

Mm G-Sey (SC)  
R soal - Mahto tola to 48

# Measurement Book

Schedule XLV-Form No. 134

Ag-MSP Rudora Enker Jais

DIVISION

SUB-DIVISION

# Further Measurement

9

Sch. XLV-Form No. 134

| Particulars                                 | Details of actual measurement                                                           |               |             |        | Contents of area                            |
|---------------------------------------------|-----------------------------------------------------------------------------------------|---------------|-------------|--------|---------------------------------------------|
|                                             | No.                                                                                     | L.            | B.          | D.     |                                             |
| Date of measurement:                        | 27.11.23                                                                                |               |             |        |                                             |
| Details of work done:                       |                                                                                         |               |             |        |                                             |
| (1)                                         | Construction of Reference & working Bench mark etc all complete job                     |               |             |        | → 1.335 km                                  |
| (2)                                         | Construction of Reference Pillars / Burjees as per specification & drawings             |               |             |        | → 1.335 km                                  |
| (3)                                         | clear up & grubbing road land etc all complete job.                                     |               |             |        |                                             |
|                                             |                                                                                         | 44 x 30.100 M | 2 x 1.50 M  | (av)   | 3.760 m <sup>2</sup>                        |
|                                             |                                                                                         | 1 x 15.00 M   | 2 x 2.00 M  | (av)   | 60 "                                        |
|                                             |                                                                                         |               |             | Total  | 4020 m <sup>2</sup>                         |
|                                             |                                                                                         |               |             |        | or 0.402 Hec                                |
| (4)                                         | Construction of subgrade & Earthen Shoulders etc all complete job                       |               |             |        |                                             |
| B.T road portion (earthen)                  |                                                                                         | 5 x 30.100 M  | 2 x 7.78 M  | 0.30 M | 357.10 m <sup>3</sup>                       |
| (5)                                         | Construction of Granular Subbase by providing well graded material etc all complete job |               |             |        |                                             |
|                                             |                                                                                         |               |             |        | Qty in side TMB P-S → 550.04 m <sup>3</sup> |
| Deduct Qty for 65 M length of c.c. Portion. |                                                                                         |               |             |        |                                             |
| ie                                          |                                                                                         | 2 x 30.100 M  | 2 x 0.375 M | 0.10 M | 4.50 m <sup>3</sup>                         |
|                                             |                                                                                         | 1 x 5.00 M    | 2 x 0.375 M | 0.10 M | 0.375 "                                     |
|                                             |                                                                                         |               |             | Total  | 4.875 m <sup>3</sup>                        |
|                                             | Hence Net Qty = (550.04 - 4.875) m <sup>3</sup>                                         |               |             |        |                                             |
|                                             |                                                                                         |               |             |        | = 545.165 m <sup>3</sup>                    |

Continuation

| Particulars                               | Details of actual measurement                                                                                                   |             |             |                 | Contents of area                         |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-----------------|------------------------------------------|
|                                           | No.                                                                                                                             | L.          | B.          | D.              |                                          |
| (6/10)                                    | Providing, laying, spreading & compacting stone aggregate of specific size down to 3mm & 3 specifications etc all complete job. |             |             |                 |                                          |
|                                           |                                                                                                                                 |             |             |                 | Qty vide TMB P-5 → 313.78 M <sup>3</sup> |
| Deduct Qty of 65m length for C.C. Portion |                                                                                                                                 |             |             |                 |                                          |
| ie. {                                     | 2 × 30.00 M                                                                                                                     | 2 × 0.375 M | 2 × 0.025 M |                 | = 3.375 M <sup>3</sup>                   |
|                                           | 1 × 5.00 M                                                                                                                      | 2 × 0.375 M | 2 × 0.025 M |                 | = 0.28125 M <sup>3</sup>                 |
|                                           |                                                                                                                                 |             |             | Total           | 3.65625 M <sup>3</sup>                   |
|                                           |                                                                                                                                 |             |             | Hence Net Qty = | (313.78 - 3.65625) M <sup>3</sup>        |
|                                           |                                                                                                                                 |             |             |                 | = 310.12375 M <sup>3</sup>               |
| (7/11)                                    | Providing & applying polymer coat                                                                                               |             |             |                 |                                          |
|                                           | etc all complete job.                                                                                                           |             |             |                 |                                          |
| 00-755 M                                  | 8 × 30.00 M                                                                                                                     | 3.75 M      |             |                 | = 900.00 M <sup>2</sup>                  |
| "                                         | 1 × 15.00 M                                                                                                                     | 3.75 M      |             |                 | = 56.25 "                                |
| 489 M-596 M                               | 3 × 30.00 M                                                                                                                     | 3.75 M      |             |                 | = 337.50 "                               |
| "                                         | 1 × 17.00 M                                                                                                                     | 3.75 M      |             |                 | = 63.75 "                                |
| 669-1113 M                                | 4 × 30.00 M                                                                                                                     | 3.75 M      |             |                 | = 1575.00 "                              |
| "                                         | 1 × 24.00 M                                                                                                                     | 3.75 M      |             |                 | = 90.00 "                                |
|                                           |                                                                                                                                 |             |             | Total           | 3022.50 M <sup>2</sup>                   |
|                                           |                                                                                                                                 |             |             | Limited to      | 3018.64 M <sup>2</sup>                   |
| (8/14)                                    | Construction of unreinforced plain cement concrete pavement M15 grade etc all complete job.                                     |             |             |                 |                                          |
| Link                                      | 2 × 30.00 M                                                                                                                     | 3.75 M      | 0.16 M      |                 | = 36.00 M <sup>3</sup>                   |
|                                           | 1 × 6.0 M                                                                                                                       | 3.75 M      | 0.16 M      |                 | = 3.60 "                                 |
|                                           |                                                                                                                                 |             |             | C.O             | 39.60 M <sup>3</sup>                     |

