1+800	2+000
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Input Measurements:	Free Clearance Width for Calculating areas																Aver. (m) 1 to 4 readings ¹⁾								
	Bush Clearing	5.5	5.5	0	0	0	m	5.5	5.5	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m
	Grass Cutting						m						m						m						m
	Grubbing	5.5	5.5	0	0	0	m	5.5	5.5	0	0	0	m	5	5	0	0	0	m	5	5	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⁾						
	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	0				cm	0	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	1,500	m2	1,500	m2	1,600	m2	1,600	m2	1,600	7,800
	Grass Cutting		m2		m2		m2		m2		
	Grubbing	1,100	m2	1,100	m2	1,200	m2	1,200	m2	1,200	5,800
	Tree and stump removal	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	0
	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	242	m3 (insitu)	108	m3 (insitu)	175	m3 (insitu)	242	m3 (insitu)	208	974
	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:

Chainage:	3+000	3+200	3+400	3+600	3+800	4+000
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Input Measurements:	Free Clearance Width for Calculating areas																														
	Aver. (m) 1 to 4 readings ¹⁾																														
	Bush Clearing	5	5	0	0	0	m	5	5	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	5	5	0	0	0	m
	Grass Cutting						m						m						m						m						m
	Grubbing	5	5	0	0	0	m	5	5	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	5	5	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					
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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⁾																							
	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																							
	Aver. (m) 1 to 4 readings ¹⁾																							
	Existing Roads	0	0				cm	0	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	1,600	m2	1,600	m2	1,800	m2	1,800	m2	1,600	8,400
	Grass Cutting		m2		m2		m2		m2		
	Grubbing	1,200	m2	1,200	m2	1,400	m2	1,400	m2	1,200	6,400
	Tree and stump removal	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	0
	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	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)		
	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		SEREOLIPI-NDONYOWASIN-MILGIS RIVER		County:		SAMBURU		From:		03+000		To:		04+000																															
Chain-age	(kilometres)	3 + 0				3 + 100				3 + 200				3 + 300				3 + 400				3 + 500				3 + 600				3 + 700				3 + 800				3 + 900				4 + 0			
	(metres)																																												
Road form.	Subgrade	RG				RG				RG				RG				RG				RG				RG				RG				RG				RG				RG			
	Cross section	A				A				A				A				G				A				F				A				A				A				A			
Earth-works	Method: RES, ETL or FILL	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			
	Volume of ETL or Fill (m3/m)																																												
Gra-vel	Total																																												
	Thickness (cm,comp.)																																												
	Source (quarry No.)																																												
Longitudinal gradient (in %)		-1				-1				-1				1				1				-2				-1				1				3				2							
Mitre drains	Total	1								1								1																											
	6	Number left =				Number right =								1								1																							
Catch water	Total																																												
	0	Length of drain left =				Length of drain right =																																							
Culverts	N	Chainage (m) = New line						3+160				3+190								3+630																									
		= Existing line						N				N								EX				N																					
	CD	= Cross drainage						CD				CD								CD																									
	AC/D	= Access culvert/ drift																																											
	L/R	= Left/ right																																											
	Length (m)	Ø 450mm																																											
		Ø 600mm																																											
Ø 900mm		8				16												24																											
Ramp	Earth fill (m3)																																												
	H. Concrete (m3)		IV				IV												IV																										
Head-walls	Inlet (Material/Type)						I				I												I																						
	Outlet (Material/Type)						I				I												I																						
Scour Checks	HC	= Material this sheet/ Spacing left (m) =																																											
	0	= Spacing right (m) =																																											
Additional Instruction as per Reference						REPLACE												REPLACE																											

Chainage:	3+000	3+200	3+400	3+600	3+800	4+000																								
Input Measurements:	Aver. (m) 1 to 4 readings ¹⁾ Free Clearance Width for Calculating areas										Aver. (m) 1 to 4 readings																			
Bush Clearing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
Grass Cutting						m						m						m						m						m
Grubbing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	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					
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Measurements for small cut to fill:	Aver. (m) 1 to 4 readings ¹⁾ 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					cm	0					cm	0					cm
Height of cut > 0.25m	0	0				cm	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	0				cm	0	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	1,800	m2	1,800	m2	1,800	m2	1,800	m2	1,800	m2	1,800	9,000
Grass Cutting		m2		m2		m2		m2		m2		
Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000
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		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Drains full re-construction	242	m3 (insitu)	242	m3 (insitu)	175	m3 (insitu)	208	m3 (insitu)	242	m3 (insitu)	242	1,107
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:	4+000	4+200	4+400	4+600	4+800	5+000
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Input Measurements:	Free Clearance Width for Calculating areas																								
	Aver. (m) 1 to 4 readings ¹⁾																								
	Bush Clearing	5	5	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m
	Grass Cutting						m						m						m						m
	Grubbing	5	5	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m	5	5	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⁾																							
	Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0
Height of cut > 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm

For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
	Aver. (m) 1 to 4 readings ¹⁾																							
	Existing Roads	0	0				cm	0	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	1,600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000
	Grass Cutting		m2		m2		m2		m2		
	Grubbing	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	6,000
	Tree and stump removal	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	0
	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	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)		
	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: **SEREOLIPI-NDONYOWASIN-MILGIS RIVER** County: **SAMBURU** From: **05+000** To: **06+000**

