

MM&SY(GEN)

Name of work:- Construction of Road from REO Road Muzulia to

## Schedule XLV-Form No. 134

Gofa Tola

Length of Road - 1.00 km - (BT - 0.500 km, CC - 0.500 km)

ग्रामीण कार्य विभाग कार्य प्रमंडल, पुपरी DIVISION

ग्रामीण कार्य विभाग कार्य अवर प्रमंडल SUB-DIVISION  
सुरसंड

**MEASUREMENT BOOK**

No-2296

संवेदक - संजिव कुमार, भोजना विधि - M.M.G.S. उ.

Sch. XLV—Form No. 134

ग्रामीण कार्य विभाग कार्य प्रमंडल पुष्परी DIVISION  
कार्य अवर प्रमंडल सुरसेड SUB-DIVISION

## Measurement Book

No. 2296

Name of Officer श्री प्रेमचन्द का

सहायक भूमिगत कार्य अवर प्रमंडल सुरसेड

Date of first entry \_\_\_\_\_

Date of last entry \_\_\_\_\_

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प्रमाणित किया जाता है कि इस भाषा-पुस्तक में  
मुद्रित कुल २५ (100) और पन्ने अंकित हैं  
जो श्री प्रेमचन्द का सहायक अभियन्ता  
के नाम कार्य भवन प्रमोडल सुरलंड के  
द्वारे निरीत किया जाता है।

कार्यपालक अभियन्ता

ग्रामीण कार्य विभाग

कार्यपालक अभियन्ता

6-5-20

- MMGSY - Road -

Name to work—

Situation of work—

Agency by which work is executed—

Date of measurement—

No. and date of agreement.

(These four lines should be repeated at the commencement of the measurements relating to each work.)

| Particulars                                                                                             | Details of actual measurement |      |    |    | Contents of area |
|---------------------------------------------------------------------------------------------------------|-------------------------------|------|----|----|------------------|
|                                                                                                         | No.                           | L.   | B. | D. |                  |
| N/Worki- Construction of MMGSY Road from RGO Road Muzauliya to Gafa tola Muzauliya in Sursand block.    |                               |      |    |    |                  |
| Name of Agency:- Sanjeev Kumar, Nandanpur Sitamarhi (Bihar)                                             |                               |      |    |    |                  |
| Agreement No/Date:- 23/ SBD/2020-21. Date 26 <sup>06</sup> / <sub>20</sub>                              |                               |      |    |    |                  |
| Date of start :- 26. 06. 2020                                                                           |                               |      |    |    |                  |
| Date of completion 25. 03. 2021                                                                         |                               |      |    |    |                  |
| Date of measurement:- 05/07/2020.                                                                       |                               |      |    |    |                  |
| 1) 1.16) Providing and fixing                                                                           |                               |      |    |    |                  |
| (A) Working bench mark pillars                                                                          |                               |      |    |    |                  |
| 1.00km                                                                                                  |                               |      |    |    | 1.00km           |
| (B) Reference pillars.                                                                                  |                               |      |    |    |                  |
| 1.00km-                                                                                                 |                               |      |    |    | 1.00km.          |
| 2) 2.2) Clearing and grubbing Road land including uprooting wild vegetation, grass, bushes, shrubs etc. |                               |      |    |    |                  |
| 2                                                                                                       | 1000                          | 3.50 |    |    | 7000.00sqm       |
| 7000/10000 = 0.70                                                                                       |                               |      |    |    | 0.70Ha           |
| 3) 2.14. Box cutting - Widening road - Excavation for roadway in soil manual means for carrying.        |                               |      |    |    |                  |

