

Behadurganj.

# Measurement Book

R. 28 / 2021-22

FDR- 2021-22

Name of Road- L075-L045 to

Bochaghami (VR75)

Block- Behadurganj

Division:- Kishanganj

Certified that this MB Counted  
(25) Twenty Five Machined  
Number Pages and issued to

Sri. Ramesh Kumar

.....AE RWD Sub-Division  
Bahadurganj

Executive Engineer

RWD Works Division  
8/9/21

Sch. XLV-Form No. 194

Kishanganj-1 DIVISION

Bahadurganj SUB-DIVISION

R. 28/2021-22

Measurement Book

This MB is Reissued to JE Bahadur-  
ganj

8/9/21 AE

Name of 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. |                  |
| Memo of work |                               |    |    |    |                  |
|              |                               |    |    |    |                  |
| Block        |                               |    |    |    |                  |
|              |                               |    |    |    |                  |
|              |                               |    |    |    |                  |
|              |                               |    |    |    |                  |
|              |                               |    |    |    |                  |
|              |                               |    |    |    |                  |
|              |                               |    |    |    |                  |
|              |                               |    |    |    |                  |

|                                                                                                      |  |  |  |           |
|------------------------------------------------------------------------------------------------------|--|--|--|-----------|
| Date of Measurement:-                                                                                |  |  |  |           |
|                                                                                                      |  |  |  | 02.11.21. |
| Date of entry:- 02.11.21.                                                                            |  |  |  |           |
| ① Providing bamboo piles incl. labour for cutting of 6244 to 7544 dia bamboo piles to size - - - - - |  |  |  |           |
| 1x30x2.50 =                                                                                          |  |  |  | 75.00M    |
| 1x40x2.50 =                                                                                          |  |  |  | 100.00M   |
| 1x42.4x2.50 =                                                                                        |  |  |  | 1060.00M  |
| 1x58x2.50 =                                                                                          |  |  |  | 145.00M   |
| 1x6x2.50 =                                                                                           |  |  |  | 15.00M    |
| 1x14x2.50 =                                                                                          |  |  |  | 35.00M    |
| 1x40x2.50 =                                                                                          |  |  |  | 100.00M   |
| 1x64x2.50 =                                                                                          |  |  |  | 160.00M   |

Continuation

| Particulars | Details of actual measurement |    |    |    | Contents of area      |
|-------------|-------------------------------|----|----|----|-----------------------|
|             | No.                           | L. | B. | D. |                       |
| 1X10X2.50   |                               |    |    |    | 115.00 M <sup>2</sup> |
| 1X10X2.50   |                               |    |    |    | 2.50 M <sup>2</sup>   |
| 1X8X2.50    |                               |    |    |    | 20.00 M <sup>2</sup>  |
| 1X10X2.50   |                               |    |    |    | 2.50 M <sup>2</sup>   |
|             |                               |    |    |    | 120.00 M <sup>2</sup> |

② Supply & filling of (1X10)

|                               |  |  |  |  |                      |
|-------------------------------|--|--|--|--|----------------------|
| 62 Nos. of 15 Nos. of 15 Nos. |  |  |  |  |                      |
| 2 Nos. of 15 Nos.             |  |  |  |  |                      |
| 1X2X15.00                     |  |  |  |  | 30.00 M <sup>2</sup> |
| 1X2X20.00                     |  |  |  |  | 40.00 M <sup>2</sup> |
| 1X2X25.00                     |  |  |  |  | 50.00 M <sup>2</sup> |
| 1X2X30.00                     |  |  |  |  | 60.00 M <sup>2</sup> |
| 1X2X35.00                     |  |  |  |  | 70.00 M <sup>2</sup> |
| 1X2X40.00                     |  |  |  |  | 80.00 M <sup>2</sup> |
| 1X2X45.00                     |  |  |  |  | 90.00 M <sup>2</sup> |

|            |  |  |  |  |                       |
|------------|--|--|--|--|-----------------------|
| 1X2X50.00  |  |  |  |  | 100.00 M <sup>2</sup> |
| 1X2X55.00  |  |  |  |  | 110.00 M <sup>2</sup> |
| 1X2X60.00  |  |  |  |  | 120.00 M <sup>2</sup> |
| 1X2X65.00  |  |  |  |  | 130.00 M <sup>2</sup> |
| 1X2X70.00  |  |  |  |  | 140.00 M <sup>2</sup> |
| 1X2X75.00  |  |  |  |  | 150.00 M <sup>2</sup> |
| 1X2X80.00  |  |  |  |  | 160.00 M <sup>2</sup> |
| 1X2X85.00  |  |  |  |  | 170.00 M <sup>2</sup> |
| 1X2X90.00  |  |  |  |  | 180.00 M <sup>2</sup> |
| 1X2X95.00  |  |  |  |  | 190.00 M <sup>2</sup> |
| 1X2X100.00 |  |  |  |  | 200.00 M <sup>2</sup> |

