

Quantity Assessment		BARAGOI-MASIKITA-SEREOLIPI										County: SAMBURU		From: 30+000		To: 31+000		pg 1												
Chainage:	30+000	30+200				30+400				30+600				30+800				31+000												
Input Measurements:	Aver. (m) 1 to 4 readings¹⁾ Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																													
Bush Clearing	7	7	0	0	0	m	7	7	0	0	0	m	7	7	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Grass Cutting						m						m						m						m						m
Grubbing	7	7	0	0	0	m	7	7	0	0	0	m	7	7	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	1	1				m	1	1				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:	Aver. (m) 1 to 4 readings¹⁾ Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings¹⁾																													
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	0		0		0	cm
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	1,200	m2	1,200	m2	1,200	m2	1,400	m2	1,400	m2	6,400																			
Grass Cutting		m2		m2		m2		m2		m2																				
Grubbing	800	m2	800	m2	800	m2	1,000	m2	1,000	m2	4,400																			
Tree and stump removal	0	No.	0	No.	0	No.	1	No.	1	No.	2																			
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		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		BARAGOI-MASIKITA-SEREOLIPI										County: SAMBURU		From: 31+000		To: 32+000		pg 2												
Chainage:	31+000	31+200				31+400				31+600				31+800				32+000												
Input Measurements:	Aver. (m) 1 to 4 readings^{*)} Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																													
Bush Clearing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	5	5	0	0	0	m
Grass Cutting						m						m						m						m						m
Grubbing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	5	5	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	0					m
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																														
Cross Section Sketch																														
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings^{*)} Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings^{*)}																													
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	0		0		0	cm
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
*) 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	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,600		7,200																			
Grass Cutting		m2		m2		m2		m2																						
Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,600		7,200																			
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)	208	m3 (insitu)	208	m3 (insitu)	208		1,107																			
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: Sig																														

Quantity Assessment		BARAGOI-MASIKITA-SEREOLIPI										County:		SAMBURU		From:		32+000		To:		33+000		pg 3							
Chainage:		32+000					32+200					32+400					32+600					32+800					33+000				
Input Measurements:		Aver. (m) 1 to 4 readings^{*)} Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																													
Bush Clearing		6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Grass Cutting							m						m						m						m						m
Grubbing		6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Tree and stump removal		0					m	0					m	0					m	0					m	0					m
^{*)} Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																															
Cross Section Sketch																															
Measurements for small cut to fill:		Aver. (m) 1 to 4 readings^{*)} Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings^{*)}																													
Height of cut < 0.25m		0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	0		0		0	cm
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
^{*)} 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		1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		7,000					
Grass Cutting			m2			m2			m2			m2			m2			m2			m2			m2							
Grubbing		1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		1,400	m2		7,000					
Tree and stump removal		0	No.		0	No.		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	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	m3 (insitu)		0	m3 (insitu)		0					
Embankment			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)							
Drains full re-construction		141	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		208	m3 (insitu)		208	m3 (insitu)		208	m3 (insitu)		208	m3 (insitu)		208	m3 (insitu)		1,041					
Reshaping by Labour			m3 (insitu)			m3 (insitu)			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)			m3 (insitu)			m3 (insitu)							
By Equipment Based Method			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)			m3 (insitu)							
Data Collected by: Name: Date:Signature:																															

DETAILED IMPROVEMENT PLAN

Page:

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Road Name **BARAGOI-MASIKITA-SEREOLIPI**