Continuation

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| Particulars                                                                                                     | Details of actual measurement |       |       |       | Contents of area      |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------|-------|-------|-------|-----------------------|
|                                                                                                                 | No.                           | L     | B     | D     |                       |
| of cut con. to embankment.                                                                                      |                               |       |       |       |                       |
| ② Flexible road-                                                                                                | 10X2                          | 30.00 | 0.525 | 0.100 | 31.50                 |
|                                                                                                                 | 3X2                           | 30.00 | 0.525 | 0.100 | 9.45                  |
|                                                                                                                 | 2X1                           | 10.00 | 0.525 | 0.100 | 1.05                  |
| ③ Rigid road-                                                                                                   | 13X2                          | 30.00 | 0.375 | 0.100 | 29.25                 |
|                                                                                                                 | 3X2                           | 30.00 | 0.375 | 0.100 | 6.75                  |
|                                                                                                                 | 2X2                           | 10.00 | 0.375 | 0.100 | 1.50                  |
| TOTAL                                                                                                           |                               |       |       |       | 79.50 m <sup>3</sup>  |
| ④ 3.4. Construction of Subgrade and earthen shoulder with approved material obtained from borrow pits.          |                               |       |       |       |                       |
| with all lift and loads.                                                                                        |                               |       |       |       |                       |
| ① Flexible road-                                                                                                | 3                             | 30.00 | 7.725 | 0.30  | 196.43                |
|                                                                                                                 | 1                             | 10.00 | 7.725 | 0.30  | 21.83                 |
| Sides of GSB                                                                                                    | 2X10                          | 30.00 | 1.388 | 0.20  | 166.56                |
| Sides of NBM (1.17)                                                                                             | 2X10                          | 30.00 | 1.181 | 0.075 | 53.15                 |
| TOTAL                                                                                                           |                               |       |       |       | 437.97 m <sup>3</sup> |
| ② Rigid Road-16X2                                                                                               | 30.00                         | 0.625 | 0.10  | 60.00 |                       |
| Sides of GSB                                                                                                    | 2X1                           | 20.00 | 0.625 | 0.10  | 2.50                  |
| Sides of NBM (1.17)                                                                                             | 16X2                          | 30.00 | 0.625 | 0.075 | 45.00                 |
|                                                                                                                 | 2X1                           | 20.00 | 0.625 | 0.10  | 1.88                  |
| TOTAL                                                                                                           |                               |       |       |       | 109.38 m <sup>3</sup> |
| 5) 4.1) Construction of G.S.B. by providing well graded material spreading in uniform layers with motor grader. |                               |       |       |       |                       |

Continuation

| Particulars                         | Details of actual measurement |                                                 |       |      | Contents of area      |
|-------------------------------------|-------------------------------|-------------------------------------------------|-------|------|-----------------------|
|                                     | No.                           | L.                                              | B.    | D.   |                       |
| (A) Flexible road portion:-         |                               |                                                 |       |      |                       |
| (a) for Earthen road portion (GSB)- |                               |                                                 |       |      |                       |
|                                     |                               | $1 \times 10.00 \times \frac{(4.30 + 4.05)}{2}$ | 0.20  |      | 8.35                  |
|                                     |                               | $3 \times 30.00 \times 4.05$                    | 0.20  |      | 72.90                 |
| (b) In box cutting -                | 2x3                           | 30.00                                           | 0.525 | 0.10 | 9.45                  |
|                                     | 2x3                           | 30.00                                           | 0.525 | 0.10 | 9.45                  |
|                                     | 2x1                           | 20.00                                           | 0.525 | 0.10 | 2.10                  |
| GSB on BES on                       | 2x3                           | 30.00                                           | 4.05  | 0.10 | 36.45                 |
|                                     |                               | $3 \times 30.00 \times \frac{(4.00 + 4.05)}{2}$ | 0.10  |      | 37.13                 |
|                                     |                               | $1 \times 20.00 \times \frac{(4.05 + 4.50)}{2}$ | 0.10  |      | 8.55                  |
| Profile correction on BES.          | 2                             | 5.25                                            | 1.20  | 0.10 | 1.26                  |
|                                     | 2                             | 6.35                                            | 0.90  | 0.10 | 1.14                  |
|                                     | 2                             | 8.60                                            | 1.35  | 0.10 | 2.32                  |
|                                     | 2                             | 8.50                                            | 1.10  | 0.10 | 1.87                  |
| Total qty                           |                               |                                                 |       |      | 190.97 m <sup>3</sup> |
| (B) For Rigid road portion -        |                               |                                                 |       |      |                       |
|                                     | 2x4                           | 30.00                                           | 0.375 | 0.10 | 9.00                  |
|                                     | 2x3                           | 30.00                                           | 0.375 | 0.10 | 6.75                  |
|                                     | 2x4                           | 30.00                                           | 0.375 | 0.10 | 9.00                  |
|                                     | 2x3                           | 30.00                                           | 0.375 | 0.10 | 6.75                  |
|                                     | 1x2                           | 20.00                                           | 0.375 | 0.10 | 2.25                  |
|                                     | 1x2                           | 20.00                                           | 0.375 | 0.10 | 2.25                  |
|                                     | 1x2                           | 20.00                                           | 0.375 | 0.10 | 1.50                  |
| Profile correction on BES.          | 2x2                           | 5.25                                            | 1.20  | 0.10 | 2.52                  |
|                                     | 2x2                           | 4.25                                            | 0.90  | 0.10 | 1.53                  |
|                                     | 2x3                           | 3.35                                            | 0.80  | 0.10 | 1.61                  |
|                                     | 2x3                           | 3.60                                            | 0.90  | 0.10 | 1.94                  |
|                                     | 2x3                           | 4.20                                            | 1.20  | 0.10 | 3.02                  |

