

भागीकपुर शरीरु री पुनरुदरु (MMISY)

(SC)

Schedule XLV-Form No. 134

रीनरुदरुः- रीरुन रीरुन

भागीकपुर रीरुन रीरुन DIVISION

रुनरु SUB-DIVISION

MEASUREMENT BOOK

591

प्रमाणित किया जाता है कि इस मापी
पुस्तिका में कुल 100 पन्ने मशीन
मुद्रित अंकित है। जी भी ठाकुर
पवन सिंह, (सहायक अभियंता)
कार्य अवर प्रमण्डल, कुर्या के नाम
से निर्गत किया जाता है।

30/8/19
Executive Engineer
R.W.D. (W) Division
Laxmi Arwal
30-8-19

Sch. XLV—Form No. 134

_____ DIVISION

_____ SUB-DIVISION

Measurement Book

No.

591

Name of Officer _____

Date of first entry _____

Date of last entry _____

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	Dr. Vm.	
<u>3rd on a/c Bill</u>					
N/WI- Construction of Road from					
Manikapur Rajpur to					
Pulenderpur (under M.M.G.S.Y. S.C.)					
Name of Agency:- Shri Kaushal Kishor					
Agreement No:- 45/S.B.D/M.M.G.S.Y.					
Year 2019-2020					
Date of Commencement:- 09/08/2019					
Date of Measurement:- 20/03/2020					
<u>Item 1:- Construction of R.C.C. &</u>					
<u>Working Benchmark = 1 No</u>					
<u>Item 2:- Construction of Reference</u>					
<u>Pillars - do - do - all Complete job = 5 Nos</u>					
<u>Item 3:- Clearing & Grubbing Road Land</u>					
<u>- do - do - all Complete job.</u>					
Near R.C.C					
Bridge - $1 \times 30 \text{ m} \times 3.50 \text{ m} = 105 = \infty$					
Quantity vide T.M.B. Page 1 = $4095 = \infty$					
= 4200 m^2					
= 0.420 Ha.					
<u>Item 4:- Excavation of soil using Hydraulic</u>					
<u>Excavator - do - do - all Complete job.</u>					
$2 \times 1 \times 30 \text{ m} \times 0.375 \times 0.10 = 2.25 \text{ m}^3$					
$2 \times 1 \times 95 \text{ m} \times 0.375 \times 0.10 = 1.87 \text{ m}^3$					
= 4.12 m^3					
Quantity vide T.M.B. Page 2 = 61.875					
= 65.995 m^3					
in the portion					
$2 \times 5 \times 0.375 \times 0.175 = 0.656$					
Continuation					
= 66.651 m^3					

Particulars	Details of actual measurement			Contents of
	of	mean	length	
Item 4:- E/W calculation as per c/s area.	area	area	length	quantity
Change				
650.00 m	2.410	—	—	—
700.00 m	2.687	2.548	50 M =	127.425 m ³
750.00 m	3.220	2.953	45 M =	132.907 m ³
800.00 m	3.875	3.547	50 M =	177.375 m ³
				<u>= 437.707 m³</u>

(i) 70% E/W within 100 m lead = 306.394 m³

(ii) 30% E/W within 100 m lead = 131.312 m³

Item 5:- Construction of sub grade & then

Shoulder - do - do - all complete job.

Adjacent to
W.B.M - $2 \times 15 \times 30 \text{ m} \times 1.20 \times 0.075 = 81.00 \text{ m}^3$

B.S.B - $2 \times 15 \times 30 \text{ m} \times 1.325 \times 0.20 = 238.50 \text{ m}^3$

in Rigid Road

$2 \times 25 \times 30 \text{ m} \times 1.225 \times 0.160 = 294.00 \text{ m}^3$

$2 \times 25 \times 30 \text{ m} \times 1.400 \times 0.075 = 157.50 \text{ m}^3$

$2 \times 25 \times 30 \text{ m} \times 1.575 \times 0.100 = 236.25 \text{ m}^3$

= 1007.25 m³

Item 6:- Providing G.S.B. Grading A.

- do - do - all complete job.

c.c. Particular
 $2 \times 25 \times 30 \times 0.375 \times 0.100 = 56.25 \text{ m}^3$

10% quality
in Levels $10\% \times 18 \times 30 \text{ m} \times 3.00 \times 0.10 = 16.20 \text{ m}^3$

$10\% \times 1 \times 25 \text{ m} \times 3.00 \times 0.10 = 0.75 \text{ m}^3$

= 73.20 m³

Item 7:- Providing W.B.M. Grading

- do - do all complete job.

$2 \times 7 \times 30 \text{ m} \times 0.375 \times 0.100 = 11.81 \text{ m}^3$

Item 8:- Providing P.C.M - 30

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Item 9:-</u> Providing Prime Coat with Bitumen Emulsion — do — do — all complete job					
Curve — $10 \times (4.25 - 3.75) \times 3.1733 \times 0.160$					$= 2.458 \text{ m}^3$
$11.275 \text{ m} \times 3.75 \times 0.160$					$= 6.765 \text{ m}^3$
					$= 9.223 \text{ m}^3$
<u>Item 10:-</u> Providing Tack Coat with Bitumen Emulsion — do — do — complete job					
$15 \times 30 \text{ m} \times 3.75 \text{ m}$					$= 1687.50 \text{ m}^2$
Foot path widening — $9 \times 9 \times (4.25 - 3.75) \times 3.75$					$= 33.75 \text{ m}^2$
					$= 1721.25 \text{ m}^2$
<u>Item 11:-</u> Providing Tack Coat with Bitumen Emulsion — do — do — complete job					
Same quantity of item (8) =					1721.25 m^2
<u>Item 12:-</u> Providing & laying & rolling					
Hot seal surface — do — do — all complete job					
Same quantity of item (8) =					1721.25 m^2
<u>Item 13:-</u> Providing Brick saling on edge					
— do — do — as per Tech. Specification.					
$2 \times 2.5 \times 30 \text{ m} \times 0.25$					$= 375.00 \text{ m}^2$
<u>Item 14:-</u> R.M. Stone Providing & fixing R.C.					
R.M. Stone — do — do —					
(i) R.M. stone — 2 Nos.					
(ii) 200 mm stone — 5 Nos.					
<u>Item 15:-</u> Providing Traffic Signs — do — do —					
(i) 600 mm. equilateral Triangle =					8 Nos.
(ii) 600 mm. Circular — =					6 Nos.
(iii) 600 mm. x 450 mm. rectangular =					4 Nos.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Item 15:- Providing & fixing Logo of</u>					
<u>M.M.G.S.Y Project -do-do-</u>					
(i) Logo of M.M.G.S.Y -	= 1 No				
(ii) Citizen information Board -	= 1 No				
(iii) maintenance Board -	= 1 No				
	= 3 Nos.				
<u>Item 16:- Providing & fixing R.C.C.M-75</u>					
<u>grade Boundary Pillars -do-do-</u>					
	<u>total $\frac{1200 \text{ m}}{100 \text{ m}} = 12 \text{ Nos}$</u>				
<u>Item 17:- Providing Road Marking with</u>					
<u>Hot Thermoplastic Compound -do-do-</u>					
B.T.P. -	$2 \times 15 \times 30 \text{ m} \times 0.10 = 90.00 \text{ m}^2$				
E.C. Surface -	$2 \times 15 \times 30 \text{ m} \times 0.10 = 90.00 \text{ m}^2$				
<i>[Signature]</i> 20/03/20 J.E. <i>[Signature]</i> 20/03/20 A.E.					
<u>Material statement</u>					
Items of work & Quantity	stone metal	stone chips	stone sand	Emulsion	Butter men
1- G.S.B. 73.20m ³	70.27	—	—	—	17.57
2- W.B.M III = 11.81	14.35	—	—	—	2.83
3- P.C.C-M30 = 9.223m ³	—	8.30	4.15	—	—
4- Prime Coat = 1721.25	—	—	—	1463m ²	—
5- Tack Coat = 1721.25	—	—	—	473.34	—
6- Mix Seal Surface = 1721.25	—	46.47	—	—	3270.37
	= 84.62 m ³	54.77 m ³	4.15 m ³	1936.34 m ²	3270.37 m ²
(i) E/W filling = 437.70 m ³					
(ii) Sub grade earth = 1007.25 m ³					

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Continuation

Continuation

B.T.C

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(iii) Stone Metal = $84.6 \text{ m}^3 @ 528.14/\text{m}^3$					
(iv) Stone chips = $54.71 \text{ m}^3 @ 550.85/\text{m}^3$					
(v) Stone sand = $4.15 \text{ m}^3 @ 150.80/\text{m}^3$					
(vi) Seining material = $28.14 \text{ m}^3 @ 351.99/\text{m}^3$					
(vii) Bricks = $23250 \text{ Nos} @ 5062.00/\text{Nos}$					
(viii) Brick salting material (Harol Saloboring)					
<i>Syadon</i> <i>28/03/20</i> <i>J.E.</i>					
<i>[Signature]</i> <i>20/3/20</i> <i>A.E.</i>					

Abstract of Cost

Item 1: Construction of R.C.C. Working

Bench Marks - do - do - all complete job
= 1 No @ 3790.833/each Rs - 3791 = ∞

Item 2: Construction of Reference Pillars

- do - do - all complete job.

= 5 Nos @ 1728.074/each Rs - 8640 = ∞

Item 3: Cleaning & Grubbing Road Land

- do - do - all complete job.

(Quantity vide T.M. B Page 16)

= 0.420 Hae @ 49739.470/Hae Rs - 20891 = ∞

Item 4: Excavation of soil by Hydraulic

excavator - do - do - all complete job.

