

Barahatma ~~Lakhan Sen~~ Lakhan Sen to Paswan

Polg. (MMGSYSU)

# Schedule XLV-Form No. 134

Chuman Kumar

1219

R.W.D. Work

**DIVISION**

Dhaka.

R.W.D. Works

**SUB-DIVISION**

Dhaka.

Chuman Kumar.

**MEASUREMENT BOOK**

R.W.D. Works DIVISION Dhaka.

R.W.D. (w) SUB-DIVISION Dhaka.

# Measurement Book

No.

1219

Name of Officer \_\_\_\_\_

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

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

## 1st on Acc. Bill

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. |                  |
| Name of work :- construction of Road |                               |    |    |    |                  |
| at Barabarwa Lakhan sen to           |                               |    |    |    |                  |
| Paswan Tola.                         |                               |    |    |    |                  |
| Head :- M.M.E.S.Y. Sc                |                               |    |    |    |                  |
| Agency :- Shri Chaman Kumar          |                               |    |    |    |                  |
| At :- Barabarwa Siwan Mhaka          |                               |    |    |    |                  |
| Dist. - East Champaran               |                               |    |    |    |                  |
| Agreement No. 51803/2018-19          |                               |    |    |    |                  |
| Date of start :- 19.01.2019          |                               |    |    |    |                  |
| Date of completion :- 18.01.2020     |                               |    |    |    |                  |



# 4<sup>th</sup> on A/c bill

19

Sch. XLV—Form No. 134

| Particulars                              | Details of actual measurement |    |    |    | Contents of area |
|------------------------------------------|-------------------------------|----|----|----|------------------|
|                                          | No.                           | L. | B. | D. |                  |
| Name of work- Const <sup>n</sup> of road |                               |    |    |    |                  |
| from Barharwa Lakhansen to Paswan        |                               |    |    |    |                  |
| Toli under MMWSY (SS)                    |                               |    |    |    |                  |
| Agency- S <sup>r</sup> Chuman Kuma       |                               |    |    |    |                  |
| At- Barharwa Siwan Dhaka,                |                               |    |    |    |                  |
| East Champaran                           |                               |    |    |    |                  |
| Agreement No- 51/SBD/2018-19             |                               |    |    |    |                  |
| Date of start- 19/10/2019                |                               |    |    |    |                  |
| Date of completion- 18/01/2020           |                               |    |    |    |                  |
| Date of Measurement-                     |                               |    |    |    |                  |
| 17/01/2020                               |                               |    |    |    |                  |
| By- <u>Revered Bonty</u>                 |                               |    |    |    |                  |
| (D) Prov <sup>n</sup> Prime coat with    |                               |    |    |    |                  |
| emulsion (SS)                            |                               |    |    |    |                  |



$$1 \times 5.00 \times \frac{15.00 + 4.00 + 3.75}{3} = 37.92M$$

$$1 \times 30.00 \times \frac{3.75 + 3.75}{2} = 112.50M$$

$$1 \times 6.00 \times \frac{3.75 + 3.80}{2} = 22.65M$$

$$1 \times 30.00 \times \frac{3.80 + 3.75}{2} = 113.25M$$

$$1 \times 30.00 \times \frac{3.75 + 3.85}{2} = 114.00M$$

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$$1 \times 30.00 \times \frac{3.75 + 3.75}{2} = 112.50M$$

$$1 \times 30.00 \times \frac{3.75 + 3.80}{2} = 113.25M$$

$$1 \times 15.00 \times \frac{3.80 + 3.80}{2} = 57.00M$$

$$1 \times 15.00 \times \frac{3.80 + 3.90}{2} = 57.75M$$

$$1 \times 30.00 \times \frac{3.90 + 3.75}{2} = 114.75M$$

$$1 \times 15.00 \times \frac{3.75 + 3.85}{2} = 57.00M$$

$$1 \times 30.00 \times \frac{3.85 + 3.75}{2} = 114.00M$$

$$1 \times 30.00 \times \frac{3.75 + 3.75}{2} = 112.50M$$

Continuation

$$1253.07M$$



## Sch. XLV—Form No. 134

| Particulars | Details of actual measurement |             |               |      | Contents of area       |
|-------------|-------------------------------|-------------|---------------|------|------------------------|
|             | No.                           | L.          | B.            | D.   |                        |
|             |                               |             |               | B.F. | 12.53.67H <sup>c</sup> |
| 1 x 30 x    |                               | <u>3.75</u> | <u>+ 3.80</u> | =    | 113.25H <sup>c</sup>   |
|             |                               |             | 2             |      |                        |
| 1 x 30 x    |                               | <u>3.80</u> | <u>+ 3.78</u> | =    | 113.70H <sup>c</sup>   |
|             |                               |             | 2             |      |                        |
| 1 x 30 x    |                               | <u>3.78</u> | <u>+ 3.75</u> | =    | 112.95H <sup>c</sup>   |
|             |                               |             | 2             |      |                        |
| 1 x 30 x    |                               | <u>3.75</u> | <u>+ 3.82</u> | =    | 113.55H <sup>c</sup>   |
|             |                               |             | 2             |      |                        |
| 1 x 30 x    |                               | <u>3.82</u> | <u>+ 3.85</u> | =    | 115.05H <sup>c</sup>   |
|             |                               |             | 2             |      |                        |
| 1 x 30 x    |                               | <u>3.85</u> | <u>+ 3.75</u> | =    | 114.60H <sup>c</sup>   |
|             |                               |             | 2             |      |                        |
| 1 x 30 x    |                               | <u>3.75</u> | <u>+ 3.75</u> | =    | 112.50H <sup>c</sup>   |
|             |                               |             | 2             |      |                        |
| 1 x 30 x    |                               | <u>3.75</u> | <u>+ 3.75</u> | =    | 112.50H <sup>c</sup>   |
|             |                               |             | 2             |      |                        |
| 1 x 15.60 x |                               | <u>3.75</u> | <u>+ 3.50</u> | =    | 54.37H <sup>c</sup>    |
|             |                               |             | 2             |      |                        |
| 1 x 15 x    |                               | <u>3.80</u> | <u>+ 3.70</u> | =    | 54.60H <sup>c</sup>    |
|             |                               |             | 2             |      |                        |
| 1 x 30 x    |                               | <u>3.70</u> | <u>+ 3.75</u> | =    | 111.75H <sup>c</sup>   |
|             |                               |             | 2             |      |                        |
| 1 x 30 x    |                               | <u>3.75</u> | <u>+ 3.75</u> | =    | 112.50H <sup>c</sup>   |
|             |                               |             | 2             |      |                        |

|   |   |      |   |                         |   |          |
|---|---|------|---|-------------------------|---|----------|
| 1 | x | 30   | x | $\frac{3.75 + 3.75}{2}$ | = | 111.75H  |
| 1 | x | 30   | x | $\frac{3.75 + 3.75}{2}$ | = | 111.75H  |
| 1 | x | 30   | x | $\frac{3.75 + 3.75}{2}$ | = | 112.50H  |
| 1 | x | 30   | x | $\frac{3.75 + 3.75}{2}$ | = | 112.50H  |
| 1 | x | 30   | x | $\frac{3.75 + 3.75}{2}$ | = | 112.50H  |
| 1 | x | 21.0 | x | $\frac{3.75 + 3.75}{2}$ | = | 78.75H   |
|   |   |      |   |                         |   | 3132.94H |

limited - 3132.26H

(2) Brown tack coat with

emulsion (Rs)

Qty - Same as above

= 3132.26H

(3) Brown, laying and Rolling  
of close graded Premix

- Surface 20mm Mix Seal - 3132.26H

Continuation



## Sch. XLV—Form No. 134

| Particulars                                                    | Details of actual measurement |    |    |    | Contents of area |
|----------------------------------------------------------------|-------------------------------|----|----|----|------------------|
|                                                                | No.                           | L. | B. | D. |                  |
| (4) Born and fixing ordinary<br>km stone —————                 |                               |    |    |    | 2 Nay            |
| (5) Born and fixing 200m<br>stone —————                        |                               |    |    |    | 4 Nay            |
| (6) Born and fixing boundary<br>pillar —————                   |                               |    |    |    | 22 Nay           |
| (7) Painting two coat plaster<br>$6 \times 6.20 \times 1.80 =$ |                               |    |    |    | 66.96 ft         |
| (8) Painting, lining, plastered<br>Arrow etc on road           |                               |    |    |    |                  |
| 2 X 10 X 30 X 0.100 =                                          |                               |    |    |    | 60.00 ft         |
| 2 X 10 X 30 X 0.100 =                                          |                               |    |    |    | 60.00 ft         |
| 2 X 7 X 30 X 0.100 =                                           |                               |    |    |    | 42.00 ft         |



$$2 \times 1 \times 17 \times 0.100 =$$

3.40H

$$2 \times 10 \times 30 \times 0.100 =$$

60.10%

225.40 ft

(9) Brown and foxing mites  
in formatory - sign board

sty

2 May

(10) Brown and fixing Maintenance board

2 May

(11) Brown and boxing Traffic  
→ sign

(i) 600 mm equilateral -

16 May

(ii) 60 mm circular —

6 May

VIII 600mm x 450mm

2 day

(iv) 90 mm octagon —

2 May

**Continuation**

## Sch. XLV—Form No. 134

| Particulars                                                | Details of actual measurement |                |               |               | Contents of area |
|------------------------------------------------------------|-------------------------------|----------------|---------------|---------------|------------------|
|                                                            | No.                           | L.             | B.            | D.            |                  |
| (12) Prov <sup>n</sup> and laying 500mm dia Rec H.P. N.P.s |                               |                |               |               | 23.00 M          |
| (13) Prov <sup>n</sup> and laying B/E/S                    |                               |                |               |               |                  |
| 2 x 3 x 30.00 x 0.500 =                                    |                               |                |               |               | 90.00 M          |
| 2 x 4 x 30.00 x 0.500 =                                    |                               |                |               |               | 120.00 M         |
|                                                            |                               |                |               |               | 210.00 M         |
| E/W calculation sheet                                      |                               |                |               |               |                  |
| <u>C/H</u>                                                 | <u>Area</u>                   | <u>M. Area</u> | <u>Length</u> | <u>Volume</u> |                  |
| 0                                                          | 2.598                         |                |               |               |                  |
| 50                                                         | 8.917                         | 5.758          | 50            | 287.875       |                  |
| 100                                                        | 5.026                         | 6.972          | 50            | 348.575       |                  |
| 150                                                        | 4.168                         | 4.597          | 50            | 229.850       |                  |
| 200                                                        | 3.862                         | 4.015          | 50            | 200.750       |                  |



|     |       |       |    |         |
|-----|-------|-------|----|---------|
| 250 | 4.106 | 3.984 | 50 | 199.20  |
| 300 | 4.104 | 4.105 | 50 | 205.250 |
| 350 | 4.714 | 4.409 | 50 | 220.450 |
| 400 | 4.561 | 4.638 | 50 | 231.875 |
| 450 | 3.575 | 4.118 | 50 | 205.900 |
| 500 | 4.785 | 4.230 | 50 | 211.500 |
| 550 | 5.777 | 5.281 | 50 | 264.050 |
| 600 | 5.848 | 5.813 | 50 | 290.625 |
| 650 | 4.889 | 5.369 | 50 | 268.425 |
| 700 | 5.714 | 5.302 | 50 | 265.075 |
| 750 | 5.819 | 5.767 | 50 | 288.325 |
| 800 | 4.143 | 4.981 | 50 | 249.050 |
| 850 | 4.552 | 4.348 | 50 | 217.375 |
| 900 | 9.065 | 6.809 | 50 | 340.425 |
| 950 | 4.570 | 6.818 | 50 | 340.875 |

Continuation

4865.4504)

## Sch. XLV—Form No. 134

| Particulars               | Details of actual measurement |       |    |     | Contents of area |
|---------------------------|-------------------------------|-------|----|-----|------------------|
|                           | No.                           | L.    | B. | D.  |                  |
|                           |                               |       |    | B.F | 4865.450         |
| 1000                      | 1.245                         | 2.908 | 50 |     | 145.375          |
| 1050                      | 0.365                         | 0.815 | 50 |     | 40.250           |
| 1100                      | 0.245                         | 0.305 | 50 |     | 15.250           |
| 1127                      | 0.285                         | 0.265 | 27 |     | 7.155            |
| Total E/w with crust-50   |                               |       |    |     | 73.484           |
| Less qty of sub grade (-) |                               |       |    |     | 2300.634         |
| Less qty of GSB (-)       |                               |       |    |     | 684.404          |
| Less qty of WBM (-)       |                               |       |    |     | 220.144          |
| Less qty of Pcc (-)       |                               |       |    |     | 181.804          |
| Net E/w -                 |                               |       |    |     | 1686.514         |
| (i) Contn of embankment   |                               |       |    |     |                  |
| Spread up to 1000 M       |                               |       |    |     |                  |



Qty - 30% of 1686.51M<sup>3</sup>  $\Rightarrow$  505.95M<sup>3</sup>

(ii) Contn. of embankment  
lead up to 100M

Qty - 70% of 1686.51M<sup>3</sup>  $\Rightarrow$  1180.56M<sup>3</sup>

17/01/2020

J.E

~~1686.51M<sup>3</sup>~~

~~1686.51M<sup>3</sup>~~

~~1686.51M<sup>3</sup>~~

~~1686.51M<sup>3</sup>~~

Prada

17/01/2020

310

Continuation

# Abstract of cost

24

Sch. XLV—Form No. 134

| Particulars                         | Details of actual measurement |    |    |    | Contents of area |
|-------------------------------------|-------------------------------|----|----|----|------------------|
|                                     | No.                           | L. | B. | D. |                  |
| (12) Contn of benchmark             |                               |    |    |    |                  |
| Q-VIMB/14① = 1.127 Km               |                               |    |    |    |                  |
| e h. 11906.94/km - R -              |                               |    |    |    | 13419=0          |
| (13) Contn. of Ref Pillar           |                               |    |    |    |                  |
| Q-VIMB/15② = 1.127 Km               |                               |    |    |    |                  |
| e h. 11812.98/km R. 13313=0         |                               |    |    |    |                  |
| (2) Cleaning and grubbing road land |                               |    |    |    |                  |
| Q-VIMB/15③ = 0.34 heet              |                               |    |    |    |                  |
| e h. 50148.62/heet - R -            |                               |    |    |    | 17051=0          |
| (3) Contn of embankment             |                               |    |    |    |                  |
| level up to 1000 ft                 |                               |    |    |    |                  |
| Q-VIMB/23④ = 505.95 ft              |                               |    |    |    |                  |



$$Ch - 155 = 23/M^2 - R - 78539 = 0$$

(4) Const<sup>n</sup> of subgrade and  
earth - should be

$$Q - VMB/15 (9) = 2300.63M^3$$

$$Ch - 156 = 97/M^2 - R - 361130 = 0$$

(5) Const<sup>n</sup> of embankment  
lead up to 100 M

$$Q - VMB/23 (11) = 1180.56M^3$$

$$Ch - 116 = 48/M^2 - R - 137512 = 0$$

(6) Prov<sup>n</sup> laying B/F/S

$$Q - VMB/22 (13) = 210.00M^3$$

$$Ch - 503.12/M^2 - R - 105655 = 0$$

(7) Prov<sup>n</sup> granular sub  
base

$$Q - VMB/11 (6) = 684.40M^3$$

Continuation

$$726619 = 0$$

## Sch. XLV—Form No. 134

| Particulars                                                         | Details of actual measurement |    |    |    | Contents of area |
|---------------------------------------------------------------------|-------------------------------|----|----|----|------------------|
|                                                                     | No.                           | L. | B. | D. |                  |
|                                                                     |                               |    |    |    |                  |
|                                                                     |                               |    |    |    |                  |
|                                                                     |                               |    |    |    |                  |
| ( $\frac{8}{9}$ ) Prov <sup>n</sup> WBM Grade 3                     |                               |    |    |    |                  |
| Q-MMBP 16 (7) =                                                     |                               |    |    |    |                  |
|                                                                     |                               |    |    |    |                  |
|                                                                     |                               |    |    |    |                  |
| ( $\frac{9}{10}$ ) Prov <sup>n</sup> Prime coat with emulsion (SS1) |                               |    |    |    |                  |
| Q-MMBP 19 (8) =                                                     |                               |    |    |    |                  |
|                                                                     |                               |    |    |    |                  |
|                                                                     |                               |    |    |    |                  |
| ( $\frac{10}{11}$ ) Prov <sup>n</sup> Tack coat with emulsion (RS1) |                               |    |    |    |                  |
| Q-MMBP 20 (9) =                                                     |                               |    |    |    |                  |
|                                                                     |                               |    |    |    |                  |
|                                                                     |                               |    |    |    |                  |
| ( $\frac{11}{12}$ ) Prov <sup>n</sup> Sealing, Rolling              |                               |    |    |    |                  |



c. base graded mix

surfacing 20mm

thick Mix-surf types

$$Q-VMB/20(3) = 3132.26 \text{ m}^3$$

$$\bullet R. 221 = 23 \text{ m}^3 - R. 6,92,950 =$$

( $\frac{12}{13}$ ) Contn of un-reinforced  
pcc Pavement

$$Q-VMB/17(16) = 181.80 \text{ m}^3$$

$$\bullet R. 7904.99 \text{ m}^3 - R. 14,37,127 =$$

( $\frac{13}{14}$ ) (ii) Provision of fixing ordinary  
km-stone -

$$Q-VMB/21(4) = 2.14 \text{ m}^3$$

$$\bullet R. 2737.48 \text{ per km} - R. 5475 =$$

(iii) 200 mm stone

$$Q-VMB/21(5) = 4.14 \text{ m}^3$$

Continuation -

$$63,51,197 =$$

## Sch. XLV—Form No. 134

| Particulars                                         | Details of actual measurement |    |    |    | Contents of area |
|-----------------------------------------------------|-------------------------------|----|----|----|------------------|
|                                                     | No.                           | L. | B. | D. |                  |
| e R 721=32/MR — R                                   |                               |    |    |    | 2885=6           |
| (14/15) Prown & fixing boundary pillar              |                               |    |    |    |                  |
| Q-51MBP 21(6)= 22 Nay                               |                               |    |    |    |                  |
| e R 539=56/each R                                   |                               |    |    |    | 11870=0          |
| (15/16) Painting two coat Primer                    |                               |    |    |    |                  |
| Q-51MBP 21(7)= 661.964                              |                               |    |    |    |                  |
| e R = 110=65/M — R                                  |                               |    |    |    | 7409=6           |
| (16/18) Paintine, lines, dashes, Arrows             |                               |    |    |    |                  |
| Q-51MBP 21(8)= 225.401                              |                               |    |    |    |                  |
| e R 867=77/M — R                                    |                               |    |    |    | 195595=0         |
| (17/20) Prown and fixing masonry informational sign |                               |    |    |    |                  |



Q. TMDP 21(9) = 2 Nay

e R - 11815.93/each R - 23632 =

(18) Pown and fixing Mainstem board

Q. TMDP 21(10) = 2 Nay

e R - 11815.93/each R - 23632 =

(19) Pown & fixing Traffic sign

(i) Q. TMDP 21(11)

(i) 600mm regulated - 16 Nay

e R - 3951 = 72/each R - 63228 =

(ii) 600mm circular - 6 Nay

e R - 5356.73/each R - 32140 =

(iii) 600mm x 450mm - 2 Nay

e R - 4579.45/each R - 9159 =

Continuation

67,20,747 =

## Sch. XLV—Form No. 134

| Particulars                                                  | Details of actual measurement |    |    |    | Contents of area |
|--------------------------------------------------------------|-------------------------------|----|----|----|------------------|
|                                                              | No.                           | L. | B. | D. |                  |
| (iv) 900 mm side of layer - 2 Nos                            |                               |    |    |    |                  |
| o R 88/10.29/each R                                          |                               |    |    |    | 17621 = 6        |
| ( $\frac{20}{23}$ ) Prov <sup>n</sup> layering 300 mm $\phi$ |                               |    |    |    |                  |
| Rec H.P. 11/3                                                |                               |    |    |    |                  |
| Q-VIMDP 22 (12) = 23.64 M                                    |                               |    |    |    |                  |
| o R 97.3 = 45/M - R                                          |                               |    |    |    | 22389 = 6        |
| ( $\frac{21}{27}$ ) F/w in excavation for                    |                               |    |    |    |                  |
| foundn.                                                      |                               |    |    |    |                  |
| Q-VIMDP 16 (8) = 37.62 M                                     |                               |    |    |    |                  |
| o R 288 = 02/M <sup>2</sup> - R                              |                               |    |    |    | 10835 = 6        |
| ( $\frac{22}{28}$ ) Prov <sup>n</sup> = Sand filling         |                               |    |    |    |                  |
| Q-VIMDP 16 (9) = 2.85 M                                      |                               |    |    |    |                  |
| o R 364 = 55/M <sup>2</sup> - R                              |                               |    |    |    | 1039 = 6         |



|            |                           |  |  |           |
|------------|---------------------------|--|--|-----------|
| 23<br>(38) | Prov B/F/S in foundry     |  |  |           |
|            | Q-VIHD/16 (10) = 28.64M   |  |  |           |
|            | e R 295 = 12/H R          |  |  | 8452.20   |
| 24<br>(38) | Prov Rec H/S (1:2.5:5)    |  |  |           |
|            | Q-VIHD/16 (10) = 6.167 M  |  |  |           |
|            | e R 6863 = 33/M R         |  |  | 42326.00  |
| 25<br>(37) | Brick Masonry in cm (114) |  |  |           |
|            | Q-VIHD/17 (12) = 26.51 M  |  |  |           |
|            | e R 6540.66/M R           |  |  | 173393.00 |
| 26<br>(38) | Prov, Laying 1000 mm φ    |  |  |           |
|            | NP, H.P                   |  |  |           |
|            | Q-VIHD/17 (15) = 7.50 M   |  |  |           |
|            | e R 4493.20/M R           |  |  | 33699.00  |

Continuation

70, 30, 50/-00

Scanned with CamScanner



## Materials Statement update

(i) sand - 3987.14 M<sup>3</sup>

(ii) Metal - 962.25 M<sup>3</sup>

(iii) Chip - 253.73 M<sup>3</sup>

(iv) sand - 417.55 M<sup>3</sup>

(v) Slurry - 83.24 M<sup>3</sup>

(vi) Emulsion (RS1) - 2.662 M<sup>3</sup>

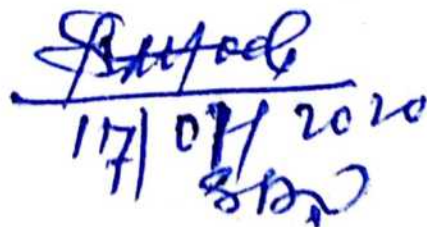
(vii) Emulsion (RS1) - 0.861 M<sup>3</sup>

Continuation

(viii) bitumen — 5.951 M<sup>3</sup>



17/01/2020  
J.E.

  
17/01/2020