Continuation

| Particulars                                          | Details of actual measurement |         |                               |        | Contents of area       |
|------------------------------------------------------|-------------------------------|---------|-------------------------------|--------|------------------------|
|                                                      | No.                           | L.      | B.                            | D.     |                        |
| $\frac{8}{14}$ Contd:                                |                               |         | B.F                           | →      | 39.60 m <sup>3</sup>   |
| 255604897                                            | 7                             | 30.00 m | 3.75 m                        | 0.16 m | = 126.00 "             |
| "                                                    | 1                             | 10.00 m | $\frac{(3.75+5.0)}{2}$ m      | 0.16 m | = 7.00 "               |
| "                                                    | 1                             | 14.00 m | $\frac{(3.75+5.0+3.75)}{2}$ m | 0.16 m | = 9.333 "              |
| 596-6697                                             | 1                             | 20.00 m | $\frac{(3.75+4.5+3.75)}{3}$ m | 0.16 m | = 12.80 "              |
| "                                                    | 1                             | 30.00 m | 3.75 m                        | 0.16 m | = 18.00 "              |
| "                                                    | 1                             | 23.00 m | $\frac{(3.75+3.9)}{2}$ m      | 0.16 m | = 14.076 "             |
| 1113-12697                                           | 1                             | 20.00 m | $\frac{(3.75+4.5+6.0)}{3}$ m  | 0.16 m | = 15.20 "              |
| "                                                    | 4                             | 30.00 m | 3.75 m                        | 0.16 m | = 72.00 "              |
| "                                                    | 1                             | 16.00 m | 3.75 m                        | 0.16 m | = 9.60 "               |
| Total =                                              |                               |         |                               |        | 323.609 m <sup>3</sup> |
| $\begin{array}{r} 11 \\ 27 \\ \hline 28 \end{array}$ |                               |         |                               |        | 28/2/23                |
| A.E                                                  |                               |         |                               |        | A.E                    |

Continuation

# Further Measurement

13

Sch. XLV-Form No. 134

| Particulars                                                                                                   | Details of actual measurement |       |    |            | Contents of area       |
|---------------------------------------------------------------------------------------------------------------|-------------------------------|-------|----|------------|------------------------|
|                                                                                                               | No.                           | L.    | B. | D.         |                        |
| Date of measurement :-                                                                                        |                               |       |    |            | 7.12.23                |
| Details of work done :-                                                                                       |                               |       |    |            |                        |
| (1/12) Providing and applying Tack coat etc all complete job.                                                 |                               |       |    |            |                        |
| 00 to 255M                                                                                                    | 8x30.00Mx                     | 3.75M |    |            | = 900.00M <sup>2</sup> |
| "                                                                                                             | 1x15.00Mx                     | 3.75M |    |            | = 56.25 "              |
| 489 to 596M                                                                                                   | 3x30.00Mx                     | 3.75M |    |            | = 337.50 "             |
| "                                                                                                             | 1x17.00Mx                     | 3.75M |    |            | = 63.75 "              |
| 669 to 1112M                                                                                                  | 14x30.00Mx                    | 3.75M |    |            | = 1575.00 "            |
| "                                                                                                             | 1x23.00Mx                     | 3.75M |    |            | = 86.25 "              |
|                                                                                                               |                               |       |    | Total →    | 3018.75M <sup>2</sup>  |
|                                                                                                               |                               |       |    | Limited to | 3018.64M <sup>2</sup>  |
| (2/13) Providing, laying and rolling of close graded premix surface material 20mm thick etc all complete job. |                               |       |    |            |                        |
| 00 to 255M                                                                                                    | 8x30.00Mx                     | 3.75M |    |            | = 900.00M <sup>2</sup> |
| "                                                                                                             | 1x15.00Mx                     | 3.75M |    |            | = 56.25 "              |
| 489 to 596M                                                                                                   | 3x30.00Mx                     | 3.75M |    |            | = 337.50 "             |
| "                                                                                                             | 1x17.00Mx                     | 3.75M |    |            | = 63.75 "              |
| 669 to 1112M                                                                                                  | 14x30.00Mx                    | 3.75M |    |            | = 1575.00 "            |
| "                                                                                                             | 1x23.00Mx                     | 3.75M |    |            | = 86.25 "              |
|                                                                                                               |                               |       |    | Total      | 3018.75M <sup>2</sup>  |
|                                                                                                               |                               |       |    | Limited to | 3018.64M <sup>2</sup>  |
| (3/5) Construction of subgrade & earthen shoulders etc all complete job.                                      |                               |       |    |            |                        |

Continuation

Sch. XLV-Form No. 134

| Particulars        | Details of actual measurement                                       |        |          |    | Contents of area      |
|--------------------|---------------------------------------------------------------------|--------|----------|----|-----------------------|
|                    | No.                                                                 | L.     | B.       | D. |                       |
| (3/5) contd:       |                                                                     |        |          |    |                       |
|                    | <u>C.C. Road Portion</u>                                            |        |          |    |                       |
| In Flank           | 2x30.00m x 2x                                                       | 1.50m  | x 0.20m  |    | 36.00 m <sup>3</sup>  |
| "                  | 1x6.00m x 2x                                                        | 1.50m  | x 0.20m  |    | 3.60 "                |
| "                  | 7x30.00m x 2x                                                       | 1.50m  | x 0.175m |    | 110.25 "              |
| "                  | 1x24.00m x 2x                                                       | 1.50m  | x 0.175m |    | 12.60 "               |
| "                  | 2x30.00m x 2x                                                       | 1.60m  | x 0.175m |    | 33.60 "               |
| "                  | 1x13.00m x 2x                                                       | 1.60m  | x 0.175m |    | 7.28 "                |
| "                  | 5x30.00m x 2x                                                       | 1.51m  | x 0.175m |    | 79.27 "               |
| "                  | 1x6.00m x 2x                                                        | 1.50m  | x 0.175m |    | 3.15 "                |
|                    | <u>B.T. Portion</u>                                                 |        |          |    |                       |
| Sides of GSB       | 8x30.00m x 2x                                                       | 1.49m  | x 0.20m  |    | 143.04 "              |
| "                  | 1x15.00m x 2x                                                       | 1.49m  | x 0.20m  |    | 8.94 "                |
| "                  | 3x30.00m x 2x                                                       | 1.49m  | x 0.20m  |    | 53.64 "               |
| "                  | 1x17.00m x 2x                                                       | 1.49m  | x 0.20m  |    | 10.13 "               |
| "                  | 14x30.00m x 2x                                                      | 1.49m  | x 0.20m  |    | 250.32 "              |
| "                  | 1x24.00m x 2x                                                       | 1.49m  | x 0.20m  |    | 14.30 "               |
| Sides of WBM & PMC | 8x30.00m x 2x                                                       | 1.295m | x 0.075m |    | 46.62 "               |
| "                  | 1x15.00m x 2x                                                       | 1.295m | x 0.075m |    | 2.91 "                |
| "                  | 3x30.00m x 2x                                                       | 1.295m | x 0.075m |    | 17.48 "               |
| "                  | 1x17.00m x 2x                                                       | 1.295m | x 0.075m |    | 3.30 "                |
| "                  | 14x30.00m x 2x                                                      | 1.295m | x 0.075m |    | 81.58 "               |
| "                  | 1x24.00m x 2x                                                       | 1.295m | x 0.075m |    | 4.66 "                |
|                    |                                                                     |        | Total    |    | 922.67 m <sup>3</sup> |
|                    | <u>R.C.C Box Culvert</u>                                            |        |          |    |                       |
| (4/31)             | Eps in excavation for foundation of structures etc all complete job |        |          |    |                       |

