Revision and Errata List — February 2016

Cost Estimation Manual Vol. 1 — 1st Edition

The following list represents corrections to the First Printing of the Cost Estimation Manual Vol. 1, 1st Edition. These corrections are incorporated in the Second Printing.

Edition 1	Location	Description
Printed	Page v	Improve clarity on signature of the author of foreword, Eng. Patrick Mwinzi
Printed	Page 3; clause 1.4 Cost Structure for Estimation	The 2nd sentence to read "The Total Project Cost consists of…."
	Page 24 & 25; Table 5-10 Km Standardized Quantities in a simple Quantity for Each Road Authority (2015)	Include "Note: Figures are from survey on the Paved Road" under table for KeNHA, KeNHA (2x2Lanes) and KURA. Include "Note: Figures are from survey on the Unpaved Road" under table for KeRRA and KWS
Printed	Page 23; Figure 5-3 Typical Section for Grass Cutting Maintenance Work	Replace this figure with the attached revised Figure 5-3 Typical Section for Grass Cutting Maintenance Works (page i)
Printed	Page 39; clause 5. Unit rates information (Database Table: Unit Price 1)	Replace "10" with "11"
Printed	Page 40	Replace "10" with "11"
Printed	Page 57	Replace Form – 3 with the attached revised form – 3 (page ii)
Printed	Page 58	Replace Form – 3 with the attached revised form – 3 (page iii)

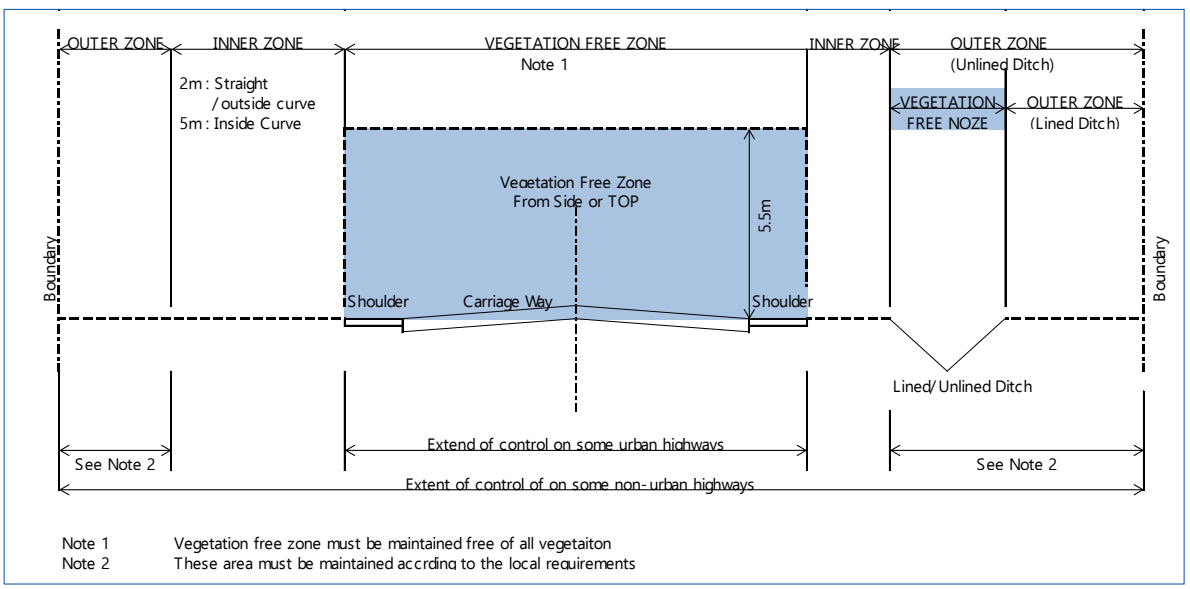

Figure 5 – 3 Typical Section for Grass Cutting Maintenance Work

Form-3

Productivity Survey Summary Form **Labour Based Works**

Location	Kerugoya	Client	KURA	Site	Kerugoya - Hit Transporters	Weather	Sunny	Initial Mobilization Period / Routine Maintenance		**No. 69**
Width of Road Reserve (Wr)	12.50 m	Width of Carriage Way (Wc)	6 m	Left Lined Ditch (LL)	0 m	Right Lined Ditch (RL)	0 m	Grass Cutting Width (GW)=(Wr)-(Wc)-(LL)-(RL)	6.50 m	Total Length	0 m	Number of Labors	0	Men	10/1/2015

