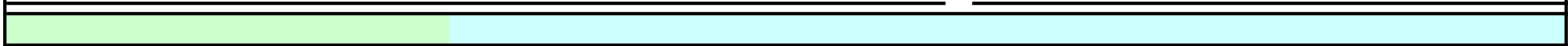


Quantity Assessment		#	#	#	SAMBURU NORTH/EAST					#	-	#	-	-						
Chainage:	0+000	0+200			0+400			0+600			0+800			1+000						
Input Measurements:	Free Clearance Width for Calculating areas																			
	Aver. (m) 1 to 4 readings ^{*)}																Aver. (m) 1 to 4 readings ^{*)}			
Bush Clearing	12	12	12	m	12.5	12	13	m	12	11	13	m	11.5	11	12	m	11.5	11	12	m
Grass Cutting				m				m				m				m				m
Grubbing	4	4	4	m	4	4	4	m	4	4	4	m	4	4	4	m	4	4	4	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:	Height of Cut / Differences in Levels for calculating volumes																			
	Aver. (m) 1 to 4 readings ^{*)}																Aver. (m) 1 to 4 readings ^{*)}			
Height of cut < 0.25m	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			cm	0			cm	0			cm	0			cm	0			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	200	m2	100	m2	200	m2	300	m2	300	m2	1,100									
Grass Cutting		m2		m2		m2		m2		m2										
Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	m2	7,000									
Tree and stump removal		No.		No.		No.		No.		No.	0									
Quantities:	Quantities																		Total this page	
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)										
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	0									
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)										
Drains full re-construction	238	m3 (insitu)	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)		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 # # # # **SAMBURU NORTH/EAST** # # # # -



Input Measurements:	Free Clearance Width for Calculating areas												Aver. (m) 1 to 4 readings ^{*)}							
	Aver. (m) 1 to 4 readings ^{*)}				m				m				m				m			
Bush Clearing	11.5	11	12	m	12	12	12	m	12	12	12	m	10.5	11	10	m	12.5	12	13	m
Grass Cutting				m				m				m				m				m
Grubbing	3.75	3.5	4	m	4	4	4	m	3.5	3	4	m	3	3	3	m	3	3	3	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).

Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes												Aver. (m) 1 to 4 readings ^{*)}							
	Aver. (m) 1 to 4 readings ^{*)}				cm				cm				cm				cm			
Height of cut < 0.25m	0			cm	0			cm	0			cm	0			cm	0			cm

For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes												Aver. (m) 1 to 4 readings ^{*)}							
	Aver. (m) 1 to 4 readings ^{*)}				cm				cm				cm				cm			
Existing Roads	0			cm	0			cm	0			cm	0			cm	0			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	300	m2	200	m2	200	m2	500	m2	100	1,300
Grass Cutting		m2		m2		m2		m2		
Grubbing	1,450	m2	1,400	m2	1,500	m2	1,600	m2	1,600	7,550
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)	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 # # # # **SAMBURU NORTH/EAST** # # # # -

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 ^{*)}														Aver. (m) 1 to 4 readings					
Bush Clearing	12.5	12	13	m	10.5	10	11	m	12	12	12	m	12	12	12	m	12	13	11	m
Grass Cutting				m				m				m				m				m
Grubbing	4	4	4	m	4	4	4	m	4	4	4	m	4	4	4	m	4	4	4	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).

Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																			
	Aver. (m) 1 to 4 readings ^{*)}														Aver. (m) 1 to 4 readings ^{*)}					
Height of cut < 0.25m	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			cm	0			cm	0			cm	0			cm	0			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	100	m2	500	m2	200	m2	200	m2	200	m2	1,200
Grass Cutting		m2		m2		m2		m2		m2	
Grubbing	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

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

Data Collected by: Name: Date: Signature:

DETAILED IMPROVEMENT PLAN

Road Name: BARAGOI-MASIKITA-SEREOLUPI		County: SAMBURU NORTH/EAST		From: 3+000		To: 4+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)	RS A		RS A		RS A		RS A		RS A		RS A		RS A		RS A		RS A		RS A		RS A		RS A			
Road form.	Subgrade	RS A		RS A		RS A		RS A		RS A		RS A		RS A		RS A		RS A		RS A		RS A		RS A			
	Cross section	RES A		RES A		RES A		RES A		RES A		RES A		RES A		RES A		RES A		RES A		RES A		RES A			
Earth-works	Method: RES, ETL or FILL	RES		RES		RES		RES		RES		RES		RES		RES		RES		RES		RES		RES			
	Choice of reshaping: L, T or E	VE		VE		VE		VE		VE		VE		VE		VE		VE		VE		VE		VE			
	Volume of ETL or Fill (m3/m)	15		15		15		15		15		15		15		15		15		15		15		15			
Gra-vel	Total	825		825		825		825		825		825		825		825		825		825		825		825			
	Thickness (cm,comp.)	15		15		15		15		15		15		15		15		15		15		15		15			
Longitudinal gradient (in %)	Source (quarry No.)	1		1		1		1		1		1		1		1		1		1		1		1			
		3		4		5		4		8		4		-4		-3		-2		-3		-3		-3			
Mitre drains	Total	4		4		4		4		4		4		4		4		4		4		4		4			
	Number left =	1		1		1		1		1		1		1		1		1		1		1		1			
Catch water	Total	0		0		0		0		0		0		0		0		0		0		0		0			
	Length of drain left =	0		0		0		0		0		0		0		0		0		0		0		0			
Culverts	N	= New line		= Existing line		= Cross drainage		= Access culvert/ drift		= Left/ right		Ø 450mm		Ø 600mm		Ø 900mm		Earth fill (m3)		H. Concrete (m3)		Inlet (Material/Type)		Outlet (Material/Type)			
	Ex																										
	CD																										
	AC/D																										
L/R																											
Ramp																											
Head-walls																											
Scour Checks	HC	= Material this sheet/ Spacing left (m) =		= Material this sheet/ Spacing right (m) =		=Total No. this sheet		20		20		8		8													
	9																										
Additional Instruction as per Reference																											

Quantity Assessment # # # # **SAMBURU NORTH/EAST** # # # # -

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⁾									Aver. (m) 1 to 4 readings ¹⁾										
Bush Clearing	12.5	12	13	m	12	12	12	m	12.5	12	13	m	12	11	13	m	12	13	11	m
Grass Cutting				m				m				m				m				m
Grubbing	4	4	4	m	4	4	4	m	4	4	4	m	4	4	4	m	4	4	4	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).

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	0			cm	0			cm	0			cm

For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																			
Existing Roads	0			cm	0			cm	0			cm	0			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	100	m2	200	m2	100	m2	200	m2	200	m2	800
Grass Cutting		m2		m2		m2		m2		m2	
Grubbing	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

	Quantities									Total this page	
Height of cut < 0.25m		m3 (insitu)		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	m3 (insitu)	0
Embankment		m3 (insitu)		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	m3 (insitu)	1,190
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 # # # # **SAMBURU NORTH/EAST** # # # # -

Chainage: 5.0 5.2 5.4 5.6 5.8 6.0

Input Measurements:	Free Clearance Width for Calculating areas												Aver. (m) 1 to 4 readings ¹⁾															
	12			13			11			12			13			11			12			11			13			
Bush Clearing	12	13	11	m	12	13	11	m	12	13	11	m	12	11	13	m	12	11	13	m	12	11	13	m	12	11	13	m
Grass Cutting				m				m				m				m				m				m				m
Grubbing	4	4	4	m	6.5	6	7	m	8.5	8	9	m	7	7	7	m	9.5	8	11	m	9.5	8	11	m	9.5	8	11	m
Tree and stump removal	0			m	0			m	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).

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

For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes												Aver. (m) 1 to 4 readings ¹⁾											
	0			cm			0			cm			0			cm								
Existing Roads	0			cm	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						
	200		m2		200		m2		200			m2		200		m2	
Bush Clearing	200	m2	200	m2	200	m2	200	m2	200	m2	200	m2	200	m2	200	m2	1,000
Grass Cutting		m2		m2		m2		m2		m2		m2		m2		m2	
Grubbing	1,400	m2	900	m2	500	m2	800	m2	300	m2	300	m2	300	m2	300	m2	3,900
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	
	0		m3 (insitu)		0		m3 (insitu)		0			m3 (insitu)
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		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	m3 (insitu)	0	m3 (insitu)
Embankment		m3 (insitu)		m3 (insitu)		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	m3 (insitu)	238	m3 (insitu)
Reshaping by Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)
By Towed Grader/Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)
By Equipment Based Method		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)