Continuation

| Particulars                                                               | Details of actual measurement |        |         |         | Contents of area      |
|---------------------------------------------------------------------------|-------------------------------|--------|---------|---------|-----------------------|
|                                                                           | No.                           | L.     | B.      | D.      |                       |
| (4/31) Contd:-<br>Eg in excavation                                        |                               |        |         |         |                       |
| Raft →                                                                    | 1                             | 1.50 M | 5.60 M  | 0.79 M  | 5.925 M <sup>3</sup>  |
| Cutoff wall                                                               | 2                             | 8.10 M | 0.30 M  | 1.80 M  | 8.748 "               |
| R. wall →                                                                 | 4                             | 1.10 M | 0.25 M  | 0.79 M  | 0.869 "               |
|                                                                           |                               |        | Total → |         | 15.542 M <sup>3</sup> |
| (5/32) Sand filling in foundation trenches etc all complete job.          |                               |        |         |         |                       |
| Raft                                                                      | 1                             | 1.50 M | 4.60 M  | 0.10 M  | 0.69 M <sup>3</sup>   |
| Detached Cutoff wall                                                      | 2                             | 8.10 M | 0.30 M  | 0.10 M  | 0.486 "               |
| R. wall →                                                                 | 4                             | 1.10 M | 0.25 M  | 0.10 M  | 0.11 "                |
|                                                                           |                               |        | Total → |         | 1.286 M <sup>3</sup>  |
| (6/34) Providing peconis grade in open foundation etc all complete job.   |                               |        |         |         |                       |
| Below Raft                                                                | 1                             | 4.60 M | 1.50 M  | 0.10 M  | 0.69 M <sup>3</sup>   |
| R. wall                                                                   | 4                             | 1.10 M | 0.25 M  | 0.10 M  | 0.11 "                |
|                                                                           |                               |        | Total → |         | 0.80 M <sup>3</sup>   |
| (7/43) S/F/P HYSD bar reinforcement in substructure etc all complete job. |                               |        |         |         |                       |
| (a) 10φ →                                                                 | 37                            | 1.57 M | 0.62 kg | 1 M     | 36.01 kg              |
| (b) 12φ →                                                                 | 37                            | 1.57 M | 0.89 kg | 1 M     | 51.70 "               |
| (c) 10φ →                                                                 | 2                             | 37     | 2.84 M  | 0.62 kg | 130.29 "              |
| (d) 10φ →                                                                 | 2                             | 37     | 1.57 M  | 0.62 kg | 72.02 "               |
| (e) 12φ →                                                                 | 27                            | 10     | 1.42 M  | 0.89 kg | 25.27 "               |
| (f) 10φ →                                                                 | 2                             | 10     | 1.42 M  | 0.62 kg | 17.60 "               |
| (g) 8φ →                                                                  | 4                             | 31     | 1.15 M  | 0.62 kg | 88.41 "               |
|                                                                           |                               |        | C.O →   |         | 421.30 kg             |

Continuation

| Particulars                                                                                                                                                                         | Details of actual measurement |                    |            |         | Contents of area |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|------------|---------|------------------|
|                                                                                                                                                                                     | No.                           | L.                 | B.         | D.      |                  |
| (7/13) Contd:                                                                                                                                                                       |                               |                    |            | B.F. →  | 421.30 kg        |
| (h.) 10 φ →                                                                                                                                                                         |                               | 37 × 1.57 m        | 0.62 kg/m  |         | = 36.01 "        |
| (i.) 10 φ →                                                                                                                                                                         |                               | 40 × 1.57 m        | 0.62 kg/m  |         | = 38.93 "        |
| (j.) 10 φ →                                                                                                                                                                         |                               | 2 × 2 × 8 × 5.42 m | 0.62 kg/m  |         | = 107.53 "       |
| (k.) 10 φ →                                                                                                                                                                         |                               | 2 × 2 × 5 × 5.42 m | 0.62 kg/m  |         | = 67.20 "        |
| In cut-off wall                                                                                                                                                                     |                               |                    |            |         |                  |
| Var. bar 10 φ →                                                                                                                                                                     |                               | 2 × 35 × 3.14 m    | 0.62 kg/m  |         | = 136.27 kg      |
| Hor. bar 8 φ →                                                                                                                                                                      |                               | 2 × 6 × 8.10 m     | 0.395 kg/m |         | = 38.39 "        |
| In parapet                                                                                                                                                                          |                               |                    |            |         |                  |
| Hor. bar 10 φ →                                                                                                                                                                     |                               | 2 × 6 × 1.68 m     | 0.62 kg/m  |         | = 12.50 kg       |
| Stirrups 8 φ →                                                                                                                                                                      |                               | 2 × 1.50 m × 8     | 0.395 kg/m |         | = 9.48 "         |
| In R. Wall                                                                                                                                                                          |                               |                    |            |         |                  |
| Var. bar 10 φ →                                                                                                                                                                     |                               | 4 × 2 × 8 × 1.57 m | 0.62 kg/m  |         | = 62.29 "        |
| Hor. bar 8 φ →                                                                                                                                                                      |                               | 4 × 2 × 5 × 1.10 m | 0.395 kg/m |         | = 17.38 "        |
|                                                                                                                                                                                     |                               |                    |            | Total → | 947.28 kg        |
|                                                                                                                                                                                     |                               |                    |            |         | or 0.94728 M.T   |
| <div style="display: flex; justify-content: space-between;"> <div> <p>11/12/23</p> <p>28/12/23</p> <p>A.E</p> </div> <div> <p>11/12/23</p> <p>28/12/23</p> <p>A.E</p> </div> </div> |                               |                    |            |         |                  |

