

MITHILESH KR SINGH  
Agency: Sd/ MITHILESH KR. SINGH

Agreement no: 9 (SAB) / 2021-22

Construction of road from  
Basahat Kundera Border Pincer to  
Pandaat Tola,  
Schedule XIV-Form No. 134

R.UG(w) Jamui

MMGSR (SC)

DIVISION

Barhhat

SUB-DIVISION

MEASUREMENT BOOK

-2919

2919

2019 and 2020 B.E.I.

6

Sch. XLV-Form No. 134

| Particulars                                                                                                             | Details of actual measurement |    |    |    | Contents of area |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------|----|----|----|------------------|
|                                                                                                                         | No.                           | L. | B. | D. |                  |
| Name of work - Construction of Road from Baradai Kunder Bancher PMBS Road to Pandit Tola under MMBS (S) for 2021- 2022. |                               |    |    |    |                  |
| Agency - Sri Mithilesh Kumar Singh                                                                                      |                               |    |    |    |                  |
| Vill- Nejuara, P.O + P.S- Khadaa                                                                                        |                               |    |    |    |                  |
| Dist - Jammui                                                                                                           |                               |    |    |    |                  |
| Agreement No- 09/SB-2/2021-2022.                                                                                        |                               |    |    |    |                  |
| Date of commencement - 25/08/2021                                                                                       |                               |    |    |    |                  |
| Date of completion - 24/05/2022.                                                                                        |                               |    |    |    |                  |
| Rate quoted - 15.66% Below as per Agreement                                                                             |                               |    |    |    |                  |
| <u>Details</u>                                                                                                          |                               |    |    |    |                  |
| ② Construction of G.S.B by providing well graded materials grading etc as per specification                             |                               |    |    |    |                  |
| $(5.28 - 3.75)$                                                                                                         |                               |    |    |    |                  |
| Curves - $1 \times 20.0 \times \frac{(5.28 - 3.75)}{2} \times 0.200 = 6.03 \text{ m}^3$                                 |                               |    |    |    |                  |
| Curves                                                                                                                  |                               |    |    |    |                  |
| $2 \times 10 \times 2.5 \times 0.0 + 1.80 \times 0.0$                                                                   |                               |    |    |    |                  |
| 3                                                                                                                       |                               |    |    |    |                  |
| $\times 0.200 = 2.00 \text{ m}^3$                                                                                       |                               |    |    |    |                  |
| Total - 18.03 m <sup>3</sup>                                                                                            |                               |    |    |    |                  |
| ③ P.V laying spreading and compaction of stone aggregates of work G.S.B (II) - do - etc as per specification.           |                               |    |    |    |                  |

Continuation



| Particulars                                             | Details of actual measurement |    |       |         | Contents of area      |
|---------------------------------------------------------|-------------------------------|----|-------|---------|-----------------------|
|                                                         | No.                           | L. | B.    | D.      |                       |
| $1 \times 22.0 \times 5.90 + 3.75 = 106.15 \text{ m}^2$ |                               |    | 2     |         |                       |
| $4 \times 30.0 \times 3.85 + 3.75 = 456.0 \text{ m}^2$  |                               |    | 2     |         |                       |
| $3 \times 30.0 \times 3.75 = 337.50 \text{ m}^2$        |                               |    |       |         |                       |
| $6 \times 30.0 \times 3.75 = 675.00 \text{ m}^2$        |                               |    |       |         |                       |
| $8 \times 30.0 \times 3.75 = 900.00 \text{ m}^2$        |                               |    |       |         |                       |
| $5 \times 30.0 \times 3.75 = 562.50 \text{ m}^2$        |                               |    |       |         |                       |
| $6 \times 30.0 \times 3.75 = 675.00 \text{ m}^2$        |                               |    |       |         |                       |
| $1 \times 18.0 \times 3.75 = 67.50 \text{ m}^2$         |                               |    |       |         |                       |
| Curry- $3 \times 25.0 \times 0.0 + 1.20 + 0.0$          |                               |    | 2     |         | $= 30.0 \text{ m}^2$  |
|                                                         |                               |    | Total |         | $3809.55 \text{ m}^2$ |
| But limited to-                                         |                               |    |       |         | $3787.50 \text{ m}^2$ |
| (vi) p/r and laylog of R.C.C                            |                               |    |       |         |                       |
| perpetual 300 mm dia across                             |                               |    |       |         |                       |
| the road. do etc. all                                   |                               |    |       |         |                       |
| complete job                                            |                               |    |       |         |                       |
| Qty                                                     |                               |    |       | 30.0 M  |                       |
| (vii) p/r R.C.C. Mis-growth Kilmory                     |                               |    |       |         |                       |
| local stone of standard                                 |                               |    |       |         |                       |
| design do etc. all complete                             |                               |    |       |         |                       |
| (viii) K.M. stones                                      |                               |    |       | 2.0 Nos |                       |
| (ix) 200 M stone                                        |                               |    |       | 4.0 Nos |                       |