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| Particulars       | Details of actual measurement    |            |           |          | Contents of area     |
|-------------------|----------------------------------|------------|-----------|----------|----------------------|
|                   | No.                              | L.         | B.        | $\delta$ |                      |
|                   | 2                                | 5.35       | 1.10      | 0.10     | 1.18                 |
|                   | 2x2                              | 6.55       | 1.30      | 0.10     | 3.40                 |
|                   | 2                                | 2.60       | 1.05      | 0.10     | 0.55.                |
| Total qty:-       | <del>53.25 m<sup>3</sup></del>   |            |           |          | 53.25 m <sup>3</sup> |
|                   | Date of Measurement:- 17.07.2020 |            |           |          |                      |
| 6) 4.7.           | providing                        | Laying     | spreading |          |                      |
|                   | and                              | compacting | stone     |          |                      |
|                   | aggregate                        | specific   | size      |          |                      |
|                   | to water bound maca-             |            |           |          |                      |
|                   | lam 63-11.                       |            |           |          |                      |
| ⑦ Flexible road:- |                                  |            |           |          |                      |
|                   | 3                                | 30.00      | 3.75      | 0.075    | 25.31                |

|           |    |       |                       |                |                      |
|-----------|----|-------|-----------------------|----------------|----------------------|
|           | 1  | 10.00 | $\frac{4.30+3.75}{2}$ |                |                      |
|           |    |       | 2                     | $\times 0.075$ | 3.02                 |
|           | 3  | 30.00 | 3.75                  | 0.075          | 25.31                |
|           | 3. | 30.00 | 3.75                  | 0.075          | 25.31                |
|           | 1  | 20.00 | $\frac{4.30+3.75}{2}$ | 0.075          | 6.19.                |
| Total qty |    |       |                       |                | 85.14 m <sup>3</sup> |

|                |   |       |                       |       |                       |
|----------------|---|-------|-----------------------|-------|-----------------------|
| ⑧ Rigid road:- |   |       |                       |       |                       |
|                | 4 | 30.00 | 3.75                  | 0.075 | 33.75                 |
|                | 4 | 30.00 | $\frac{3.90+3.75}{2}$ | 0.075 | 34.43                 |
|                | 4 | 30.00 | $\frac{4.10+3.75}{2}$ | 0.075 | 35.33                 |
|                | 4 | 30.00 | 3.75                  | 0.075 | 33.75.                |
|                | 1 | 20.00 | $\frac{4.49+3.75}{2}$ | 0.075 | 6.18.                 |
| Total qty      |   |       |                       |       | 143.44 m <sup>3</sup> |