County **SAMBURU**

From: **33+000**

To: **34+000**

Chain-age	(kilometres)		33 + 0				33 + 100				33 + 200				33 + 300				33 + 400				33 + 500				33 + 600				33 + 700				33 + 800				33 + 900				34 + 0				
	(metres)		QG				QG				QG				QG				QG				QG				QG				QG				QG				QG				QG				
Road form.	Subgrade		QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	QG	
	Cross section		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
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	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	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 %)			-5				-6				-6				-6				-6				0			6				-3				-3				-10									
Mitre drains	Total	Number left =									1				1				1				1				1				1				1				1								
	15	Number right =									1				1				1				1				1				1				1				1								
Catch water	Total	Length of drain left =																																													
	0	Length of drain right =																																													
Culverts	N	Chainage (m) = New line					33+100																																								
		= Existing line					N																																								
		= Cross drainage					CD																																								
		= Access culvert/ drift																																													
	Length (m)	= Left/ right																																													
		Ø 450mm																																													
		Ø 600mm																																													
		Ø 900mm					8																																								
Ramp	Earth fill (m3)																																														
	H. Concrete (m3)						IV																																								
Head-walls	Inlet (Material/Type)						I																																								
	Outlet (Material/Type)						I																																								
Scour Checks	HC	= Material this sheet/ Spacing left (m) =	20				15				15				15				15							15																					
		Spacing right (m) =	20				15				15				15				15							15																					
	117	=Total No. this sheet																																													
Additional Instruction as per Reference																																															

150m Concrete Road

Quantity Assessment		BARAGOI-MASIKITA-SEREOLIPI										County: SAMBURU		From: 33+000		To: 34+000		pg 4												
Chainage:	33+000					33+200					33+400					33+600					33+800					34+000				
Input Measurements:	Aver. (m) 1 to 4 readings¹⁾ Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																													
Bush Clearing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Grass Cutting						m						m						m						m						m
Grubbing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	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:	Aver. (m) 1 to 4 readings¹⁾ Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings¹⁾																													
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	0		0		0	cm
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	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	7,000	
Grass Cutting		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		
Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	7,000	
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	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	m3 (insitu)	0	m3 (insitu)	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	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0	
Drains full re-construction	242	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	108	m3 (insitu)	108	m3 (insitu)	108	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	941	
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		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)		m3 (insitu)		m3 (insitu)		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)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Data Collected by: Name: Date: Signature:																														

Quantity Assessment		BARAGOI-MASIKITA-SEREOLIPI										County:		SAMBURU		From:		34+000		To:		35+000		pg	5
Chainage:	34+000	34+200					34+400					34+600					34+800					35+000			
Input Measurements:	Aver. (m) 1 to 4 readings^{*)} Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																								
Bush Clearing	7	7	0	0	0	m	7	7	0	0	0	m	7	7	0	0	0	m	7	7	0	0	0	m	
Grass Cutting						m						m						m						m	
Grubbing	7	7	0	0	0	m	7	7	0	0	0	m	7	7	0	0	0	m	7	7	0	0	0	m	
Tree and stump removal	0					m	0					m	0					m	0					m	
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																									
Cross Section Sketch																									
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings^{*)} Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings^{*)}																								
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	
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																								
Existing Roads	0	0				cm	0	0				cm	0					cm	0					cm	
Sloping						cm						cm						cm						cm	
*) 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	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	6,000		
Grass Cutting		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2			
Grubbing	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,200	m2	6,000		
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	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	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	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0		
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0		
Drains full re-construction	242	m3 (insitu)	108	m3 (insitu)	108	m3 (insitu)	108	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	141	m3 (insitu)	141	m3 (insitu)	141	m3 (insitu)	141	m3 (insitu)	774		
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		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)		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)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)			
Data Collected by: Name: Date: Signature:																									