Chain-age	(kilometres)	5 + 0																				5 + 100																				5 + 200																				5 + 300																				5 + 400																				5 + 500																				5 + 600																				5 + 700																				5 + 800																				5 + 900																				6 + 0																																																									
		(metres)																																																																																																																																																																																																																																																																	
Road form.	Subgrade	RG																																																																																																																																																																																																																																																																	
	Cross section	A																																																																																																																																																																																																																																																																	
Earth-works	Method: RES, ETL or FILL	RES																																																																																																																																																																																																																																																																	
	Choice of reshaping: L, T or E	E																																																																																																																																																																																																																																																																	
	Volume of ETL or Fill (m3/m)																																																																																																																																																																																																																																																																		
Gra-vel	Total Thickness (cm,comp.)																																																																																																																																																																																																																																																																		
	Source (quarry No.)																																																																																																																																																																																																																																																																		
Longitudinal gradient (in %)		-1										-1										-1										-1										0										0										-2										-1										-1										1																																																																																																																																																																							
Mitre drains	Total	8																																																																																																																																																																																																																																																																	
		1																																																																																																																																																																																																																																																																	
Catch water	Total	0																																																																																																																																																																																																																																																																	
Culverts	N	Chainage (m) = New line																																																																																																																																																																																																																																																																	
		= Existing line																																																																																																																																																																																																																																																																	
	CD	= Cross drainage																																																																																																																																																																																																																																																																	
		= 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:	5+000	5+200	5+400	5+600	5+800	6+000
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Input Measurements:	Free Clearance Width for Calculating areas																								
	Aver. (m) 1 to 4 readings ¹⁾																								
	Bush Clearing	5	5	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m
	Grass Cutting						m						m						m						m
	Grubbing	5	5	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m	5	5	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⁾																							
	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																							
	Aver. (m) 1 to 4 readings ¹⁾																							
	Existing Roads	0	0				cm	0	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	1,600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000
	Grass Cutting		m2		m2		m2		m2		
	Grubbing	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	6,000
	Tree and stump removal	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	0
	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	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)		
	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:

Chainage:	6+000	6+200	6+400	6+600	6+800	7+000
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Input Measurements:	Free Clearance Width for Calculating areas																Aver. (m) 1 to 4 readings ¹⁾								
	Bush Clearing	5	5	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m
	Grass Cutting						m						m						m						m
	Grubbing	5	5	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m	5	5	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⁾									
	Height of cut < 0.25m	0	0			cm	0				cm	0	0			cm	0	0			cm	0	0			cm
	Height of cut > 0.25m	0	0			cm	0				cm	0	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	0			cm	0	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	1,600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000
	Grass Cutting		m2		m2		m2		m2		
	Grubbing	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	6,000
	Tree and stump removal	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	0
	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	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)		
	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:

Chainage:	7+000	7+200	7+400	7+600	7+800	8+000
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Input Measurements:	Free Clearance Width for Calculating areas																Aver. (m) 1 to 4 readings ¹⁾														
	Bush Clearing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	5	5	0	0	0	m	5	5	0	0	0	m
	Grass Cutting						m						m						m						m						m
	Grubbing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	5	5	0	0	0	m	5	5	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					
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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⁾									
	Height of cut < 0.25m	0	0			cm	0				cm	0	0			cm	0	0			cm	0	0			cm
	Height of cut > 0.25m	0	0			cm	0				cm	0	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	0			cm	0	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	1,800	m2	1,800	m2	1,800	m2	1,600	m2	1,600	8,600
	Grass Cutting		m2		m2		m2		m2		
	Grubbing	1,400	m2	1,400	m2	1,400	m2	1,200	m2	1,200	6,600
	Tree and stump removal	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	0
	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	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)		
	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:

Chainage:	8+000	8+200	8+400	8+600	8+800	9+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	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
	Grass Cutting						m						m						m						m
	Grubbing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	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	cm	0		0	0	cm	0		0	0
Height of cut > 0.25m	0	0			cm	0				cm	0		0	0	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	0			cm	0	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	1,800	m2	1,800	m2	1,800	m2	1,800	m2	1,800	9,000
	Grass Cutting		m2		m2		m2		m2		
	Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000
	Tree and stump removal	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	0
	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	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)		
	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:

Chainage:	9+000	9+200	9+400	9+600	9+800	10+000
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Input Measurements:	Free Clearance Width for Calculating areas																Aver. (m) 1 to 4 readings ¹⁾								
	Bush Clearing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m
	Grass Cutting						m						m						m						m
	Grubbing	4	4	0	0	0	m	4	4	0	0	0	m	4	4	0	0	0	m	4	4	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⁾									
	Height of cut < 0.25m	0	0			cm	0				cm	0	0			cm	0	0			cm	0	0			cm
	Height of cut > 0.25m	0	0			cm	0				cm	0	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	0			cm	0	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	1,800	m2	1,800	m2	1,800	m2	1,800	m2	1,800	9,000
	Grass Cutting		m2		m2		m2		m2		
	Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000
	Tree and stump removal	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	0
	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	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)		
	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: