

Quantity Assessment		-	-	-	#	#	-	#	-	-	Page: 1										
Chainage:		0.0	0.2	0.4	0.6	0.8	1.0														
Input Measurements:		Free Clearance Width for Calculating areas																			
	Aver. (m)	1 to 4 readings ¹⁾								Aver. (m)	1 to 4 readings ¹⁾										
Bush Clearing	8.25	8.5	8	m	8	6	10	m	9	9	9	m	8.75	8.5	9	m	8.5	8.5	9	m	
Grass Cutting				m				m				m				m				m	
Grubbing	8	8	8	m	8	6	10	m	8	8	8	m	8	8	8	m	8	8	8	m	
Tree and stump removal	0			m	0			m	0			m	0			m	0			m	
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																					
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	0		cm	0	0		cm	0	0		cm	0	0		cm	0	0		cm	
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																					
Quantities:		Quantities										Total this page									
Bush Clearing	1,150	m2	1,200	m2	1,000	m2	1,050	m2	1,100	5,500											
Grass Cutting		m2		m2		m2		m2													
Grubbing	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	5,000											
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0	0											
Quantities		Quantities										Total this page									
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)													
Height of cut > 0.25m	0	m3 (insitu)	0	m3 (insitu)	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)													
Quantities verified and accepted by the Contractor											Name:	Date:	Signature:								
For the Employer											KeRRA	Name:	Date:	Signature:							

Chainage:	1.0	1.2	1.4	1.6	1.8	2.0
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Input Measurements:	Free Clearance Width for Calculating areas																								
	Aver. (m) 1 to 4 readings ¹⁾								Aver. (m) 1 to 4 readings ¹⁾																
Bush Clearing	7	7		7	m	7.5	7		8	m	7	7		7	m	7	6		8	m	7	7		7	m
Grass Cutting					m					m					m					m					m
Grubbing	7	7		7	m	7	7		7	m	7	7		7	m	7	7		7	m	7.5	7		8	m
Tree and stump removal	0				m	0				m	0				m	0				m	0				m

¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

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	0		0	cm	0	0		0	cm	0	0		0	cm	0	0		0	cm	0	0		0	cm

¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Quantities:	Quantities										Total this page
Bush Clearing	1,400	m2	1,300	m2	1,400	m2	1,400	m2	1,400	m2	6,900
Grass Cutting		m2		m2		m2		m2		m2	
Grubbing	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,100	m2	5,900
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)	

Quantities verified and accepted by the Contractor Name: Date: Signature:
 For the Employer Regional Manager KeRRA Name: Date: Signature:

Chainage: 2.0 2.2 2.4 2.6 2.8 3.0

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

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⁾			cm			cm			cm			Aver. (m) 1 to 4 readings ¹⁾			cm			
Height of cut < 0.25m	0			cm	0			cm	0			cm	0			cm	0		

For Reshaping :	Difference in Level between Exist. Camber and Side Drain for calculating volumes																		
	cm			cm			cm			cm			cm						
Existing Roads	0	0	0	cm	0	0	0	cm	0	0	0	cm	0	0	0	cm	0	0	0

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
	m2		m2		m2		m2		
Bush Clearing	1,400		1,400		1,200		1,120		6,240
Grass Cutting									
Grubbing	1,400		1,400		1,300		1,120		6,340
Tree and stump removal	0	No.	0	No.	0	No.	0	No.	0

	Quantities								Total this page
	m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		
Height of cut < 0.25m									
Height of cut > 0.25m									0
Embankment									
Drains full re-construction	238		238		238		119		952
Reshaping by Labour									
By Towed Grader/Labour									
By Equipment Based Method									

Quantities verified and accepted by the Contractor Name: Date: Signature:

For the Employer Regional Manager KeRRA Name: Date: Signature:

Quantity Assessment		-	#	-	#	-	#	-	#	-	#	Page: 4													
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		
Bush Clearing		7	7	7	m	7	7	7	m	7	7	7	m	7	7	7	m	6.5	6	7	m				
Grass Cutting					m				m				m				m				m				
Grubbing		6	6	6	m	6	6	6	m	6	6	6	m	6	6	6	m	6.5	6	7	m				
Tree and stump removal		0			m	0			m	0			m	0			m	0			m				
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																									
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		40	40	40	cm	0	0	0	cm	0	0	0	cm	0	0	0	cm	0	0	0	cm				
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																									
Quantities:		Quantities																		Total this page					
Bush Clearing		1,120	m2	1,120	m2	1,120	m2	1,120	m2	1,500		5,980													
Grass Cutting			m2		m2		m2		m2																
Grubbing		1,120	m2	1,120	m2	1,120	m2	1,120	m2	1,300		5,780													
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)		m3 (insitu)														
Height of cut > 0.25m			m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	m3 (insitu)	0	0												
Embankment		240	m3 (insitu)	0	m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	240													
Drains full re-construction		119	m3 (insitu)	119	m3 (insitu)	119	m3 (insitu)	119	m3 (insitu)	238	m3 (insitu)	714													
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)														
Quantities verified and accepted by the Contractor										Name:			Date:			Signature:									
For the Employer Regional Manager KeRRA										Name:			Date:			Signature:									

Quantity Assessment		-	#	-	#	-	#	-	#	-	#	-	#	-	#	Page:											
Chainage:		4.0					4.2					4.4					4.6					4.8					5.0
Input Measurements:		Free Clearance Width for Calculating areas																									
		Aver. (m) 1 to 4 readings ¹⁾																Aver. (m) 1 to 4 readings ¹⁾									
Bush Clearing		7	7	7	m	7	7	7	m	7	7	7	m	7	7	7	m	6.5	6	7	m						
Grass Cutting					m				m				m				m				m						
Grubbing		6	6	6	m	6	6	6	m	6	6	6	m	6	6	6	m	6.5	6	7	m						
Tree and stump removal		0			m	0			m	0			m	0			m	0			m						
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																											
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	0	0	cm	0	0	0	cm	0	0	0	cm	0	0	0	cm	0	0	0	cm						
¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).																											
Quantities:		Quantities																Total this page									
Bush Clearing		1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,500	7,100																
Grass Cutting			m2		m2		m2		m2																		
Grubbing		1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,300	6,900																
Tree and stump removal		0	No.	0	No.	0	No.	0	No.	0	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		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)																		
Quantities verified and accepted by the Contractor												Name:	Date:	Signature:													
For the Employer		Regional Manager KeRRA										Name:	Date:	Signature:													

Chainage: 6.0 6.2 6.4 6.6 6.8 7.0

Input Measurements:	Free Clearance Width for Calculating areas																			
	Aver. (m) 1 to 4 readings ¹⁾												Aver. (m) 1 to 4 readings ¹⁾							
Bush Clearing	8	8	8	m	8	8	8	m	8	8	8	m	8	8	8	m	8.5	8	9	m
Grass Cutting				m				m				m				m				m
Grubbing	5	5	5	m	5	5	5	m	5	5	5	m	5	5	5	m	5	5	5	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	0	0	cm	0	0	0	cm	0	0	0	cm	0	0	0	cm	0	0	0	cm

¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Quantities:	Quantities										Total this page
Bush Clearing	1,200	m2	1,200	m2	1,200	m2	1,200	m2	1,100	5,900	
Grass Cutting		m2		m2		m2		m2			
Grubbing	1,600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000	
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		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)	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
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)	

Quantities verified and accepted by the Contractor Name: _____ Date: _____ Signature: _____
 For the Employer Regional Manager KeRRA Name: _____ Date: _____ Signature: _____