Worked Items		Asset Quantity							Labour Input						SRUQ		Remarks (Equipment)
		Simple Quantity			Actual Quantity		Work Difficulty		Foreman	Supervisor	Labors				(4) Simple SRUQ (man day/ Qty)	(5) Actual SRUQ (man day/ Qty)	
		Q'ty	Unit	Remarks	Q'ty (Vol)	Unit	-Heavy -Normal -Light	Remark	nos	nos	nos	working hours					
		a			b				c	d	e	f	j=e×f	Man day	ps = j/7a	pa = j/7b	
1)	Grass Cutting(1) / Left		m^2	GW x L		m^2							0	0			
	Grass Cutting(2) / Right		m^2	GW x L		m^2							0	0			
2)	Cross Culvert(1)		Pcs			Pcs							0	0			
			m										0	0			
	Cross Culvert(2)		Pcs			Pcs							0	0			
			m										0	0			
3)	Catch Basin / Cover(1)		Pcs			Pcs							0	0			
	Catch Basin / Cover(2)		Pcs			Pcs							0	0			
	Catch Basin / No cover(1)		Pcs			Pcs							0	0			
	Catch Basin / No cover(2)		Pcs			Pcs							0	0			
4)	Lined Side Ditch(1)		m	L		m							0	0			
	Lined Side Ditch(2)		m	L		m							0	0			
5)	Unlined Side ditch(1)		m	L		m							0	0			
	Unlined Side ditch(2)	15.5	m	L	15.5	m	normal				1	0.3333	0.3333	0.047614286	0.0030	0.0031	
6)	Carriage De-silting(1)	74.3	m^2	Lx0.5(m)	52.0	m^2	Heavy				2	0.667	1.334	0.190571429	0.0026	0.0037	
	Carriage De-silting(2)		m^2	Lx0.5(m)		m^2							0				
	Total										3	1.0003	1.6673				
													0.0	1 day = 7 working hours			
													Man day				

389.88006
272.916042

Note:

To use one sheet per day
To fill only the number of workers who are engaged in PBC works
Total number of workers or equipment shall tally the number of workers or equipment for PBC works on site.
To specify structures to be maintained
To fill the maintained Q'ty which includes places/areas that don't require any actual maintenance works

Form-3

Productivity Survey Summary Form **Labour Based Works**

Location	Kerugoya	Client	KURA	Site	KeNHA rd	Weather	Sunny	Initial Mobilization Period / Routine Maintenance				**No. 70**
Width of Road Reserve (Wr)	21.20 m	Width of Carriage Way (Wc)	6 m	Left Lined Ditch (LL)	0 m	Right Lined Ditch (RL)	0 m	Grass Cutting Width (GW)=(Wr)-(Wc)-(LL)-(RL)	15.50 m	Total Length	0 m	Number of Labors	0	Men	20/2/2015

Worked Items		Asset Quantity							Labour Input						SRUQ		Remarks (Equipment)
		Simple Quantity			Actual Quantity		Work Difficulty		Foreman	Supervisor	Labors				(4) Simple SRUQ (man day/ Qty)	(5) Actual SRUQ (man day/ Qty)	
		Q'ty	Unit	Remarks	Q'ty (Vol)	Unit	-Heavy -Normal -Light	Remark	nos	nos	nos	working hours					
		a			b				c	d	e	f	j=e×f	Man day	ps = j/7a	pa = j/7b	
1)	Grass Cutting(1) / Left		m^2	GW x L		m^2							0	0			
	Grass Cutting(2) / Right	43.7	m^2	GW x L	22.68	m^2	Normal				1	1	1	0.142857143	0.0033	0.0063	
2)	Cross Culvert(1)		Pcs			Pcs							0	0			
		7.65	m		7.65		Normal				1	1.5	1.5	0.214285714	0.0280	0.0280	
	Cross Culvert(2)		Pcs			Pcs							0	0			
			m										0	0			
3)	Catch Basin / Cover(1)		Pcs			Pcs							0	0			
	Catch Basin / Cover(2)		Pcs			Pcs							0	0			
	Catch Basin / No cover(1)		Pcs			Pcs							0	0			
	Catch Basin / No cover(2)		Pcs			Pcs							0	0			
4)	Lined Side Ditch(1)		m	L		m							0	0			
	Lined Side Ditch(2)		m	L		m							0	0			
5)	Unlined Side ditch(1)		m	L		m							0	0			
	Unlined Side ditch(2)	15.5	m	L		m	Normal						0	0.047614286			
6)	Carriage De-silting(1)	74.3	m^2	Lx1.0(m)		m^2	Heavy						0	0.190571429			
	Carriage De-silting(2)		m^2	Lx1.0(m)		m^2							0				
	Total										2	2.5	2.5				
													0.0		1 day = 7 working hours		
													Man day				

Note)

To use one sheet per day
To fill only the number of workers who are engaged in PBC works
Total number of workers or equipment shall tally the number of workers or equipment for PBC works on site.
To specify structures to be maintained
To fill the maintained Q'ty which includes places/areas that don't require any actual maintenance works