Continuation

# Further Measurement

17

Sch. XLV-Form No. 134

| Particulars                                                               | Details of actual measurement |       |       |       | Contents of area      |
|---------------------------------------------------------------------------|-------------------------------|-------|-------|-------|-----------------------|
|                                                                           | No.                           | L.    | B.    | D.    |                       |
| Date of measurement:                                                      | 28.12.2027                    |       |       |       |                       |
| Details of work done:                                                     | —                             |       |       |       | 28.12.23              |
| (1/39) Providing RCC grade MIS concrete in Box coll etc all complete job. |                               |       |       |       |                       |
| Raft                                                                      | 4.60m                         | 1.50m | 0.21m |       | 1.449 m <sup>3</sup>  |
| Abut.                                                                     | 2x 4.60m                      | 0.25m | 1.0m  |       | 2.30 "                |
| Deck slab                                                                 | 1x 4.60m                      | 1.50m | 0.21m |       | 1.449 "               |
| Detached cut-off wall                                                     | 2x 8.10m                      | 0.30m | 1.50m |       | 7.29 "                |
| Parapet                                                                   | 2x 1.50m                      | 0.25m | 0.45m |       | 0.337 "               |
| R.Wall                                                                    | 4x 1.10m                      | 0.25m | 1.50m |       | 1.65 "                |
|                                                                           |                               |       |       | Total | 14.475 m <sup>3</sup> |

|        |                                                           |       |       |           |                     |
|--------|-----------------------------------------------------------|-------|-------|-----------|---------------------|
| (2/40) | Back fill behind abutment & R-wall etc all complete job.  |       |       |           |                     |
|        | 2x 4.60m                                                  | 1.00m | 0.60m |           | 5.52 m <sup>3</sup> |
| (3/41) | Providing weep holes etc all complete job.                |       |       |           |                     |
|        | 2x 5                                                      |       |       |           | 10 Nos.             |
| (4/46) | RCC MIS grade 1cm stone/local stone etc all complete job. |       |       |           |                     |
|        |                                                           |       |       | 1cm stone | 2 Nos.              |
| (5/47) | RCC MIS grade 1cm stone/local stone etc all complete job. |       |       |           |                     |
|        | 200m stone                                                |       |       |           | 6 Nos.              |
| (6/48) | RCC MIS grade Boundary Pillar etc all complete job        |       |       |           |                     |
|        | At Both Sides of Approach                                 |       |       |           | 24 Nos.             |

Continuation

| Particulars                                                                                                             | Details of actual measurement |         |         |       | Contents of area      |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|---------|-------|-----------------------|
|                                                                                                                         | No.                           | L.      | B.      | D.    |                       |
| (7/19) Painting two coats including primer coat etc all comp. job.                                                      |                               |         |         |       |                       |
| Near Culvert                                                                                                            | 2x3x                          | 6.20m   | x 1.80m | =     | 66.96 M <sup>2</sup>  |
| (8/20) Providing & applying two coats of water based cement paint to unplastered concrete surface etc all complete job. |                               |         |         |       |                       |
| At rigid pavement                                                                                                       | 2x30m x 2                     | x 0.10m | =       |       | 12.00 M <sup>2</sup>  |
| below road Marking.                                                                                                     | 1x6.00m x 2                   | x 0.10m | =       |       | 1.20 "                |
| "                                                                                                                       | 7x30.00m x 2                  | x 0.10m | =       |       | 42.00 "               |
| "                                                                                                                       | 1x24.00m x 2                  | x 0.10m | =       |       | 4.80 "                |
| "                                                                                                                       | 2x30.00m x 2                  | x 0.10m | =       |       | 12.00 "               |
| "                                                                                                                       | 1x13.00m x 2                  | x 0.10m | =       |       | 2.60 "                |
| "                                                                                                                       | 5x30.00m x 2                  | x 0.10m | =       |       | 30.00 "               |
| "                                                                                                                       | 1x6.00m x 2                   | x 0.10m | =       |       | 1.20 "                |
|                                                                                                                         |                               |         |         | Total | 105.80 M <sup>2</sup> |
| (9/21) Providing & laying of hot applied thermoplastic compound 2.5mm thick etc all complete job.                       |                               |         |         |       |                       |
| B.T. Portion                                                                                                            | 8x30.00m x 2                  | x 0.10m | =       |       | 48.00 M <sup>2</sup>  |
| "                                                                                                                       | 1x15.00m x 2                  | x 0.10m | =       |       | 3.00 "                |
| "                                                                                                                       | 3x30.00m x 2                  | x 0.10m | =       |       | 18.00 "               |
| "                                                                                                                       | 1x17.00m x 2                  | x 0.10m | =       |       | 3.40 "                |
| "                                                                                                                       | 14x30.00m x 2                 | x 0.10m | =       |       | 84.00 "               |
| "                                                                                                                       | 1x24.00m x 2                  | x 0.10m | =       |       | 4.80 "                |
| C.C. Portion                                                                                                            | Same as in item No. (8/20)    |         |         |       | 105.80 "              |
|                                                                                                                         |                               |         |         | Total | 267.00 M <sup>2</sup> |

Continuation

| Particulars | Details of actual measurement                                                                                |    |    |    | Contents of area |
|-------------|--------------------------------------------------------------------------------------------------------------|----|----|----|------------------|
|             | No.                                                                                                          | L. | B. | D. |                  |
| (10/22)     | Provide new letters & figures etc all complete job.                                                          |    |    |    | 132 Nos.         |
| (11/23)     | Provide & fixing of typical messy Informatory Sign Board etc all complete job.                               |    |    |    | 2 Nos.           |
| (12/24)     | Provide & fixing of Typical Maintenance Board as per MORD specification & drawings.                          |    |    |    | 2 Nos.           |
| (13/25)     | Provide & fixing of Retro-reflectorised sign as per IRC: 67 etc all complete job. 600mm Equilateral Triangle |    |    |    | 12 Nos.          |
| (14/26)     | Provide & fixing of Retro-reflectorised sign as per IRC: 67 etc all complete job. 600 x 450 mm Rectangular   |    |    |    | 2 Nos.           |
| (15/28)     | Provide & fixing of Retro-reflectorised sign as per IRC: 67 etc all complete job. 900 mm Side Octagon        |    |    |    | 2 Nos.           |
|             |                                                                                                              |    |    |    |                  |
|             |                                                                                                              |    |    |    |                  |
|             |                                                                                                              |    |    |    |                  |
|             |                                                                                                              |    |    |    |                  |

Continuation

Sch. XLV-Form No. 134

| Particulars                  | Details of actual measurement |                                 |            |    | Contents of area     |
|------------------------------|-------------------------------|---------------------------------|------------|----|----------------------|
|                              | No.                           | L.                              | B.         | D. |                      |
| Calculation of efw in fill'f |                               |                                 |            |    |                      |
| in Embankt. by Graph method. |                               |                                 |            |    |                      |
| chainage (m)                 | cls area (m <sup>2</sup> )    | Mean cls area (m <sup>2</sup> ) | Length (m) |    | Qty of efw in fill'f |
| 00                           | 1.522                         | —                               | —          |    | —                    |
| 50                           | 1.119                         | 1.321                           | 50         |    | 66.075 "             |
| 100                          | 1.122                         | 1.124                           | 50         |    | 56.075 "             |
| 150                          | 0.97                          | 1.046                           | 50         |    | 52.30 "              |
| 200                          | 2.201                         | 1.586                           | 50         |    | 79.275 "             |
| 250                          | 3.222                         | 2.712                           | 50         |    | 135.575 "            |
| 300                          | 4.797                         | 4.01                            | 50         |    | 200.475 "            |
| 350                          | 4.726                         | 4.762                           | 50         |    | 238.075 "            |
| 400                          | 4.662                         | 4.694                           | 50         |    | 234.70 "             |
| 450                          | 3.755                         | 4.211                           | 50         |    | 210.575 "            |
| 500                          | 3.751                         | 3.755                           | 50         |    | 187.75 "             |
| 550                          | 3.801                         | 3.776                           | 50         |    | 188.80 "             |
| 600                          | 4.025                         | 3.913                           | 50         |    | 195.65 "             |
| 650                          | 5.413                         | 5.425<br>4.719                  | 50         |    | 235.95 "             |
| 700                          | 5.437                         | 5.128<br>5.425                  | 50         |    | 271.75 "             |
| 750                          | 4.819                         | 5.128                           | 50         |    | 256.40 "             |
| 800                          | 4.052                         | 4.436                           | 50         |    | 221.775 "            |
| 850                          | 1.074                         | 2.563                           | 50         |    | 128.15 "             |
| 900                          | 1.063                         | 1.069                           | 50         |    | 53.475 "             |
| 950                          | 1.038                         | 1.051                           | 50         |    | 52.575 "             |
| 1000                         | 0.955                         | 0.997                           | 50         |    | 49.825 "             |
| 1050                         | 0.968                         | 0.962                           | 50         |    | 48.075 "             |

C.O. 3162.5573

Continuation

| Particulars  | Details of actual measurement                                                                                           |                                 |            |       | Contents of area                       |
|--------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------|-------|----------------------------------------|
|              | No.                                                                                                                     | L.                              | B.         | D.    |                                        |
| Chasnage (m) | C/S area (m <sup>2</sup> )                                                                                              | mean C/S area (m <sup>2</sup> ) | length (m) |       | Qty of epw 23 fillip (m <sup>3</sup> ) |
|              |                                                                                                                         |                                 |            | B.P.  | 3162.55 m <sup>3</sup>                 |
| 1100         | 1.214                                                                                                                   | 1.091                           | 50         |       | 54.55 "                                |
| 1250         | 4.238                                                                                                                   | 2.726                           | 50         |       | 136.30 "                               |
| 1200         | 4.034                                                                                                                   | 4.136                           | 50         |       | 206.80 "                               |
| 1250         | 6.963                                                                                                                   | 5.499                           | 50         |       | 274.95 "                               |
| 1300         | 6.413                                                                                                                   | 6.688                           | 50         |       | 334.40 "                               |
| 1335         | 6.537                                                                                                                   | 6.475                           | 35         |       | 226.625                                |
|              |                                                                                                                         |                                 |            | Total | 4396.15 m <sup>3</sup>                 |
|              | Deductions                                                                                                              |                                 |            |       |                                        |
|              | G.S.B                                                                                                                   |                                 |            |       | → 545.165 m <sup>3</sup>               |
|              | W.B.M.C-3                                                                                                               |                                 |            |       | → 310.123 "                            |
|              | P.C.C                                                                                                                   |                                 |            |       | → 323.609 "                            |
|              | Subgrade                                                                                                                |                                 |            |       | → 1281.77 "                            |
|              |                                                                                                                         |                                 |            | Total | 2460.667 m <sup>3</sup>                |
|              | Hence Net Qty of fillip =                                                                                               |                                 |            |       |                                        |
|              | (4396.15 - 2460.667) m <sup>3</sup>                                                                                     |                                 |            |       |                                        |
|              | = 1935.483 m <sup>3</sup>                                                                                               |                                 |            |       |                                        |
| (16/4)       | Construction of Embankment with approved material obtained from borrow pits with a lead of 1000 m etc all complete job. |                                 |            |       |                                        |
|              | Qty → 30% of 1935.483 m <sup>3</sup>                                                                                    |                                 |            |       |                                        |
|              | = 580.64 m <sup>3</sup>                                                                                                 |                                 |            |       |                                        |

Continuation

Continuation

# 2nd on A/C Bill

## ABSTRACT OF COST

23

Sch. XLV-Form No. 134

| Particulars            | Details of actual measurement                                                             |    |    |    | Contents of area |
|------------------------|-------------------------------------------------------------------------------------------|----|----|----|------------------|
|                        | No.                                                                                       | L. | B. | D. |                  |
| Name of work:-         | Construction of Road                                                                      |    |    |    |                  |
|                        | from Mahite to Loh 48                                                                     |    |    |    |                  |
| Agency:-               | M/s Rudra Enterprises                                                                     |    |    |    |                  |
|                        | At - Belwanwa, P.S - Motihari                                                             |    |    |    |                  |
| Agreement No:-         | 47 SBD/2020-21                                                                            |    |    |    |                  |
| Date of start :-       | 21.9.2020                                                                                 |    |    |    |                  |
| Time of completion:-   | 20.9.2021                                                                                 |    |    |    |                  |
| Ag. value:-            | Rs 1,04,35,748 = ∞                                                                        |    |    |    |                  |
| Date of Measurement:-  | 1.3.2021                                                                                  |    |    |    |                  |
| Details of work done:- |                                                                                           |    |    |    |                  |
| (1)                    | construction of Reference & working Benchmark etc all complete job                        |    |    |    |                  |
| 1.335 km               | vide TMB P- 9                                                                             |    |    |    |                  |
|                        | @ Rs 10000.34/km = Rs 13350 = ∞                                                           |    |    |    |                  |
| (2)                    | Construction of Reference - Pillar & Burjees etc all complete job.                        |    |    |    |                  |
| 1.335 km               | vide TMB, P- 9                                                                            |    |    |    |                  |
|                        | @ Rs 9908.07/km = Rs 13227 = ∞                                                            |    |    |    |                  |
| (3)                    | clearing and grubbing road land including uprooting wild vegetation etc all complete job. |    |    |    |                  |
| 0.402 Hec              | vide TMB, P- 9                                                                            |    |    |    |                  |
|                        | @ Rs 51133.76/Hec = Rs 20,556 = ∞                                                         |    |    |    |                  |
| C.O → Rs 47133 = ∞     |                                                                                           |    |    |    |                  |

Continuation

| Particulars             | Details of actual measurement |    |    |                     | Contents of area                              |
|-------------------------|-------------------------------|----|----|---------------------|-----------------------------------------------|
|                         | No.                           | L. | B. | D.                  |                                               |
|                         |                               |    |    | $B \times P \div B$ | 47,133.20                                     |
| (4/4)                   |                               |    |    |                     |                                               |
|                         |                               |    |    |                     | Construction of Embankment -                  |
|                         |                               |    |    |                     | with approved                                 |
|                         |                               |    |    |                     | material obtained                             |
|                         |                               |    |    |                     | from 1000m lead etc                           |
|                         |                               |    |    |                     | all complete job                              |
|                         |                               |    |    |                     | vide TMB, P - 21                              |
| 580.64 m <sup>3</sup>   |                               |    |    |                     |                                               |
|                         |                               |    |    |                     | @ Rs 202.52 / m <sup>3</sup> = Rs 1,17,591.20 |
| (5/5)                   |                               |    |    |                     |                                               |
|                         |                               |    |    |                     | Construction of Subgrade                      |
|                         |                               |    |    |                     | & Earthen shoulders                           |
|                         |                               |    |    |                     | etc all complete job.                         |
| 359.10 m <sup>3</sup>   |                               |    |    |                     | vide TMB, P - 9                               |
| 922.67 m <sup>3</sup>   |                               |    |    |                     | " " P - 14                                    |
| 1281.77 m <sup>3</sup>  |                               |    |    |                     |                                               |
|                         |                               |    |    |                     | @ Rs 204.16 / m <sup>3</sup> = Rs 2,61,686.00 |
| (6/6)                   |                               |    |    |                     |                                               |
|                         |                               |    |    |                     | Construction of Embankment                    |
|                         |                               |    |    |                     | with approved material                        |
|                         |                               |    |    |                     | obtained from 100m lead                       |
|                         |                               |    |    |                     | etc all complete job.                         |
|                         |                               |    |    |                     | vide TMB, P - 22                              |
| 1354.838 m <sup>3</sup> |                               |    |    |                     |                                               |
|                         |                               |    |    |                     | @ Rs 167.41 / m <sup>3</sup> = Rs 2,26,813.00 |
| (7/7)                   |                               |    |    |                     |                                               |
|                         |                               |    |    |                     | Excavation for road                           |
|                         |                               |    |    |                     | way in soil with                              |
|                         |                               |    |    |                     | manual means etc                              |
|                         |                               |    |    |                     | all complete job                              |
| 125.84 m <sup>3</sup>   |                               |    |    |                     | vide TMB, P - 6                               |
|                         |                               |    |    |                     | @ Rs 74.16 / m <sup>3</sup> = Rs 9,310.20     |
|                         |                               |    |    |                     | C.O. @ Rs 6,62,533.00                         |