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| Particulars                                      | Details of actual measurement |    |    |    | Contents of area |
|--------------------------------------------------|-------------------------------|----|----|----|------------------|
|                                                  | No.                           | L. | B. | D. |                  |
| 7) 10.6. Providing and fixing of typical MMSY    |                               |    |    |    |                  |
| information sign board.                          |                               |    |    |    |                  |
| (i) Identification Signboard-                    |                               |    |    |    | 02 Nos           |
| (ii) Citizens information board-                 |                               |    |    |    | 02 Nos           |
| total                                            |                               |    |    |    | 04 Nos           |
| <del>Extended</del><br>17/07/2020<br>JE (Sunder) |                               |    |    |    |                  |
|                                                  |                               |    |    |    |                  |
|                                                  |                               |    |    |    |                  |
|                                                  |                               |    |    |    |                  |
|                                                  |                               |    |    |    |                  |
|                                                  |                               |    |    |    |                  |
|                                                  |                               |    |    |    |                  |
|                                                  |                               |    |    |    |                  |

- Abstract of cost :-

|                                        |  |  |  |           |
|----------------------------------------|--|--|--|-----------|
| 1) 1.16. Providing and fixing of       |  |  |  |           |
| (a) Working bench mark pillar.         |  |  |  |           |
| city vide TMB/P-01                     |  |  |  |           |
| city 1.00km @ 4259.33/km $\Rightarrow$ |  |  |  | 4259.00/- |
| (b) Reference pillar.                  |  |  |  |           |
| city vide TMB/P-01                     |  |  |  |           |
| city 1.00km @ 1973.15/km $\Rightarrow$ |  |  |  | 1973.00/- |
| 2) 2.2) clearing and grubbing          |  |  |  |           |
| Road land by manual                    |  |  |  |           |
| means) including uprooting             |  |  |  |           |
| wild vegetation.                       |  |  |  |           |
| city vide TMB/P-01.                    |  |  |  |           |
| city 0.70ha @ 49496.70/ha              |  |  |  | 34648.00  |
| Total Amount (Rs)                      |  |  |  | 40880.00  |

Continuation

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| Particulars                                                                                                                 | Details of actual measurement |    |    |    | Contents of area |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------|----|----|----|------------------|
|                                                                                                                             | No.                           | L. | B. | D. |                  |
| 3) 2.14. Box cutting - Excavation<br>for roadway in soil<br>using manual means.<br>carrying out earth to<br>embankment site |                               |    |    |    |                  |
| Qty vide TMB/P-02                                                                                                           |                               |    |    |    |                  |
| Qty 79.50 m <sup>3</sup> @ 74.10/m <sup>3</sup> ⇒ 5890.00/-                                                                 |                               |    |    |    |                  |
| 4) 3.14. Construction of subgrade<br>and earthen shoulders.<br>with material obtained<br>from borrow pits. (A)              |                               |    |    |    |                  |
| Qty Flexible road -                                                                                                         |                               |    |    |    |                  |
| Qty vide TMB/P-02                                                                                                           |                               |    |    |    |                  |
| Qty 437.97 m <sup>3</sup> @ 176.75/m <sup>3</sup> ⇒ 77,411.00/-                                                             |                               |    |    |    |                  |
| (B) Rigid road -                                                                                                            |                               |    |    |    |                  |
| Qty vide TMB/P-02.                                                                                                          |                               |    |    |    |                  |
| Qty 109.38 m <sup>3</sup> @ 176.75/m <sup>3</sup> ⇒ 19,333.00/-                                                             |                               |    |    |    |                  |
| 5) 4.1) Construction of GSB by<br>providing well graded.<br>material spreading in<br>uniform layers. (A) Flexible road -    |                               |    |    |    |                  |
| Qty vide TMB/P-03.                                                                                                          |                               |    |    |    |                  |
| Qty 190.97 m <sup>3</sup> @ 2779.81/m <sup>3</sup> ⇒ 5,30,860.00                                                            |                               |    |    |    |                  |
| (B) Rigid road -                                                                                                            |                               |    |    |    |                  |
| Qty vide TMB/P-04.                                                                                                          |                               |    |    |    |                  |
| Qty 53.25 m <sup>3</sup> @ 2779.81/m <sup>3</sup> ⇒ 1,48,025.00                                                             |                               |    |    |    |                  |
| Total Amount (Rs)                                                                                                           |                               |    |    |    | 8,22,399.00/-    |

Continuation

