

# Revision and Errata List — February 2016

## Cost Estimation Manual Vol. I — 1<sup>st</sup> Edition

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

| Edition I | 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 2 <sup>nd</sup> sentence to read “The <u>Total</u> 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 I)                                | 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)  |

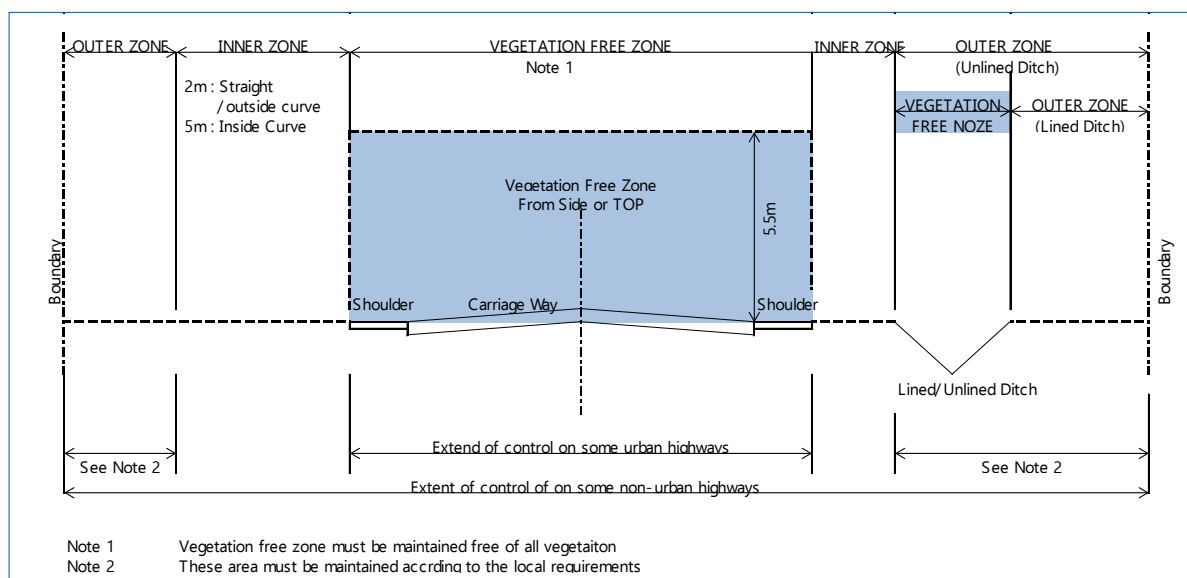


Figure 5 – 3 Typical Section for Grass Cutting Maintenance Work

# Form-3

## Productivity Survey Summary Form    Labour Based Works

|                            |          |                            |      |                       |                            |  |   |               |
|----------------------------|----------|----------------------------|------|-----------------------|----------------------------|--|---|---------------|
| Location                   | Kerugoya | Client                     | KURA | Site                  | Kerugya - Hit Transporters | Weather                                      | Initial Mobilization Period / Routine Maintenance |               |
| 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   | <b>No. 69</b> |
|                            |          |                            |      |                       |                            | Grass Cutting Width (GW)=(Wr)-(Wc)-(LL)-(RL) | 6.50 m  | 10/1/2015     |
|                            |          |                            |      |                       |                            |  | Total Length                                      |               |
|                            |          |                            |      |                       |                            |  | 0 m   | Men           |
|                            |          |                            |      |                       |                            |  | 0   | 0             |

| Worked Items | Simple Quantity |                |                |            | Actual Quantity |                             | Work Difficulty |            | Labour Input |               |   | SRUQ                                    |        | Remarks (Equipment)     |
|--------------|-----------------|----------------|----------------|------------|-----------------|-----------------------------|-----------------|------------|--------------|---------------|---|---|--------|-------------------------|
|              | Q'ty            | Unit           | Remarks        | Q'ty (Vol) | Unit            | -Heavy<br>-Normal<br>-Light | Remark          | Supervisor | Labors       |               | (4)<br>Simple SRUQ<br>(man day/<br>Qty) | (5)<br>Actual SRUQ<br>(man day/<br>Qty) |        |                         |
|              |                 |                |                |            |                 |                             |                 |            | nos          | working hours |   |   | nos    |                         |
|              | a               | b              | c              | e          | f               | j=e x f                     | Man day         | ps = j/7a  | pa = j/7b    |               |   |   |        |                         |
| 1)           |                 | m <sup>2</sup> | GW x L         |            | m <sup>2</sup>  |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
|              |                 | m <sup>2</sup> | GW x L         |            | m <sup>2</sup>  |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
| 2)           |                 | Pcs            |                |            | Pcs             |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
|              |                 | m              |                |            | m               |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
|              |                 | Pcs            |                |            | Pcs             |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
|              |                 | m              |                |            | m               |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
| 3)           |                 | Pcs            |                |            | Pcs             |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
|              |                 | Pcs            |                |            | Pcs             |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
| 4)           |                 | m              | L              |            | m               |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
|              |                 | m              | L              |            | m               |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
| 5)           |                 | m              | L              |            | m               |                             |                 |            |              |               | 0                                       | 0                                       |        |                         |
|              |                 | 15.5           | m              | L          | 15.5            | normal                      |                 |            |              |               | 0.3333                                  | 0.047614286                             | 0.0030 | 0.0031                  |
| 6)           |                 | 74.3           | m <sup>2</sup> | Lx0.5(m)   | 52.0            | Heavy                       |                 |            |              |               | 1.334                                   | 0.190571429                             | 0.0026 | 0.0037                  |
|              |                 |                | m <sup>2</sup> | Lx0.5(m)   |                 |                             |                 |            |              |               | 0                                       |   |        |                         |
| Total        |                 |                |                |            |                 |                             |                 |            |              |               | 3                                       | 1.0003                                  | 1.6673 |                         |
|              |                 |                |                |            |                 |                             |                 |            |              |               |   |   |        | 1 day = 7 working hours |
|              |                 |                |                |            |                 |                             |                 |            |              |               |   |   |        | 0.0                     |
|              |                 |                |                |            |                 |                             |                 |            |              |               |   |   |        | 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

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