| Particulars            | Details of actual measurement |    |    |    | Contents of area       |
|------------------------|-------------------------------|----|----|----|------------------------|
|                        | No.                           | L. | B. | D. |                        |
| Total Qty with Const = |                               |    |    |    | 4500.0 m <sup>3</sup>  |
| Less for Const -       |                               |    |    |    |                        |
| (i) G.S.B. —           |                               |    |    |    | 4818.03 m <sup>3</sup> |
| (ii) Gravel —          |                               |    |    |    | 284.08 m <sup>3</sup>  |
| (iii) P.M. (ms) —      |                               |    |    |    | 189.37 m <sup>3</sup>  |
| Net Qty =              |                               |    |    |    | 3208.54 m <sup>3</sup> |

(13) Construction of Subgrade and of shoulder with approved materials obtained from borrow pits - do etc etc complete.

$$\begin{aligned} \text{Qty} &= 3208.54 \times 97.5\% \\ &= 3130.25 \text{ m}^3 \\ &= 3130.28 \text{ m}^3 \end{aligned}$$

(14) Construction of Embankment with material obtained from borrow pits - do with length 100 m etc all complete job.

$$\begin{aligned} \text{Qty} &= 3208.54 \times 2.4\% \\ &= 78.25 \text{ m}^3 \end{aligned}$$

04/05/22  
J.E.

05/05/22  
A.E.

# ABSTRACT COST OF FINAL BILL

13

Sch. XLV-Form No. 134

| Particulars                                                                                                                                                                                                                  | Details of actual measurement |    |    |    | Contents of area |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----|----|----|------------------|
|                                                                                                                                                                                                                              | No.                           | L. | B. | D. |                  |
| ① P.V. and Fixing of working benchmark pillars - 200 per km and 600 of reference pillar and etc. all completions<br>Qty - V.T.M.B. Page ③ Item No ①<br>= 1.0 km @ Rs 32071/-km = Rs 32,071                                   |                               |    |    |    |                  |
| ②/2 Clearing and grubbing road land including uprooting wild vegetation, grass etc. as per specification<br>Qty - V.T.M.B. Page ③ Item No ②<br>No - ② = 0.35 Hect.<br>@ Rs 51137/- per Hect = Rs 17,898.00                   |                               |    |    |    |                  |
| ③/4 Construction of embankment with obtained material from borrow pit - 1000 m long do etc. all complete job<br>Qty - V.T.M.B. Page ⑫ Item No ③/4<br>= 3130.25 m <sup>3</sup><br>@ Rs 48.250/m <sup>3</sup> = Rs 1,51,000.00 |                               |    |    |    |                  |
| ④/5 Construction of Subgrade and Carthen Shoulder with approved materials<br>Rs 61,620.00                                                                                                                                    |                               |    |    |    |                  |

Continuation



| Particulars                                                                                                          | Details of actual measurement |    |    |                       | Contents of area |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------|----|----|-----------------------|------------------|
|                                                                                                                      | No.                           | L. | B. | D.                    |                  |
|                                                                                                                      |                               |    |    | 13.2-70               | 28,58,605=00     |
| (7/8) P/v and applying bitumen coat with bitumen emulsion (RS-1) do etc - all complete job                           |                               |    |    |                       |                  |
| Qty - V.T.M. B. Page No (7) + (8)                                                                                    |                               |    |    |                       |                  |
| Item No (7/8) =                                                                                                      |                               |    |    | 3287.50m <sup>2</sup> |                  |
| @ Rs 4,3212/m <sup>2</sup> =                                                                                         |                               |    |    | Rs 1,63,317=00        |                  |
| (8/9) P/v and applying tack coat with bitumen emulsion (RS-1) do etc all complete job                                |                               |    |    |                       |                  |
| Qty - V.T.M. B. Page No - (8)                                                                                        |                               |    |    |                       |                  |
| Item No (8/9) =                                                                                                      |                               |    |    | 3287.50m <sup>2</sup> |                  |
| @ Rs 14 = 90/m <sup>2</sup> =                                                                                        |                               |    |    | Rs 56,434=00          |                  |
| (9/10) P/v Laying and rolling of coarse graded concrete bedding materials of 20 mm thickness do etc all complete job |                               |    |    |                       |                  |
| Qty - V.T.M. B. Page No (9)                                                                                          |                               |    |    |                       |                  |
| Item No (9/10) =                                                                                                     |                               |    |    | 3287.50m <sup>2</sup> |                  |
| @ Rs 217 = 03/m <sup>2</sup> =                                                                                       |                               |    |    | Rs 8,22,001=00        |                  |
| (10/11) P/v and laying of R.C.C. pipe dia 300 mm dia across the road - do etc                                        |                               |    |    |                       |                  |
|                                                                                                                      |                               |    |    |                       | Rs 39,00,357=00  |

