

DETAILED IMPROVEMENT PLAN

Page:

11

Road Name BARAGOI-MASIKITA-SEREOLIPI

County

SAMBURU

From:

40+000

To:

41+000

[illegible]

Quantity Assessment		BARAGOI-MASIKITA-SEREOLIPI										County:		SAMBURU		From:		40+000		To:		41+000		pg 11						
Chainage:		40+000				40+200				40+400				40+600				40+800				41+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	4	4	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	4	4	0	0	0	m
Tree and stump removal	0					m	0					m	0					m	0					m	3	2	1			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	1,800	7,400																				
Grass Cutting		m2		m2		m2		m2																						
Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,800	7,400																				
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	3	3																				
	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)		0																				
Drains full re-construction	121	m3 (insitu)	208	m3 (insitu)	208	m3 (insitu)	175	m3 (insitu)	208	920																				
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		BARAGOI-MASIKITA-SEREOLIPI										County: SAMBURU		From: 41+000		To: 42+000		pg 12							
Chainage:	41+000	41+200					41+400					41+600					41+800					42+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	1,400	m2	1,400	m2	7,000		
Grass Cutting		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2		m2			
Grubbing	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	5,000		
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)			
Drains full re-construction	242	m3 (insitu)	108	m3 (insitu)	208	m3 (insitu)	54	m3 (insitu)	108	m3 (insitu)	720	m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		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)			
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:																									

DETAILED IMPROVEMENT PLAN

Page:

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Road Name BARAGOI-MASIKITA-SEREOLIPI

County

SAMBURU

From:

42+000

To:

43+000

[illegible]

Quantity Assessment		BARAGOI-MASIKITA-SEREOLIPI										County:		SAMBURU		From:		42+000		To:		43+000		pg 13						
Chainage:	42+000					42+200					42+400					42+600					42+800					43+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	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	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)	141	m3 (insitu)	242	m3 (insitu)	108	m3 (insitu)	141	m3 (insitu)	807	m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		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:																														

DETAILED IMPROVEMENT PLAN

Page:

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Road Name BARAGOI-MASIKITA-SEREOLIPI

County

SAMBURU

From: 43+000

To: 44+000

44+000

Chainage	(kilometres)		43 + 0				43 + 100				43 + 200				43 + 300				43 + 400				43 + 500				43 + 600				43 + 700				43 + 800				43 + 900				44 + 0			
	(metres)		BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G						
Road form.	Subgrade		BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G						
	Cross section		BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G			BG	G						
Earth-works	Method: RES, ETL or FILL		RES				RES				RES				FILL				FILL				FILL				FILL				FILL			FILL			FILL			FILL						
	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 %)			-4				-1				-7				-7				-7				-7				-7				-1				-1											
Mitre drains	Total	Number left =									1				1																															
	6	Number right =									1				1				1																											
Catch water	Total	Length of drain left =																																												
	0	Length of drain right =																																												
Culverts	N Ex CD AC/D L/R	Chainage (m) = New line	43+070											43+350				43+400								43+500				43+700				43+840	43+870											
		= Existing line	N											N				N								N				N			N													
		= Cross drainage	CD											CD				CD								CD				CD			CD													
		= Access culvert/ drift																																												
	Length (m)	Ø 450mm																																												
		Ø 600mm																																												
		Ø 900mm	8												8				8								8				8	8														
	Ramp	Earth fill (m3)																																												
H. Concrete (m3)		IV												IV				IV								IV				IV	IV															
Head-walls	Inlet (Material/Type)		I											I				I									I						I	I												
	Outlet (Material/Type)		I											I				I									I						I	I												
Scour Checks	HC	= Material this sheet/ Spacing left (m) =									15			15				15								15																				
	80	= Spacing right (m) = =Total No. this sheet									15			15				15								15																				
Additional Instruction as per Reference																																														

Quantity Assessment		BARAGOI-MASIKITA-SEREOLIPI										County:		SAMBURU					From:		43+000					To:		44+000					pg 14	
Chainage:		43+000					43+200					43+400					43+600					43+800					44+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	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		6	6	0	0	0	m	6	6	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			
^{*)} Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																																		
Cross Section Sketch																						5.40												
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	7.5		5		10	cm			
Height of cut > 0.25m		0	0				cm	0					cm	0		0		0	cm	0		0		0	cm	7.5		5		10	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		1,800	m2		1,800	m2		1,800	m2		8,200																	
Grass Cutting			m2			m2			m2			m2			m2																			
Grubbing		1,000	m2		1,000	m2		1,400	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)		81	m3 (insitu)		81																	
Height of cut > 0.25m		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		0	m3 (insitu)		81	m3 (insitu)		81																	
Embankment			m3 (insitu)		189	m3 (insitu)		378	m3 (insitu)		378	m3 (insitu)		378	m3 (insitu)		1,323																	
Drains full re-construction		175	m3 (insitu)		141	m3 (insitu)		175	m3 (insitu)		242	m3 (insitu)		242	m3 (insitu)		974																	
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:		43+000		To:		44+000		pg 14						
Chainage:	43+000					43+200					43+400					43+600					43+800					44+000				
Input Measurements:	Aver. (m) 1 to 4 readings⁷⁾ 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	4	4	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	4	4	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	4	4				m	2	2				m
⁷⁾ 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 readings⁷⁾ Height of Cut / Differences in Levels for calculating volumes Aver. (m) 1 to 4 readings⁷⁾																													
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
⁷⁾ 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		1,800	m2		1,400	m2		1,400	m2		7,400														
Grass Cutting		m2			m2			m2			m2			m2																
Grubbing	1,000	m2		1,000	m2		1,400	m2		1,000	m2		1,000	m2		5,400														
Tree and stump removal	0	No.		0	No.		0	No.		4	No.		2	No.		6														
	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	189	m3 (insitu)			m3 (insitu)		162	m3 (insitu)		81	m3 (insitu)			m3 (insitu)		432														
Drains full re-construction	54	m3 (insitu)			m3 (insitu)		175	m3 (insitu)		121	m3 (insitu)			m3 (insitu)		350														
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:																														