③ Filling & spreading 100/ sand

|                        |  |  |  |  |                       |
|------------------------|--|--|--|--|-----------------------|
| over brick beds as per |  |  |  |  |                       |
| 1X1X15.00X5.00X0.20    |  |  |  |  | 15.00 M <sup>3</sup>  |
| 1X1X20.00X6.00X0.20    |  |  |  |  | 24.00 M <sup>3</sup>  |
| 1X1X25.00X7.00X0.20    |  |  |  |  | 35.00 M <sup>3</sup>  |
| 1X1X30.00X8.00X0.20    |  |  |  |  | 48.00 M <sup>3</sup>  |
| 1X1X35.00X9.00X0.20    |  |  |  |  | 63.00 M <sup>3</sup>  |
| 1X1X40.00X10.00X0.20   |  |  |  |  | 80.00 M <sup>3</sup>  |
| 1X1X45.00X11.00X0.20   |  |  |  |  | 99.00 M <sup>3</sup>  |
| 1X1X50.00X12.00X0.20   |  |  |  |  | 120.00 M <sup>3</sup> |
| 1X1X55.00X13.00X0.20   |  |  |  |  | 143.00 M <sup>3</sup> |
| 1X1X60.00X14.00X0.20   |  |  |  |  | 168.00 M <sup>3</sup> |
| 1X1X65.00X15.00X0.20   |  |  |  |  | 195.00 M <sup>3</sup> |
| 1X1X70.00X16.00X0.20   |  |  |  |  | 224.00 M <sup>3</sup> |
| 1X1X75.00X17.00X0.20   |  |  |  |  | 255.00 M <sup>3</sup> |
| 1X1X80.00X18.00X0.20   |  |  |  |  | 288.00 M <sup>3</sup> |
| 1X1X85.00X19.00X0.20   |  |  |  |  | 323.00 M <sup>3</sup> |
| 1X1X90.00X20.00X0.20   |  |  |  |  | 360.00 M <sup>3</sup> |
| 1X1X95.00X21.00X0.20   |  |  |  |  | 399.00 M <sup>3</sup> |
| 1X1X100.00X22.00X0.20  |  |  |  |  | 440.00 M <sup>3</sup> |

Sch. XIV Form No. 134

| No. of entries | Details of entries |      |       |       | Quantity                                  |
|----------------|--------------------|------|-------|-------|-------------------------------------------|
|                | 1                  | 2    | 3     | 4     |                                           |
| 1              | 1X1X               | 5.00 | X1.50 | X0.30 | 1.50 m <sup>3</sup>                       |
| 2              | 1X1X               | 4.00 | X1.50 | X0.30 | 1.20 m <sup>3</sup>                       |
| 3              | 1X1X               | 5.00 | X2.50 | X0.30 | 1.50 m <sup>3</sup>                       |
|                |                    |      |       |       | 7.44 m <sup>3</sup> 266.28 m <sup>3</sup> |

④ Bracing lagging &amp; strapping

Work done in Road works at

Muzhikur, P.O. - - - - -

1X1X 15.00 X 0.45 X

1X1X 15.00 X 5.00 X 0.45 = 3.375 m<sup>3</sup>1X1X 20.00 X 6.00 X 0.45 = 5.40 m<sup>3</sup>1X1X 21.00 X 8.00 X 0.45 = 7.56 m<sup>3</sup>1X1X 29.00 X 6.00 X 0.45 = 7.74 m<sup>3</sup>1X1X 3.00 X 2.00 X 0.30 = 1.80 m<sup>3</sup>1X1X 2.00 X 2.00 X 0.30 = 1.20 m<sup>3</sup>1X1X 20.00 X 2.50 X 0.30 = 15.00 m<sup>3</sup>1X1X 32.00 X 2.10 X 0.30 = 20.16 m<sup>3</sup>1X1X 35.00 X 2.00 X 0.30 = 21.00 m<sup>3</sup>1X1X 5.00 X 1.50 X 0.30 = 2.25 m<sup>3</sup>1X1X 4.00 X 1.50 X 0.30 = 1.80 m<sup>3</sup>1X1X 5.00 X 2.00 X 0.30 = 3.00 m<sup>3</sup>

$$1X1X 8.00 X \left( \frac{5.5 + 4.2}{2} \right) X \left( \frac{2.5 + 5.0}{2} \right) =$$

$$= 145.50 m^3$$

$$1X1X 24.00 X \left( \frac{6.0 + 4.2}{2} \right) X 5.00 = 612.00 m^3$$

$$1X1X 8.00 X \left( \frac{5.5 + 4.2}{2} \right) X \left( \frac{5.0 + 2.0}{2} \right) =$$

$$= 135.00 m^3$$

Residual for pile area.