Quantity Assessment		-	#	-	#	-	#	-	#	-	#	Page: 6					
Chainage:		7.0	7.2	7.4	7.6	7.8	8.0										
Input Measurements:		Free Clearance Width for Calculating areas															
		Aver. (m)	1 to 4 readings ^{?)}								Aver. (m)	1 to 4 readings ^{?)}					
Bush Clearing		9	9	9	m	9	9	9	m	9	9	9	m	9	9	9	m
Grass Cutting					m				m				m				m
Grubbing		5	5	5	m	5	5	5	m	5	5	5	m	5.75	5.5	6	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).																	
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
For Reshaping :		Difference in Level between Exist. Camber and Side Drain for calculating volumes															
Existing Roads		0	0	0	cm	0	0	0	cm	0	0	0	cm	0	0	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		1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000			
Grass Cutting			m2		m2		m2		m2		m2		m2				
Grubbing		1,600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	m2	1,450	m2	1,450	7,850		
Tree and stump removal		0	No.	0	No.	0	No.	0	No.	0	No.	0	No.	0	0		
Quantities:		Quantities										Total this page					
Height of cut < 0.25m			m3 (insitu)		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)		m3 (insitu)	0	0		
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)	238	1,190		
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)				
Quantities verified and accepted by the Contractor											Name:		Date:		Signature:		
For the Employer											Name:		Date:		Signature:		
Regional Manager KeRRA																	

Quantity Assessment	-	#	-	#	#	-	#	-	#	-	Page: 6
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Chainage:	8.0	8.2	8.4	8.6	8.8	9.0
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Input Measurements:	Free Clearance Width for Calculating areas																			
	Aver. (m) 1 to 4 readings ¹⁾												Aver. (m) 1 to 4 readings ¹⁾							
Bush Clearing	9	9	9	m	9	9	9	m	9	9	9	m	9	9	9	m	9	9	9	m
Grass Cutting				m				m				m				m				m
Grubbing	6	6	6	m	6	6	6	m	5	5	5	m	5	5	5	m	5	5	5	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	0	0	cm	0	0	0	cm	0	0	0	cm	0	0	0	cm	0	0	0	cm

¹⁾ Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Quantities:	Quantities										Total this page
Bush Clearing	1,000	m2	1,000	m2	1,000	m2	1,000	m2	1,000	m2	5,000
Grass Cutting		m2		m2		m2		m2		m2	
Grubbing	1,400	m2	1,400	m2	1,600	m2	1,600	m2	1,600	m2	7,600
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		m3 (insitu)		m3 (insitu)		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)	

Quantities verified and accepted by the Contractor	Name:	Date:	Signature:
For the Employer Regional Manager KeRRA	Name:	Date:	Signature:

DETAILED IMPROVEMENT PLAN

Road Name: ISILO - MLANGO - OLDONYIRO		County: ISILO		From: 1+000	To: 2+000							
Chain- age	(kilometres)	9 + 0	9 + 100	9 + 200	9 + 300	9 + 400	9 + 500	9 + 600	9 + 700	9 + 800	9 + 900	10 + 0
	(metres)											
Road form.	Subgrade	CS	CS	CS	CS	CS	CS	CS	CS	CS	CS	CS
	Cross section	B	B	B	B	B	B	B	B	B	B	B
Earth-works	Method: RES, ETL or FILL	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES	RES
	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	15	15	15	15	15	15	15	15	15	15	
	Thickness (cm,comp.)	1	1	1	1	1	1	1	1	1	1	
Mitre drains	Longitudinal gradient (in %)	-2	-2	-2	0	2	2	2	-2	-2	0	
	Total											
Catch water	Number left =			1								
	Number right =		1	1	1				1			
Culverts	Total											
	Length of drain left =											
Head- walls	Chainage (m)											9+920
	N = New line											N
	Ex = Existing line											D
	CD = Cross drainage											18M
	AC/D = Access culvert/ drift											
	L/R = Left/ right											
	Length (m)											
Scour Checks	Ø 450mm											
	Ø 600mm											
Head- walls	Ø 900mm											
	Ramp											
Head- walls	Earth fill (m3)											
	H. Concrete (m3)											
Head- walls	Inlet (Material/Type)											
	Outlet (Material/Type)											
Scour Checks	HC = Material this sheet/											
	Spacing left (m) =											
Scour Checks	Spacing right (m) =											
	=Total No. this sheet											
Additional Instruction as per Reference												