Continuation

| Particulars                             | Details of actual measurement                                                                                              |    |                          |     | Contents of area    |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----|--------------------------|-----|---------------------|
|                                         | No.                                                                                                                        | L. | B.                       | D.  |                     |
|                                         |                                                                                                                            |    |                          |     | 81.745, 62, 533 = 0 |
| (8/9)                                   | construction of Granular sub base by providing well graded material etc all complete job                                   |    |                          |     |                     |
| 545.165 m <sup>3</sup> wide TMB, P-9    |                                                                                                                            |    |                          |     |                     |
|                                         |                                                                                                                            |    | @ 3201.81/m <sup>3</sup> | = 0 | 17,45,515 = 0       |
| (9/10)                                  | providing, laying, spreading & compacting stone aggregates of specific sizes to WBM G-3 specification etc all complete job |    |                          |     |                     |
| 310.12375 m <sup>3</sup> wide TMB, P-10 |                                                                                                                            |    |                          |     |                     |
|                                         |                                                                                                                            |    | @ 3975.43/m <sup>3</sup> | = 0 | 12,32,875 = 0       |
| (10/11)                                 | providing & applying primer coat etc all complete job                                                                      |    |                          |     |                     |
| 3018.64 m <sup>2</sup> wide TMB, P-11   |                                                                                                                            |    |                          |     |                     |
|                                         |                                                                                                                            |    | @ 44.52/m <sup>2</sup>   | = 0 | 1,34,390 = 0        |
| (11/12)                                 | providing & applying tack coat etc all complete job                                                                        |    |                          |     |                     |
| 3018.64 m <sup>2</sup> wide TMB, P-13   |                                                                                                                            |    |                          |     |                     |
|                                         |                                                                                                                            |    | @ 15.14/m <sup>2</sup>   | = 0 | 45,702 = 0          |
|                                         |                                                                                                                            |    |                          |     | 1                   |
|                                         |                                                                                                                            |    |                          |     | C.O = 38,21,015 = 0 |

Continuation

Sch. XLV-Form No. 134

| Particulars            | Details of actual measurement |    |    |    | Contents of area                                                                                                     |
|------------------------|-------------------------------|----|----|----|----------------------------------------------------------------------------------------------------------------------|
|                        | No.                           | L. | B. | D. |                                                                                                                      |
|                        |                               |    |    |    | Rs. Rs. 38,21,015=00                                                                                                 |
| (12/13)                |                               |    |    |    | Providing, laying & rolling of close graded promix surface material etc all complete job.                            |
| 3018.64 m <sup>2</sup> | vide TMB, P-13                |    |    |    |                                                                                                                      |
|                        |                               |    |    |    | @ Rs. 228.24/m <sup>2</sup> = Rs. 6,88,974=00                                                                        |
| (13/14)                |                               |    |    |    | Construction of unreinforced plain cement concrete pavement m/s grade over a prepared sub base etc all complete job. |
| 323.609 m <sup>2</sup> | vide TMB, P-12                |    |    |    |                                                                                                                      |
|                        |                               |    |    |    | @ Rs. 7287.52/m <sup>2</sup> = Rs. 23,58,307=00                                                                      |
| (14/16)                |                               |    |    |    | RCC MIS grade km/loc stone of standard design etc all complete job.                                                  |
| (ii)                   | km stone                      |    |    |    |                                                                                                                      |
| 2 Nos.                 | vide TMB, P-17                |    |    |    |                                                                                                                      |
|                        |                               |    |    |    | @ Rs. 2478.64 Each = Rs. 4,957=00                                                                                    |
| (15/17)                |                               |    |    |    | RCC MIS grade km/loc stone of standard design etc all complete job.                                                  |
| (iii)                  | 200-M stone.                  |    |    |    |                                                                                                                      |
| 6 Nos                  | vide TMB, P-17                |    |    |    |                                                                                                                      |
|                        |                               |    |    |    | @ Rs. 637.15 Each = Rs. 3,823=00                                                                                     |
|                        |                               |    |    |    | C.O.F. Rs. 68,77,076=00                                                                                              |

Continuation

| Particulars           | Details of actual measurement |          |      |                               | Contents of area       |
|-----------------------|-------------------------------|----------|------|-------------------------------|------------------------|
|                       | No.                           | L.       | B.   | D.                            |                        |
|                       |                               |          |      | B.F. @ Rs 68                  | 77,076 = Rs            |
| (16/18)               |                               |          |      | RCC MIS grade Boundary        |                        |
|                       |                               |          |      | Pillars as per IRC: 15 etc    |                        |
|                       |                               |          |      | all complete job.             |                        |
| 24 Nos.               |                               | vide TMB | P-17 |                               |                        |
|                       |                               |          |      | @ Rs 512.00 Each              | = Rs 12,288 = Rs       |
| (17/19)               |                               |          |      | Painting two coats            |                        |
|                       |                               |          |      | including primer coat         |                        |
|                       |                               |          |      | etc all complete job.         |                        |
| 66.96 M <sup>2</sup>  |                               | vide TMB | P-18 |                               |                        |
|                       |                               |          |      | @ Rs 97.96 / M <sup>2</sup>   | = Rs 6,559 = Rs        |
| (18/20)               |                               |          |      | Providing two coats           |                        |
|                       |                               |          |      | of water based cement         |                        |
|                       |                               |          |      | Paint etc all complete        |                        |
|                       |                               |          |      | job.                          |                        |
| 105.80 M <sup>2</sup> |                               | vide TMB | P-18 |                               |                        |
|                       |                               |          |      | @ Rs 90.98 / M <sup>2</sup>   | = Rs 9,626 = Rs        |
| (19/21)               |                               |          |      | Providing & laying of         |                        |
|                       |                               |          |      | applied thermoplastic         |                        |
|                       |                               |          |      | compound 2.5 mm thick         |                        |
|                       |                               |          |      | etc all complete job.         |                        |
| 267.00 M <sup>2</sup> |                               | vide TMB | P-18 |                               |                        |
|                       |                               |          |      | @ Rs 735.44 / M <sup>2</sup>  | = Rs 1,96,362 = Rs     |
| (20/22)               |                               |          |      | Printing new letters &        |                        |
|                       |                               |          |      | figures etc all complete job. |                        |
| 132 Nos.              |                               | vide TMB | P-19 |                               |                        |
|                       |                               |          |      | @ Rs 0.52 / cm ht / letter    | = Rs 69 = Rs           |
|                       |                               |          |      |                               | C-03 Rs 71,01,980 = Rs |