= 66.651 $\text{m}^3 @ 82.015/\text{m}^3$ Rs - 5466 = ∞

Continuation

Rs - 38,758 = ∞

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Item 5:- Construction of embankment</u>					
<u>upto lead 1000 m - do - do - E.I</u>					
<u>= 286.83 m³ (vide T.M.B. Page 13)</u>					
<u>= 131.31 m³ (vide T.M.B. Page 17)</u>					
<u>= 418.14 m³ @ 187.226/m³ Rs. 78,287 = ∞</u>					
<u>Item 6:- Construction of embankment</u>					
<u>upto lead 100 m - do - do E.I</u>					
<u>= 669.27 m³ (vide T.M.B. Page 13)</u>					
<u>= 306.394 m³ (vide T.M.B. Page 17)</u>					
<u>= 975.664 m³ @ 142.390/m³ Rs. 1,38,925 = ∞</u>					
<u>Item 7:- Construction of sub grade earthen</u>					
<u>shoulder - do - do - all complete job</u>					
<u>(Quantities vide T.M.B. Page 17)</u>					
<u>= 1007.25 m³ @ 189.107/m³ Rs. 1,90,478 = ∞</u>					
<u>Item 8:- Construction of G.S.B. Grading A</u>					
<u>- do - do - all complete job.</u>					
<u>= 370.983 m³ (vide T.M.B. Page 13)</u>					
<u>= 73.200 m³ (vide T.M.B. Page 17)</u>					
<u>= 444.183 m³ @ 2095.030/m³ Rs. 9,30,577 = ∞</u>					
<u>Item 9:- Providing W.B.M. Grade III</u>					
<u>- do - do - all complete job.</u>					
<u>= 290.00 m³ (vide T.M.B. Page 13)</u>					
<u>= 11.81 m³ (vide T.M.B. Page 17)</u>					
<u>= 301.81 m³</u>					
<u>Finite = 301.584 m³ @ 2665.179/m³</u>					
<u>Rs. 8,03,775 = ∞</u>					
<u>Item 10:- Providing & Laying Prime coat</u>					
<u>with Bitumen Emulsion -</u>					

Continuation

Rs. 21,80,830 = ∞

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
—do—do—asper direction of E/I (Quantity vide T.M.B Page 18)					
= 1721.25 m ² @ 54.804/m ² Rs. 94338 = ∞					
Item 11:—Providing Tack Coat with Bitumen Emulsion —do—do—E/I.					
= 1721.25 m ² @ 18.612/m ² Rs. 32036 = ∞					
Item 12:—Providing & Laying & rolling mix seal surface —do—do—E/I					
= 1721.25 m ² @ 216.046/m ² Rs. 371,869 = ∞					
Item 13:—Providing P.C.C M-30 —do—do—asper direction of E/I					
= 449.777 m ³ (vide T.M.B Page 13)					
= 9.223 m ³ (vide T.M.B Page 18)					
= 459.000 m ³ @ 6282.694/m ³ Rs. 28,83,657 = ∞					
Item 14:—(Hard Shoulder) Providing & Laying Brick on edge salient —do—do—E/I					
= 375.00 m ² @ 478.303/m ² Rs. 1,79,364 = ∞					
Item 15:—Providing R.C.C M-15 K.M. stone —do—do—all complete job.					
= 2 Nos @ 2197.356/each Rs. 4,395 = ∞					
Item 16:—Providing R.C.C M-15 K.M. stone —do—do—all complete job					
= 5 Nos @ 608.969/each Rs. 3045 = ∞					
Item 17:—Providing & fixing logs of mgs —do—do—all complete job					
= 3 Nos @ 9898.94/each Rs. 29,697 = ∞					
Item 18:—Traffic Signs) Providing & fixing Traffic Signs —do—					
Continuation					Rs 57,79,324 = ∞

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
—do— super direction of E/I					
= 8 Nos @ 4,387.135/each Rs- 35,097 = ∞					
Item 19:- Retro-reflectorised Traffic Signs—do—do—all complete jobs.					
= 6 Nos @ 5639.623/each Rs- 33,838 = ∞					
Item 20:- Providing Retro-reflectorised Traffic Signs—do—do—all complete jobs.					
= 4 Nos @ 5511.416/each Rs- 22,046 = ∞					
Item 21:- Providing R.C.C. Boundary Pillar—do—do—all complete jobs.					
= 12 Nos @ 544.931/each Rs- 6,539 = ∞					
Item 22:- Road marking with hot Thermoplastic Compound—do—					
—do— all complete jobs in B.T. Portion					
= 90.00 m ² @ 850.929/m ² Rs- 76,584 = ∞					
Item 23:- Road marking in P.C.C. Portion—do—do— E/I					
= 150.00 m ² @ 951.904/m ² Rs- 1,42,787 = ∞					
<u>Construction of H.P. Culvert</u>					
Item 24:- F/W in excavation in foundation—do—do—all complete jobs.					
(Quantity vide T.M.B. Page 14)					
= 33.76 m ³ @ 261.90/m ³ Rs- 8,842 = ∞					
Item 25:- Providing 1st class Bedding.—do—do—all complete jobs.					
= 4.108 m ³ @ 459.677/m ³ Rs- 1888 = ∞					
Item 26:- Providing P.C.C. m-15—do—do— E/I					
= 3.24 m ³ @ 4681.30/m ³ Rs- 15,167 = ∞					

Continuation

Continuation