Quantity Assessment		BARAGOI-MASIKITA-SEREOLIPI										County: SAMBURU		From: 35+000		To: 36+000		pg 6						
Chainage:	34+000	34+200				34+400				34+600				34+800				35+000						
Input Measurements:	Aver. (m) 1 to 4 readings³⁾ Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																							
Bush Clearing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Grass Cutting						m						m						m						m
Grubbing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m
³⁾ 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:	Aver. (m) 1 to 4 readings³⁾ Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings³⁾																							
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm
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																							
Existing Roads	0	0				cm	0	0				cm	0					cm	0					cm
Sloping						cm						cm						cm						cm
³⁾ 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	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000												
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																								
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)		0												
Drains full re-construction	242	m3 (insitu)	141	m3 (insitu)	108	m3 (insitu)	108	m3 (insitu)	175	m3 (insitu)	774													
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		BARAGOI-MASIKITA-SEREOLIPI										County:		SAMBURU		From:		36+000		To:		37+000		pg	7					
Chainage:		36+000					36+200					36+400					36+600					36+800					37+000			
Input Measurements:	Aver. (m) 1 to 4 readings^{*)} Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																													
Bush Clearing	7	7	0	0	0	m	8	8	0	0	0	m	7	7	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Grass Cutting						m						m						m						m						m
Grubbing	7	7	0	0	0	m	8	8	0	0	0	m	7	7	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	0					m
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																														
Cross Section Sketch																														
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings^{*)} Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings^{*)}																													
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	0		0		0	cm
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
*) 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	1,200	m2	1,000	m2	1,200	m2	1,400	m2	1,400	m2	6,200																			
Grass Cutting		m2		m2		m2		m2		m2																				
Grubbing	1,200	m2	1,000	m2	1,200	m2	1,400	m2	1,400	m2	6,200																			
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		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0																			
Drains full re-construction	121	m3 (insitu)	54	m3 (insitu)	175	m3 (insitu)	242	m3 (insitu)	175	m3 (insitu)	766																			
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		BARAGOI-MASIKITA-SEREOLIPI										County: SAMBURU		From: 37+000		To: 38+000		pg 8						
Chainage:	37+000	37+200				37+400				37+600				37+800				38+000						
Input Measurements:	Aver. (m) 1 to 4 readings^{*)} Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																							
Bush Clearing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Grass Cutting						m						m						m						m
Grubbing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																								
Cross Section Sketch																								
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings^{*)} Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings^{*)}																							
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm
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																							
Existing Roads	0	0				cm	0	0				cm	0					cm	0					cm
Sloping						cm						cm						cm						cm
*) 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	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	7,000					
Grass Cutting		m2		m2		m2		m2		m2		m2		m2		m2		m2						
Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	7,000					
Tree and stump removal	0	No.	0	No.	0	No.	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	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	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0					
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0					
Drains full re-construction	208	m3 (insitu)	175	m3 (insitu)	108	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	175	m3 (insitu)	242	m3 (insitu)	907					
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		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)		m3 (insitu)		m3 (insitu)		m3 (insitu)						
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)						
Data Collected by: Name: Date: Signature:																								

Quantity Assessment		BARAGOI-MASIKITA-SEREOLIPI										County:		SAMBURU		From:		38+000		To:		39+000		pg	9					
Chainage:		38+000				38+200				38+400				38+600				38+800				39+000								
Input Measurements:	Aver. (m) 1 to 4 readings^{*)} Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																													
Bush Clearing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Grass Cutting						m						m						m						m						m
Grubbing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	0					m
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																														
Cross Section Sketch																														
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings^{*)} Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings^{*)}																													
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	0		0		0	cm
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
*) 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	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2
Grass Cutting		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2
Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.
	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	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)
Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)
Drains full re-construction	175	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		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)		m3 (insitu)		m3 (insitu)		m3 (insitu)		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)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)
Data Collected by: Name: Date: Signature:																														

[illegible]

Quantity Assessment		BARAGOI-MASIKITA-SEREOLIPI										County:		SAMBURU		From:		39+000		To:		40+000		pg 10						
Chainage:	39+000					39+200					39+400					39+600					39+800					40+000				
Input Measurements:	Aver. (m) 1 to 4 readings^{*)} Free Clearance Width for Calculating areas Aver. (m) 1 to 4 readings																													
Bush Clearing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Grass Cutting						m						m						m						m						m
Grubbing	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m	6	6	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	0					m
*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																														
Cross Section Sketch																														
Measurements for small cut to fill:	Aver. (m) 1 to 4 readings^{*)} Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings^{*)}																													
Height of cut < 0.25m	0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	0		0		0	cm
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
*) 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	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	7,000	
Grass Cutting		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		
Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	7,000	
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	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	m3 (insitu)	0	m3 (insitu)	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	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Drains full re-construction	141	m3 (insitu)	108	m3 (insitu)	141	m3 (insitu)	242	m3 (insitu)	141	m3 (insitu)	242	m3 (insitu)	141	m3 (insitu)	242	m3 (insitu)	141	m3 (insitu)	242	m3 (insitu)	141	m3 (insitu)	242	m3 (insitu)	141	m3 (insitu)	242	m3 (insitu)	874	
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		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)		m3 (insitu)		m3 (insitu)		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)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Data Collected by: Name: Date: Signature:																														