Continuation

Sch. XLV-Form No. 134

| Particulars | Details of actual measurement                                                               |          |           |                     | Contents of area |
|-------------|---------------------------------------------------------------------------------------------|----------|-----------|---------------------|------------------|
|             | No.                                                                                         | L.       | B.        | D.                  |                  |
| 21          |                                                                                             |          |           | B. F. 71,01,980 = 0 |                  |
| (21/22)     | Providing & fixing of<br>Masonry Informantory<br>Sign Board etc all<br>complete job.        |          |           |                     |                  |
| 2 NOS.      | vide TMB                                                                                    | P-19     |           |                     |                  |
|             | @ Rs                                                                                        | 11501.59 | Each = Rs | 23003 = 0           |                  |
| (22/23)     | Providing & fixing of<br>Typical Maintenance<br>Board etc all complete<br>job.              |          |           |                     |                  |
| 2 NOS.      | vide TMB                                                                                    | P-19     |           |                     |                  |
|             | @ Rs                                                                                        | 11501.59 | Each = Rs | 23003 = 0           |                  |
| (23/24)     | Providing & fixing of<br>Retro-reflectorised sign<br>as per RC: 67 etc all<br>complete job. |          |           |                     |                  |
|             | 600mm Equilateral Triangle                                                                  |          |           |                     |                  |
| 12 NOS.     | vide TMB                                                                                    | P-19     |           |                     |                  |
|             | @ Rs                                                                                        | 3542.88  | Each = Rs | 42514 = 0           |                  |
| (24/25)     | Providing & fixing of<br>Retro-reflectorised sign<br>as per RC: 67 etc all<br>complete job. |          |           |                     |                  |
|             | 600 x 450 mm Rectangular                                                                    |          |           |                     |                  |
| 2 NOS.      | vide TMB                                                                                    | P-19     |           |                     |                  |
|             | @ Rs                                                                                        | 4188.38  | Each = Rs | 8377 = 0            |                  |
|             |                                                                                             |          | C.O. Rs   | 71,98,877 = 0       |                  |

Continuation

Continuation

|                                             |                 |            |               |
|---------------------------------------------|-----------------|------------|---------------|
| 0.94728 M.T                                 | nide TMB        | P-16       |               |
| @B                                          | 46004           | -78/M.T=Rs | 43,579 = ∞    |
|                                             |                 | Total Rs   | 73,96,559 = ∞ |
| Add GST @ 12%                               |                 | → Rs       | 8,87,587 = ∞  |
| Add L.Cess @ 1%                             |                 | → Rs       | 73,966 = ∞    |
| Add S. Fee<br>(vide TMB-P-31)               |                 | → Rs       | 84,084 = ∞    |
|                                             |                 | Total Rs   | 84,42,226 = ∞ |
| Less → 0.03% w/o agreement (-)              |                 | Rs         | 2533 = ∞      |
|                                             |                 | Total Rs   | 84,39,693 = ∞ |
| Less Previous payment (-)<br>(vide TMB-P-8) |                 | B          | 39,84,236 = ∞ |
|                                             |                 | Total Rs   | 44,55,457 = ∞ |
| <del>1</del>                                | <del>2024</del> |            |               |
|                                             |                 |            | A-C           |

Scanned by CamScanner

# Details of S.Fee (upto date)

31

Sch. XLV-Form No. 134

| Particulars             | Details of actual measurement |                         |    |    | Contents of area                   |
|-------------------------|-------------------------------|-------------------------|----|----|------------------------------------|
|                         | No.                           | L.                      | B. | D. |                                    |
| 1. Setting out - 1      | 335 km                        | @ 294.84/km             |    |    | 393.61                             |
| 2. Ref. Pillar          | 1.335 km                      | @ 479.39/km             |    |    | 639.98                             |
| 3. Earth                | → 3742.43 m <sup>3</sup>      | @ 47.43/m <sup>3</sup>  |    |    | 1,77,503.45                        |
| 4. C.S.P.               | → 915.16 m <sup>3</sup>       | @ 438.06/m <sup>3</sup> |    |    | 2,38,814.97                        |
| 5. W.B.M.               | 3 → 310.123 m <sup>3</sup>    | @ 637.37/m <sup>3</sup> |    |    | 1,97,663.09                        |
| 6. M.S.S.               | → 3018.64 m <sup>2</sup>      | @ 12.69/m <sup>2</sup>  |    |    | 38,306.54                          |
| 7. C.C. Pavement mms    | → 323.60 m <sup>3</sup>       | @ 543.18/m <sup>3</sup> |    |    | 1,75,777.93                        |
| 8. 600mm Δ Traingle     | → 12 Nos.                     | @ 52.44 Each            |    |    | 629.28                             |
| 9. 600 x 450mm Rec.     | → 2 Nos.                      | @ 58.47 Each            |    |    | 116.94                             |
| 10. 900 mm Side Octagon | → 2 Nos.                      | @ 58.47 Each            |    |    | 116.94                             |
| 11. KM Stone            | → 2 Nos.                      | @ 124.94 Each           |    |    | 249.88                             |
| 12. 200mm Stone         | → 6 Nos.                      | @ 21.80 Each            |    |    | 130.80                             |
| 13. B. Pillars          | → 24 Nos.                     | @ 10.23 Each            |    |    | 245.52                             |
| 14. Sign Board          | → 4 Nos.                      | @ 109.88 Each           |    |    | 439.52                             |
| 15. Local Sand          | → 1.54 m <sup>3</sup>         | @ 116.85/m <sup>3</sup> |    |    | 179.94                             |
| 16. PCC M.S.            | → 0.80 m <sup>3</sup>         | @ 465.42/m <sup>3</sup> |    |    | 372.33                             |
| 17. RCC M.S.            | → 14.475 m <sup>3</sup>       | @ 586.41/m <sup>3</sup> |    |    | 8,428.28                           |
| 18. Back filling        | → 5.52 m <sup>3</sup>         | @ 150.80/m <sup>3</sup> |    |    | 832.41                             |
|                         |                               |                         |    |    | Total → 8,40,841 = 41              |
|                         |                               |                         |    |    | Hence S.Fee = 10% of 8,40,841 = 41 |
|                         |                               |                         |    |    | = 8,40,84 = 14                     |
|                         |                               |                         |    |    | 824 to 84,084 = 10                 |
|                         |                               |                         |    |    | <del>10</del> 03/24                |
|                         |                               |                         |    |    | A.E.                               |

Continuation

Continuation