Data Collected by: Name: Date: Signature:

DETAILED IMPROVEMENT PLAN

Road Name BARAGOI-MASIKITA-SEREOLIPI

County SAMBURU NORTH/EAST From: 6+000 To: 7+000

Chain- age	(kilometres)		6 + 0		6 + 100		6 + 200		6 + 300		6 + 400		6 + 500		6 + 600		6 + 700		6 + 800		6 + 900		7 + 0		
	(metres)		Subgrade	Cross section	Method: RES, ETL or FILL	Choice of reshaping: L, T or E	Volume of ETL or Fill (m3/m)	Total	Thickness (cm,comp.)	825	Source (quarry No.)	Longitudinal gradient (in %)	Mitre drains	Catch water	Culverts	Head-walls	Scour Checks	HC	Additional Instruction as per Reference						
			RS	A	RES	VE	15	1	15	1	-3														
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE	15	1	15	1															
			RS	A	RES	VE																			

Quantity Assessment	#	#	#	#	SAMBURU NORTH/EAST	#	#	#	#	-
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Chainage:	6.0	6.2	6.4	6.6	6.8	7.0
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Input Measurements:	Free Clearance Width for Calculating areas																		Aver. (m) 1 to 4 readings ^{*)}	
Bush Clearing	12.5	12	13	m	12.5	13	12	m	12.5	12	13	m	12.5	12	13	m	12.5	12	13	m
Grass Cutting				m				m				m				m				m
Grubbing	7	7	7	m	4	4	4	m	4	4	4	m	6	6	6	m	7	7	7	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).

Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																		Aver. (m) 1 to 4 readings ^{*)}	
Height of cut < 0.25m	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			cm	0			cm	0			cm	0			cm	0			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	100	m2	100	m2	100	m2	100	m2	100	m2	500
Grass Cutting		m2		m2		m2		m2		m2	
Grubbing	800	m2	1,400	m2	1,400	m2	1,000	m2	800	m2	5,400
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0

	Quantities										Total this page
Height of cut < 0.25m		m3 (insitu)		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	m3 (insitu)	0
Embankment		m3 (insitu)		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	m3 (insitu)	1,190
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		#	#	#	#	SAMBURU NORTH/EAST				#	#	#	#	-						
Chainage:		7.0			7.2			7.4			7.6			7.8		8.0				
Input Measurements:	Aver. (m) 1 to 4 readings ^{*)}		Free Clearance Width for Calculating areas												Aver. (m) 1 to 4 readings					
Bush Clearing	12	13	11	m	12	11	13	m	11.5	13	10	m	12	13	11	m	12.5	12	13	m
Grass Cutting				m				m				m				m				m
Grubbing	6.5	7	6	m	7	7	7	m	7	7	7	m	7	7	7	m	7	7	7	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).																				
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			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			cm	0			cm	0			cm	0			cm	0			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	200	m2		200	m2		300	m2		200	m2		100	m2		1,000				
Grass Cutting		m2			m2			m2			m2			m2						
Grubbing	900	m2		800	m2		800	m2		800	m2		800	m2		4,100				
Tree and stump removal	0	No.		0	No.		0	No.		0	No.		0	No.		0				
	Quantities																		Total this page	
Height of cut < 0.25m		m3 (insitu)			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	m3 (insitu)		0				
Embankment		m3 (insitu)			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	m3 (insitu)		238	1,190			
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 # # # # **SAMBURU NORTH/EAST** # # # # -

Chainage: 8.0 8.2 8.4 8.6 8.8 9.0

Input Measurements:	Free Clearance Width for Calculating areas																Aver. (m) 1 to 4 readings ^{*)}																		
	12.5				13				12				12.5				12				13				11.5				13				10		
Bush Clearing	12.5		13	12	m	12.5		13	12	m	12.5		12	13	m	12.5		12	13	m	11.5		13	10	m										
Grass Cutting					m					m					m					m					m										
Grubbing	7		7	7	m	6.5		6	7	m	6.5		7	6	m	7		7	7	m	6		6	6	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).

Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes																Aver. (m) 1 to 4 readings ^{*)}														
	0				0				cm				0				cm				0				cm						
Height of cut < 0.25m	0				cm	0				cm	0				cm	0				cm	0				cm						

For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																														
	0				0				cm				0				cm				0				cm						
Existing Roads	0				cm	0				cm	0				cm	0				cm	0				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					
	100		m2		100		m2		100		m2		300		700	
Bush Clearing	100		m2		100		m2		100		m2		300		700	
Grass Cutting			m2				m2				m2					
Grubbing	800		m2		900		m2		900		m2		1,000		4,400	
Tree and stump removal	0		No.		0		No.		0		No.		0		0	

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

Data Collected by: Name: Date: Signature:

DETAILED IMPROVEMENT PLAN

Road Name: BARAGOI-MASIKITA-SEREOLIPI County: SAMBURU NORTH/EAST From: 9+000 To: 10+000

Chain- age	(kilometres)		Road form.	Earth-works Method: RES, ETL or FILL Choice of reshaping: L, T or E Volume of ETL or Fill (m3/m)	Gra- vel	Mitre drains	Catch water	Culverts	Head- walls	Scour Checks	Additional Instruction as per Reference
	(metres)										
9 + 0	9	0	Subgrade	RES	15						
			Cross section	A	1						
9 + 100	9	100	Subgrade	RES	15						
			Cross section	A	1						
9 + 200	9	200	Subgrade	RES	15						
			Cross section	A	1						
9 + 300	9	300	Subgrade	RES	15						
			Cross section	A	1						
9 + 400	9	400	Subgrade	RES	15						
			Cross section	A	1						
9 + 500	9	500	Subgrade	RES	15						
			Cross section	A	1						
9 + 600	9	600	Subgrade	RES	15						
			Cross section	A	1						
9 + 700	9	700	Subgrade	RES	15						
			Cross section	A	1						
9 + 800	9	800	Subgrade	RES	15						
			Cross section	A	1						
9 + 900	9	900	Subgrade	RES	15						
			Cross section	A	1						
10 + 0	10	0	Subgrade	RES	15						
			Cross section	A	1						
Total		825	Method: RES, ETL or FILL		15						
Total		825	Choice of reshaping: L, T or E		1						
Total		825	Volume of ETL or Fill (m3/m)		1						
Longitudinal gradient (in %)											
Total	2	Number left =									
		Number right =									
Total	0	Length of drain left =									
		Length of drain right =									
N	Ex	Chainage (m)									
		= New line		9+000N							
= Existing line											
= Cross drainage											
= Access culvert/ drift											
= Left/ right											
Length (m)	Ø 450mm										
	Ø 600mm										
	Ø 900mm		8								
Ramp	Earth fill (m3)										
	H. Concrete (m3)										
Inlet (Material/Type)											
Outlet (Material/Type)											
HC	3	= Material this sheet/									
		Spacing left (m) =									
Spacing right (m) =											
=Total No. this sheet											
Additional Instruction as per Reference											

Quantity Assessment	#	#	#	#	SAMBURU NORTH/EAST	#	#	#	#	-										
Chainage:	9.0		9.2		9.4		9.6		9.8		10.0									
Input Measurements:	Free Clearance Width for Calculating areas										Aver. (m) 1 to 4 readings ^{*)}									
Bush Clearing	12	13	11	m	12.5	13	12	m	12.5	13	12	m	12.5	13	12	m	12.5	12	13	m
Grass Cutting				m				m				m				m				m
Grubbing	6.5	7	6	m	7	7	7	m	6.5	7	6	m	6.5	7	6	m	7	7	7	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).																				
Measurements for small cut to fill:	Height of Cut / Differences in Levels for calculating volumes										Aver. (m) 1 to 4 readings ^{*)}									
Height of cut < 0.25m	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			cm	0			cm	0			cm	0			cm	0			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	200	m2	100	m2	100	m2	100	m2	100	m2	600									
Grass Cutting		m2		m2		m2		m2		m2										
Grubbing	900	m2	800	m2	900	m2	900	m2	800	m2	4,300									
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	No.	0									
	Quantities									Total this page										
Height of cut < 0.25m		m3 (insitu)		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	m3 (insitu)	0									
Embankment		m3 (insitu)		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	m3 (insitu)	1,190									
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:																				