$$1X2X 5.00 X \frac{1}{4} (1.23)^2 = 11.89 m^3$$
Total: 1307.04 m<sup>3</sup>

⑤ Supply of New bag with labour

for filling New bag with

local sand - - - - -

| Particulars | Details of actual measurement |      |           |    | Contents of area     |
|-------------|-------------------------------|------|-----------|----|----------------------|
|             | No.                           | L.   | B.        | D. |                      |
| 1X1X        | 15.00                         | 0.45 | 0.65      |    | 4.390M <sup>3</sup>  |
| 1X1X        | 20.00                         | 0.45 | 0.95      |    | 8.55M <sup>3</sup>   |
| 1X1X        | 012.00                        | 0.45 | 1.45      |    | 138.33M <sup>3</sup> |
| 1X1X        | 29.00                         | 0.45 | 1.00      |    | 13.05M <sup>3</sup>  |
| 1X1X        | 3.00                          | 0.45 | 0.90      |    | 0.95M <sup>3</sup>   |
| 1X1X        | 7.00                          | 0.45 | 0.50      |    | 1.58M <sup>3</sup>   |
| 1X1X        | 20.00                         | 0.45 | 1.00      |    | 9.00M <sup>3</sup>   |
| 1X1X        | 32.00                         | 0.45 | 0.80      |    | 11.52M <sup>3</sup>  |
| 1X1X        | 35.00                         | 0.45 | 0.70      |    | 11.03M <sup>3</sup>  |
| 1X1X        | 5.00                          | 0.45 | 0.40      |    | 1.13M <sup>3</sup>   |
| 1X1X        | 4.00                          | 0.45 | 0.60      |    | 1.08M <sup>3</sup>   |
| 1X1X        | 5.00                          | 0.45 | 0.70      |    | 1.58M <sup>3</sup>   |
| 1X1X        | 8.00                          | 0.45 | (2.5+5.0) |    | 13.50M <sup>3</sup>  |
| 1X1X        | 22.00                         | 0.45 | 5.00      |    | 49.50M <sup>3</sup>  |
| 1X1X        | 8.00                          | 0.45 | (5.0+2.0) |    | 12.60M <sup>3</sup>  |

Defect for pipe area-

|                                            |      |                                 |                      |
|--------------------------------------------|------|---------------------------------|----------------------|
| 2X2                                        | 0.45 | $\frac{\pi}{4} \times (1.23)^2$ | = 2.14M <sup>3</sup> |
| Total = 275.65M <sup>3</sup>               |      |                                 |                      |
| @ 0.034M <sup>3</sup> each bag = 8107.04kg |      |                                 |                      |

02.11.21

OR

1/

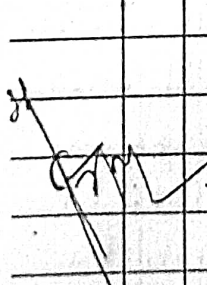
Continuation



| Particulars                                                                  | Details of actual measurement |    |    |    | Contents of area |
|------------------------------------------------------------------------------|-------------------------------|----|----|----|------------------|
|                                                                              | No.                           | L. | B. | D. |                  |
| ① Providing laying & spreading brick bats in Road ditches all complete - - - |                               |    |    |    |                  |
| 1309.04 M <sup>3</sup> (vide TMBP-03)                                        |                               |    |    |    |                  |
| @ Rs. 2168.72/M <sup>3</sup> = Rs. 2838911.00                                |                               |    |    |    |                  |
| ② Supply of New bag with labour for filling New R bag with leaf spread - - - |                               |    |    |    |                  |
| 8107.10 Nos (vide TMBP-09)                                                   |                               |    |    |    |                  |
| @ Rs. 38.03/each = Rs. 308309.00/-                                           |                               |    |    |    |                  |
| Total Rs. 36712848.00/-                                                      |                               |    |    |    |                  |
| At 12% GST @ Rs. 440242.00/-                                                 |                               |    |    |    |                  |
| Add 1% L.C @ Rs. 36728.00/-                                                  |                               |    |    |    |                  |
| Add 5% fee 10% of material cost                                              |                               |    |    |    |                  |

## Calculations - - -

|                             |                                                      |  |
|-----------------------------|------------------------------------------------------|--|
| ① Brick Bats:-              | 1570.848 @ Rs. 1050.00/-                             |  |
|                             | = Rs. 1649390.00/-                                   |  |
| ② (Local) Sand:-            | 10420.518 M <sup>3</sup> @ Rs. 141.85/M <sup>3</sup> |  |
|                             | = Rs. 147881.00/-                                    |  |
| Total M.C. Rs.:-            | 1797271.00/-                                         |  |
| S. fee @ 10% on M.C. cost @ | 179727.00/-                                          |  |
| Rs.:-                       | 4330045.00/-                                         |  |


  
 02.11.2021  
 JE  
 15.11.21  
 AR