| Particulars                             | Details of actual measurement |    |      |    | Contents of area |
|-----------------------------------------|-------------------------------|----|------|----|------------------|
|                                         | No.                           | L. | B.   | D. |                  |
|                                         |                               |    | 13.7 | 13 | 39,68,331=00     |
| (ii) 600mm circular -                   |                               |    |      |    |                  |
| Qty - n.t.m. B. Page (10) Item          |                               |    |      |    |                  |
| no $(8/15) - (17/17) = 3.0$ nos         |                               |    |      |    |                  |
| @ Rs 4579 = 037/cum Rs 13,737=00        |                               |    |      |    |                  |
| (iii) 800mm x 600mm Rectangular         |                               |    |      |    |                  |
| Qty - n.t.m. B. Page (10) Item          |                               |    |      |    |                  |
| no $(11/18) = 4.0$ nos                  |                               |    |      |    |                  |
| @ Rs 6409 = 919/cum Rs 25,640=00        |                               |    |      |    |                  |
| (iv) 600mm x 450mm Rectangular          |                               |    |      |    |                  |
| Qty - n.t.m. B. Page No. (10)           |                               |    |      |    |                  |
| Item no $(12/19) = 3.0$ nos             |                               |    |      |    |                  |
| @ Rs 4458 = 217/cum Rs 13,375=00        |                               |    |      |    |                  |
| (13/20) p/r and laying of Ref -         |                               |    |      |    |                  |
| applied thermoplastic compound          |                               |    |      |    |                  |
| with glass beads - do all               |                               |    |      |    |                  |
| all complete jobs                       |                               |    |      |    |                  |
| Qty - n.t.m. B. Page No. (10)           |                               |    |      |    |                  |
| Item no $(9/20) = 200.0$ m <sup>2</sup> |                               |    |      |    |                  |
| @ Rs 721 = 91/cum Rs 1,44,382=00        |                               |    |      |    |                  |
| (14/21) Planting of trees by the        |                               |    |      |    |                  |
| road side - do etc.                     |                               |    |      |    |                  |
|                                         |                               |    |      |    | Rs 41,65,465=00  |

Worked example statement for exp/2011

(i) C/S of  $\sim 3209.50 \text{ m}^3$   
( $50.25 \cdot 0.007 = 186.50 \text{ m}^3$ )

(ii) G.S.B  $\text{SS} = 818.23 \text{ m}^3$

(a) 50% stone aggregate =  $10.82 \text{ m}^3$   
( $53 \text{ mm}$  to  $6.5 \text{ mm}$ ) @  $620.19/\text{m}^3$

(b) 20% stone aggregate =  $4.30 \text{ m}^3$   
( $6.5 \text{ mm}$  to  $2.36 \text{ mm}$ ) @  $514.58/\text{m}^3$

(c) 30% C/Sonef =  $6.49 \text{ m}^3$   
( $175.89/\text{m}^3$ )

(iii) W.B.M - SS (H) =  $284.06 \text{ m}^3$

(a) stone aggregate =  $343.72 \text{ m}^3$   
( $53 \text{ mm}$  to  $2.4 \text{ mm}$ ) @  $511.44/\text{m}^3$

(b) stone screening =  $68.17 \text{ m}^3$   
( $6.5$  to  $2.36$ ) @  $27.22/\text{m}^3$

(iv) P.M.C =  $75.75 \text{ m}^3$

(a) B/C mix (SS-1) =  $3219.37 \text{ kg}$

(b) B/C mix (SS-1) =  $1041.56 \text{ kg}$

(c) Bitumen (S-90) =  $7196.26 \text{ kg}$

(d) stone chips =  $102.28 \text{ m}^3$   
( $13.20 \text{ mm}$  to  $0.09 \text{ m}$ ) @  $523237/\text{m}^3$  - A

Continuation

Continuation

06/5/22  
S.E